



**EUROPEAN COMMISSION**  
Directorate-General for Research and Innovation  
RTD.I – Internal Support Services & Communication  
**I.3 – Financial Management & Program Support**

## **GRANT AGREEMENT**

### **Project 101173510 — NURECAB**

#### **PREAMBLE**

This **Agreement** ('the Agreement') is **between** the following parties:

**on the one part,**

the **European Atomic Energy Community** ('EC-Euratom'), represented by the European Commission ('European Commission' or 'granting authority'),

**and**

**on the other part,**

1. 'the coordinator':

**NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT)**, PIC 969818320, established in ACADEMICHNA STREET 1, KHARKIV 61108, Ukraine,

and the following other beneficiaries, if they sign their 'accession form' (see Annex 3 and Article 40):

2. **V. N. Karazin Kharkiv National University (KGNU)**, PIC 986260984, established in Svobody sq. 4, Kharkiv 61077, Ukraine,

3. **NATIONAL TECHNICAL UNIVERSITY OF UKRAINE IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE (NTUU SKPI)**, PIC 998145715, established in 37 BERESTEISKYI AVENUE, KYIV 03056, Ukraine,

4. **ODESSA POLYTECHNIC NATIONAL UNIVERSITY (NUOP)**, PIC 888776857, established in SHEVCHENKO AVE 1, ODESSA 65044, Ukraine,

5. **TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV (TSNUK)**, PIC 994789903, established in VOLODYMYRSKA ST 60, KYIV 01033, Ukraine,

6. **NATIONAL TECHNICAL UNIVERSITY KHARKIV POLYTECHNICAL INSTITUTE (NTU KHPI)**, PIC 984498009, established in KIRPICOVA STREET 2, KHARKIV 61002, Ukraine,

Unless otherwise specified, references to 'beneficiary' or 'beneficiaries' include the coordinator and affiliated entities (if any).

If only one beneficiary signs the grant agreement (‘mono-beneficiary grant’), all provisions referring to the ‘coordinator’ or the ‘beneficiaries’ will be considered — mutatis mutandis — as referring to the beneficiary.

The parties referred to above have agreed to enter into the Agreement.

By signing the Agreement and the accession forms, the beneficiaries accept the grant and agree to implement the action under their own responsibility and in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

The Agreement is composed of:

Preamble

Terms and Conditions (including Data Sheet)

Annex 1 Description of the action<sup>1</sup>

Annex 2 Estimated budget for the action

Annex 2a Additional information on unit costs and contributions (if applicable)

Annex 3 Accession forms (if applicable)<sup>2</sup>

Annex 3a Declaration on joint and several liability of affiliated entities (if applicable)<sup>3</sup>

Annex 4 Model for the financial statements

Annex 5 Specific rules (if applicable)

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<sup>1</sup> Template published on [Portal Reference Documents](#).

<sup>2</sup> Template published on [Portal Reference Documents](#).

<sup>3</sup> Template published on [Portal Reference Documents](#).

**TERMS AND CONDITIONS**

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## DATA SHEET

### 1. General data

Project summary:

| Project summary                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The NURECAB is 24 months CSA project related to the implementation of Euratom Work Programme 2023-2025 and focused on Education, training, capacity building and networking actions to strengthen Ukrainian and EU nuclear research. The NURECAB ambition is to support further integration of UA nuclear research community into European research networking and Euratom Research and Training Programme with paying attention to improvement of Ukrainian education and training academic framework for human capacity building and ensuring safe operation of Ukrainian nuclear installations and inclusive collaboration in fission and fusion. There are 6 specific objectives of the project: - Quality improvement of nuclear education and training programme in Ukraine, - Reducing the gap between nuclear educational and training programme of Ukraine and nuclear sector needs, - Attracting young people to nuclear research and engineering, - Strengthening cooperation between UA and EU research entities and academia to improve the participation of their researchers in Euratom Research and Training Programme, - Enhancing UA Euratom NCP competences and communication tools, - Raising awareness about Euratom programme among Ukrainian stakeholders. The NURECAB project is divided on 6 Work Packages: WP1 - NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS, WP2 - STAFF TRAINING FOR UA EURATOM STAKEHOLDERS, WP3 - STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION, WP4 - CAPACITY BUILDING OF YOUTH, WP5 - COMMUNICATION, DISSEMINATION AND EXPLOITATION, WP6 - PROJECT MANAGEMENT AND COORDINATION. The NURECAB consortium is represented by 9 organization which are 5 Ukrainian nuclear education Universities, Ukrainian NPPs operator, Ukrainian nuclear society, the largest Ukrainian research center in the nuclear field that is a host of Euratom National Contact Point and European nuclear education network from Belgium.</p> |

Keywords:

- nuclear education and training, National contact point, Euratom, fission research, fusion research

Project number: 101173510

Project name: EU-UA Nuclear Research and Education Capacity Building

Project acronym: NURECAB

Call: EURATOM-2024-UKRAINIAN-IBA

Topic: EURATOM-2024-UKRAINIAN-IBA

Type of action: EURATOM Coordination and Support Actions

Granting authority: European Commission-Euratom

Grant managed through EU Funding & Tenders Portal: Yes (eGrants)

Project starting date: fixed date: 1 September 2024

Project end date: 31 August 2026

Project duration: 24 months

Consortium agreement: Yes

### 2. Participants

List of participants:

| N°  | Role | Short name | Legal name                                                          | Ctry | PIC       | Total eligible costs (BEN and AE) | Max grant amount |
|-----|------|------------|---------------------------------------------------------------------|------|-----------|-----------------------------------|------------------|
| 1   | COO  | KIPT       | NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY | UA   | 969818320 | 208 031.25                        | 208 031.25       |
| 1.1 | AE   | UkrNS      | PUBLIC ORGANISATION UKRAINIAN NUCLEAR SOCIETY                       | UA   | 888381291 | 28 000.00                         | 28 000.00        |

| N°           | Role | Short name | Legal name                                                                        | Ctry | PIC       | Total eligible costs (BEN and AE) | Max grant amount |
|--------------|------|------------|-----------------------------------------------------------------------------------|------|-----------|-----------------------------------|------------------|
| 1.2          | AE   | ENERGOATOM | STATE ENTERPRISE NATIONAL NUCLEAR ENERGY GENERATING COMPANY ENERGOATOM            | UA   | 884696261 | 10 625.00                         | 10 625.00        |
| 2            | BEN  | KKNU       | V. N. Karazin Kharkiv National University                                         | UA   | 986260984 | 75 500.00                         | 75 500.00        |
| 2.1          | AE   | ENEN       | EUROPEAN NUCLEAR EDUCATION NETWORK                                                | BE   | 905630704 | 108 625.00                        | 108 625.00       |
| 3            | BEN  | NTUU SKPI  | NATIONAL TECHNICAL UNIVERSITY OF UKRAINE IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE | UA   | 998145715 | 99 156.25                         | 99 156.25        |
| 4            | BEN  | NUOP       | ODESSA POLYTECHNIC NATIONAL UNIVERSITY                                            | UA   | 888776857 | 75 500.00                         | 75 500.00        |
| 5            | BEN  | TSNUK      | TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV                                      | UA   | 994789903 | 75 937.50                         | 75 937.50        |
| 6            | BEN  | NTU KHPI   | NATIONAL TECHNICAL UNIVERSITY KHARKIV POLYTECHNICAL INSTITUTE                     | UA   | 984498009 | 68 625.00                         | 68 625.00        |
| <b>Total</b> |      |            |                                                                                   |      |           | 750 000.00                        | 750 000.00       |

**Coordinator:**

- NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT)

**3. Grant****Maximum grant amount, total estimated eligible costs and contributions and funding rate:**

| Total eligible costs (BEN and AE) | Funding rate (%) | Maximum grant amount (Annex 2) | Maximum grant amount (award decision) |
|-----------------------------------|------------------|--------------------------------|---------------------------------------|
| 750 000.00                        | 100              | 750 000.00                     | 750 000.00                            |

**Grant form:** Budget-based**Grant mode:** Action grant**Budget categories/activity types:**

- A. Personnel costs
  - A.1 Employees, A.2 Natural persons under direct contract, A.3 Seconded persons
  - A.4 SME owners and natural person beneficiaries
- B. Subcontracting costs
- C. Purchase costs
  - C.1 Travel and subsistence
  - C.2 Equipment
  - C.3 Other goods, works and services
- D. Other cost categories
  - D.2 Internally invoiced goods and services
- E. Indirect costs

**Cost eligibility options:**

- In-kind contributions eligible costs
- Parental leave
- Project-based supplementary payments

- Average personnel costs (unit cost according to usual cost accounting practices)
- Limitation for subcontracting
- Travel and subsistence:
  - Travel: Actual costs
  - Accommodation: Actual costs
  - Subsistence: Actual costs
- Equipment: depreciation and full costs for listed equipment
- Indirect cost flat-rate: 25% of the eligible direct costs (categories A-D, except volunteers costs, subcontracting costs, financial support to third parties and exempted specific cost categories, if any)
- VAT: Yes
- Other ineligible costs

**Budget flexibility:** Yes (no flexibility cap)

#### **4. Reporting, payments and recoveries**

##### **4.1 Continuous reporting** (art 21)

**Deliverables:** see Funding & Tenders Portal Continuous Reporting tool

##### **4.2 Periodic reporting and payments**

**Reporting and payment schedule** (art 21, 22):

| Reporting         |            |          |                 |                                       | Payments             |                                                                                      |
|-------------------|------------|----------|-----------------|---------------------------------------|----------------------|--------------------------------------------------------------------------------------|
| Reporting periods |            |          | Type            | Deadline                              | Type                 | Deadline (time to pay)                                                               |
| RP No             | Month from | Month to |                 |                                       |                      |                                                                                      |
|                   |            |          |                 |                                       | Initial prefinancing | 30 days from entry into force/10 days before starting date – whichever is the latest |
|                   |            |          |                 |                                       | Final payment        | 90 days from receiving periodic report                                               |
| 1                 | 1          | 24       | Periodic report | 60 days after end of reporting period |                      |                                                                                      |

**Prefinancing payments and guarantees:**

| Prefinancing payment     |            |
|--------------------------|------------|
| Type                     | Amount     |
| Prefinancing 1 (initial) | 600 000.00 |

**Reporting and payment modalities** (art 21, 22):

Mutual Insurance Mechanism (MIM): Yes

MIM contribution: 5% of the maximum grant amount (37 500.00), retained from the initial prefinancing

Restrictions on distribution of initial prefinancing: The prefinancing may be distributed only if the minimum number of

beneficiaries set out in the call conditions (if any) have acceded to the Agreement and only to beneficiaries that have acceded.

Interim payment ceiling (if any): 90% of the maximum grant amount

Exception for revenues: Yes

No-profit rule: Yes

Late payment interest: ECB + 3.5%

Bank account for payments:

UA103223130000025302000000201 EXBSUAUX

Conversion into euros: Double conversion

Reporting language: Language of the Agreement

#### **4.3 Certificates** (art 24):

Certificates on the financial statements (CFS):

Conditions:

Schedule: only at final payment, if threshold is reached

Standard threshold (beneficiary-level):

- financial statement: requested EU contribution to costs  $\geq$  EUR 430 000.00

Special threshold for beneficiaries with a systems and process audit(see Article 24): financial statement: requested EU contribution to costs  $\geq$  EUR 725 000.00

#### **4.4 Recoveries** (art 22)

**First-line liability for recoveries:**

Beneficiary termination: Beneficiary concerned

Final payment: Each beneficiary for their own debt

After final payment: Beneficiary concerned

**Joint and several liability for enforced recoveries (in case of non-payment):**

Individual financial responsibility: Each beneficiary is liable only for its own debts (and those of its affiliated entities, if any)

Joint and several liability of affiliated entities — n/a

### **5. Consequences of non-compliance, applicable law & dispute settlement forum**

**Suspension and termination:**

Additional suspension grounds (art 31)

Additional termination grounds (art 32)

**Applicable law** (art 43):



Standard applicable law regime: EU law + law of Belgium

**Dispute settlement forum (art 43):**

Standard dispute settlement forum:

EU beneficiaries: EU General Court + EU Court of Justice (on appeal)

Non-EU beneficiaries: Courts of Brussels, Belgium (unless an international agreement provides for the enforceability of EU court judgements)

**6. Other**

**Specific rules (Annex 5):** Yes

**Standard time-limits after project end:**

Confidentiality (for X years after final payment): 5

Record-keeping (for X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Reviews (up to X years after final payment): 2

Audits (up to X years after final payment): 2

Extension of findings from other grants to this grant (no later than X years after final payment): 2

Impact evaluation (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

## **CHAPTER 1 GENERAL**

### **ARTICLE 1 — SUBJECT OF THE AGREEMENT**

This Agreement sets out the rights and obligations and terms and conditions applicable to the grant awarded for the implementation of the action set out in Chapter 2.

### **ARTICLE 2 — DEFINITIONS**

For the purpose of this Agreement, the following definitions apply:

**Actions** — The project which is being funded in the context of this Agreement.

**Grant** — The grant awarded in the context of this Agreement.

**EU grants** — Grants awarded by EU institutions, bodies, offices or agencies (including EU executive agencies, EU regulatory agencies, EDA, joint undertakings, etc.).

**Participants** — Entities participating in the action as beneficiaries, affiliated entities, associated partners, third parties giving in-kind contributions, subcontractors or recipients of financial support to third parties.

**Beneficiaries (BEN)** — The signatories of this Agreement (either directly or through an accession form).

**Affiliated entities (AE)** — Entities affiliated to a beneficiary within the meaning of Article 187 of EU Financial Regulation 2018/1046<sup>4</sup> which participate in the action with similar rights and obligations as the beneficiaries (obligation to implement action tasks and right to charge costs and claim contributions).

**Associated partners (AP)** — Entities which participate in the action, but without the right to charge costs or claim contributions.

**Purchases** — Contracts for goods, works or services needed to carry out the action (e.g. equipment, consumables and supplies) but which are not part of the action tasks (see Annex 1).

**Subcontracting** — Contracts for goods, works or services that are part of the action tasks (see Annex 1).

**In-kind contributions** — In-kind contributions within the meaning of Article 2(36) of EU Financial

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<sup>4</sup> For the definition, see Article 187 Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012 ('EU Financial Regulation') (OJ L 193, 30.7.2018, p. 1): "**affiliated entities** [are]:

- (a) entities that form a sole beneficiary [(i.e. where an entity is formed of several entities that satisfy the criteria for being awarded a grant, including where the entity is specifically established for the purpose of implementing an action to be financed by a grant)];
- (b) entities that satisfy the eligibility criteria and that do not fall within one of the situations referred to in Article 136(1) and 141(1) and that have a link with the beneficiary, in particular a legal or capital link, which is neither limited to the action nor established for the sole purpose of its implementation".

Regulation 2018/1046, i.e. non-financial resources made available free of charge by third parties.

**Fraud** — Fraud within the meaning of Article 3 of EU Directive 2017/1371<sup>5</sup> and Article 1 of the Convention on the protection of the European Communities' financial interests, drawn up by the Council Act of 26 July 1995<sup>6</sup>, as well as any other wrongful or criminal deception intended to result in financial or personal gain.

**Irregularities** — Any type of breach (regulatory or contractual) which could impact the EU financial interests, including irregularities within the meaning of Article 1(2) of EU Regulation 2988/95<sup>7</sup>.

**Grave professional misconduct** — Any type of unacceptable or improper behaviour in exercising one's profession, especially by employees, including grave professional misconduct within the meaning of Article 136(1)(c) of EU Financial Regulation 2018/1046.

**Applicable EU, international and national law** — Any legal acts or other (binding or non-binding) rules and guidance in the area concerned.

**Portal** — EU Funding & Tenders Portal; electronic portal and exchange system managed by the European Commission and used by itself and other EU institutions, bodies, offices or agencies for the management of their funding programmes (grants, procurements, prizes, etc.).

## **CHAPTER 2 ACTION**

### **ARTICLE 3 — ACTION**

The grant is awarded for the action **101173510 — NURECAB** ('action'), as described in Annex 1.

### **ARTICLE 4 — DURATION AND STARTING DATE**

The duration and the starting date of the action are set out in the Data Sheet (see Point 1).

## **CHAPTER 3 GRANT**

### **ARTICLE 5 — GRANT**

#### **5.1 Form of grant**

The grant is an action grant<sup>8</sup> which takes the form of a budget-based mixed actual cost grant (i.e. a

<sup>5</sup> Directive (EU) 2017/1371 of the European Parliament and of the Council of 5 July 2017 on the fight against fraud to the Union's financial interests by means of criminal law (OJ L 198, 28.7.2017, p. 29).

<sup>6</sup> OJ C 316, 27.11.1995, p. 48.

<sup>7</sup> Council Regulation (EC, Euratom) No 2988/95 of 18 December 1995 on the protection of the European Communities financial interests (OJ L 312, 23.12.1995, p. 1).

<sup>8</sup> For the definition, see Article 180(2)(a) EU Financial Regulation 2018/1046: '**action grant**' means an EU grant to finance "an action intended to help achieve a Union policy objective".

grant based on actual costs incurred, but which may also include other forms of funding, such as unit costs or contributions, flat-rate costs or contributions, lump sum costs or contributions or financing not linked to costs).

## **5.2 Maximum grant amount**

The maximum grant amount is set out in the Data Sheet (see Point 3) and in the estimated budget (Annex 2).

## **5.3 Funding rate**

The funding rate for costs is 100% of the action's eligible costs.

Contributions are not subject to any funding rate.

## **5.4 Estimated budget, budget categories and forms of funding**

The estimated budget for the action is set out in Annex 2.

It contains the estimated eligible costs and contributions for the action, broken down by participant and budget category.

Annex 2 also shows the types of costs and contributions (forms of funding)<sup>9</sup> to be used for each budget category.

If unit costs or contributions are used, the details on the calculation will be explained in Annex 2a.

## **5.5 Budget flexibility**

The budget breakdown may be adjusted — without an amendment (see Article 39) — by transfers (between participants and budget categories), as long as this does not imply any substantive or important change to the description of the action in Annex 1.

However:

- changes to the budget category for volunteers (if used) always require an amendment
- changes to budget categories with lump sums costs or contributions (if used; including financing not linked to costs) always require an amendment
- changes to budget categories with higher funding rates or budget ceilings (if used) always require an amendment
- addition of amounts for subcontracts not provided for in Annex 1 either require an amendment or simplified approval in accordance with Article 6.2
- other changes require an amendment or simplified approval, if specifically provided for in Article 6.2
- flexibility caps: not applicable.

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<sup>9</sup> See Article 125 EU Financial Regulation 2018/1046.

## ARTICLE 6 — ELIGIBLE AND INELIGIBLE COSTS AND CONTRIBUTIONS

In order to be eligible, costs and contributions must meet the **eligibility** conditions set out in this Article.

### 6.1 General eligibility conditions

The **general eligibility conditions** are the following:

(a) for actual costs:

- (i) they must be actually incurred by the beneficiary
- (ii) they must be incurred in the period set out in Article 4 (with the exception of costs relating to the submission of the final periodic report, which may be incurred afterwards; see Article 21)
- (iii) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
- (iv) they must be incurred in connection with the action as described in Annex 1 and necessary for its implementation
- (v) they must be identifiable and verifiable, in particular recorded in the beneficiary's accounts in accordance with the accounting standards applicable in the country where the beneficiary is established and with the beneficiary's usual cost accounting practices
- (vi) they must comply with the applicable national law on taxes, labour and social security and
- (vii) they must be reasonable, justified and must comply with the principle of sound financial management, in particular regarding economy and efficiency

(b) for unit costs or contributions (if any):

- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
- (ii) the units must:
  - be actually used or produced by the beneficiary in the period set out in Article 4 (with the exception of units relating to the submission of the final periodic report, which may be used or produced afterwards; see Article 21)
  - be necessary for the implementation of the action and
- (iii) the number of units must be identifiable and verifiable, in particular supported by records and documentation (see Article 20)

(c) for flat-rate costs or contributions (if any):

- (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2

- (ii) the costs or contributions to which the flat-rate is applied must:
  - be eligible
  - relate to the period set out in Article 4 (with the exception of costs or contributions relating to the submission of the final periodic report, which may be incurred afterwards; see Article 21)
- (d) for lump sum costs or contributions (if any):
  - (i) they must be declared under one of the budget categories set out in Article 6.2 and Annex 2
  - (ii) the work must be properly implemented by the beneficiary in accordance with Annex 1
  - (iii) the deliverables/outputs must be achieved in the period set out in Article 4 (with the exception of deliverables/outputs relating to the submission of the final periodic report, which may be achieved afterwards; see Article 21)
- (e) for unit, flat-rate or lump sum costs or contributions according to usual cost accounting practices (if any):
  - (i) they must fulfil the general eligibility conditions for the type of cost concerned
  - (ii) the cost accounting practices must be applied in a consistent manner, based on objective criteria, regardless of the source of funding
- (f) for financing not linked to costs (if any): the results must be achieved or the conditions must be fulfilled as described in Annex 1.

In addition, for direct cost categories (e.g. personnel, travel & subsistence, subcontracting and other direct costs) only costs that are directly linked to the action implementation and can therefore be attributed to it directly are eligible. They must not include any indirect costs (i.e. costs that are only indirectly linked to the action, e.g. via cost drivers).

**In-kind contributions** provided by third parties free of charge may be declared as eligible direct costs by the beneficiaries which use them (under the same conditions as if they were their own, provided that they concern only direct costs and that the third parties and their in-kind contributions are set out in Annex 1 (or approved ex post in the periodic report, if their use does not entail changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants; ‘simplified approval procedure’).

## 6.2 Specific eligibility conditions for each budget category

For each budget category, the **specific eligibility conditions** are as follows:

### Direct costs

#### A. Personnel costs

**A.1 Costs for employees (or equivalent)** are eligible as personnel costs if they fulfil the general eligibility conditions and are related to personnel working for the beneficiary under an employment contract (or equivalent appointing act) and assigned to the action.

They must be limited to salaries (including net payments during parental leave), social security contributions, taxes and other costs linked to the remuneration, if they arise from national law or the employment contract (or equivalent appointing act) and be calculated on the basis of the costs actually incurred, in accordance with the following method:

{daily rate for the person  
multiplied by  
number of day-equivalents worked on the action (rounded up or down to the nearest half-day)}.

The daily rate must be calculated as:

{annual personnel costs for the person  
divided by  
215}.

The number of day-equivalents declared for a person must be identifiable and verifiable (see Article 20).

The actual time spent on parental leave by a person assigned to the action may be deducted from the 215 days indicated in the above formula.

The total number of day-equivalents declared in EU grants, for a person for a year, cannot be higher than 215, minus time spent on parental leave (if any).

For personnel which receives supplementary payments for work in projects (project-based remuneration), the personnel costs must be calculated at a rate which:

- corresponds to the actual remuneration costs paid by the beneficiary for the time worked by the person in the action over the reporting period
- does not exceed the remuneration costs paid by the beneficiary for work in similar projects funded by national schemes ('national projects reference')
- is defined based on objective criteria allowing to determine the amount to which the person is entitled

and

- reflects the usual practice of the beneficiary to pay consistently bonuses or supplementary payments for work in projects funded by national schemes.

The national projects reference is the remuneration defined in national law, collective labour agreement or written internal rules of the beneficiary applicable to work in projects funded by national schemes.

If there is no such national law, collective labour agreement or written internal rules or if the project-based remuneration is not based on objective criteria, the national project reference will be the average

remuneration of the person in the last full calendar year covered by the reporting period, excluding remuneration paid for work in EU actions.

If the beneficiary uses average personnel costs (unit cost according to usual cost accounting practices), the personnel costs must fulfil the general eligibility conditions for such unit costs and the daily rate must be calculated:

- using the actual personnel costs recorded in the beneficiary's accounts and excluding any costs which are ineligible or already included in other budget categories; the actual personnel costs may be adjusted on the basis of budgeted or estimated elements, if they are relevant for calculating the personnel costs, reasonable and correspond to objective and verifiable information

and

- according to usual cost accounting practices which are applied in a consistent manner, based on objective criteria, regardless of the source of funding.

**A.2 and A.3 Costs for natural persons working under a direct contract** other than an employment contract and costs for **seconded persons by a third party against payment** are also eligible as personnel costs, if they are assigned to the action, fulfil the general eligibility conditions and:

- (a) work under conditions similar to those of an employee (in particular regarding the way the work is organised, the tasks that are performed and the premises where they are performed) and
- (b) the result of the work belongs to the beneficiary (unless agreed otherwise).

They must be calculated on the basis of a rate which corresponds to the costs actually incurred for the direct contract or secondment and must not be significantly different from those for personnel performing similar tasks under an employment contract with the beneficiary.

**A.4** The work of **SME owners** for the action (i.e. owners of beneficiaries that are small and medium-sized enterprises<sup>10</sup> not receiving a salary) or **natural person beneficiaries** (i.e. beneficiaries that are natural persons not receiving a salary) may be declared as personnel costs, if they fulfil the general eligibility conditions and are calculated as unit costs in accordance with the method set out in Annex 2a.

## B. Subcontracting costs

**Subcontracting costs** for the action (including related duties, taxes and charges, such as non-deductible or non-refundable value added tax (VAT)) are eligible, if they are calculated on the basis of the costs actually incurred, fulfil the general eligibility conditions and are awarded using the

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<sup>10</sup> For the definition, see Commission Recommendation 2003/361/EC: micro, small or medium-sized enterprise (SME) are enterprises

- engaged in an economic activity, irrespective of their legal form (including, in particular, self-employed persons and family businesses engaged in craft or other activities, and partnerships or associations regularly engaged in an economic activity) and
- employing fewer than 250 persons (expressed in 'annual working units' as defined in Article 5 of the Recommendation) and which have an annual turnover not exceeding EUR 50 million, and/or an annual balance sheet total not exceeding EUR 43 million.

beneficiary's usual purchasing practices — provided these ensure subcontracts with best value for money (or if appropriate the lowest price) and that there is no conflict of interests (see Article 12).

Beneficiaries that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement.

Subcontracting may cover only a limited part of the action.

The tasks to be subcontracted and the estimated cost for each subcontract must be set out in Annex 1 and the total estimated costs of subcontracting per beneficiary must be set out in Annex 2 (or may be approved ex post in the periodic report, if the use of subcontracting does not entail changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants; 'simplified approval procedure').

## C. Purchase costs

**Purchase costs** for the action (including related duties, taxes and charges, such as non-deductible or non-refundable value added tax (VAT)) are eligible if they fulfil the general eligibility conditions and are bought using the beneficiary's usual purchasing practices — provided these ensure purchases with best value for money (or if appropriate the lowest price) and that there is no conflict of interests (see Article 12).

Beneficiaries that are 'contracting authorities/entities' within the meaning of the EU Directives on public procurement must also comply with the applicable national law on public procurement.

### C.1 Travel and subsistence

Purchases for **travel, accommodation** and **subsistence** must be calculated as follows:

- travel: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel
- accommodation: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel
- subsistence: on the basis of the costs actually incurred and in line with the beneficiary's usual practices on travel .

### C.2 Equipment

Purchases of **equipment, infrastructure or other assets** used for the action must be declared as depreciation costs, calculated on the basis of the costs actually incurred and written off in accordance with international accounting standards and the beneficiary's usual accounting practices.

Only the portion of the costs that corresponds to the rate of actual use for the action during the action duration can be taken into account.

Costs for **renting or leasing** equipment, infrastructure or other assets are also eligible, if they do not exceed the depreciation costs of similar equipment, infrastructure or assets and do not include any financing fees.

### C.3 Other goods, works and services

Purchases of **other goods, works and services** must be calculated on the basis of the costs actually incurred.

Such goods, works and services include, for instance, consumables and supplies, promotion, dissemination, protection of results, translations, publications, certificates and financial guarantees, if required under the Agreement.

## **D. Other cost categories**

### **D.2 Internally invoiced goods and services**

**Costs for internally invoiced goods and services** directly used for the action may be declared as unit cost according to usual cost accounting practices, if and as declared eligible in the call conditions, if they fulfil the general eligibility conditions for such unit costs and the amount per unit is calculated:

- using the actual costs for the good or service recorded in the beneficiary's accounts, attributed either by direct measurement or on the basis of cost drivers, and excluding any cost which are ineligible or already included in other budget categories; the actual costs may be adjusted on the basis of budgeted or estimated elements, if they are relevant for calculating the costs, reasonable and correspond to objective and verifiable information

and

- according to usual cost accounting practices which are applied in a consistent manner, based on objective criteria, regardless of the source of funding.

'Internally invoiced goods and services' means goods or services which are provided within the beneficiary's organisation directly for the action and which the beneficiary values on the basis of its usual cost accounting practices.

This cost will not be taken into account for the indirect cost flat-rate.

### **Indirect costs**

## **E. Indirect costs**

**Indirect costs** will be reimbursed at the flat-rate of 25% of the eligible direct costs (categories A-D, except volunteers costs, subcontracting costs, financial support to third parties and exempted specific cost categories, if any).

### **Contributions**

Not applicable

## **6.3 Ineligible costs and contributions**

The following costs or contributions are **ineligible**:

- (a) costs or contributions that do not comply with the conditions set out above (Article 6.1 and 6.2), in particular:
  - (i) costs related to return on capital and dividends paid by a beneficiary

- (ii) debt and debt service charges
  - (iii) provisions for future losses or debts
  - (iv) interest owed
  - (v) currency exchange losses
  - (vi) bank costs charged by the beneficiary's bank for transfers from the granting authority
  - (vii) excessive or reckless expenditure
  - (viii) deductible or refundable VAT (including VAT paid by public bodies acting as public authority)
  - (ix) costs incurred or contributions for activities implemented during grant agreement suspension (see Article 31)
  - (x) in-kind contributions by third parties: not applicable
- (b) costs or contributions declared under other EU grants (or grants awarded by an EU Member State, non-EU country or other body implementing the EU budget), except for the following cases:
- (i) Synergy actions: not applicable
  - (ii) if the action grant is combined with an operating grant<sup>11</sup> running during the same period and the beneficiary can demonstrate that the operating grant does not cover any (direct or indirect) costs of the action grant
- (c) costs or contributions for staff of a national (or regional/local) administration, for activities that are part of the administration's normal activities (i.e. not undertaken only because of the grant)
- (d) costs or contributions (especially travel and subsistence) for staff or representatives of EU institutions, bodies or agencies
- (e) other :
- (i) country restrictions for eligible costs: not applicable
  - (ii) costs or contributions declared specifically ineligible in the call conditions.

## 6.4 Consequences of non-compliance

If a beneficiary declares costs or contributions that are ineligible, they will be rejected (see Article 27).

This may also lead to other measures described in Chapter 5.

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<sup>11</sup> For the definition, see Article 180(2)(b) of EU Financial Regulation 2018/1046: ‘**operating grant**’ means an EU grant to finance “the functioning of a body which has an objective forming part of and supporting an EU policy”.

## **CHAPTER 4 GRANT IMPLEMENTATION**

### **SECTION 1 CONSORTIUM: BENEFICIARIES, AFFILIATED ENTITIES AND OTHER PARTICIPANTS**

#### **ARTICLE 7 — BENEFICIARIES**

The beneficiaries, as signatories of the Agreement, are fully responsible towards the granting authority for implementing it and for complying with all its obligations.

They must implement the Agreement to their best abilities, in good faith and in accordance with all the obligations and terms and conditions it sets out.

They must have the appropriate resources to implement the action and implement the action under their own responsibility and in accordance with Article 11. If they rely on affiliated entities or other participants (see Articles 8 and 9), they retain sole responsibility towards the granting authority and the other beneficiaries.

They are jointly responsible for the *technical* implementation of the action. If one of the beneficiaries fails to implement their part of the action, the other beneficiaries must ensure that this part is implemented by someone else (without being entitled to an increase of the maximum grant amount and subject to an amendment; see Article 39). The *financial* responsibility of each beneficiary in case of recoveries is governed by Article 22.

The beneficiaries (and their action) must remain eligible under the EU programme funding the grant for the entire duration of the action. Costs and contributions will be eligible only as long as the beneficiary and the action are eligible.

The **internal roles and responsibilities** of the beneficiaries are divided as follows:

(a) Each beneficiary must:

- (i) keep information stored in the Portal Participant Register up to date (see Article 19)
- (ii) inform the granting authority (and the other beneficiaries) immediately of any events or circumstances likely to affect significantly or delay the implementation of the action (see Article 19)
- (iii) submit to the coordinator in good time:
  - the prefinancing guarantees (if required; see Article 23)
  - the financial statements and certificates on the financial statements (CFS) (if required; see Articles 21 and 24.2 and Data Sheet, Point 4.3)
  - the contribution to the deliverables and technical reports (see Article 21)
  - any other documents or information required by the granting authority under the Agreement
- (iv) submit via the Portal data and information related to the participation of their affiliated entities.

(b) The coordinator must:

- (i) monitor that the action is implemented properly (see Article 11)
- (ii) act as the intermediary for all communications between the consortium and the granting authority, unless the Agreement or granting authority specifies otherwise, and in particular:
  - submit the prefinancing guarantees to the granting authority (if any)
  - request and review any documents or information required and verify their quality and completeness before passing them on to the granting authority
  - submit the deliverables and reports to the granting authority
  - inform the granting authority about the payments made to the other beneficiaries (report on the distribution of payments; if required, see Articles 22 and 32)
- (iii) distribute the payments received from the granting authority to the other beneficiaries without unjustified delay (see Article 22).

The coordinator may not delegate or subcontract the above-mentioned tasks to any other beneficiary or third party (including affiliated entities).

However, coordinators which are public bodies may delegate the tasks set out in Point (b)(ii) last indent and (iii) above to entities with ‘authorisation to administer’ which they have created or which are controlled by or affiliated to them. In this case, the coordinator retains sole responsibility for the payments and for compliance with the obligations under the Agreement.

Moreover, coordinators which are ‘sole beneficiaries’<sup>12</sup> (or similar, such as European research infrastructure consortia (ERICs)) may delegate the tasks set out in Point (b)(i) to (iii) above to one of their members. The coordinator retains sole responsibility for compliance with the obligations under the Agreement.

The beneficiaries must have **internal arrangements** regarding their operation and co-ordination, to ensure that the action is implemented properly.

If required by the granting authority (see Data Sheet, Point 1), these arrangements must be set out in a written **consortium agreement** between the beneficiaries, covering for instance:

- the internal organisation of the consortium
- the management of access to the Portal
- different distribution keys for the payments and financial responsibilities in case of recoveries (if any)
- additional rules on rights and obligations related to background and results (see Article 16)

<sup>12</sup> For the definition, see Article 187(2) EU Financial Regulation 2018/1046: “Where several entities satisfy the criteria for being awarded a grant and together form one entity, that entity may be treated as the **sole beneficiary**, including where it is specifically established for the purpose of implementing the action financed by the grant.”

- settlement of internal disputes
- liability, indemnification and confidentiality arrangements between the beneficiaries.

The internal arrangements must not contain any provision contrary to this Agreement.

## ARTICLE 8 — AFFILIATED ENTITIES

The following entities which are linked to a beneficiary will participate in the action as ‘affiliated entities’:

- **PUBLIC ORGANISATION UKRAINIAN NUCLEAR SOCIETY (UkrNS)**, PIC 888381291, linked to NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT)
- **STATE ENTERPRISE NATIONAL NUCLEAR ENERGY GENERATING COMPANY ENERGOATOM (ENERGOATOM)**, PIC 884696261, linked to NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT)
- **EUROPEAN NUCLEAR EDUCATION NETWORK (ENEN)**, PIC 905630704, linked to V. N. Karazin Kharkiv National University (KKNU)

Affiliated entities can charge costs and contributions to the action under the same conditions as the beneficiaries and must implement the action tasks attributed to them in Annex 1 in accordance with Article 11.

Their costs and contributions will be included in Annex 2 and will be taken into account for the calculation of the grant.

The beneficiaries must ensure that all their obligations under this Agreement also apply to their affiliated entities.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the affiliated entities.

Breaches by affiliated entities will be handled in the same manner as breaches by beneficiaries. Recovery of undue amounts will be handled through the beneficiaries.

If the granting authority requires joint and several liability of affiliated entities (see Data Sheet, Point 4.4), they must sign the declaration set out in Annex 3a and may be held liable in case of enforced recoveries against their beneficiaries (see Article 22.2 and 22.4).

## ARTICLE 9 — OTHER PARTICIPANTS INVOLVED IN THE ACTION

### 9.1 Associated partners

Not applicable

### 9.2 Third parties giving in-kind contributions to the action

Other third parties may give in-kind contributions to the action (i.e. personnel, equipment, other goods, works and services, etc. which are free-of-charge) if necessary for the implementation.

Third parties giving in-kind contributions do not implement any action tasks. They may not charge costs or contributions to the action, but the costs for the in-kind contributions are eligible and may be charged by the beneficiaries which use them, under the conditions set out in Article 6. The costs will be included in Annex 2 as part of the beneficiaries' costs.

The third parties and their in-kind contributions should be set out in Annex 1.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the third parties giving in-kind contributions.

### **9.3 Subcontractors**

Subcontractors may participate in the action, if necessary for the implementation.

Subcontractors must implement their action tasks in accordance with Article 11. The costs for the subcontracted tasks (invoiced price from the subcontractor) are eligible and may be charged by the beneficiaries, under the conditions set out in Article 6. The costs will be included in Annex 2 as part of the beneficiaries' costs.

The beneficiaries must ensure that their contractual obligations under Articles 11 (proper implementation), 12 (conflict of interest), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the subcontractors.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the subcontractors.

### **9.4 Recipients of financial support to third parties**

If the action includes providing financial support to third parties (e.g. grants, prizes or similar forms of support), the beneficiaries must ensure that their contractual obligations under Articles 12 (conflict of interest), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the third parties receiving the support (recipients).

The beneficiaries must also ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the recipients.

## **ARTICLE 10 — PARTICIPANTS WITH SPECIAL STATUS**

### **10.1 Non-EU participants**

Participants which are established in a non-EU country (if any) undertake to comply with their obligations under the Agreement and:

- to respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
- for the submission of certificates under Article 24: to use qualified external auditors which

are independent and comply with comparable standards as those set out in EU Directive 2006/43/EC<sup>13</sup>

- for the controls under Article 25: to allow for checks, reviews, audits and investigations (including on-the-spot checks, visits and inspections) by the bodies mentioned in that Article (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.).

Special rules on dispute settlement apply (see Data Sheet, Point 5).

## 10.2 Participants which are international organisations

Participants which are international organisations (IOs; if any) undertake to comply with their obligations under the Agreement and:

- to respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
- for the submission of certificates under Article 24: to use either independent public officers or external auditors which comply with comparable standards as those set out in EU Directive 2006/43/EC
- for the controls under Article 25: to allow for the checks, reviews, audits and investigations by the bodies mentioned in that Article, taking into account the specific agreements concluded by them and the EU (if any).

For such participants, nothing in the Agreement will be interpreted as a waiver of their privileges or immunities, as accorded by their constituent documents or international law.

Special rules on applicable law and dispute settlement apply (see Article 43 and Data Sheet, Point 5).

## 10.3 Pillar-assessed participants

Pillar-assessed participants (if any) may rely on their own systems, rules and procedures, in so far as they have been positively assessed and do not call into question the decision awarding the grant or breach the principle of equal treatment of applicants or beneficiaries.

‘Pillar-assessment’ means a review by the European Commission on the systems, rules and procedures which participants use for managing EU grants (in particular internal control system, accounting system, external audits, financing of third parties, rules on recovery and exclusion, information on recipients and protection of personal data; see Article 154 EU Financial Regulation 2018/1046).

Participants with a positive pillar assessment may rely on their own systems, rules and procedures, in particular for:

- record-keeping (Article 20): may be done in accordance with internal standards, rules and procedures

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<sup>13</sup> Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts or similar national regulations (OJ L 157, 9.6.2006, p. 87).

- currency conversion for financial statements (Article 21): may be done in accordance with usual accounting practices
- guarantees (Article 23): for public law bodies, prefinancing guarantees are not needed
- certificates (Article 24):
  - certificates on the financial statements (CFS): may be provided by their regular internal or external auditors and in accordance with their internal financial regulations and procedures
  - certificates on usual accounting practices (CoMUC): are not needed if those practices are covered by an ex-ante assessment

and use the following specific rules, for:

- recoveries (Article 22): in case of financial support to third parties, there will be no recovery if the participant has done everything possible to retrieve the undue amounts from the third party receiving the support (including legal proceedings) and non-recovery is not due to an error or negligence on its part
- checks, reviews, audits and investigations by the EU (Article 25): will be conducted taking into account the rules and procedures specifically agreed between them and the framework agreement (if any)
- impact evaluation (Article 26): will be conducted in accordance with the participant's internal rules and procedures and the framework agreement (if any)
- grant agreement suspension (Article 31): certain costs incurred during grant suspension are eligible (notably, minimum costs necessary for a possible resumption of the action and costs relating to contracts which were entered into before the pre-information letter was received and which could not reasonably be suspended, reallocated or terminated on legal grounds)
- grant agreement termination (Article 32): the final grant amount and final payment will be calculated taking into account also costs relating to contracts due for execution only after termination takes effect, if the contract was entered into before the pre-information letter was received and could not reasonably be terminated on legal grounds
- liability for damages (Article 33.2): the granting authority must be compensated for damage it sustains as a result of the implementation of the action or because the action was not implemented in full compliance with the Agreement only if the damage is due to an infringement of the participant's internal rules and procedures or due to a violation of third parties' rights by the participant or one of its employees or individual for whom the employees are responsible.

Participants whose pillar assessment covers procurement and granting procedures may also do purchases, subcontracting and financial support to third parties (Article 6.2) in accordance with their internal rules and procedures for purchases, subcontracting and financial support.

Participants whose pillar assessment covers data protection rules may rely on their internal standards, rules and procedures for data protection (Article 15).

The participants may however not rely on provisions which would breach the principle of equal treatment of applicants or beneficiaries or call into question the decision awarding the grant, such as in particular:

- eligibility (Article 6)
- consortium roles and set-up (Articles 7-9)
- security and ethics (Articles 13, 14)
- IPR (including background and results, access rights and rights of use), communication, dissemination and visibility (Articles 16 and 17)
- information obligation (Article 19)
- payment, reporting and amendments (Articles 21, 22 and 39)
- rejections, reductions, suspensions and terminations (Articles 27, 28, 29-32)

If the pillar assessment was subject to remedial measures, reliance on the internal systems, rules and procedures is subject to compliance with those remedial measures.

Participants whose assessment has not yet been updated to cover (the new rules on) data protection may rely on their internal systems, rules and procedures, provided that they ensure that personal data is:

- processed lawfully, fairly and in a transparent manner in relation to the data subject
- collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes
- adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed
- accurate and, where necessary, kept up to date
- kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the data is processed and
- processed in a manner that ensures appropriate security of the personal data.

Participants must inform the coordinator without delay of any changes to the systems, rules and procedures that were part of the pillar assessment. The coordinator must immediately inform the granting authority.

Pillar-assessed participants that have also concluded a framework agreement with the EU, may moreover — under the same conditions as those above (i.e. not call into question the decision awarding the grant or breach the principle of equal treatment of applicants or beneficiaries) — rely on the provisions set out in that framework agreement.

## **SECTION 2 RULES FOR CARRYING OUT THE ACTION**

### **ARTICLE 11 — PROPER IMPLEMENTATION OF THE ACTION**

## **11.1 Obligation to properly implement the action**

The beneficiaries must implement the action as described in Annex 1 and in compliance with the provisions of the Agreement, the call conditions and all legal obligations under applicable EU, international and national law.

## **11.2 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

# **ARTICLE 12 — CONFLICT OF INTERESTS**

## **12.1 Conflict of interests**

The beneficiaries must take all measures to prevent any situation where the impartial and objective implementation of the Agreement could be compromised for reasons involving family, emotional life, political or national affinity, economic interest or any other direct or indirect interest ('conflict of interests').

They must formally notify the granting authority without delay of any situation constituting or likely to lead to a conflict of interests and immediately take all the necessary steps to rectify this situation.

The granting authority may verify that the measures taken are appropriate and may require additional measures to be taken by a specified deadline.

## **12.2 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28) and the grant or the beneficiary may be terminated (see Article 32).

Such breaches may also lead to other measures described in Chapter 5.

# **ARTICLE 13 — CONFIDENTIALITY AND SECURITY**

## **13.1 Sensitive information**

The parties must keep confidential any data, documents or other material (in any form) that is identified as sensitive in writing ('sensitive information') — during the implementation of the action and for at least until the time-limit set out in the Data Sheet (see Point 6).

If a beneficiary requests, the granting authority may agree to keep such information confidential for a longer period.

Unless otherwise agreed between the parties, they may use sensitive information only to implement the Agreement.

The beneficiaries may disclose sensitive information to their personnel or other participants involved in the action only if they:

- (a) need to know it in order to implement the Agreement and
- (b) are bound by an obligation of confidentiality.

The granting authority may disclose sensitive information to its staff and to other EU institutions and bodies.

It may moreover disclose sensitive information to third parties, if:

- (a) this is necessary to implement the Agreement or safeguard the EU financial interests and
- (b) the recipients of the information are bound by an obligation of confidentiality.

The confidentiality obligations no longer apply if:

- (a) the disclosing party agrees to release the other party
- (b) the information becomes publicly available, without breaching any confidentiality obligation
- (c) the disclosure of the sensitive information is required by EU, international or national law.

Specific confidentiality rules (if any) are set out in Annex 5.

### **13.2 Classified information**

The parties must handle classified information in accordance with the applicable EU, international or national law on classified information (in particular, Decision 2015/444<sup>14</sup> and its implementing rules).

Deliverables which contain classified information must be submitted according to special procedures agreed with the granting authority.

Action tasks involving classified information may be subcontracted only after explicit approval (in writing) from the granting authority.

Classified information may not be disclosed to any third party (including participants involved in the action implementation) without prior explicit written approval from the granting authority.

Specific security rules (if any) are set out in Annex 5.

### **13.3 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

## **ARTICLE 14 — ETHICS AND VALUES**

### **14.1 Ethics**

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<sup>14</sup> Commission Decision 2015/444/EC, Euratom of 13 March 2015 on the security rules for protecting EU classified information (OJ L 72, 17.3.2015, p. 53).

The action must be carried out in line with the highest ethical standards and the applicable EU, international and national law on ethical principles.

Specific ethics rules (if any) are set out in Annex 5.

## **14.2 Values**

The beneficiaries must commit to and ensure the respect of basic EU values (such as respect for human dignity, freedom, democracy, equality, the rule of law and human rights, including the rights of minorities).

Specific rules on values (if any) are set out in Annex 5.

## **14.3 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

# **ARTICLE 15 — DATA PROTECTION**

## **15.1 Data processing by the granting authority**

Any personal data under the Agreement will be processed under the responsibility of the data controller of the granting authority in accordance with and for the purposes set out in the Portal Privacy Statement.

For grants where the granting authority is the European Commission, an EU regulatory or executive agency, joint undertaking or other EU body, the processing will be subject to Regulation 2018/1725<sup>15</sup>.

## **15.2 Data processing by the beneficiaries**

The beneficiaries must process personal data under the Agreement in compliance with the applicable EU, international and national law on data protection (in particular, Regulation 2016/679<sup>16</sup>).

They must ensure that personal data is:

- processed lawfully, fairly and in a transparent manner in relation to the data subjects
- collected for specified, explicit and legitimate purposes and not further processed in a manner that is incompatible with those purposes

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<sup>15</sup> Regulation (EU) 2018/1725 of the European Parliament and of the Council of 23 October 2018 on the protection of natural persons with regard to the processing of personal data by the Union institutions, bodies, offices and agencies and on the free movement of such data, and repealing Regulation (EC) No 45/2001 and Decision No 1247/2002/EC (OJ L 295, 21.11.2018, p. 39).

<sup>16</sup> Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC ('GDPR') (OJ L 119, 4.5.2016, p. 1).

- adequate, relevant and limited to what is necessary in relation to the purposes for which they are processed
- accurate and, where necessary, kept up to date
- kept in a form which permits identification of data subjects for no longer than is necessary for the purposes for which the data is processed and
- processed in a manner that ensures appropriate security of the data.

The beneficiaries may grant their personnel access to personal data only if it is strictly necessary for implementing, managing and monitoring the Agreement. The beneficiaries must ensure that the personnel is under a confidentiality obligation.

The beneficiaries must inform the persons whose data are transferred to the granting authority and provide them with the Portal Privacy Statement.

### **15.3 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

## **ARTICLE 16 — INTELLECTUAL PROPERTY RIGHTS (IPR) — BACKGROUND AND RESULTS — ACCESS RIGHTS AND RIGHTS OF USE**

### **16.1 Background and access rights to background**

The beneficiaries must give each other and the other participants access to the background identified as needed for implementing the action, subject to any specific rules in Annex 5.

‘Background’ means any data, know-how or information — whatever its form or nature (tangible or intangible), including any rights such as intellectual property rights — that is:

- (a) held by the beneficiaries before they acceded to the Agreement and
- (b) needed to implement the action or exploit the results.

If background is subject to rights of a third party, the beneficiary concerned must ensure that it is able to comply with its obligations under the Agreement.

### **16.2 Ownership of results**

The granting authority does not obtain ownership of the results produced under the action.

‘Results’ means any tangible or intangible effect of the action, such as data, know-how or information, whatever its form or nature, whether or not it can be protected, as well as any rights attached to it, including intellectual property rights.

### **16.3 Rights of use of the granting authority on materials, documents and information received for policy, information, communication, dissemination and publicity purposes**

The granting authority has the right to use non-sensitive information relating to the action and materials and documents received from the beneficiaries (notably summaries for publication, deliverables, as well as any other material, such as pictures or audio-visual material, in paper or electronic form) for policy, information, communication, dissemination and publicity purposes — during the action or afterwards.

The right to use the beneficiaries' materials, documents and information is granted in the form of a royalty-free, non-exclusive and irrevocable licence, which includes the following rights:

- (a) **use for its own purposes** (in particular, making them available to persons working for the granting authority or any other EU service (including institutions, bodies, offices, agencies, etc.) or EU Member State institution or body; copying or reproducing them in whole or in part, in unlimited numbers; and communication through press information services)
- (b) **distribution to the public** (in particular, publication as hard copies and in electronic or digital format, publication on the internet, as a downloadable or non-downloadable file, broadcasting by any channel, public display or presentation, communicating through press information services, or inclusion in widely accessible databases or indexes)
- (c) **editing or redrafting** (including shortening, summarising, inserting other elements (e.g. meta-data, legends, other graphic, visual, audio or text elements), extracting parts (e.g. audio or video files), dividing into parts, use in a compilation)
- (d) **translation**
- (e) **storage** in paper, electronic or other form
- (f) **archiving**, in line with applicable document-management rules
- (g) the right to authorise **third parties** to act on its behalf or sub-license to third parties the modes of use set out in Points (b), (c), (d) and (f), if needed for the information, communication and publicity activity of the granting authority
- (h) **processing**, analysing, aggregating the materials, documents and information received and **producing derivative works**.

The rights of use are granted for the whole duration of the industrial or intellectual property rights concerned.

If materials or documents are subject to moral rights or third party rights (including intellectual property rights or rights of natural persons on their image and voice), the beneficiaries must ensure that they comply with their obligations under this Agreement (in particular, by obtaining the necessary licences and authorisations from the rights holders concerned).

Where applicable, the granting authority will insert the following information:

“© – [year] – [name of the copyright owner]. All rights reserved. Licensed to the [name of granting authority] under conditions.”

## 16.4 Specific rules on IPR, results and background

Specific rules regarding intellectual property rights, results and background (if any) are set out in Annex 5.

## 16.5 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such a breach may also lead to other measures described in Chapter 5.

## ARTICLE 17 — COMMUNICATION, DISSEMINATION AND VISIBILITY

### 17.1 Communication — Dissemination — Promoting the action

Unless otherwise agreed with the granting authority, the beneficiaries must promote the action and its results by providing targeted information to multiple audiences (including the media and the public), in accordance with Annex 1 and in a strategic, coherent and effective manner.

Before engaging in a communication or dissemination activity expected to have a major media impact, the beneficiaries must inform the granting authority.

### 17.2 Visibility — European flag and funding statement

Unless otherwise agreed with the granting authority, communication activities of the beneficiaries related to the action (including media relations, conferences, seminars, information material, such as brochures, leaflets, posters, presentations, etc., in electronic form, via traditional or social media, etc.), dissemination activities and any infrastructure, equipment, vehicles, supplies or major result funded by the grant must acknowledge EU support and display the European flag (emblem) and funding statement (translated into local languages, where appropriate):



Funded by the  
European Union



Co-funded by the  
European Union



Funded by the  
European Union



Co-funded by the  
European Union

The emblem must remain distinct and separate and cannot be modified by adding other visual marks, brands or text.

Apart from the emblem, no other visual identity or logo may be used to highlight the EU support.

When displayed in association with other logos (e.g. of beneficiaries or sponsors), the emblem must be displayed at least as prominently and visibly as the other logos.

For the purposes of their obligations under this Article, the beneficiaries may use the emblem without first obtaining approval from the granting authority. This does not, however, give them the right to exclusive use. Moreover, they may not appropriate the emblem or any similar trademark or logo, either by registration or by any other means.

### **17.3 Quality of information — Disclaimer**

Any communication or dissemination activity related to the action must use factually accurate information.

Moreover, it must indicate the following disclaimer (translated into local languages where appropriate):

“Funded by the European Union. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or [name of the granting authority]. Neither the European Union nor the granting authority can be held responsible for them.”

### **17.4 Specific communication, dissemination and visibility rules**

Specific communication, dissemination and visibility rules (if any) are set out in Annex 5.

### **17.5 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

## **ARTICLE 18 — SPECIFIC RULES FOR CARRYING OUT THE ACTION**

### **18.1 Specific rules for carrying out the action**

Specific rules for implementing the action (if any) are set out in Annex 5.

### **18.2 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such a breach may also lead to other measures described in Chapter 5.

## **SECTION 3 GRANT ADMINISTRATION**

## **ARTICLE 19 — GENERAL INFORMATION OBLIGATIONS**

### **19.1 Information requests**

The beneficiaries must provide — during the action or afterwards and in accordance with Article 7 — any information requested in order to verify eligibility of the costs or contributions declared, proper implementation of the action and compliance with the other obligations under the Agreement.

The information provided must be accurate, precise and complete and in the format requested, including electronic format.

## **19.2 Participant Register data updates**

The beneficiaries must keep — at all times, during the action or afterwards — their information stored in the Portal Participant Register up to date, in particular, their name, address, legal representatives, legal form and organisation type.

## **19.3 Information about events and circumstances which impact the action**

The beneficiaries must immediately inform the granting authority (and the other beneficiaries) of any of the following:

- (a) **events** which are likely to affect or delay the implementation of the action or affect the EU's financial interests, in particular:
  - (i) changes in their legal, financial, technical, organisational or ownership situation (including changes linked to one of the exclusion grounds listed in the declaration of honour signed before grant signature)
  - (ii) linked action information: not applicable
- (b) **circumstances** affecting:
  - (i) the decision to award the grant or
  - (ii) compliance with requirements under the Agreement.

## **19.4 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

# **ARTICLE 20 — RECORD-KEEPING**

## **20.1 Keeping records and supporting documents**

The beneficiaries must — at least until the time-limit set out in the Data Sheet (see Point 6) — keep records and other supporting documents to prove the proper implementation of the action in line with the accepted standards in the respective field (if any).

In addition, the beneficiaries must — for the same period — keep the following to justify the amounts declared:

- (a) for actual costs: adequate records and supporting documents to prove the costs declared (such

as contracts, subcontracts, invoices and accounting records); in addition, the beneficiaries' usual accounting and internal control procedures must enable direct reconciliation between the amounts declared, the amounts recorded in their accounts and the amounts stated in the supporting documents

- (b) for flat-rate costs and contributions (if any): adequate records and supporting documents to prove the eligibility of the costs or contributions to which the flat-rate is applied
- (c) for the following simplified costs and contributions: the beneficiaries do not need to keep specific records on the actual costs incurred, but must keep:
  - (i) for unit costs and contributions (if any): adequate records and supporting documents to prove the number of units declared
  - (ii) for lump sum costs and contributions (if any): adequate records and supporting documents to prove proper implementation of the work as described in Annex 1
  - (iii) for financing not linked to costs (if any): adequate records and supporting documents to prove the achievement of the results or the fulfilment of the conditions as described in Annex 1
- (d) for unit, flat-rate and lump sum costs and contributions according to usual cost accounting practices (if any): the beneficiaries must keep any adequate records and supporting documents to prove that their cost accounting practices have been applied in a consistent manner, based on objective criteria, regardless of the source of funding, and that they comply with the eligibility conditions set out in Articles 6.1 and 6.2.

Moreover, the following is needed for specific budget categories:

- (e) for personnel costs: time worked for the beneficiary under the action must be supported by declarations signed monthly by the person and their supervisor, unless another reliable time-record system is in place; the granting authority may accept alternative evidence supporting the time worked for the action declared, if it considers that it offers an adequate level of assurance
- (f) additional record-keeping rules: not applicable

The records and supporting documents must be made available upon request (see Article 19) or in the context of checks, reviews, audits or investigations (see Article 25).

If there are on-going checks, reviews, audits, investigations, litigation or other pursuits of claims under the Agreement (including the extension of findings; see Article 25), the beneficiaries must keep these records and other supporting documentation until the end of these procedures.

The beneficiaries must keep the original documents. Digital and digitalised documents are considered originals if they are authorised by the applicable national law. The granting authority may accept non-original documents if they offer a comparable level of assurance.

## 20.2 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, costs or contributions insufficiently

substantiated will be ineligible (see Article 6) and will be rejected (see Article 27), and the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

## ARTICLE 21 — REPORTING

### 21.1 Continuous reporting

The beneficiaries must continuously report on the progress of the action (e.g. **deliverables, milestones, outputs/outcomes, critical risks, indicators**, etc; if any), in the Portal Continuous Reporting tool and in accordance with the timing and conditions it sets out (as agreed with the granting authority).

Standardised deliverables (e.g. progress reports not linked to payments, reports on cumulative expenditure, special reports, etc; if any) must be submitted using the templates published on the Portal.

### 21.2 Periodic reporting: Technical reports and financial statements

In addition, the beneficiaries must provide reports to request payments, in accordance with the schedule and modalities set out in the Data Sheet (see Point 4.2):

- for additional prefinancings (if any): an **additional prefinancing report**
- for interim payments (if any) and the final payment: a **periodic report**.

The prefinancing and periodic reports include a technical and financial part.

The technical part includes an overview of the action implementation. It must be prepared using the template available in the Portal Periodic Reporting tool.

The financial part of the additional prefinancing report includes a statement on the use of the previous prefinancing payment.

The financial part of the periodic report includes:

- the financial statements (individual and consolidated; for all beneficiaries/affiliated entities)
- the explanation on the use of resources (or detailed cost reporting table, if required)
- the certificates on the financial statements (CFS) (if required; see Article 24.2 and Data Sheet, Point 4.3).

The **financial statements** must detail the eligible costs and contributions for each budget category and, for the final payment, also the revenues for the action (see Articles 6 and 22).

All eligible costs and contributions incurred should be declared, even if they exceed the amounts indicated in the estimated budget (see Annex 2). Amounts that are not declared in the individual financial statements will not be taken into account by the granting authority.

By signing the financial statements (directly in the Portal Periodic Reporting tool), the beneficiaries confirm that:

- the information provided is complete, reliable and true
- the costs and contributions declared are eligible (see Article 6)
- the costs and contributions can be substantiated by adequate records and supporting documents (see Article 20) that will be produced upon request (see Article 19) or in the context of checks, reviews, audits and investigations (see Article 25)
- for the final periodic report: all the revenues have been declared (if required; see Article 22).

Beneficiaries will have to submit also the financial statements of their affiliated entities (if any). In case of recoveries (see Article 22), beneficiaries will be held responsible also for the financial statements of their affiliated entities.

### **21.3 Currency for financial statements and conversion into euros**

The financial statements must be drafted in euro.

Beneficiaries with general accounts established in a currency other than the euro must convert the costs recorded in their accounts into euro, at the average of the daily exchange rates published in the C series of the *Official Journal of the European Union* (ECB website), calculated over the corresponding reporting period.

If no daily euro exchange rate is published in the *Official Journal* for the currency in question, they must be converted at the average of the monthly accounting exchange rates published on the European Commission website (InforEuro), calculated over the corresponding reporting period.

Beneficiaries with general accounts in euro must convert costs incurred in another currency into euro according to their usual accounting practices.

### **21.4 Reporting language**

The reporting must be in the language of the Agreement, unless otherwise agreed with the granting authority (see Data Sheet, Point 4.2).

### **21.5 Consequences of non-compliance**

If a report submitted does not comply with this Article, the granting authority may suspend the payment deadline (see Article 29) and apply other measures described in Chapter 5.

If the coordinator breaches its reporting obligations, the granting authority may terminate the grant or the coordinator's participation (see Article 32) or apply other measures described in Chapter 5.

## **ARTICLE 22 — PAYMENTS AND RECOVERIES — CALCULATION OF AMOUNTS DUE**

### **22.1 Payments and payment arrangements**

Payments will be made in accordance with the schedule and modalities set out in the Data Sheet (see Point 4.2).

They will be made in euro to the bank account indicated by the coordinator (see Data Sheet, Point 4.2)

and must be distributed without unjustified delay (restrictions may apply to distribution of the initial prefinancing payment; see Data Sheet, Point 4.2).

Payments to this bank account will discharge the granting authority from its payment obligation.

The cost of payment transfers will be borne as follows:

- the granting authority bears the cost of transfers charged by its bank
- the beneficiary bears the cost of transfers charged by its bank
- the party causing a repetition of a transfer bears all costs of the repeated transfer.

Payments by the granting authority will be considered to have been carried out on the date when they are debited to its account.

## 22.2 Recoveries

Recoveries will be made, if — at beneficiary termination, final payment or afterwards — it turns out that the granting authority has paid too much and needs to recover the amounts undue.

Each beneficiary's financial responsibility in case of recovery is in principle limited to their own debt and undue amounts of their affiliated entities.

In case of enforced recoveries (see Article 22.4), affiliated entities will be held liable for repaying debts of their beneficiaries, if required by the granting authority (see Data Sheet, Point 4.4).

## 22.3 Amounts due

### 22.3.1 Prefinancing payments

The aim of the prefinancing is to provide the beneficiaries with a float.

It remains the property of the EU until the final payment.

For **initial prefinancings** (if any), the amount due, schedule and modalities are set out in the Data Sheet (see Point 4.2).

For **additional prefinancings** (if any), the amount due, schedule and modalities are also set out in the Data Sheet (see Point 4.2). However, if the statement on the use of the previous prefinancing payment shows that less than 70% was used, the amount set out in the Data Sheet will be reduced by the difference between the 70% threshold and the amount used.

The contribution to the Mutual Insurance Mechanism will be retained from the prefinancing payments (at the rate and in accordance with the modalities set out in the Data Sheet, see Point 4.2) and transferred to the Mechanism.

Prefinancing payments (or parts of them) may be offset (without the beneficiaries' consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

### 22.3.2 Amount due at beneficiary termination — Recovery

In case of beneficiary termination, the granting authority will determine the provisional amount due for the beneficiary concerned. Payments (if any) will be made with the next interim or final payment.

The **amount due** will be calculated in the following step:

Step 1 — Calculation of the total accepted EU contribution

#### Step 1 — Calculation of the total accepted EU contribution

The granting authority will first calculate the ‘accepted EU contribution’ for the beneficiary for all reporting periods, by calculating the ‘maximum EU contribution to costs’ (applying the funding rate to the accepted costs of the beneficiary), taking into account requests for a lower contribution to costs and CFS threshold cappings (if any; see Article 24.5) and adding the contributions (accepted unit, flat-rate or lump sum contributions and financing not linked to costs, if any).

After that, the granting authority will take into account grant reductions (if any). The resulting amount is the ‘total accepted EU contribution’ for the beneficiary.

The **balance** is then calculated by deducting the payments received (if any; see report on the distribution of payments in Article 32), from the total accepted EU contribution:

$$\begin{aligned} & \{ \text{total accepted EU contribution for the beneficiary} \\ & \text{minus} \\ & \{ \text{prefinancing and interim payments received (if any)} \} \}. \end{aligned}$$

If the balance is **positive**, the amount will be included in the next interim or final payment to the consortium.

If the balance is **negative**, it will be **recovered** in accordance with the following procedure:

The granting authority will send a **pre-information letter** to the beneficiary concerned:

- formally notifying the intention to recover, the amount due, the amount to be recovered and the reasons why and
- requesting observations within 30 days of receiving notification.

If no observations are submitted (or the granting authority decides to pursue recovery despite the observations it has received), it will confirm the amount to be recovered and ask this amount to be paid to the coordinator (**confirmation letter**).

If payment is not made to the coordinator by the date specified in the confirmation letter, the granting authority may call on the Mutual Insurance Mechanism to intervene, if continuation of the action is guaranteed and the conditions set out in the rules governing the Mechanism are met.

In this case, it will send a **beneficiary recovery letter**, together with a **debit note** with the terms and date for payment.

The debit note for the beneficiary will include the amount calculated for the affiliated entities which also had to end their participation (if any).

If payment is not made by the date specified in the debit note, the granting authority will **enforce recovery** in accordance with Article 22.4.

The amounts will later on also be taken into account for the next interim or final payment.

### 22.3.3 Interim payments

Interim payments reimburse the eligible costs and contributions claimed for the implementation of the action during the reporting periods (if any).

Interim payments (if any) will be made in accordance with the schedule and modalities set out the Data Sheet (see Point 4.2).

Payment is subject to the approval of the periodic report. Its approval does not imply recognition of compliance, authenticity, completeness or correctness of its content.

The **interim payment** will be calculated by the granting authority in the following steps:

Step 1 — Calculation of the total accepted EU contribution

Step 2 — Limit to the interim payment ceiling

#### Step 1 — Calculation of the total accepted EU contribution

The granting authority will calculate the ‘accepted EU contribution’ for the action for the reporting period, by first calculating the ‘maximum EU contribution to costs’ (applying the funding rate to the accepted costs of each beneficiary), taking into account requests for a lower contribution to costs, and CFS threshold cappings (if any; see Article 24.5) and adding the contributions (accepted unit, flat-rate or lump sum contributions and financing not linked to costs, if any).

After that, the granting authority will take into account grant reductions from beneficiary termination (if any). The resulting amount is the ‘total accepted EU contribution’.

#### Step 2 — Limit to the interim payment ceiling

The resulting amount is then capped to ensure that the total amount of prefinancing and interim payments (if any) does not exceed the interim payment ceiling set out in the Data Sheet (see Point 4.2).

Interim payments (or parts of them) may be offset (without the beneficiaries’ consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

### 22.3.4 Final payment — Final grant amount — Revenues and Profit — Recovery

The final payment (payment of the balance) reimburses the remaining part of the eligible costs and contributions claimed for the implementation of the action (if any).

The final payment will be made in accordance with the schedule and modalities set out in the Data Sheet (see Point 4.2).

Payment is subject to the approval of the final periodic report. Its approval does not imply recognition of compliance, authenticity, completeness or correctness of its content.

The **final grant amount for the action** will be calculated in the following steps:

Step 1 — Calculation of the total accepted EU contribution

Step 2 — Limit to the maximum grant amount

Step 3 — Reduction due to the no-profit rule

#### Step 1 — Calculation of the total accepted EU contribution

The granting authority will first calculate the ‘accepted EU contribution’ for the action for all reporting periods, by calculating the ‘maximum EU contribution to costs’ (applying the funding rate to the total accepted costs of each beneficiary), taking into account requests for a lower contribution to costs, CFS threshold cappings (if any; see Article 24.5) and adding the contributions (accepted unit, flat-rate or lump sum contributions and financing not linked to costs, if any).

After that, the granting authority will take into account grant reductions (if any). The resulting amount is the ‘total accepted EU contribution’.

#### Step 2 — Limit to the maximum grant amount

If the resulting amount is higher than the maximum grant amount set out in Article 5.2, it will be limited to the latter.

#### Step 3 — Reduction due to the no-profit rule

If the no-profit rule is provided for in the Data Sheet (see Point 4.2), the grant must not produce a profit (i.e. surplus of the amount obtained following Step 2 plus the action’s revenues, over the eligible costs and contributions approved by the granting authority).

‘Revenue’ is all income generated by the action, during its duration (see Article 4), for beneficiaries that are profit legal entities (— with the exception of income generated by the exploitation of results, which are not considered as revenues).

If there is a profit, it will be deducted in proportion to the final rate of reimbursement of the eligible costs approved by the granting authority (as compared to the amount calculated following Steps 1 and 2 minus the contributions).

The **balance** (final payment) is then calculated by deducting the total amount of prefinancing and interim payments already made (if any), from the final grant amount:

{final grant amount  
minus

{prefinancing and interim payments made (if any)}.

If the balance is **positive**, it will be **paid** to the coordinator.

The amount retained for the Mutual Insurance Mechanism (see above) will be released and **paid** to the coordinator (in accordance with the rules governing the Mechanism).

The final payment (or part of it) may be offset (without the beneficiaries' consent) against amounts owed by a beneficiary to the granting authority — up to the amount due to that beneficiary.

For grants where the granting authority is the European Commission or an EU executive agency, offsetting may also be done against amounts owed to other Commission services or executive agencies.

Payments will not be made if the payment deadline or payments are suspended (see Articles 29 and 30).

If — despite the release of the Mutual Insurance Mechanism contribution — the balance is **negative**, it will be **recovered** in accordance with the following procedure:

The granting authority will send a **pre-information letter** to the coordinator:

- formally notifying the intention to recover, the final grant amount, the amount to be recovered and the reasons why
- requesting a report on the distribution of payments to the beneficiaries within 30 days of receiving notification and
- requesting observations within 30 days of receiving notification.

If no observations are submitted (or the granting authority decides to pursue recovery despite the observations it has received) and the coordinator has submitted the report on the distribution of payments, it will calculate the **share of the debt per beneficiary**, by:

(a) identifying the beneficiaries for which the amount calculated as follows is negative:

$$\left\{ \left\{ \begin{array}{l} \text{total accepted EU contribution for the beneficiary} \\ \text{divided by} \\ \text{total accepted EU contribution for the action} \end{array} \right\} \times \text{final grant amount for the action} \right\},$$

minus

$$\left\{ \text{prefinancing and interim payments received by the beneficiary (if any)} \right\}$$

and

(b) dividing the debt:

$$\left\{ \text{amount calculated according to point (a) for the beneficiary concerned} \right\}$$

divided by

the sum of the amounts calculated according to point (a) for all the beneficiaries identified according to point (a)}

multiplied by

the amount to be recovered}.

and confirm the amount to be recovered from each beneficiary concerned (**confirmation letter**), together with **debit notes** with the terms and date for payment.

The debit notes for beneficiaries will include the amounts calculated for their affiliated entities (if any).

If the coordinator has not submitted the report on the distribution of payments, the granting authority will **recover** the full amount from the coordinator (**confirmation letter** and **debit note** with the terms and date for payment).

If payment is not made by the date specified in the debit note, the granting authority will **enforce recovery** in accordance with Article 22.4.

### 22.3.5 Audit implementation after final payment — Revised final grant amount — Recovery

If — after the final payment (in particular, after checks, reviews, audits or investigations; see Article 25) — the granting authority rejects costs or contributions (see Article 27) or reduces the grant (see Article 28), it will calculate the **revised final grant amount** for the beneficiary concerned.

The **beneficiary revised final grant amount** will be calculated in the following step:

Step 1 — Calculation of the revised total accepted EU contribution

#### Step 1 — Calculation of the revised total accepted EU contribution

The granting authority will first calculate the ‘revised accepted EU contribution’ for the beneficiary, by calculating the ‘revised accepted costs’ and ‘revised accepted contributions’.

After that, it will take into account grant reductions (if any). The resulting ‘revised total accepted EU contribution’ is the beneficiary revised final grant amount.

If the revised final grant amount is lower than the beneficiary’s final grant amount (i.e. its share in the final grant amount for the action), it will be **recovered** in accordance with the following procedure:

The **beneficiary final grant amount** (i.e. share in the final grant amount for the action) is calculated as follows:

{total accepted EU contribution for the beneficiary

divided by

total accepted EU contribution for the action}

multiplied by

final grant amount for the action}.

The granting authority will send a **pre-information letter** to the beneficiary concerned:

- formally notifying the intention to recover, the amount to be recovered and the reasons why and
- requesting observations within 30 days of receiving notification.

If no observations are submitted (or the granting authority decides to pursue recovery despite the observations it has received), it will confirm the amount to be recovered (**confirmation letter**), together with a **debit note** with the terms and the date for payment.

Recoveries against affiliated entities (if any) will be handled through their beneficiaries.

If payment is not made by the date specified in the debit note, the granting authority will **enforce recovery** in accordance with Article 22.4.

## 22.4 Enforced recovery

If payment is not made by the date specified in the debit note, the amount due will be recovered:

- (a) by offsetting the amount — without the coordinator or beneficiary's consent — against any amounts owed to the coordinator or beneficiary by the granting authority.

In exceptional circumstances, to safeguard the EU financial interests, the amount may be offset before the payment date specified in the debit note.

For grants where the granting authority is the European Commission or an EU executive agency, debts may also be offset against amounts owed by other Commission services or executive agencies.

- (b) financial guarantee(s): not applicable
- (c) joint and several liability of beneficiaries: not applicable
- (d) by holding affiliated entities jointly and severally liable (if any, see Data Sheet, Point 4.4)
- (e) by taking legal action (see Article 43) or, provided that the granting authority is the European Commission or an EU executive agency, by adopting an enforceable decision under Article 299 of the Treaty on the Functioning of the EU (TFEU) and Article 100(2) of EU Financial Regulation 2018/1046.

If the Mutual Insurance Mechanism was called on by the granting authority to intervene, recovery will be continued in the name of the Mutual Insurance Mechanism. If two debit notes were sent, the second one (in the name of the Mutual Insurance Mechanism) will be considered to replace the first one (in the name of the granting authority). Where the MIM intervened, offsetting, enforceable decisions or any other of the above-mentioned forms of enforced recovery may be used mutatis mutandis.

The amount to be recovered will be increased by **late-payment interest** at the rate set out in Article 22.5, from the day following the payment date in the debit note, up to and including the date the full payment is received.

Partial payments will be first credited against expenses, charges and late-payment interest and then against the principal.

Bank charges incurred in the recovery process will be borne by the beneficiary, unless Directive 2015/2366<sup>17</sup> applies.

For grants where the granting authority is an EU executive agency, enforced recovery by offsetting or enforceable decision will be done by the services of the European Commission (see also Article 43).

## 22.5 Consequences of non-compliance

**22.5.1** If the granting authority does not pay within the payment deadlines (see above), the beneficiaries are entitled to **late-payment interest** at the rate applied by the European Central Bank (ECB) for its main refinancing operations in euros ('reference rate'), plus the rate specified in the Data Sheet (Point 4.2). The reference rate is the rate in force on the first day of the month in which the payment deadline expires, as published in the C series of the *Official Journal of the European Union*.

If the late-payment interest is lower than or equal to EUR 200, it will be paid to the coordinator only on request submitted within two months of receiving the late payment.

Late-payment interest is not due if all beneficiaries are EU Member States (including regional and local government authorities or other public bodies acting on behalf of a Member State for the purpose of this Agreement).

If payments or the payment deadline are suspended (see Articles 29 and 30), payment will not be considered as late.

Late-payment interest covers the period running from the day following the due date for payment (see above), up to and including the date of payment.

Late-payment interest is not considered for the purposes of calculating the final grant amount.

**22.5.2** If the coordinator breaches any of its obligations under this Article, the grant may be reduced (see Article 28) and the grant or the coordinator may be terminated (see Article 32).

Such breaches may also lead to other measures described in Chapter 5.

## ARTICLE 23 — GUARANTEES

Not applicable

## ARTICLE 24 — CERTIFICATES

### 24.1 Operational verification report (OVR)

Not applicable

### 24.2 Certificate on the financial statements (CFS)

If required by the granting authority (see Data Sheet, Point 4.3), the beneficiaries must provide

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<sup>17</sup> Directive (EU) 2015/2366 of the European Parliament and of the Council of 25 November 2015 on payment services in the internal market, amending Directives 2002/65/EC, 2009/110/EC and 2013/36/EU and Regulation (EU) No 1093/2010, and repealing Directive 2007/64/EC (OJ L 337, 23.12.2015, p. 35).

certificates on their financial statements (CFS), in accordance with the schedule, threshold and conditions set out in the Data Sheet.

The coordinator must submit them as part of the periodic report (see Article 21).

The certificates must be drawn up using the template published on the Portal, cover the costs declared on the basis of actual costs and costs according to usual cost accounting practices (if any), and fulfil the following conditions:

- (a) be provided by a qualified approved external auditor which is independent and complies with Directive 2006/43/EC<sup>18</sup> (or for public bodies: by a competent independent public officer)
- (b) the verification must be carried out according to the highest professional standards to ensure that the financial statements comply with the provisions under the Agreement and that the costs declared are eligible.

The certificates will not affect the granting authority's right to carry out its own checks, reviews or audits, nor preclude the European Court of Auditors (ECA), the European Public Prosecutor's Office (EPPO) or the European Anti-Fraud Office (OLAF) from using their prerogatives for audits and investigations under the Agreement (see Article 25).

If the costs (or a part of them) were already audited by the granting authority, these costs do not need to be covered by the certificate and will not be counted for calculating the threshold (if any).

### **24.3 Certificate on the compliance of usual cost accounting practices (CoMUC)**

Not applicable

### **24.4 Systems and process audit (SPA)**

Beneficiaries which:

- use unit, flat rate or lump sum costs or contributions according to documented (i.e. formally approved and in writing) usual costs accounting practices (if any) or
- have formalised documentation on the systems and processes for calculating their costs and contributions (i.e. formally approved and in writing), have participated in at least 150 actions under Horizon 2020 or the Euratom Research and Training Programme (2014-2018 or 2019-2020) and participate in at least 3 ongoing actions under Horizon Europe or the Euratom Research and Training Programme (2021-2025 or 2026-2027)

may apply to the granting authority for a systems and process audit (SPA).

This audit will be carried out as follows:

Step 1 – Application by the beneficiary.

Step 2 – If the application is accepted, the granting authority will carry out the systems and process

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<sup>18</sup> Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts or similar national regulations (OJ L 157, 9.6.2006, p. 87).

audit, complemented by an audit of transactions (on a sample of the beneficiary's Horizon Europe or the Euratom Research and Training Programme financial statements).

Step 3 – The audit result will take the form of a risk assessment classification for the beneficiary: low, medium or high.

Low-risk beneficiaries will benefit from less (or less in-depth) ex-post audits (see Article 25) and a higher threshold for submitting certificates on the financial statements (CFS; see Articles 21 and 24.2 and Data Sheet, Point 4.3).

## **24.5 Consequences of non-compliance**

If a beneficiary does not submit a certificate on the financial statements (CFS) or the certificate is rejected, the accepted EU contribution to costs will be capped to reflect the CFS threshold.

If a beneficiary breaches any of its other obligations under this Article, the granting authority may apply the measures described in Chapter 5.

## **ARTICLE 25 — CHECKS, REVIEWS, AUDITS AND INVESTIGATIONS — EXTENSION OF FINDINGS**

### **25.1 Granting authority checks, reviews and audits**

#### **25.1.1 Internal checks**

The granting authority may — during the action or afterwards — check the proper implementation of the action and compliance with the obligations under the Agreement, including assessing costs and contributions, deliverables and reports.

#### **25.1.2 Project reviews**

The granting authority may carry out reviews on the proper implementation of the action and compliance with the obligations under the Agreement (general project reviews or specific issues reviews).

Such project reviews may be started during the implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the coordinator or beneficiary concerned and will be considered to start on the date of the notification.

If needed, the granting authority may be assisted by independent, outside experts. If it uses outside experts, the coordinator or beneficiary concerned will be informed and have the right to object on grounds of commercial confidentiality or conflict of interest.

The coordinator or beneficiary concerned must cooperate diligently and provide — within the deadline requested — any information and data in addition to deliverables and reports already submitted (including information on the use of resources). The granting authority may request beneficiaries to provide such information to it directly. Sensitive information and documents will be treated in accordance with Article 13.

The coordinator or beneficiary concerned may be requested to participate in meetings, including with the outside experts.

For **on-the-spot visits**, the beneficiary concerned must allow access to sites and premises (including to the outside experts) and must ensure that information requested is readily available.

Information provided must be accurate, precise and complete and in the format requested, including electronic format.

On the basis of the review findings, a **project review report** will be drawn up.

The granting authority will formally notify the project review report to the coordinator or beneficiary concerned, which has 30 days from receiving notification to make observations.

Project reviews (including project review reports) will be in the language of the Agreement, unless otherwise agreed with the granting authority (see Data Sheet, Point 4.2).

### 25.1.3 Audits

The granting authority may carry out audits on the proper implementation of the action and compliance with the obligations under the Agreement.

Such audits may be started during the implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the beneficiary concerned and will be considered to start on the date of the notification.

The granting authority may use its own audit service, delegate audits to a centralised service or use external audit firms. If it uses an external firm, the beneficiary concerned will be informed and have the right to object on grounds of commercial confidentiality or conflict of interest.

The beneficiary concerned must cooperate diligently and provide — within the deadline requested — any information (including complete accounts, individual salary statements or other personal data) to verify compliance with the Agreement. Sensitive information and documents will be treated in accordance with Article 13.

For **on-the-spot** visits, the beneficiary concerned must allow access to sites and premises (including for the external audit firm) and must ensure that information requested is readily available.

Information provided must be accurate, precise and complete and in the format requested, including electronic format.

On the basis of the audit findings, a **draft audit report** will be drawn up.

The auditors will formally notify the draft audit report to the beneficiary concerned, which has 30 days from receiving notification to make observations (contradictory audit procedure).

The **final audit report** will take into account observations by the beneficiary concerned and will be formally notified to them.

Audits (including audit reports) will be in the language of the Agreement, unless otherwise agreed with the granting authority (see Data Sheet, Point 4.2).

## 25.2 European Commission checks, reviews and audits in grants of other granting authorities

Where the granting authority is not the European Commission, the latter has the same rights of checks, reviews and audits as the granting authority.

### **25.3 Access to records for assessing simplified forms of funding**

The beneficiaries must give the European Commission access to their statutory records for the periodic assessment of simplified forms of funding which are used in EU programmes.

### **25.4 OLAF, EPPO and ECA audits and investigations**

The following bodies may also carry out checks, reviews, audits and investigations — during the action or afterwards:

- the European Anti-Fraud Office (OLAF) under Regulations No 883/2013<sup>19</sup> and No 2185/96<sup>20</sup>
- the European Public Prosecutor's Office (EPPO) under Regulation 2017/1939
- the European Court of Auditors (ECA) under Article 287 of the Treaty on the Functioning of the EU (TFEU) and Article 257 of EU Financial Regulation 2018/1046.

If requested by these bodies, the beneficiary concerned must provide full, accurate and complete information in the format requested (including complete accounts, individual salary statements or other personal data, including in electronic format) and allow access to sites and premises for on-the-spot visits or inspections — as provided for under these Regulations.

To this end, the beneficiary concerned must keep all relevant information relating to the action, at least until the time-limit set out in the Data Sheet (Point 6) and, in any case, until any ongoing checks, reviews, audits, investigations, litigation or other pursuits of claims have been concluded.

### **25.5 Consequences of checks, reviews, audits and investigations — Extension of results of reviews, audits or investigations**

#### **25.5.1 Consequences of checks, reviews, audits and investigations in this grant**

Findings in checks, reviews, audits or investigations carried out in the context of this grant may lead to rejections (see Article 27), grant reduction (see Article 28) or other measures described in Chapter 5.

Rejections or grant reductions after the final payment will lead to a revised final grant amount (see Article 22).

Findings in checks, reviews, audits or investigations during the action implementation may lead to a request for amendment (see Article 39), to change the description of the action set out in Annex 1.

Checks, reviews, audits or investigations that find systemic or recurrent errors, irregularities, fraud

<sup>19</sup> Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council of 11 September 2013 concerning investigations conducted by the European Anti-Fraud Office (OLAF) and repealing Regulation (EC) No 1073/1999 of the European Parliament and of the Council and Council Regulation (Euratom) No 1074/1999 (OJ L 248, 18/09/2013, p. 1).

<sup>20</sup> Council Regulation (Euratom, EC) No 2185/96 of 11 November 1996 concerning on-the-spot checks and inspections carried out by the Commission in order to protect the European Communities' financial interests against fraud and other irregularities (OJ L 292, 15/11/1996, p. 2).

or breach of obligations in any EU grant may also lead to consequences in other EU grants awarded under similar conditions ('extension to other grants').

Moreover, findings arising from an OLAF or EPPO investigation may lead to criminal prosecution under national law.

### 25.5.2 Extension from other grants

Results of checks, reviews, audits or investigations in other grants may be extended to this grant, if:

- (a) the beneficiary concerned is found, in other EU grants awarded under similar conditions, to have committed systemic or recurrent errors, irregularities, fraud or breach of obligations that have a material impact on this grant and
- (b) those findings are formally notified to the beneficiary concerned — together with the list of grants affected by the findings — within the time-limit for audits set out in the Data Sheet (see Point 6).

The granting authority will formally notify the beneficiary concerned of the intention to extend the findings and the list of grants affected.

If the extension concerns **rejections of costs or contributions**: the notification will include:

- (a) an invitation to submit observations on the list of grants affected by the findings
- (b) the request to submit revised financial statements for all grants affected
- (c) the correction rate for extrapolation, established on the basis of the systemic or recurrent errors, to calculate the amounts to be rejected, if the beneficiary concerned:
  - (i) considers that the submission of revised financial statements is not possible or practicable or
  - (ii) does not submit revised financial statements.

If the extension concerns **grant reductions**: the notification will include:

- (a) an invitation to submit observations on the list of grants affected by the findings and
- (b) the **correction rate for extrapolation**, established on the basis of the systemic or recurrent errors and the principle of proportionality.

The beneficiary concerned has **60 days** from receiving notification to submit observations, revised financial statements or to propose a duly substantiated **alternative correction method/rate**.

On the basis of this, the granting authority will analyse the impact and decide on the implementation (i.e. start rejection or grant reduction procedures, either on the basis of the revised financial statements or the announced/alternative method/rate or a mix of those; see Articles 27 and 28).

### 25.6 Consequences of non-compliance

If a beneficiary breaches any of its obligations under this Article, costs or contributions insufficiently

substantiated will be ineligible (see Article 6) and will be rejected (see Article 27), and the grant may be reduced (see Article 28).

Such breaches may also lead to other measures described in Chapter 5.

## **ARTICLE 26 — IMPACT EVALUATIONS**

### **26.1 Impact evaluation**

The granting authority may carry out impact evaluations of the action, measured against the objectives and indicators of the EU programme funding the grant.

Such evaluations may be started during implementation of the action and until the time-limit set out in the Data Sheet (see Point 6). They will be formally notified to the coordinator or beneficiaries and will be considered to start on the date of the notification.

If needed, the granting authority may be assisted by independent outside experts.

The coordinator or beneficiaries must provide any information relevant to evaluate the impact of the action, including information in electronic format.

### **26.2 Consequences of non-compliance**

If a beneficiary breaches any of its obligations under this Article, the granting authority may apply the measures described in Chapter 5.

## **CHAPTER 5 CONSEQUENCES OF NON-COMPLIANCE**

### **SECTION 1 REJECTIONS AND GRANT REDUCTION**

## **ARTICLE 27 — REJECTION OF COSTS AND CONTRIBUTIONS**

### **27.1 Conditions**

The granting authority will — at beneficiary termination, interim payment, final payment or afterwards — reject any costs or contributions which are ineligible (see Article 6), in particular following checks, reviews, audits or investigations (see Article 25).

The rejection may also be based on the extension of findings from other grants to this grant (see Article 25).

Ineligible costs or contributions will be rejected.

### **27.2 Procedure**

If the rejection does not lead to a recovery, the granting authority will formally notify the coordinator or beneficiary concerned of the rejection, the amounts and the reasons why. The coordinator or beneficiary concerned may — within 30 days of receiving notification — submit observations if it disagrees with the rejection (payment review procedure).

If the rejection leads to a recovery, the granting authority will follow the contradictory procedure with pre-information letter set out in Article 22.

### **27.3 Effects**

If the granting authority rejects costs or contributions, it will deduct them from the costs or contributions declared and then calculate the amount due (and, if needed, make a recovery; see Article 22).

## **ARTICLE 28 — GRANT REDUCTION**

### **28.1 Conditions**

The granting authority may — at beneficiary termination, final payment or afterwards — reduce the grant for a beneficiary, if:

- (a) the beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed:
  - (i) substantial errors, irregularities or fraud or
  - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.), or
- (b) the beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant (see Article 25).

The amount of the reduction will be calculated for each beneficiary concerned and proportionate to the seriousness and the duration of the errors, irregularities or fraud or breach of obligations, by applying an individual reduction rate to their accepted EU contribution.

### **28.2 Procedure**

If the grant reduction does not lead to a recovery, the granting authority will formally notify the coordinator or beneficiary concerned of the reduction, the amount to be reduced and the reasons why. The coordinator or beneficiary concerned may — within 30 days of receiving notification — submit observations if it disagrees with the reduction (payment review procedure).

If the grant reduction leads to a recovery, the granting authority will follow the contradictory procedure with pre-information letter set out in Article 22.

### **28.3 Effects**

If the granting authority reduces the grant, it will deduct the reduction and then calculate the amount due (and, if needed, make a recovery; see Article 22).

## **SECTION 2 SUSPENSION AND TERMINATION**

## ARTICLE 29 — PAYMENT DEADLINE SUSPENSION

### 29.1 Conditions

The granting authority may — at any moment — suspend the payment deadline if a payment cannot be processed because:

- (a) the required report (see Article 21) has not been submitted or is not complete or additional information is needed
- (b) there are doubts about the amount to be paid (e.g. ongoing audit extension procedure, queries about eligibility, need for a grant reduction, etc.) and additional checks, reviews, audits or investigations are necessary, or
- (c) there are other issues affecting the EU financial interests.

### 29.2 Procedure

The granting authority will formally notify the coordinator of the suspension and the reasons why.

The suspension will **take effect** the day the notification is sent.

If the conditions for suspending the payment deadline are no longer met, the suspension will be **lifted** — and the remaining time to pay (see Data Sheet, Point 4.2) will resume.

If the suspension exceeds two months, the coordinator may request the granting authority to confirm if the suspension will continue.

If the payment deadline has been suspended due to the non-compliance of the report and the revised report is not submitted (or was submitted but is also rejected), the granting authority may also terminate the grant or the participation of the coordinator (see Article 32).

## ARTICLE 30 — PAYMENT SUSPENSION

### 30.1 Conditions

The granting authority may — at any moment — suspend payments, in whole or in part for one or more beneficiaries, if:

- (a) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed or is suspected of having committed:
  - (i) substantial errors, irregularities or fraud or
  - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.), or
- (b) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants

awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant.

If payments are suspended for one or more beneficiaries, the granting authority will make partial payment(s) for the part(s) not suspended. If suspension concerns the final payment, the payment (or recovery) of the remaining amount after suspension is lifted will be considered to be the payment that closes the action.

## 30.2 Procedure

Before suspending payments, the granting authority will send a **pre-information letter** to the beneficiary concerned:

- formally notifying the intention to suspend payments and the reasons why and
- requesting observations within 30 days of receiving notification.

If the granting authority does not receive observations or decides to pursue the procedure despite the observations it has received, it will confirm the suspension (**confirmation letter**). Otherwise, it will formally notify that the procedure is discontinued.

At the end of the suspension procedure, the granting authority will also inform the coordinator.

The suspension will **take effect** the day after the confirmation notification is sent.

If the conditions for resuming payments are met, the suspension will be **lifted**. The granting authority will formally notify the beneficiary concerned (and the coordinator) and set the suspension end date.

During the suspension, no prefinancing will be paid to the beneficiaries concerned. For interim payments, the periodic reports for all reporting periods except the last one (see Article 21) must not contain any financial statements from the beneficiary concerned (or its affiliated entities). The coordinator must include them in the next periodic report after the suspension is lifted or — if suspension is not lifted before the end of the action — in the last periodic report.

## ARTICLE 31 — GRANT AGREEMENT SUSPENSION

### 31.1 Consortium-requested GA suspension

#### 31.1.1 Conditions and procedure

The beneficiaries may request the suspension of the grant or any part of it, if exceptional circumstances — in particular *force majeure* (see Article 35) — make implementation impossible or excessively difficult.

The coordinator must submit a request for **amendment** (see Article 39), with:

- the reasons why
- the date the suspension takes effect; this date may be before the date of the submission of the amendment request and
- the expected date of resumption.

The suspension will **take effect** on the day specified in the amendment.

Once circumstances allow for implementation to resume, the coordinator must immediately request another **amendment** of the Agreement to set the suspension end date, the resumption date (one day after suspension end date), extend the duration and make other changes necessary to adapt the action to the new situation (see Article 39) — unless the grant has been terminated (see Article 32). The suspension will be **lifted** with effect from the suspension end date set out in the amendment. This date may be before the date of the submission of the amendment request.

During the suspension, no prefinancing will be paid. Costs incurred or contributions for activities implemented during grant suspension are not eligible (see Article 6.3).

## 31.2 EU-initiated GA suspension

### 31.2.1 Conditions

The granting authority may suspend the grant or any part of it, if:

- (a) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed or is suspected of having committed:
  - (i) substantial errors, irregularities or fraud or
  - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.), or
- (b) a beneficiary (or a person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant
- (c) other:
  - (i) linked action issues: not applicable
  - (ii) the action has lost its scientific or technological relevance, for EIC Accelerator actions: the action has lost its economic relevance, for challenge-based EIC Pathfinder actions and Horizon Europe Missions: the action has lost its relevance as part of the Portfolio for which it has been initially selected

### 31.2.2 Procedure

Before suspending the grant, the granting authority will send a **pre-information letter** to the coordinator:

- formally notifying the intention to suspend the grant and the reasons why and
- requesting observations within 30 days of receiving notification.

If the granting authority does not receive observations or decides to pursue the procedure despite the

observations it has received, it will confirm the suspension (**confirmation letter**). Otherwise, it will formally notify that the procedure is discontinued.

The suspension will **take effect** the day after the confirmation notification is sent (or on a later date specified in the notification).

Once the conditions for resuming implementation of the action are met, the granting authority will formally notify the coordinator a **lifting of suspension letter**, in which it will set the suspension end date and invite the coordinator to request an amendment of the Agreement to set the resumption date (one day after suspension end date), extend the duration and make other changes necessary to adapt the action to the new situation (see Article 39) — unless the grant has been terminated (see Article 32). The suspension will be **lifted** with effect from the suspension end date set out in the lifting of suspension letter. This date may be before the date on which the letter is sent.

During the suspension, no prefinancing will be paid. Costs incurred or contributions for activities implemented during suspension are not eligible (see Article 6.3).

The beneficiaries may not claim damages due to suspension by the granting authority (see Article 33).

Grant suspension does not affect the granting authority's right to terminate the grant or a beneficiary (see Article 32) or reduce the grant (see Article 28).

## ARTICLE 32 — GRANT AGREEMENT OR BENEFICIARY TERMINATION

### 32.1 Consortium-requested GA termination

#### 32.1.1 Conditions and procedure

The beneficiaries may request the termination of the grant.

The coordinator must submit a request for **amendment** (see Article 39), with:

- the reasons why
- the date the consortium ends work on the action ('end of work date') and
- the date the termination takes effect ('termination date'); this date must be after the date of the submission of the amendment request.

The termination will **take effect** on the termination date specified in the amendment.

If no reasons are given or if the granting authority considers the reasons do not justify termination, it may consider the grant terminated improperly.

#### 32.1.2 Effects

The coordinator must — within 60 days from when termination takes effect — submit a **periodic report** (for the open reporting period until termination).

The granting authority will calculate the final grant amount and final payment on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented

before the end of work date (see Article 22). Costs relating to contracts due for execution only after the end of work are not eligible.

If the granting authority does not receive the report within the deadline, only costs and contributions which are included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

Improper termination may lead to a grant reduction (see Article 28).

After termination, the beneficiaries' obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

## 32.2 Consortium-requested beneficiary termination

### 32.2.1 Conditions and procedure

The coordinator may request the termination of the participation of one or more beneficiaries, on request of the beneficiary concerned or on behalf of the other beneficiaries.

The coordinator must submit a request for **amendment** (see Article 39), with:

- the reasons why
- the opinion of the beneficiary concerned (or proof that this opinion has been requested in writing)
- the date the beneficiary ends work on the action ('end of work date')
- the date the termination takes effect ('termination date'); this date must be after the date of the submission of the amendment request.

If the termination concerns the coordinator and is done without its agreement, the amendment request must be submitted by another beneficiary (acting on behalf of the consortium).

The termination will **take effect** on the termination date specified in the amendment.

If no information is given or if the granting authority considers that the reasons do not justify termination, it may consider the beneficiary to have been terminated improperly.

### 32.2.2 Effects

The coordinator must — within 60 days from when termination takes effect — submit:

- (i) a **report on the distribution of payments** to the beneficiary concerned
- (ii) a **termination report** from the beneficiary concerned, for the open reporting period until termination, containing an overview of the progress of the work, the financial statement, the explanation on the use of resources, and, if applicable, the certificate on the financial statement (CFS; see Articles 21 and 24.2 and Data Sheet, Point 4.3)
- (iii) a second **request for amendment** (see Article 39) with other amendments needed (e.g.

reallocation of the tasks and the estimated budget of the terminated beneficiary; addition of a new beneficiary to replace the terminated beneficiary; change of coordinator, etc.).

The granting authority will calculate the amount due to the beneficiary on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented before the end of work date (see Article 22). Costs relating to contracts due for execution only after the end of work are not eligible.

The information in the termination report must also be included in the periodic report for the next reporting period (see Article 21).

If the granting authority does not receive the termination report within the deadline, only costs and contributions which are included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

If the granting authority does not receive the report on the distribution of payments within the deadline, it will consider that:

- the coordinator did not distribute any payment to the beneficiary concerned and that
- the beneficiary concerned must not repay any amount to the coordinator.

If the second request for amendment is accepted by the granting authority, the Agreement is **amended** to introduce the necessary changes (see Article 39).

If the second request for amendment is rejected by the granting authority (because it calls into question the decision awarding the grant or breaches the principle of equal treatment of applicants), the grant may be terminated (see Article 32).

Improper termination may lead to a reduction of the grant (see Article 31) or grant termination (see Article 32).

After termination, the concerned beneficiary's obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

### **32.3 EU-initiated GA or beneficiary termination**

#### **32.3.1 Conditions**

The granting authority may terminate the grant or the participation of one or more beneficiaries, if:

- (a) one or more beneficiaries do not accede to the Agreement (see Article 40)
- (b) a change to the action or the legal, financial, technical, organisational or ownership situation of a beneficiary is likely to substantially affect the implementation of the action or calls into question the decision to award the grant (including changes linked to one of the exclusion grounds listed in the declaration of honour)
- (c) following termination of one or more beneficiaries, the necessary changes to the Agreement



(and their impact on the action) would call into question the decision awarding the grant or breach the principle of equal treatment of applicants

- (d) implementation of the action has become impossible or the changes necessary for its continuation would call into question the decision awarding the grant or breach the principle of equal treatment of applicants
- (e) a beneficiary (or person with unlimited liability for its debts) is subject to bankruptcy proceedings or similar (including insolvency, winding-up, administration by a liquidator or court, arrangement with creditors, suspension of business activities, etc.)
- (f) a beneficiary (or person with unlimited liability for its debts) is in breach of social security or tax obligations
- (g) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has been found guilty of grave professional misconduct
- (h) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed fraud, corruption, or is involved in a criminal organisation, money laundering, terrorism-related crimes (including terrorism financing), child labour or human trafficking
- (i) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) was created under a different jurisdiction with the intent to circumvent fiscal, social or other legal obligations in the country of origin (or created another entity with this purpose)
- (j) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed:
  - (i) substantial errors, irregularities or fraud or
  - (ii) serious breach of obligations under this Agreement or during its award (including improper implementation of the action, non-compliance with the call conditions, submission of false information, failure to provide required information, breach of ethics or security rules (if applicable), etc.)
- (k) a beneficiary (or person having powers of representation, decision-making or control, or person essential for the award/implementation of the grant) has committed — in other EU grants awarded to it under similar conditions — systemic or recurrent errors, irregularities, fraud or serious breach of obligations that have a material impact on this grant (extension of findings from other grants to this grant; see Article 25)
- (l) despite a specific request by the granting authority, a beneficiary does not request — through the coordinator — an amendment to the Agreement to end the participation of one of its affiliated entities or associated partners that is in one of the situations under points (d), (f), (e), (g), (h), (i) or (j) and to reallocate its tasks, or
- (m) other:
  - (i) linked action issues: not applicable

- (ii) the action has lost its scientific or technological relevance, for EIC Accelerator actions: the action has lost its economic relevance, for challenge-based EIC Pathfinder actions and Horizon Europe Missions: the action has lost its relevance as part of the Portfolio for which it has been initially selected

### 32.3.2 Procedure

Before terminating the grant or participation of one or more beneficiaries, the granting authority will send a **pre-information letter** to the coordinator or beneficiary concerned:

- formally notifying the intention to terminate and the reasons why and
- requesting observations within 30 days of receiving notification.

If the granting authority does not receive observations or decides to pursue the procedure despite the observations it has received, it will confirm the termination and the date it will take effect (**confirmation letter**). Otherwise, it will formally notify that the procedure is discontinued.

For beneficiary terminations, the granting authority will — at the end of the procedure — also inform the coordinator.

The termination will **take effect** the day after the confirmation notification is sent (or on a later date specified in the notification; ‘termination date’).

### 32.3.3 Effects

#### (a) for GA termination:

The coordinator must — within 60 days from when termination takes effect — submit a **periodic report** (for the last open reporting period until termination).

The granting authority will calculate the final grant amount and final payment on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented before termination takes effect (see Article 22). Costs relating to contracts due for execution only after termination are not eligible.

If the grant is terminated for breach of the obligation to submit reports, the coordinator may not submit any report after termination.

If the granting authority does not receive the report within the deadline, only costs and contributions which are included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

Termination does not affect the granting authority’s right to reduce the grant (see Article 28) or to impose administrative sanctions (see Article 34).

The beneficiaries may not claim damages due to termination by the granting authority (see Article 33).

After termination, the beneficiaries’ obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25

(checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

(b) for **beneficiary termination**:

The coordinator must — within 60 days from when termination takes effect — submit:

- (i) a **report on the distribution of payments** to the beneficiary concerned
- (ii) a **termination report** from the beneficiary concerned, for the open reporting period until termination, containing an overview of the progress of the work, the financial statement, the explanation on the use of resources, and, if applicable, the certificate on the financial statement (CFS; see Articles 21 and 24.2 and Data Sheet, Point 4.3)
- (iii) a **request for amendment** (see Article 39) with any amendments needed (e.g. reallocation of the tasks and the estimated budget of the terminated beneficiary; addition of a new beneficiary to replace the terminated beneficiary; change of coordinator, etc.).

The granting authority will calculate the amount due to the beneficiary on the basis of the report submitted and taking into account the costs incurred and contributions for activities implemented before termination takes effect (see Article 22). Costs relating to contracts due for execution only after termination are not eligible.

The information in the termination report must also be included in the periodic report for the next reporting period (see Article 21).

If the granting authority does not receive the termination report within the deadline, only costs and contributions included in an approved periodic report will be taken into account (no costs/contributions if no periodic report was ever approved).

If the granting authority does not receive the report on the distribution of payments within the deadline, it will consider that:

- the coordinator did not distribute any payment to the beneficiary concerned and that
- the beneficiary concerned must not repay any amount to the coordinator.

If the request for amendment is accepted by the granting authority, the Agreement is **amended** to introduce the necessary changes (see Article 39).

If the request for amendment is rejected by the granting authority (because it calls into question the decision awarding the grant or breaches the principle of equal treatment of applicants), the grant may be terminated (see Article 32).

After termination, the concerned beneficiary's obligations (in particular Articles 13 (confidentiality and security), 16 (IPR), 17 (communication, dissemination and visibility), 21 (reporting), 25 (checks, reviews, audits and investigations), 26 (impact evaluation), 27 (rejections), 28 (grant reduction) and 42 (assignment of claims)) continue to apply.

### **SECTION 3 OTHER CONSEQUENCES: DAMAGES AND ADMINISTRATIVE SANCTIONS**

## **ARTICLE 33 — DAMAGES**

### **33.1 Liability of the granting authority**

The granting authority cannot be held liable for any damage caused to the beneficiaries or to third parties as a consequence of the implementation of the Agreement, including for gross negligence.

The granting authority cannot be held liable for any damage caused by any of the beneficiaries or other participants involved in the action, as a consequence of the implementation of the Agreement.

### **33.2 Liability of the beneficiaries**

The beneficiaries must compensate the granting authority for any damage it sustains as a result of the implementation of the action or because the action was not implemented in full compliance with the Agreement, provided that it was caused by gross negligence or wilful act.

The liability does not extend to indirect or consequential losses or similar damage (such as loss of profit, loss of revenue or loss of contracts), provided such damage was not caused by wilful act or by a breach of confidentiality.

## **ARTICLE 34 — ADMINISTRATIVE SANCTIONS AND OTHER MEASURES**

Nothing in this Agreement may be construed as preventing the adoption of administrative sanctions (i.e. exclusion from EU award procedures and/or financial penalties) or other public law measures, in addition or as an alternative to the contractual measures provided under this Agreement (see, for instance, Articles 135 to 145 EU Financial Regulation 2018/1046 and Articles 4 and 7 of Regulation 2988/95<sup>21</sup>).

## **SECTION 4 FORCE MAJEURE**

### **ARTICLE 35 — FORCE MAJEURE**

A party prevented by force majeure from fulfilling its obligations under the Agreement cannot be considered in breach of them.

‘Force majeure’ means any situation or event that:

- prevents either party from fulfilling their obligations under the Agreement,
- was unforeseeable, exceptional situation and beyond the parties’ control,
- was not due to error or negligence on their part (or on the part of other participants involved in the action), and
- proves to be inevitable in spite of exercising all due diligence.

Any situation constituting force majeure must be formally notified to the other party without delay, stating the nature, likely duration and foreseeable effects.

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<sup>21</sup> Council Regulation (EC, Euratom) No 2988/95 of 18 December 1995 on the protection of the European Communities financial interests (OJ L 312, 23.12.1995, p. 1).

The parties must immediately take all the necessary steps to limit any damage due to force majeure and do their best to resume implementation of the action as soon as possible.

## **CHAPTER 6 FINAL PROVISIONS**

### **ARTICLE 36 — COMMUNICATION BETWEEN THE PARTIES**

#### **36.1 Forms and means of communication — Electronic management**

EU grants are managed fully electronically through the EU Funding & Tenders Portal ('Portal').

All communications must be made electronically through the Portal, in accordance with the Portal Terms and Conditions and using the forms and templates provided there (except if explicitly instructed otherwise by the granting authority).

Communications must be made in writing and clearly identify the grant agreement (project number and acronym).

Communications must be made by persons authorised according to the Portal Terms and Conditions. For naming the authorised persons, each beneficiary must have designated — before the signature of this Agreement — a 'legal entity appointed representative (LEAR)'. The role and tasks of the LEAR are stipulated in their appointment letter (see Portal Terms and Conditions).

If the electronic exchange system is temporarily unavailable, instructions will be given on the Portal.

#### **36.2 Date of communication**

The sending date for communications made through the Portal will be the date and time of sending, as indicated by the time logs.

The receiving date for communications made through the Portal will be the date and time the communication is accessed, as indicated by the time logs. Formal notifications that have not been accessed within 10 days after sending, will be considered to have been accessed (see Portal Terms and Conditions).

If a communication is exceptionally made on paper (by e-mail or postal service), general principles apply (i.e. date of sending/receipt). Formal notifications by registered post with proof of delivery will be considered to have been received either on the delivery date registered by the postal service or the deadline for collection at the post office.

If the electronic exchange system is temporarily unavailable, the sending party cannot be considered in breach of its obligation to send a communication within a specified deadline.

#### **36.3 Addresses for communication**

The Portal can be accessed via the Europa website.

The address for paper communications to the granting authority (if exceptionally allowed) is the official mailing address indicated on its website.

For beneficiaries, it is the legal address specified in the Portal Participant Register.



## ARTICLE 37 — INTERPRETATION OF THE AGREEMENT

The provisions in the Data Sheet take precedence over the rest of the Terms and Conditions of the Agreement.

Annex 5 takes precedence over the Terms and Conditions; the Terms and Conditions take precedence over the Annexes other than Annex 5.

Annex 2 takes precedence over Annex 1.

## ARTICLE 38 — CALCULATION OF PERIODS AND DEADLINES

In accordance with Regulation No 1182/71<sup>22</sup>, periods expressed in days, months or years are calculated from the moment the triggering event occurs.

The day during which that event occurs is not considered as falling within the period.

‘Days’ means calendar days, not working days.

## ARTICLE 39 — AMENDMENTS

### 39.1 Conditions

The Agreement may be amended, unless the amendment entails changes to the Agreement which would call into question the decision awarding the grant or breach the principle of equal treatment of applicants.

Amendments may be requested by any of the parties.

### 39.2 Procedure

The party requesting an amendment must submit a request for amendment signed directly in the Portal Amendment tool.

The coordinator submits and receives requests for amendment on behalf of the beneficiaries (see Annex 3). If a change of coordinator is requested without its agreement, the submission must be done by another beneficiary (acting on behalf of the other beneficiaries).

The request for amendment must include:

- the reasons why
- the appropriate supporting documents and
- for a change of coordinator without its agreement: the opinion of the coordinator (or proof that this opinion has been requested in writing).

The granting authority may request additional information.

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<sup>22</sup> Regulation (EEC, Euratom) No 1182/71 of the Council of 3 June 1971 determining the rules applicable to periods, dates and time-limits (OJ L 124, 8/6/1971, p. 1).

If the party receiving the request agrees, it must sign the amendment in the tool within 45 days of receiving notification (or any additional information the granting authority has requested). If it does not agree, it must formally notify its disagreement within the same deadline. The deadline may be extended, if necessary for the assessment of the request. If no notification is received within the deadline, the request is considered to have been rejected.

An amendment **enters into force** on the day of the signature of the receiving party.

An amendment **takes effect** on the date of entry into force or other date specified in the amendment.

## ARTICLE 40 — ACCESSION AND ADDITION OF NEW BENEFICIARIES

### 40.1 Accession of the beneficiaries mentioned in the Preamble

The beneficiaries which are not coordinator must accede to the grant by signing the accession form (see Annex 3) directly in the Portal Grant Preparation tool, within 30 days after the entry into force of the Agreement (see Article 44).

They will assume the rights and obligations under the Agreement with effect from the date of its entry into force (see Article 44).

If a beneficiary does not accede to the grant within the above deadline, the coordinator must — within 30 days — request an amendment (see Article 39) to terminate the beneficiary and make any changes necessary to ensure proper implementation of the action. This does not affect the granting authority's right to terminate the grant (see Article 32).

### 40.2 Addition of new beneficiaries

In justified cases, the beneficiaries may request the addition of a new beneficiary.

For this purpose, the coordinator must submit a request for amendment in accordance with Article 39. It must include an accession form (see Annex 3) signed by the new beneficiary directly in the Portal Amendment tool.

New beneficiaries will assume the rights and obligations under the Agreement with effect from the date of their accession specified in the accession form (see Annex 3).

Additions are also possible in mono-beneficiary grants.

## ARTICLE 41 — TRANSFER OF THE AGREEMENT

In justified cases, the beneficiary of a mono-beneficiary grant may request the transfer of the grant to a new beneficiary, provided that this would not call into question the decision awarding the grant or breach the principle of equal treatment of applicants.

The beneficiary must submit a request for **amendment** (see Article 39), with

- the reasons why
- the accession form (see Annex 3) signed by the new beneficiary directly in the Portal Amendment tool and

- additional supporting documents (if required by the granting authority).

The new beneficiary will assume the rights and obligations under the Agreement with effect from the date of accession specified in the accession form (see Annex 3).

## **ARTICLE 42 — ASSIGNMENTS OF CLAIMS FOR PAYMENT AGAINST THE GRANTING AUTHORITY**

The beneficiaries may not assign any of their claims for payment against the granting authority to any third party, except if expressly approved in writing by the granting authority on the basis of a reasoned, written request by the coordinator (on behalf of the beneficiary concerned).

If the granting authority has not accepted the assignment or if the terms of it are not observed, the assignment will have no effect on it.

In no circumstances will an assignment release the beneficiaries from their obligations towards the granting authority.

## **ARTICLE 43 — APPLICABLE LAW AND SETTLEMENT OF DISPUTES**

### **43.1 Applicable law**

The Agreement is governed by the applicable EU law, supplemented if necessary by the law of Belgium.

Special rules may apply for beneficiaries which are international organisations (if any; see Data Sheet, Point 5).

### **43.2 Dispute settlement**

If a dispute concerns the interpretation, application or validity of the Agreement, the parties must bring action before the EU General Court — or, on appeal, the EU Court of Justice — under Article 272 of the Treaty on the Functioning of the EU (TFEU).

For non-EU beneficiaries (if any), such disputes must be brought before the courts of Brussels, Belgium — unless an international agreement provides for the enforceability of EU court judgements.

For beneficiaries with arbitration as special dispute settlement forum (if any; see Data Sheet, Point 5), the dispute will — in the absence of an amicable settlement — be settled in accordance with the Rules for Arbitration published on the Portal.

If a dispute concerns administrative sanctions, offsetting or an enforceable decision under Article 299 TFEU (see Articles 22 and 34), the beneficiaries must bring action before the General Court — or, on appeal, the Court of Justice — under Article 263 TFEU.

For grants where the granting authority is an EU executive agency (see Preamble), actions against offsetting and enforceable decisions must be brought against the European Commission (not against the granting authority; see also Article 22).

## **ARTICLE 44 — ENTRY INTO FORCE**

The Agreement will enter into force on the day of signature by the granting authority or the coordinator, depending on which is later.

## SIGNATURES

For the coordinator

For the granting authority

**ANNEX 1**



**Euratom Research and Training  
Programme (EURATOM)**

**Description of the action (DoA)**

**Part A**

**Part B**

DESCRIPTION OF THE ACTION (PART A)

COVER PAGE

Part A of the Description of the Action (DoA) must be completed directly on the Portal Grant Preparation screens.

| PROJECT                                                          |                                                        |
|------------------------------------------------------------------|--------------------------------------------------------|
| Grant Preparation (General Information screen) — Enter the info. |                                                        |
| Project number:                                                  | 101173510                                              |
| Project name:                                                    | EU-UA Nuclear Research and Education Capacity Building |
| Project acronym:                                                 | NURECAB                                                |
| Call:                                                            | EURATOM-2024-UKRAINIAN-IBA                             |
| Topic:                                                           | EURATOM-2024-UKRAINIAN-IBA                             |
| Type of action:                                                  | EURATOM-CSA                                            |
| Service:                                                         | RTD/C/04                                               |
| Project starting date:                                           | fixed date: 1 September 2024                           |
| Project duration:                                                | 24 months                                              |

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| List of deliverables .....                  | 16 |
| List of milestones (outputs/outcomes) ..... | 22 |
| List of critical risks .....                | 22 |

## PROJECT SUMMARY

### Project summary

*Grant Preparation (General Information screen) — Provide an overall description of your project (including context and overall objectives, planned activities and main achievements, and expected results and impacts (on target groups, change procedures, capacities, innovation etc)). This summary should give readers a clear idea of what your project is about.*

*Use the project summary from your proposal.*

The NURECAB is 24 months CSA project related to the implementation of Euratom Work Programme 2023-2025 and focused on Education, training, capacity building and networking actions to strengthen Ukrainian and EU nuclear research.

The NURECAB ambition is to support further integration of UA nuclear research community into European research networking and Euratom Research and Training Programme with paying attention to improvement of Ukrainian education and training academic framework for human capacity building and ensuring safe operation of Ukrainian nuclear installations and inclusive collaboration in fission and fusion.

There are 6 specific objectives of the project:

- Quality improvement of nuclear education and training programme in Ukraine,
- Reducing the gap between nuclear educational and training programme of Ukraine and nuclear sector needs,
- Attracting young people to nuclear research and engineering,
- Strengthening cooperation between UA and EU research entities and academia to improve the participation of their researchers in Euratom Research and Training Programme,
- Enhancing UA Euratom NCP competences and communication tools,
- Raising awareness about Euratom programme among Ukrainian stakeholders.

The NURECAB project is divided on 6 Work Packages:

WP1 - NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS,

WP2 - STAFF TRAINING FOR UA EURATOM STAKEHOLDERS,

WP3 - STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION,

WP4 - CAPACITY BUILDING OF YOUTH,

WP5 - COMMUNICATION, DISSEMINATION AND EXPLOITATION,

WP6 - PROJECT MANAGEMENT AND COORDINATION.

The NURECAB consortium is represented by 9 organization which are 5 Ukrainian nuclear education Universities, Ukrainian NPPs operator, Ukrainian nuclear society, the largest Ukrainian research center in the nuclear field that is a host of Euratom National Contact Point and European nuclear education network from Belgium.

## LIST OF PARTICIPANTS

### PARTICIPANTS

*Grant Preparation (Beneficiaries screen) — Enter the info.*

| Number | Role | Short name | Legal name                                                                   | Country | PIC       |
|--------|------|------------|------------------------------------------------------------------------------|---------|-----------|
| 1      | COO  | KIPT       | NATIONAL SCIENCE CENTER KHARKOV<br>INSTITUTE OF PHYSICS AND TECHNOLOGY       | UA      | 969818320 |
| 1.1    | AE   | UkrNS      | PUBLIC ORGANISATION UKRAINIAN<br>NUCLEAR SOCIETY                             | UA      | 888381291 |
| 1.2    | AE   | ENERGOATOM | STATE ENTERPRISE NATIONAL NUCLEAR<br>ENERGY GENERATING COMPANY<br>ENERGOATOM | UA      | 884696261 |
| 2      | BEN  | KKNU       | V. N. Karazin Kharkiv National University                                    | UA      | 986260984 |
| 2.1    | AE   | ENEN       | EUROPEAN NUCLEAR EDUCATION<br>NETWORK                                        | BE      | 905630704 |

| PARTICIPANTS                                               |      |            |                                                                                   |         |           |
|------------------------------------------------------------|------|------------|-----------------------------------------------------------------------------------|---------|-----------|
| Grant Preparation (Beneficiaries screen) — Enter the info. |      |            |                                                                                   |         |           |
| Number                                                     | Role | Short name | Legal name                                                                        | Country | PIC       |
| 3                                                          | BEN  | NTUU SKPI  | NATIONAL TECHNICAL UNIVERSITY OF UKRAINE IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE | UA      | 998145715 |
| 4                                                          | BEN  | NUOP       | ODESSA POLYTECHNIC NATIONAL UNIVERSITY                                            | UA      | 888776857 |
| 5                                                          | BEN  | TSNUK      | TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV                                      | UA      | 994789903 |
| 6                                                          | BEN  | NTU KHPI   | NATIONAL TECHNICAL UNIVERSITY KHARKIV POLYTECHNICAL INSTITUTE                     | UA      | 984498009 |

## LIST OF WORK PACKAGES

| Work packages                                              |                                                                            |                  |                        |             |           |                                                                                                                                                                                                                                                                                              |
|------------------------------------------------------------|----------------------------------------------------------------------------|------------------|------------------------|-------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grant Preparation (Work Packages screen) — Enter the info. |                                                                            |                  |                        |             |           |                                                                                                                                                                                                                                                                                              |
| Work Package No                                            | Work Package name                                                          | Lead Beneficiary | Effort (Person-Months) | Start Month | End Month | Deliverables                                                                                                                                                                                                                                                                                 |
| WP1                                                        | NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS | 4 - NUOP         | 193.75                 | 1           | 24        | D1.1 – Report on study of the knowledge gaps between existing education programme and needs of nuclear sector in Ukraine<br>D1.2 – Report on recommendations on advancing the nuclear education courses in Ukraine<br>D1.3 – Report on integration of developed courses to education process |
| WP2                                                        | STAFF TRAINING FOR UA EURATOM STAKEHOLDERS                                 | 3 - NTUU SKPI    | 83.00                  | 1           | 24        | D2.1 – Report on trainings for University staff and UA relevant audience                                                                                                                                                                                                                     |
| WP3                                                        | STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION                       | 1 - KIPT         | 42.50                  | 1           | 24        | D3.1 – Report on the Scientific Workshops<br>D3.2 – Recommendations for integration of UA nuclear education and training community into EU education and training system<br>D3.3 – Access to the relevant Euratom events                                                                     |
| WP4                                                        | CAPACITY BUILDING OF YOUTH                                                 | 2 - KGNU         | 43.50                  | 1           | 24        | D4.1 – Report on NYG events 2024-25<br>D4.2 – Report on realization of Universities programme to support mobility of their students                                                                                                                                                          |
| WP5                                                        | COMMUNICATION, DISSEMINATION AND EXPLOITATION                              | 1 - KIPT         | 45.00                  | 1           | 24        | D5.1 – Web site and project identity creation<br>D5.2 – DEC action plan<br>D5.3 – Data management plan                                                                                                                                                                                       |

| Work packages                                              |                                     |                  |                        |             |           |                                                 |
|------------------------------------------------------------|-------------------------------------|------------------|------------------------|-------------|-----------|-------------------------------------------------|
| Grant Preparation (Work Packages screen) — Enter the info. |                                     |                  |                        |             |           |                                                 |
| Work Package No                                            | Work Package name                   | Lead Beneficiary | Effort (Person-Months) | Start Month | End Month | Deliverables                                    |
|                                                            |                                     |                  |                        |             |           | D5.4 – Euratom Info Day in Ukraine              |
| WP6                                                        | PROJECT MANAGEMENT AND COORDINATION | 1 - KIPT         | 45.25                  | 1           | 24        | D6.1 – Ethics report<br>D6.2 – Project handbook |

## Work package WP1 – NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS

|                            |                                                                            |                         |          |
|----------------------------|----------------------------------------------------------------------------|-------------------------|----------|
| <b>Work Package Number</b> | WP1                                                                        | <b>Lead Beneficiary</b> | 4 - NUOP |
| <b>Work Package Name</b>   | NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS |                         |          |
| <b>Start Month</b>         | 1                                                                          | <b>End Month</b>        | 24       |

### Objectives

- Closing the knowledge gaps between the corresponding existing education programmes and the actual labor market needs of the national nuclear sector;
- Developing new advanced training courses for core Ukrainian Universities in the area of nuclear education and their integration into the educational process.

### Description

Task 1.1. Study of the knowledge gaps between the existing education programmes and needs of nuclear sector in Ukraine (M1 – M8)

Task Leader – TSNUK

Task participants: KKNU, TSNUK, OPNU, NTUU KPI, KIPT, ENERGOATOM, ENEN.

This study will address gaps/deficiencies in the range of nuclear energy courses currently offered to senior (bachelor's/ master's) level students at Ukrainian Universities providing education in nuclear sciences, technology and industry, considering the actual and anticipated needs for qualified personnel for nuclear industry and nuclear research in Ukraine. Both nuclear education courses in fission and fusion will be a subject of the survey although with main focus on courses related to the topics relevant to the major nuclear energy technologies and processes applied for safe NPPs operation.

A separate output of the aforementioned studying (with connection to other WPs) will be the identified deficiencies in the current approaches and practices concerning the professional training of the teaching and research staff of the Universities on the advanced nuclear science and technology topics in order to strengthen their knowledge and competences and thus to upraise the quality of the nuclear education in Ukraine.

The TSNUK will prepare the consolidated report on analyses of gaps between the existing education programmes and needs of nuclear sector in Ukraine based on contributions of project participants. OPNU, NTUU KPI will be involved in data collection and analyses of current status of nuclear education programmes at the Ukrainian Universities. TSNUK, KIPT will implement a studying of needs among research institutes related to nuclear research and innovation. UKRNS, ENERGOATOM will provide the data gathering and analyses concerning industrial entities of Ukrainian nuclear sector. ENEN, KKNU will integrate European aspects into studies of Ukrainian nuclear education and training programme. For implementing the survey and analysis of its results the project partners will use the methodology developed with account of the relevant experience of similar studies carried out in the EU countries with support of ENEN, which will provide relevant information and consultancy to the involved Ukrainian participants.

Finally, recommendations will be finalized by TSNUK in cooperation with all project participants aiming at advancing the above-mentioned nuclear education courses and training programmes in Ukraine:

- recommendations generally relevant for the nuclear education and training programme in Ukraine;
- recommendations made to Universities (beneficiaries of the NURECAB project).

These recommendations will address both qualitative and quantitative characteristics of the corresponding processes, and among others contain the list of priority topics requiring further actions to update the currently delivered education courses or develop new ones. The results of Task 1.1 will be used as input data for Task 1.2. Also, the list of training topics for strengthening the Universities' staff knowledge and competences will be a basis for actions under WP2 to implement the selected training courses.

The support by ENEN is essential in making recommendations to take account of the European context. An important element of the actions under Tasks 1.1 and 1.2 will be the exchange of the acquired knowledge and experience between the Ukrainian stakeholders and partners from ENEN during workshops.

Expected results: D1.1, D1.2., M1.1, M1.2.

Task 1.2. Advancing the nuclear education courses and integrating them to the Universities' educational process (M7 – M24)

Task Leader – OPNU

Task participants – KKNU, TSNUK, OPNU, NTUU KPI, NTU KhPI, KIPT, ENERGOATOM

The aim of Task 1.2 is to create new nuclear education courses/updating existing courses based on the recommendations

provided by studying of knowledge gaps between the existing education programmes and needs of nuclear sector in Ukraine implemented in task 1.1. Following recommendations, the fission and fusion education courses will be selected by the Ukrainian Universities with taking into account national and international needs, expertise and professional communications within nuclear research, educational and industrial community.

The Ukrainian Universities will develop of nuclear education courses under WP1 with close cooperation with national and international stakeholders under WP2, WP3 activities. The trainings for trainers that will be organized under WP2 will help Universities staff to exploit new knowledge and competences for new courses development or updating the current courses. The WP3 international workshops and meetings will be related for discussion of nuclear education courses and their development.

It is planned, that up to 10 updated/developed (new) courses will be officially integrated to the Universities' education programmes by the end of the project with respect to the Ukrainian rules and procedures relevant to the education process in the Universities of Ukraine. The aforementioned integration includes the development and approval at the Universities' level of a set of documents: tutorial textbook, syllabus, lecture presentation, system of students' knowledge evaluation, methodological guidelines, exam cards. It is expected that syllabuses for all selected courses will be created to M12. Syllabuses will contain the description of a course in accordance with the University requirements including number of credits, academic hours distribution among lectures, practices, laboratory works, requirements on knowledges, competences, program results of education in the course, lecture's, practice's and laboratory work's themes, language of course, knowledge evaluation scheme, list of references and etc.

Expected results: D1.3, M1.3.

## Work package WP2 – STAFF TRAINING FOR UA EURATOM STAKEHOLDERS

|                            |                                            |                         |               |
|----------------------------|--------------------------------------------|-------------------------|---------------|
| <b>Work Package Number</b> | WP2                                        | <b>Lead Beneficiary</b> | 3 - NTUU SKPI |
| <b>Work Package Name</b>   | STAFF TRAINING FOR UA EURATOM STAKEHOLDERS |                         |               |
| <b>Start Month</b>         | 1                                          | <b>End Month</b>        | 24            |

### Objectives

- Support of competence improvement and knowledge exchange in nuclear education area
- Reinforcement of Ukrainian stakeholders' knowledge and best practices exchange related to international cooperation under the EU Horizon Europe and Euratom Programmes
- Strengthening of Euratom NCP staff skills and improvement of NCP quality of services

### Description

WP2 is focused on improvement of the Ukrainian Universities teaching and research staff and Euratom NCP staff knowledge and competences relevant to nuclear areas of education, research and innovation as well as European funding for fission and fusion research and training with pay attention to safe and reliable operation of nuclear installations in Ukraine.

WP2 implementation is divided into 3 tasks.

Task 2.1. Universities staff training on fission and fusion areas (M7-M24)

Task Leader – NTUU KPI

task participants – OPNU, NTUU KPI, KKNU, NTU KhPI, KIPT, ENEN, ENERGOATOM

WP1 results (D1.1., M1.1., M1.2.) will generate the recommendation of Universities teaching and research staff trainings related to the nuclear sector needs. Task 2.1. will be focused on strengthening of nuclear education knowledge and competences of Universities staff via providing trainings for them.

The Universities staff trainings will be provided in period of M7-M24. On the one hand, trainings for Universities teaching and research staff will be used to narrow the gap between nuclear sector needs and current nuclear education programme at UA Universities. On the other hand, they will be targeted on enhancement of the current strengths of Ukrainian nuclear education programme.

NTUU KPI in cooperation with other project participants will develop the NURECAB plan for trainings based on recommendations generated in WP1. It is expected to identify opportunities for staff trainings among EU entities including finished and on-going Euratom projects. ENEN will be engaged in communication with EU stakeholders to bridge Ukrainian needs in trainings and EU opportunities. ENERGOATOM and KIPT will be involved in providing the trainings for Universities staff. It is expected to ensure at least 4 trainings for Universities staff by ENERGOATOM and KIPT that will cover identified needs in WP1. It is expected that ENERGOATOM will help to integrate its e-learning

system «ASKO» (sections «JOB SAFETY» and «BASIC KNOWLEDGE») into the Ukraine Nuclear Education System (exclusive property copyrights for the distribution, support, use, implementation of improvements and modification of the software code of the e-learning system «ASKO» belongs to "JSC "ASOT". The relevant software will be licensed by NTUU KPI). Also, according to the results of the WP1 gap analyses, it is expected to improve the integrated sections by UA nuclear Universities efforts and further mutual usage of e-learning system for quality improvement of nuclear education and training programme and boosting the adaptation of students to production environment and requirements to their knowledge as for future NPP employees. It will support the activity on courses development under the NURECAB project and beyond. It will allow strengthening the link between education and needs of the national NPPs operator. The synergy of ENEN2Plus and NURECAB projects will be used to ensure participation of Universities staff in EU trainings. It is expected that at least 45 University representatives will be trained.

Expected results: D2.1.

Task 2.2 UA Euratom NCP staff trainings (M1-M18)

Task Leader – KIPT, task participants – KIPT

The aim of task 2.2. is to enhance NCP staff competence in the field of EU framework programme and Euratom programme administrative knowledge, initiatives and platforms, etc. The main task idea is to improve the quality of NCP services through the widening of NCP staff participation at the training courses, webinars and experience exchange meetings concerning HORIZON EUROPE programme and Euratom programme activities.

UA Euratom NCP staff will participate at on-line, off-line trainings and workshops relevant to different issues of the EU FP9, NCPs operation, activities of relevant platforms and networks (2 off-line trainings and 6 on-line trainings/seminars/workshops). Off-line trainings are preferable as more efficient option to get new knowledge and communication with experts and trainers, to get a new opportunity for professional networking.

UA Euratom NCP will use knowledge and skills obtained at trainings as a base for organizing and providing of local trainings for Euratom programme stakeholders in Ukraine as well as during consultations for Ukrainian researchers.

Expected results: D2.1.

Task 2.3. NCP activities on training of Ukrainian researchers in the area of Horizon Europe and Euratom programme issues (M6 – M24)

Task Leader – KIPT, task participants – all participants

The aim of task 2.3 is to arrange 4 trainings for Ukrainian stakeholders relevant to the Euratom research programme. Trainings will be addressed to audience of Ukrainian researchers and representatives of large enterprises and SMEs that are involved in the fields of fission and fusion activities. The main points covered by the trainings will be the Euratom research programme, Funding & Tenders Opportunities Portal, Administrative and financial issues, Proposal writing and assessment, Communication and Dissemination, etc.

It is planned to arrange the questionnaire of Ukrainian audience on the main topics that are the most interesting for them. It will be done at the beginning of the project (M1-M4). The training agenda will take into account the audience feedback. The trainings will be provided in period of M7-M24. The total number of trained Ukrainian researchers is expected to be 60 persons.

Additionally, 2 Euratom NCP webinars will be arranged for Ukrainian audience before announcement of Euratom Work Programme 2026-2027. It will be done to focus their attention on a new programme and to attract the audience to preliminary negotiation with partners and project preparation activity.

Expected results: D2.1.

## Work package WP3 – STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION

| Work Package Number | WP3                                                  | Lead Beneficiary | 1 - KIPT |
|---------------------|------------------------------------------------------|------------------|----------|
| Work Package Name   | STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION |                  |          |
| Start Month         | 1                                                    | End Month        | 24       |

### Objectives

- Development of national and international cooperation for boosting competences and better integration of UA stakeholders to European research area

### Description

The objective of WP3 is to establish communication lines and build strong partner relationship between the UA

and EU Education and Research communities in mutually beneficial nuclear fields. This will facilitate integration of Ukrainian education and research activities into the European context. Euratom NCP in Ukraine will provide the support of Ukrainian researchers' participation in the Euratom international events and meetings for research cooperation development.

ENEN, as the most representative E&T organization at European level with connections with sister networks all over the world, brings together more than 90 (ninety) institutions and organizations from Europe and beyond. In March 2023 ENEN General Assembly established a new Working Group to improve cooperation with the Ukrainian members of ENEN and support them to build a new education and training approach for a soon integration into EU education and training system.

WP3 implementation is divided into two tasks.

Task 3.1. Access of UA researchers to key Euratom international events

Task Leader - KIPT

Task participants – all partners

The aim of task 3.1. is to help UA researchers and UA stakeholders of Euratom programme to integrate their activity to the EU Euratom community through the support of participation at different Euratom events. 15 national travels and 15 international travels for representatives of the Ukrainian target audience will be supported by the Euratom National Contact Point in Ukraine in the period of project implementation for Ukrainian target audience participation in the events relevant to Euratom programme and ongoing Euratom project including events that will be arranged under NURECAB project. Travel, accommodation and subsistence for persons that will participate in the listed events that are in compliance with project objective on development of national and international research and education cooperation, boosting competences and integration of UA stakeholders to European research area. At least 15 national travels and 20 international travels will be supported by project beneficiaries for their staff participation in European nuclear events.

Additionally, on-line participation in the relevant to Euratom topics webinars and other hybrid events are planned. The preliminary list of events related to Euratom programme for participation of UA target audience is presented below. National and international events related to Euratom programme include events devoted to scientific, engineering, administrative and other concerning Euratom research and training programme areas and topics (conferences: FISA 2025 – EURADWASTE'25 conferences on Euratom fission research and training, SNETP Forum, ENEN events and other fission related conferences, FuseNet events, Symposium on Fusion Technology in 2026 and other fusion related conferences; Brokerage events and meetings: brokerage events and meetings will be identified in period of project implementation: brokerage events as a part of relevant conferences, meetings for development of project proposals; Workshops, seminars/webinars, trainings: workshops of on-going Euratom projects will be identified EU/Euratom events in the field of nuclear research and education, including relevant nuclear trainings).

Expected results: D3.3

Task 3.2. ENEN-UA Working Group activities for integration of UA researchers to European research and education area

Task Leader - ENEN

Task participants – all participants

For the purposes of the WP3, existing ENEN-UA Working Group (WG) will be extended with the project participants from the Ukrainian side and with the international members of ENEN related to the project in their education and research activities.

For this, a special Working group will be developed withing the project so that to ensure proper dissemination of E&T initiatives developed under ENEN projects. This WG will facilitate the transfer of the information of existing courses so that the interested persons could attend them. This WG will also ensure participation of UA institutions to the EURATOM topics of interest.

As a first step, a series of Workshops will be established by ENEN in collaboration with the project partners (preliminary workshops areas):

- Workshop 1 Research and Innovation representatives: Fostering collaboration in research and innovation between the EU and UA scientists (workshop related to issues of UA nuclear research and innovation community integration to Euratom programme initiatives)
- Workshop 2 Representatives of the Universities and the Industry: Identification and Analysis of Education and Training gaps in Ukraine (workshop related to studying of knowledge and competences gaps between formal education systems and needs of nuclear sector in Ukraine, identification of opportunities for trainings)
- Workshop 3 Accelerating integration of Ukrainian nuclear education and training community into European education and training system (workshop related to issues of UA nuclear research and innovation community integration to Euratom programme initiatives)

Additionally, ENEN seminar will be delivered by ENEN during first months to represent ENEN and Mobility Manual for Ukrainian nuclear community. In parallel to this, extended ENEN-UA Working Group will meet every year in the frames of the ENEN Annual Special Event. ENEN alongside with the UA members will arrange a Side Meeting dedicated to

cooperation with UA members and partners. It is expected to ensure 3 ENEN-UA Working Group meetings linked to ENEN events.

Expected results: D3.1, D3.2

Deliverables

D3.1 Report on the Scientific Workshops Results (M8)

D3.2 Overall recommendations for integration of Ukrainian nuclear education and training community into European education and training system (M8)

D3.3 Access to the relevant Euratom events (M24)

## Work package WP4 – CAPACITY BUILDING OF YOUTH

|                            |                            |                         |          |
|----------------------------|----------------------------|-------------------------|----------|
| <b>Work Package Number</b> | WP4                        | <b>Lead Beneficiary</b> | 2 - KKNU |
| <b>Work Package Name</b>   | CAPACITY BUILDING OF YOUTH |                         |          |
| <b>Start Month</b>         | 1                          | <b>End Month</b>        | 24       |

### Objectives

- Strengthening of mobility among Master students and PhD students;
- Attraction of young generation to nuclear physics departments at Ukrainian Universities;
- Creation of recommendations for Nuclear Young Generation (NYG) capacity building and integration.

### Description

WP4 is focused on the support and engagement of Ukrainian NYG to nuclear research and education as well as their deeper integration to European research and education area.

The energy crisis in Europe caused by the Russian aggression against Ukraine lead to a change of the course aimed to increase of utilization of nuclear energy. Deployment of innovative nuclear technologies and their implementation within the European Energy sector by 2050 is one of the main objectives of the European Green Deal for the moment. Thereby, Europe started to enhance their expertise in the nuclear field via establishing a number of educational and vocational programmes, promotion of nuclear education in particular. Ukraine is part of this process having a high competence in a nuclear field but lacking the specialists to overcome consequences of Russian occupation of the Chornobyl Exclusion Zone and Zaporizhzhia NPP, damages undergone by the key nuclear research institutions and growing demand of the new energy capacities due to significant losses of the energy infrastructure due to continuous shelling by Russia.

This can be achieved by increasing the attraction of young talents to the nuclear field. In this regard, WP4 is aimed to arrange the specific events that are focused on the young generation audience including schoolers and school teachers, bachelor students, master students, PhD students and by using the experience of the ENEN actions in this field which Ukrainian counterparts can benefit from sharing with ENEN Members.

The second point of WP4 efforts is aimed to support mobility of NYG representatives from UA Universities (NURECAB beneficiaries) for their participation at the relevant to Euratom programme events and communication between NYG and nuclear field experts.

The WP4 third point will be focused on development of Nuclear Young Generation capacity building and integration recommendations. This activity will be implemented via specific sessions or discussions on the events organized by project consortium members.

WP4 implementation is divided into 2 tasks.

Task 4.1. Communication tools and actions for attraction of students and schoolers to nuclear field (M1-M24)

Task Leader – UKRNS, task participants – all partners

Task 4.1 is aimed (i) to engage young generation into nuclear research and innovation areas as well as inform about nuclear education and research carrier in nuclear field, (ii) to disseminate best practices of capacity building within Young Generation Community in nuclear field in Ukraine. (iii) to growing-up this community and to help Young Generation Community to introduce it to European Young Generation Network in nuclear field, (iv) to discuss the issue of YNG capacity building and integration.

This task will be focused on arrangement of the events for communication between the audience of nuclear young generation and audience of nuclear sector experts from education, research, industry, regulator, authority, ENEN, etc.

Ukrainian Nuclear Society is experienced in communication with young generation about nuclear research and nuclear power plants operation and together with Universities, ENERGOATOM and KIPT provide activities to support NYG

capacity building in Ukraine and their integration to nuclear research and engineering and international cooperation. The list of events is represented below.

Introductory event (1 event, leading by ENEN) - ENEN will provide links to the activities related to European YGN within ENEN2plus project, NYG activities of ENEN members. The relevant audience is UA/EU representatives of nuclear sector, B/M/PhD students.

Competition for secondary schools (1 event, leading by UkrNS) - Art competition for secondary schools. It is to inform schoolers about nuclear research and technology and raise their interest to natural sciences and physics. The relevant audience is UA and the EU representatives of nuclear sector, ENEN, UA schoolers.

"My carrier in nuclear sector" (2 events, leading by UkrNS) - Two on-line events: 2025, 2026. It is to attract schoolers to nuclear education. Presentation of web-guidebook for entrants of UA nuclear education Universities. The relevant audience is Nuclear sector employers, schoolers, all project partners.

Carrier events (2 events, leading by UkrNS) - It is to present UA nuclear research entities as a place of future job for young people: 2025/26. The relevant audience is students, ENEN, UA researchers & entities.

Young researchers networking meeting (1 event, leading by UkrNS) - It is off-line event "Nuclear Science Slam": 2025 To rise interest of young researchers, master students to basic and applied research, provide a place for experience and best practice exchange. The relevant audience is young researchers.

Webinars for teachers (3 events, leading by TSNUK, NUOP, NTUU SKPI) - Three webinars «Nuclear Ed»: 2024/25/26. They are to inform teachers about advanced nuclear research and developments (fission area). The relevant audience is teachers and all project fission partners.

UA session of European fusion teacher Day (2 events, leading by KIPT, KKNU) - Two webinars: 2024, 2025. The goal is to inform teachers about plasma physics, research and innovation, fusion reactors. Attract their attention and attention of schoolers to fusion. The relevant audience is teachers and all project fusion partners.

ENEN will share the informational and promotional materials developed under the other EU-funded projects for the secondary schools.

Additionally, series of webinars and off-line meetings will be provided for secondary school's audience that will be aimed to raise interest to nuclear education and research carrier. KKNU will provide Masterclasses for young students (Hybrid, at least 2).

NUOP, NTUU SKPI and TSNUK will provide meetings at NPPs with senior schoolchildren living in towns in vicinity of NPPs (at least 9).

NTU KhPI will provide Lectures for students and schoolers, visit to schools (at least 4).

Expected results: D4.1.

Task 4.2. Support of mobility for students at Universities (M1-M24)

Task Leader – TSNUK, task participants – KKNU, OPNU, NTUU KPI, NTU KhPI

Task 4.1 will provide the support of mobility to Ukrainian PhD students.

5 Universities of project consortium will support mobility of their PhD students. It is expected to support at least 12 national and international travels of PhD students for their participation at the relevant to Euratom events (national and international events participation: scientific conferences, ENEN PhD Event & Prize, FuseNet PhD Event & Prize, NYG Forum, specific Euratom actions events, short visits to stakeholders' entities, etc). Additionally, ENEN will be involved in support of UA student mobility. It is envisaged, in particular via utilisation of the networking means being in possession of the European Nuclear Education Network (ENEN) to facilitate participation of UA students to EU or commonly developed Education and Training initiatives.

Expected results: D4.2.

## Work package WP5 – COMMUNICATION, DISSEMINATION AND EXPLOITATION

|                            |                                               |                         |          |
|----------------------------|-----------------------------------------------|-------------------------|----------|
| <b>Work Package Number</b> | WP5                                           | <b>Lead Beneficiary</b> | 1 - KIPT |
| <b>Work Package Name</b>   | COMMUNICATION, DISSEMINATION AND EXPLOITATION |                         |          |
| <b>Start Month</b>         | 1                                             | <b>End Month</b>        | 24       |

### Objectives

- Raising awareness about Euratom Programme and UA integration to research, education and training cooperation under Euratom
- Establishing synergies with Euratom projects and contacts with EU stakeholders
- Support the knowledge transfer to stakeholders and foster education and training

- Promoting project and its overall objectives, progress, results and benefits for stakeholders
- Providing effective and transparent data management

### Description

WP5 aims at ensuring adequate strategies to promote the impact of the project and disseminate findings and information generated. WP5 implementation is divided into 3 tasks.

Task 5.1. Creation of visual identity and communication materials and tools

Task 5.1. Leader – KIPT, participant - ENEN

Task 5.1. is aimed to create the project visual identity and communication materials. To provide an identification of the project the following items and materials will be developed: Logo, presentation template, deliverable template, letterhead, etc (M3), Project website (M4), Flyer and a roll-up (M4), Fb and LinkedIn project pages.

Expected results: D5.1.

Task 5.2. DEC plan implementation (M1-M24)

Task 5.2. Leader – KIPT, task participants – all partners

DEC activities are planned to present and amplify the impact of project results and outcomes. It is expected to focus attention on the following groups of audience related to Euratom research and training programme.

The following communication tools and channels are planned to be used:

KIPT is responsible for development of Web-site, E- Project roll-up, E -Project flyer, Project roll-up, Project flyer (500), Facebook project page, LinkedIn project page and other promo materials.

KIPT and ENEN will provide Kick-off on-line/hybrid seminar (KPI=70 attendees)

All partners will be involved in communication using own web-sites and web-sites of MES of Ukraine, NAS of Ukraine, posting at least 3 press releases (audience of this channel is more than 1000 people)

CAPACITY BUILDING OF YOUTH events will be involved in communication and dissemination strategy of the project targeted to teachers, schoolers, young researchers mainly. The project presentation will be done to inform the audience about objectives, structure, expected results in the events at the beginning of the project. The main objective is to inform audience about planned activities and the messages is about attraction their attention to the events and invitation to attend them. At the later WP4 events, it is planned to present the achieved results, outcomes and impact.

The following dissemination tools and channels are planned to be used:

UA nuclear conferences participation (UkrNS - leading partner) - 2 participation with audience at least 50 people per participation.

Annual Euratom NCP in Ukraine workshop 2025 (KIPT, ENEN - leading partners) - 1 event with audience at least 50 people per participation.

Euratom info Day in Ukraine 2026 (KIPT, ENEN - leading partners) - 1 event with audience at least 80 people per participation.

Euratom NCP Newsletter 2025 / 2026 (KIPT - leading partner) - audience of newsletter is more than 1000 people.

Project Newsletter 2024 / 2025 / 2026 (KIPT, ENEN - leading partners) - audience of newsletter is more than 1000 people.

Project final open seminar (KIPT, ENEN - leading partners) - 1 event with audience at least 70 people per participation.

The following exploitation events are planned to be used:

Workshop (M9) on-line/hybrid (NTUU SKPI, KIPT, ENEN - leading partners) . It is for project results presentation among expert community (at least 20 participants).

Workshop 2026 (M21) on-line/hybrid (NUOP, ENEN - leading partners). It is for presentation of developed nuclear education courses and plan of exploitation (at least 50 participants).

Project impact workshop (M22) on-line/hybrid (KIPT, ENEN - leading partners). It is to inform about expected impact and exploitation of archived results (at least 70 participants).

Expected results: D5.2., D5.3, D5.4, M5.1.

Task 5.3: Data Management (M1-M24)

Task Leader - KIPT

Task participants – all partners

The Data Management Plan (DMP) will be prepared by the Coordinator within the first six months of the project and updated at regular intervals. It will provide guidance about data collection, curation, quality assurance, storage, and sharing in line with the FAIR principles. To ensure a proper data transfer between WPs a section of the DMP will be devoted to monitor this process. Data generated will be deposited in the repository in accordance with the timing established in the data management plan. All partners are involved the Data Management Plan implementation.

Expected results: D5.4.

**Work package WP6 – PROJECT MANAGEMENT AND COORDINATION**

|                            |                                     |                         |          |
|----------------------------|-------------------------------------|-------------------------|----------|
| <b>Work Package Number</b> | WP6                                 | <b>Lead Beneficiary</b> | 1 - KIPT |
| <b>Work Package Name</b>   | PROJECT MANAGEMENT AND COORDINATION |                         |          |
| <b>Start Month</b>         | 1                                   | <b>End Month</b>        | 24       |

**Objectives**

- Assure the overall coordination of all activities among the project partners;
- Guarantee efficient and transparent communication within the consortium and with the EC;
- Enable timely reporting to the European Commission;
- Coordinate the administrative and financial management of the project.

**Description**

Ensure the correct and timely implementation of the PROJECT work plan including possible changes that may occur during the project.

There are three tasks under the WP6.

**TASK 6.1. Reporting and quality control and monitoring of project implementation (M1-M24)**

KIPT leads the task and is responsible for initiating, coordinating and monitoring of all reporting obligations of the project; contributions will be made by all partners. Monitoring of the timely achievement and reporting of milestones, deliverables and project goals.

The project implementation will include the personal data collection and processing as ethics issues. The project objective related to ethics issue is to be in compliance with existing legislation and practices within personal data collection and processing. There are some documents that will be updated and applied to reach ethical approach under the project implementation. The ethics report will be submitted in M3 as a deliverable. Intermediate report will be submitted as milestone in M13 (M6.1).

Expected results: D6.1, M6.1

**Task 6.2: Project internal collaboration and communication (M1-M24).**

KIPT leads the task and is responsible for the day-to-day coordination of the internal collaboration and communication; contributions will be made by all partners. It is to set-up and maintenance of the project internal communication and management infrastructure as well as a document management system, to set-up and maintenance of contact and mailing lists and organisation of regular project meetings between the consortium partners during the project duration. Internal communication flows are KICK – OFF meeting (M1), TASK level periodic meetings (1 per 2 weeks or if needed), WP level periodic meetings (1 per 1 months), Project level periodic meetings (1 per 3 months), FINAL meeting (M23/24), arrangement of the executive board and the steering group meetings.

Expected results: D6.2

**Task 6.3: Administrative and financial management (M1-24)**

KIPT is a leader the task and is responsible for day-to-day coordination of activities and the administrative and financial management of the project; contributions will be made by all partners.

Development of a project handbook that presents internal structure and procedures; Monitoring the compliance with the regulations of the Grant Agreement and other legal documents; Management of contractual and financial issues including the distribution of funds within the consortium and the continuous monitoring of the project budget; Guidance for all consortium members for issues relating to finances and reporting; Monitoring the risk management within the project and supporting risk mitigation measures.

Expected results: D6.2

STAFF EFFORT

| Staff effort per participant                                        |        |       |       |       |       |       |                     |
|---------------------------------------------------------------------|--------|-------|-------|-------|-------|-------|---------------------|
| Grant Preparation (Work packages - Effort screen) — Enter the info. |        |       |       |       |       |       |                     |
| Participant                                                         | WP1    | WP2   | WP3   | WP4   | WP5   | WP6   | Total Person-Months |
| 1 - KIPT                                                            | 15.00  | 32.00 | 14.00 | 3.00  | 23.50 | 30.00 | 117.50              |
| 1.1 - UkrNS                                                         | 6.50   | 1.00  | 4.00  | 13.00 | 3.00  | 2.00  | 29.50               |
| 1.2 - ENERGOATOM                                                    | 4.00   | 1.00  | 1.00  |       | 1.50  |       | 7.50                |
| 2 - KGNU                                                            | 29.00  | 7.00  | 8.00  | 7.00  | 4.00  | 3.00  | 58.00               |
| 2.1 - ENEN                                                          | 0.75   | 0.50  | 2.00  | 0.50  | 2.00  | 0.25  | 6.00                |
| 3 - NTUU SKPI                                                       | 33.00  | 12.00 | 1.50  | 8.00  | 2.00  | 3.00  | 59.50               |
| 4 - NUOP                                                            | 35.00  | 5.00  | 3.00  | 3.00  | 3.00  | 3.00  | 52.00               |
| 5 - TSNUK                                                           | 44.50  | 17.50 | 6.00  | 5.00  | 4.00  | 3.00  | 80.00               |
| 6 - NTU KHPI                                                        | 26.00  | 7.00  | 3.00  | 4.00  | 2.00  | 1.00  | 43.00               |
| Total Person-Months                                                 | 193.75 | 83.00 | 42.50 | 43.50 | 45.00 | 45.25 | 453.00              |

## LIST OF DELIVERABLES

| <b>Deliverables</b><br><i>Grant Preparation (Deliverables screen) — Enter the info.</i><br><i>The labels used mean:</i><br><i>Public — fully open ( automatically posted online)</i><br><i>Sensitive — limited under the conditions of the Grant Agreement</i><br><i>EU classified —RESTREINT-UE/EU-RESTRICTED, CONFIDENTIEL-UE/EU-CONFIDENTIAL, SECRET-UE/EU-SECRET under Decision <a href="#">2015/444</a></i> |                                                                                                                      |                 |                  |                      |                     |                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-----------------|------------------|----------------------|---------------------|------------------|
| Deliverable No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Deliverable Name                                                                                                     | Work Package No | Lead Beneficiary | Type                 | Dissemination Level | Due Date (month) |
| D1.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on study of the knowledge gaps between existing education programme and needs of nuclear sector in Ukraine    | WP1             | 5 - TSNUK        | R — Document, report | PU - Public         | 6                |
| D1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on recommendations on advancing the nuclear education courses in Ukraine                                      | WP1             | 3 - NTUU SKPI    | R — Document, report | PU - Public         | 8                |
| D1.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on integration of developed courses to education process                                                      | WP1             | 4 - NUOP         | R — Document, report | PU - Public         | 24               |
| D2.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on trainings for University staff and UA relevant audience                                                    | WP2             | 3 - NTUU SKPI    | R — Document, report | PU - Public         | 24               |
| D3.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on the Scientific Workshops                                                                                   | WP3             | 1 - KIPT         | R — Document, report | PU - Public         | 8                |
| D3.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Recommendations for integration of UA nuclear education and training community into EU education and training system | WP3             | 2 - KKNU         | R — Document, report | PU - Public         | 8                |
| D3.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Access to the relevant Euratom events                                                                                | WP3             | 1 - KIPT         | R — Document, report | PU - Public         | 24               |
| D4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on NYG events 2024-25                                                                                         | WP4             | 1.1 - UkrNS      | R — Document, report | PU - Public         | 18               |
| D4.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Report on realization of Universities programme to support mobility of their students                                | WP4             | 5 - TSNUK        | R — Document, report | PU - Public         | 24               |

**Deliverables**

*Grant Preparation (Deliverables screen) — Enter the info.*

*The labels used mean:*

*Public — fully open (⚠ automatically posted online)*

*Sensitive — limited under the conditions of the Grant Agreement*

*EU classified — RESTREINT-UE/EU-RESTRICTED, CONFIDENTIEL-UE/EU-CONFIDENTIAL, SECRET-UE/EU-SECRET under Decision [2015/444](#)*

| Deliverable No | Deliverable Name                       | Work Package No | Lead Beneficiary | Type                                        | Dissemination Level | Due Date (month) |
|----------------|----------------------------------------|-----------------|------------------|---------------------------------------------|---------------------|------------------|
| D5.1           | Web site and project identity creation | WP5             | 1 - KIPT         | DEC — Websites, patent filings, videos, etc | PU - Public         | 3                |
| D5.2           | DEC action plan                        | WP5             | 1 - KIPT         | R — Document, report                        | PU - Public         | 6                |
| D5.3           | Data management plan                   | WP5             | 1 - KIPT         | DMP — Data Management Plan                  | PU - Public         | 6                |
| D5.4           | Euratom Info Day in Ukraine            | WP5             | 1 - KIPT         | R — Document, report                        | PU - Public         | 18               |
| D6.1           | Ethics report                          | WP6             | 1 - KIPT         | R — Document, report                        | PU - Public         | 3                |
| D6.2           | Project handbook                       | WP6             | 1 - KIPT         | R — Document, report                        | SEN - Sensitive     | 3                |

**Deliverable D1.1 – Report on study of the knowledge gaps between existing education programme and needs of nuclear sector in Ukraine**

|                           |                                                                                                                   |                            |             |
|---------------------------|-------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D1.1                                                                                                              | <b>Lead Beneficiary</b>    | 5 - TSNUK   |
| <b>Deliverable Name</b>   | Report on study of the knowledge gaps between existing education programme and needs of nuclear sector in Ukraine |                            |             |
| <b>Type</b>               | R — Document, report                                                                                              | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 6                                                                                                                 | <b>Work Package No</b>     | WP1         |

| Description                                                                                                               |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------|--|--|--|
| It is a report on study of the knowledge gaps between existing education programme and needs of nuclear sector in Ukraine |  |  |  |

**Deliverable D1.2 – Report on recommendations on advancing the nuclear education courses in Ukraine**

|                           |                                                                                 |                            |               |
|---------------------------|---------------------------------------------------------------------------------|----------------------------|---------------|
| <b>Deliverable Number</b> | D1.2                                                                            | <b>Lead Beneficiary</b>    | 3 - NTUU SKPI |
| <b>Deliverable Name</b>   | Report on recommendations on advancing the nuclear education courses in Ukraine |                            |               |
| <b>Type</b>               | R — Document, report                                                            | <b>Dissemination Level</b> | PU - Public   |
| <b>Due Date (month)</b>   | 8                                                                               | <b>Work Package No</b>     | WP1           |

| Description                                                                     |  |  |  |
|---------------------------------------------------------------------------------|--|--|--|
| Report on recommendations on advancing the nuclear education courses in Ukraine |  |  |  |

**Deliverable D1.3 – Report on integration of developed courses to education process**

|                           |                                                                 |                            |             |
|---------------------------|-----------------------------------------------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D1.3                                                            | <b>Lead Beneficiary</b>    | 4 - NUOP    |
| <b>Deliverable Name</b>   | Report on integration of developed courses to education process |                            |             |
| <b>Type</b>               | R — Document, report                                            | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 24                                                              | <b>Work Package No</b>     | WP1         |

| Description                                                     |  |  |  |
|-----------------------------------------------------------------|--|--|--|
| Report on integration of developed courses to education process |  |  |  |

**Deliverable D2.1 – Report on trainings for University staff and UA relevant audience**

|                           |                                                                   |                            |               |
|---------------------------|-------------------------------------------------------------------|----------------------------|---------------|
| <b>Deliverable Number</b> | D2.1                                                              | <b>Lead Beneficiary</b>    | 3 - NTUU SKPI |
| <b>Deliverable Name</b>   | Report on trainings for University staff and UA relevant audience |                            |               |
| <b>Type</b>               | R — Document, report                                              | <b>Dissemination Level</b> | PU - Public   |
| <b>Due Date (month)</b>   | 24                                                                | <b>Work Package No</b>     | WP2           |

| Description |  |  |  |
|-------------|--|--|--|
|-------------|--|--|--|

|                                                                   |
|-------------------------------------------------------------------|
| Report on trainings for University staff and UA relevant audience |
|-------------------------------------------------------------------|

**Deliverable D3.1 – Report on the Scientific Workshops**

|                           |                                    |                            |             |
|---------------------------|------------------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D3.1                               | <b>Lead Beneficiary</b>    | 1 - KIPT    |
| <b>Deliverable Name</b>   | Report on the Scientific Workshops |                            |             |
| <b>Type</b>               | R — Document, report               | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 8                                  | <b>Work Package No</b>     | WP3         |

|                                    |
|------------------------------------|
| <b>Description</b>                 |
| Report on the Scientific Workshops |

**Deliverable D3.2 – Recommendations for integration of UA nuclear education and training community into EU education and training system**

|                           |                                                                                                                      |                            |             |
|---------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D3.2                                                                                                                 | <b>Lead Beneficiary</b>    | 2 - KGNU    |
| <b>Deliverable Name</b>   | Recommendations for integration of UA nuclear education and training community into EU education and training system |                            |             |
| <b>Type</b>               | R — Document, report                                                                                                 | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 8                                                                                                                    | <b>Work Package No</b>     | WP3         |

|                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                   |
| Recommendations for integration of UA nuclear education and training community into EU education and training system |

**Deliverable D3.3 – Access to the relevant Euratom events**

|                           |                                       |                            |             |
|---------------------------|---------------------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D3.3                                  | <b>Lead Beneficiary</b>    | 1 - KIPT    |
| <b>Deliverable Name</b>   | Access to the relevant Euratom events |                            |             |
| <b>Type</b>               | R — Document, report                  | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 24                                    | <b>Work Package No</b>     | WP3         |

|                                       |
|---------------------------------------|
| <b>Description</b>                    |
| Access to the relevant Euratom events |

**Deliverable D4.1 – Report on NYG events 2024-25**

|                           |                              |                            |             |
|---------------------------|------------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D4.1                         | <b>Lead Beneficiary</b>    | 1.1 - UkrNS |
| <b>Deliverable Name</b>   | Report on NYG events 2024-25 |                            |             |
| <b>Type</b>               | R — Document, report         | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 18                           | <b>Work Package No</b>     | WP4         |

| Description                  |
|------------------------------|
| Report on NYG events 2024-25 |

### Deliverable D4.2 – Report on realization of Universities programme to support mobility of their students

| Deliverable Number | D4.2                                                                                  | Lead Beneficiary    | 5 - TSNUK   |
|--------------------|---------------------------------------------------------------------------------------|---------------------|-------------|
| Deliverable Name   | Report on realization of Universities programme to support mobility of their students |                     |             |
| Type               | R — Document, report                                                                  | Dissemination Level | PU - Public |
| Due Date (month)   | 24                                                                                    | Work Package No     | WP4         |

| Description                                                                           |
|---------------------------------------------------------------------------------------|
| Report on realization of Universities programme to support mobility of their students |

### Deliverable D5.1 – Web site and project identity creation

| Deliverable Number | D5.1                                        | Lead Beneficiary    | 1 - KIPT    |
|--------------------|---------------------------------------------|---------------------|-------------|
| Deliverable Name   | Web site and project identity creation      |                     |             |
| Type               | DEC — Websites, patent filings, videos, etc | Dissemination Level | PU - Public |
| Due Date (month)   | 3                                           | Work Package No     | WP5         |

| Description                                                                                                                  |
|------------------------------------------------------------------------------------------------------------------------------|
| Report on the Web site creation and release with usage of project identity to promote project DEC activity and deliverables. |

### Deliverable D5.2 – DEC action plan

| Deliverable Number | D5.2                 | Lead Beneficiary    | 1 - KIPT    |
|--------------------|----------------------|---------------------|-------------|
| Deliverable Name   | DEC action plan      |                     |             |
| Type               | R — Document, report | Dissemination Level | PU - Public |
| Due Date (month)   | 6                    | Work Package No     | WP5         |

| Description                                                            |
|------------------------------------------------------------------------|
| Action plan for communication, dissemination and exploitation activity |

### Deliverable D5.3 – Data management plan

| Deliverable Number | D5.3                       | Lead Beneficiary    | 1 - KIPT    |
|--------------------|----------------------------|---------------------|-------------|
| Deliverable Name   | Data management plan       |                     |             |
| Type               | DMP — Data Management Plan | Dissemination Level | PU - Public |

|                         |   |                        |     |
|-------------------------|---|------------------------|-----|
| <b>Due Date (month)</b> | 6 | <b>Work Package No</b> | WP5 |
|-------------------------|---|------------------------|-----|

|                      |
|----------------------|
| <b>Description</b>   |
| Data management plan |

### Deliverable D5.4 – Euratom Info Day in Ukraine

|                           |                             |                            |             |
|---------------------------|-----------------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D5.4                        | <b>Lead Beneficiary</b>    | 1 - KIPT    |
| <b>Deliverable Name</b>   | Euratom Info Day in Ukraine |                            |             |
| <b>Type</b>               | R — Document, report        | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 18                          | <b>Work Package No</b>     | WP5         |

|                             |
|-----------------------------|
| <b>Description</b>          |
| Euratom Info Day in Ukraine |

### Deliverable D6.1 – Ethics report

|                           |                      |                            |             |
|---------------------------|----------------------|----------------------------|-------------|
| <b>Deliverable Number</b> | D6.1                 | <b>Lead Beneficiary</b>    | 1 - KIPT    |
| <b>Deliverable Name</b>   | Ethics report        |                            |             |
| <b>Type</b>               | R — Document, report | <b>Dissemination Level</b> | PU - Public |
| <b>Due Date (month)</b>   | 3                    | <b>Work Package No</b>     | WP6         |

|                                                                                                              |
|--------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                           |
| Ethics report is focused on ethics issues of the project (personal data collection, processing and storage). |

### Deliverable D6.2 – Project handbook

|                           |                      |                            |                 |
|---------------------------|----------------------|----------------------------|-----------------|
| <b>Deliverable Number</b> | D6.2                 | <b>Lead Beneficiary</b>    | 1 - KIPT        |
| <b>Deliverable Name</b>   | Project handbook     |                            |                 |
| <b>Type</b>               | R — Document, report | <b>Dissemination Level</b> | SEN - Sensitive |
| <b>Due Date (month)</b>   | 3                    | <b>Work Package No</b>     | WP6             |

|                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                                                                                                      |
| Project handbook is internal document to help consortium members in project implementation and internal communications. |

## LIST OF MILESTONES

| Milestones                                                     |                                                                                                                                   |                 |                  |                                               |                  |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------|-----------------------------------------------|------------------|
| <i>Grant Preparation (Milestones screen) — Enter the info.</i> |                                                                                                                                   |                 |                  |                                               |                  |
| Milestone No                                                   | Milestone Name                                                                                                                    | Work Package No | Lead Beneficiary | Means of Verification                         | Due Date (month) |
| 1                                                              | The list of nuclear education courses towards closing gap between formal education systems and needs of nuclear sector in Ukraine | WP1             | 3 - NTUU SKPI    | The list of nuclear education courses         | 7                |
| 2                                                              | The list of training topics for strengthening of University staff knowledge and competences                                       | WP1             | 5 - TSNUK        | The list of training topics                   | 7                |
| 3                                                              | Draft syllabus for all new courses                                                                                                | WP1             | 4 - NUOP         | Draft of syllabuses                           | 13               |
| 4                                                              | DEC plan revision to 2nd year of the project                                                                                      | WP5             | 1 - KIPT         | Revised DEC plan                              | 13               |
| 5                                                              | Internal interim progress report                                                                                                  | WP6             | 1 - KIPT         | Internal interim progress report              | 13               |
| 6                                                              | NCP staff training results                                                                                                        | WP2             | 1 - KIPT         | The list of NCP staff trainings/trained staff | 18               |

## LIST OF CRITICAL RISKS

| Critical risks & risk management strategy                          |                                                                                          |                              |                                                                                                                                   |
|--------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| <i>Grant Preparation (Critical Risks screen) — Enter the info.</i> |                                                                                          |                              |                                                                                                                                   |
| Risk number                                                        | Description                                                                              | Work Package No(s)           | Proposed Mitigation Measures                                                                                                      |
| 1                                                                  | Lack of understanding of contractual agreements, liabilities, roles and responsibilities | WP5, WP1, WP3, WP6, WP4, WP2 | Project handbook and regular meetings will help to make clear the understanding of project as well as clear Consortium Agreement. |

| <b>Critical risks &amp; risk management strategy</b><br><i>Grant Preparation (Critical Risks screen) — Enter the info.</i> |                                                                                                            |                              |                                                                                                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Risk number</b>                                                                                                         | <b>Description</b>                                                                                         | <b>Work Package No(s)</b>    | <b>Proposed Mitigation Measures</b>                                                                                                               |
| 2                                                                                                                          | Delays in submission of Deliverables and Milestones                                                        | WP5, WP1, WP3, WP6, WP4, WP2 | Adjustment of planning and sufficient time for review and revision                                                                                |
| 3                                                                                                                          | The courses will not be integrated into Universities education process in time                             | WP1                          | Adjustment of planning for courses development, usage of e-learning system for simplification of integration process                              |
| 4                                                                                                                          | Less involvement of UA representatives in NCPs training activity                                           | WP2                          | Questionnaires and discussion with target audience about needs in trainings                                                                       |
| 5                                                                                                                          | The mobility of male representatives of UA nuclear representatives will be limited by national regulations | WP5, WP3, WP4                | The support of Ministry of Education and Science of Ukraine / National Academy of Sciences of Ukraine will be used for international travels      |
| 6                                                                                                                          | Low impact of communication and dissemination activity                                                     | WP5                          | Periodical review of DEC tools statistics, involving ENEN channels and Ukrainian relevant authorities and partner organizations web/social tools. |

History of changes

Changes introduced in Part A

| Part or page | Change |
|--------------|--------|
|              |        |

Changes introduced in Part B

| Part or page                                                                                                                                                                                                            | Change                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| Part B<br>Partner short name for National Technical University of Ukraine “Igor Sikorsky Kyiv Polytechnic Institute” has been changed in according to short name in SyGMa<br>(ref. page 16, 28, 29, 30 Proposal part B) | NTUU KPI has been changed to NTUU SKPI |
| Part B<br>Partner short name for Odessa Polytechnic National University has been changed in according to short name in SyGMa<br>(ref. page 16, 28, 30 Proposal part B)                                                  | OPNU has been changed to NUOP          |

Table of content

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| 1.Excellence                                    | 2  |
| 2.Impact                                        | 9  |
| 3. Quality and efficiency of the implementation | 17 |
| 4. Ethics self-assessment                       | 21 |

## 1. **Excellence #@REL-EVA-RE@#**

NURECAB (EU-UA Nuclear Research and Education Capacity Building) is 24 months Coordination and Support Action related to the implementation of Euratom Work Programme 2023-2025 and focused on Education, training, capacity building and networking actions to strengthen Ukrainian and EU nuclear research.

Nuclear energy sector of Ukraine is the biggest supplier of electricity for Ukrainian industry and population and it is one of the biggest operators in Europe. Ukraine has 15 nuclear power plants and deeply involved in nuclear research and education with exploitation of scientific infrastructure including nuclear research installations.

Ukraine is on its road to meet the conditions for the EU accession. At the same time Ukrainian research entities strive to be more integrated into European research area. UA nuclear research and education community has got an opportunity for deeper integration into Euratom Research and Training Programme since 2016 and Ukrainian entities are increasing their participation step by step.

NURECAB ambition is to support further integration of UA nuclear research community into European research networking and Euratom Research and Training Programme with paying attention to improvement of Ukrainian education and training academic framework for human capacity building and ensuring safe operation of Ukrainian nuclear installations and inclusive collaboration in fission and fusion.

### 1.1 **Objectives #@PRJ-OBJ-PO@#**

#### **NURECAB overall objectives (OO)**

##### ***OO1. Support and improvement of nuclear education and training programmes in Ukraine***

The project is aimed to improve the quality of Ukrainian nuclear education and training programme by organization of networking among Ukrainian nuclear sector stakeholders including deeper communication with European nuclear community to identify the areas for improvement and implementation activities to fortify UA nuclear education and training programme capabilities and make it closer to the market needs to ensure safe operation of Ukrainian nuclear installations and inclusive collaboration in fission and fusion.

##### ***OO2. Strengthening integration of Ukrainian research and education entities and their infrastructure into the Euratom Research and Training Programme***

The project is aimed to facilitate deeper integration of Ukrainian research and education entities via activities of beneficiaries together with Euratom National Contact Point in Ukraine that focused on promotion of UA entities in European research area in the fields of fission and fusion, awareness raising about Euratom Programme among Ukrainian nuclear sector community and providing trainings and support to UA Euratom Programme applicants.

#### **NURECAB specific objectives (SO)**

##### ***There are three specific objectives for OO1***

##### **SO1. Quality improvement of nuclear education and training programme in Ukraine**

The nuclear education and training programme is a fundamental issue for exploitation of the nuclear facilities and providing research and innovation in the areas of fission and fusion. The education and training programme reflects nuclear sector needs taking into account existing and anticipated needs. To ensure this specific objective it is planned to implement the following activities under NURECAB project: (i) improvement of existing education courses on the fission and fusion topics and development of new courses towards the needs of nuclear sector, (ii) providing specific trainings for Universities teaching and research staff to enhance their knowledge and competences in the nuclear field, (iii) engaging nuclear sector representatives in discussion about education and training issues on national and international level.

##### **SO2. Reducing the gap between nuclear educational and training programme of Ukraine and nuclear sector needs**

This objective is achieved by studying of strengths and weaknesses of the existing education and training programme considering the needs of nuclear sector End Users. Both nuclear education courses in fission and fusion will be a subject of the survey although with main focus on courses related to the topics relevant to the major nuclear energy technologies and processes applied at NPPs which are currently in operation. It is planned to develop recommendation for improvement of education and training programme in Ukraine taking into account the European context. The results of this study will be used in short term for nuclear courses development/updating and Universities teaching and research staff training in period of NURECAB project implementation. As well recommendations will be integrated into individual Universities plans for further (out of NURECAB project duration) quality improvement of nuclear education and training programme leading to reduction of the gap between nuclear education and nuclear sector needs.

##### **SO3. Attracting young people to nuclear research and engineering**

Attraction of young researchers and engineers to nuclear sector is one of the most important issue for nuclear research and education entities as well as for nuclear industrial sector in Ukraine. The Ukrainian Universities for nuclear education are the main focus of the NURECAB project according to the objective of young generation attraction. It is expected to help Universities to improve the young generation engagement via organization of different events and actions for secondary schools' audience, B/M students and PhD Students. The methodologies of young nuclear

generation capacity building will be based on communication with young people via specific workshops and lectures, carrier events and competitions where NURECAB project will promote nuclear sector among young generation. Additionally, opportunities for national and international mobility will be created in cooperation with European Nuclear Education Network for Master students and PhD students from Ukrainian Universities to dive them deeper in nuclear research and engineering.

***There are three specific objectives for OO2***

**SO4. Strengthening cooperation between UA and EU research entities and academia to improve the participation of their researchers in Euratom Research and Training Programme**

Ukraine got an association status for Euratom Research and Training Programme in 2016. There are up to 20 Ukrainian entities that have been integrated into Euratom Programme till now. There are much more representatives of nuclear sector of Ukraine that have a potential to participate in the Euratom Programme. The objective is to support Ukrainian experienced and non-experienced entities in their integration into the Euratom Programme and help them to realize the full potential of Ukrainian research entities and infrastructures in cooperation with European nuclear research and education community under the Euratom projects and initiatives. The objective is achieved by facilitating of EU-UA communication of nuclear research and education community via (i) support of Ukrainian research and education entities' participation in Euratom event and initiatives, (ii) regular meetings of ENEN-Ukraine Working Group with a view to closer cooperation within ENEN network and exploitation of ENEN opportunities and initiatives for integration into the Euratom research and training activity , (iii) development of recommendations for integration of Ukrainian nuclear research and education community into EU/Euratom nuclear research networking system.

**SO5. Enhancing UA Euratom NCP competences and communication tools**

This objective is achieved by providing trainings for NCP staff in the area of Euratom/Horizon Europe Programme issues and initiatives, support of UA Euratom NCP communication tools served for promotion of Euratom projects & results among Ukrainian and European nuclear research and education community. The methodology is based on UA Euratom NCP staff trainings, experience and best practices exchange with European stakeholders and using the knowledge gained to improve the NCP services as well knowledge exchange among Ukrainian nuclear research and education community by arrangement of trainings. NCP communication tools such as web-site, newsletters, Fb/LinkedIn will be supported.

**SO6. Raising awareness about Euratom programme among Ukrainian stakeholders**

The focus on this specific objective means to provide the Ukrainian audience more information and knowledge related to Euratom Research and Training Programme/Horizon Europe Research and Innovation Programme and to promote EU-UA cooperation in the field of nuclear research and education via arrangement and participation in Euratom events, arrangement of Ukrainian Euratom NCP workshops and providing training on different issues of Euratom Programme participation. The methodology will be used in development and implementation of NURECAB communication and dissemination plan. To provide Ukrainian Euratom stakeholders more skills and competence related to Euratom/Horizon Europe issues, the survey on topics for trainings will be conducted and trainings will be arranged by the Euratom National Contact Point in Ukraine.

**NURECAB results and measurable targets**

NURECAB key performance indicators (KPI)

| KPI# | NURECAB KPI name                                                                                                                         | KPI numbers | SO#      | OO#      |
|------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------|----------|
| 1    | Improved courses/Developed new courses                                                                                                   | 10          | SO1      | OO1      |
| 2    | Developed/provided trainings for Universities teaching and research staff                                                                | At least 4  | SO1      | OO1      |
| 3    | Number of Universities teaching and research trained staff                                                                               | At least 45 | SO1      | OO1      |
| 4    | Study of the knowledge gaps between the existing education programmes and needs of nuclear sector in Ukraine                             | 1           | SO1      | OO1      |
| 5    | Recommendations for quality improvement of nuclear education courses and training programme in Ukraine                                   | 1           | SO1, SO2 | OO1, OO2 |
| 6    | Recommendations for integration of Ukrainian nuclear research and education community into EU/Euratom nuclear research networking system | 1           | SO1, SO4 | OO1, OO2 |
| 7    | Recommendations for YNG capacity building and integration                                                                                | 1           | SO3, SO4 | OO1, OO2 |
| 8    | List of courses and list of trainings                                                                                                    | 1           | SO1, SO2 | OO1, OO2 |
| 9    | Integration of ENERGOATOM corporate e-learning system to 1                                                                               | 1           | SO1, SO2 | OO1, OO2 |

|    |                                                                                                                                  |       |               |          |
|----|----------------------------------------------------------------------------------------------------------------------------------|-------|---------------|----------|
|    | UA nuclear University                                                                                                            |       |               |          |
| 10 | ENEN – Ukraine on-line/hybrid workshops in Ukraine                                                                               | 4     | SO1, SO4      | OO1, OO2 |
| 11 | ENEN – Ukraine working Group meetings in EU                                                                                      | 3     | SO1, SO4      | OO1, OO2 |
| 12 | NURECAB events for NYG capacity building                                                                                         | 12    | SO3           | OO1      |
| 13 | Universities activity for young generation                                                                                       | 15    | SO3           | OO1      |
| 14 | Web site (Guidebook for entrants of nuclear education in UA)                                                                     | 1     | SO3           | OO1      |
| 15 | Mobility Manual                                                                                                                  | 1     | SO4           | OO2      |
| 16 | Travels for PhD students of beneficiaries (national & international)                                                             | 12    | SO3, SO4, SO6 | OO1, OO2 |
| 17 | Participation of UA stakeholders in relevant to EU/Euratom events, workshops, seminars, trainings, etc (national& international) | 65    | SO4           | OO2      |
| 18 | NURECAB web-site                                                                                                                 | 1     | SO4, SO6      | OO2      |
| 19 | NCP web-site support                                                                                                             | 1     | SO4, SO6      | OO2      |
| 20 | NURECAB social media (Facebook, LinkedIn)                                                                                        | 2     |               |          |
| 21 | NCP Social media (Facebook, LinkedIn)                                                                                            | 2     | SO4, SO6      | OO2      |
| 22 | NURECAB and UA Euratom NCP project newsletters                                                                                   | 5     | SO4, SO6      | OO2      |
| 24 | Euratom Info Day                                                                                                                 | 1     | SO4, SO6      | OO2      |
| 25 | UA Euratom NCP regular workshops                                                                                                 | 1     | SO4, SO6      | OO2      |
| 26 | Trainings for UA stakeholders/attendees                                                                                          | 4/60+ | SO4, SO6      | OO2      |
| 27 | Trainings for NCP staff (on-line + in person)                                                                                    | 2+2   | SO5           | OO2      |
| 28 | NCP participation in EU NCPs and Horizon Europe webinars and workshops                                                           | 5     | SO4, SO5      | OO2      |

To ensure appropriate implementation of the project in relation to effective project monitoring, coordination and achievement of specific objectives including broadening the impact of project, it is planned the following operational objectives:

**OpO1: Efficient project coordination, monitoring and administration**

to keep project schedule on deliverables, milestones and objectives through the arrangement of project meetings, internal periodic reporting, communication with EC and project technical and financial reporting.

**OpO2: Ensuring transparent procedures for consortium decision making**

to establish and implement the government system of project for transparent process of consortium decision making

**OpO3: Promotion project results and enlarging the impact**

to identify and support opportunities for exploitation of project results and broadening their impact through the DEC events, tools and practices

#§PRJ-OBJ-PO§#

**1.2 Coordination and/or support measures and methodology #@CON-MET-CM@# #@COM-PLE-CP@#**

NURECAB project is devoted to EU-UA research and education capacity building by providing activities for support and improvement of Ukrainian nuclear education and training programme and integration of Ukrainian nuclear research and education entities and their infrastructure into the Euratom Programme. Here we present the description and explanation of concepts and assumptions based on which the work will be organized and implemented in order to reach the objectives of the project.

There are two main parts of the project implementation related to overall objectives of the project.

Part1: The overall idea to reach the OO1 including specific objectives (SO 1-3) based on engagement of Ukrainian and European stakeholders to make an impact on improvement of nuclear education and training programme in Ukraine and support of high-level nuclear education and training, knowledge management and competences in Ukraine. The following concept lines will be taken into account:

(i) Nuclear education and training programme should be in close contact with End Users to be in line with current or anticipated the nuclear sector needs to ensure safely operation of nuclear installations and further development of nuclear sector;

Methodologies to cover concept line (i) are based on study of gaps between current education and training programme and nuclear sector needs for different types of End Users\* (google form questionnaires, surveys during project events, interviews of individuals), development of recommendations and their opened discussion to use them for plan on improvement of nuclear education and training programme via advancing/development new courses based on Universities' methodologies for integration of courses into educational process in period of project implementation and beyond its duration.

(\*In this case, End Users means employers for students graduated UA Universities)

(ii) Regular nuclear trainings for Universities teaching and research staff and advancing nuclear education courses are drivers for improvement of the quality of education and training programme;

Methodologies to cover concept line (ii) are based on results of study for identification of UA Universities' teaching and research staff needs in strengthening their knowledge and competences, development of specific courses for staff of UA Universities with help of UA End Users experts and applying for European opportunities on staff training.

(iii) Young generation attraction is a key element of sustainability of nuclear education and training system as well as knowledge and competences transfer from older generation to younger generation;

Methodologies to cover concept line (iii) are based on differentiation of young generation (YG) to schoolers and students, organization of events to attract schoolers to nuclear education, organization of events to involve students to research and engineering in nuclear sector, support of activity for integration of young generation into European nuclear young generation community, providing survey (google form questionnaires, surveys during project events, interviews of individuals) among UA YG and NYG to make recommendations for development of NYG capacity building and integration.

Part2: The overall idea to reach the OO2 including specific objectives (SO 4-6) based on improvement of UA stakeholders' competences and knowledge of Euratom/Horizon Europe and boosting of networking between Ukrainian and European nuclear sector stakeholders to make an impact on deeper integration of UA nuclear research entities/their research infrastructure into the Euratom Programme. The following concept lines will be taken into account:

(iv) Regular and more representative participation of UA stakeholders in Euratom Programme events;

Methodologies to cover concept line (iv) is based on support of UA stakeholders participation at the EU/Euratom programme and projects' events (brokerage events, forums, seminars, trainings, workshops, conferences, meetings, webinars, etc), creation of database for Euratom projects open access events via bridging the links between NURECAB project and on-going Euratom projects, deeper communications with EU/Euratom nuclear research and education integrators like ENEN, SNETP, etc.

(v) UA Euratom audience permanent access to information about Euratom Research and Training Programme, Euratom projects and their opportunities, events and initiatives;

Methodologies to cover concept line (v) is based on support and development of communication and dissemination tools (project website, NCP website, social media for UA and EU audience, hard and e-promo materials, newsletters), identification and usage the best practices, arrangement of events for raising awareness about the Euratom Programme and its opportunities, events, initiatives and projects.

(vi) Sharing and broadening the knowledge and competences concerning Euratom Programme participation among UA stakeholders;

Methodologies to cover concept line (vi) is based on improving knowledge and competences of UA Euratom NCP staff and sharing their knowledge and experience to educate UA stakeholders via arrangement of trainings and webinars, providing survey for identification of UA stakeholders needs, attraction the UA and EU experts to share their knowledge and competences.

## **Other coordination and support measures**

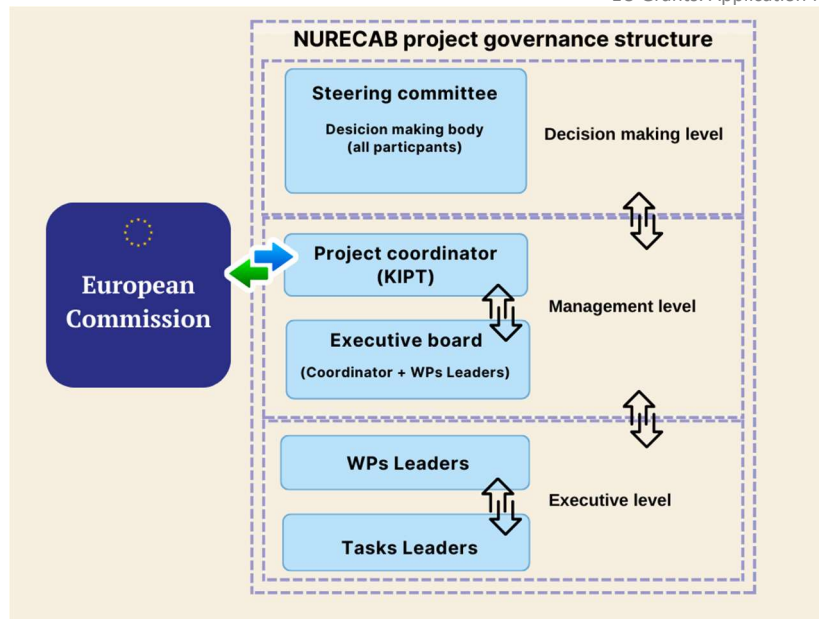
### **NURECAB consortium composition**

NURECAB consortium participants represent different types of nuclear sector entities including 5 Ukrainian Universities as representatives of nuclear education sector, nuclear research center as representative of National Academy of Sciences of Ukraine and host of Ukrainian National Contact Point to Euratom, Ukrainian NPPs operator and two NGOs which are network organizations, one is from European Union (European Nuclear Education Network) and another one is from Ukraine (Ukrainian Nuclear Society).

This project composition allows having a complex view on education and training programme in Ukraine and integrating UA and EU nuclear community to networking to develop more efficient collaboration.

### **Governance of project**

The following governance structure is planned to be established for project implementation and decision-making process.



**Fig. 1.2.1** NURECAB project governance structure

There are three levels of NURECAB management that involve all consortium members: executive, management and decision-making levels.

*Executive level.* The WP leaders and Task Leaders within this level are responsible for carrying out all activities and tasks as described in the NURECAB work packages, keeping close contact with the partners involved in specific tasks and WPs.

*The Project Coordinator.* The Project Coordinator acts as primary contact for the European Commission. It will be the primary contact point for work package leaders during the life of the project.

*The Executive board.* The Executive board will meet once a month (virtually) and will include the Project Coordinator and Work Package Leaders. The role of the Executive board is to ensure the successful implementation of all aspects of the project work plan and to formulate the overall strategy and development of the project, which is proposed to the Steering Committee for discussion and decision.

*Steering Committee.* The Steering Committee is the main decision-making body of the project. The Steering Committee will meet every year or if needed the meetings will be arranged during planned events for strategic decisions adoption. In its meetings, the Steering Committee will discuss the state of execution of the project's work packages and underlying tasks; identify and tackle major risks by implementing and refining over time the risk mitigation and management plan, discussion of major events and DEC activities. The first meeting of the Steering Committee will take place during the kick-off meeting.

### Work package structure

There are 6 work packages (WP) that is planned to reach the NURECAB objectives.

*WP1. Nuclear Education Enhancement: Identifying Gaps and Strengthening Pathways.*

This work package is focused on analyses of education and training programme and advancing of nuclear education courses. It is to achieve the NURECAB SO1, SO2.

*WP2. Staff training for UA Euratom Stakeholders*

This work package is devoted to training of Universities teaching and research staff in the identified areas of nuclear field, trainings for Euratom NCP staff and Ukrainian stakeholders in the different issues of Euratom/Horizon Europe Programmes. It is to achieve the NURECAB SO1, SO2, SO5.

*WP3. Strengthening national and international cooperation*

This work package is focused on tasks for deeper integration of research and education community into European research area in the nuclear field. It is to achieve the NURECAB SO1, SO2, SO3, SO4.

*WP4. Capacity building of youth*

This work package is for attraction of young generation and their integration into nuclear education, research, engineering and innovation. It is to achieve the NURECAB SO3, SO4, SO6.

*WP5. Communication, dissemination and exploitation*

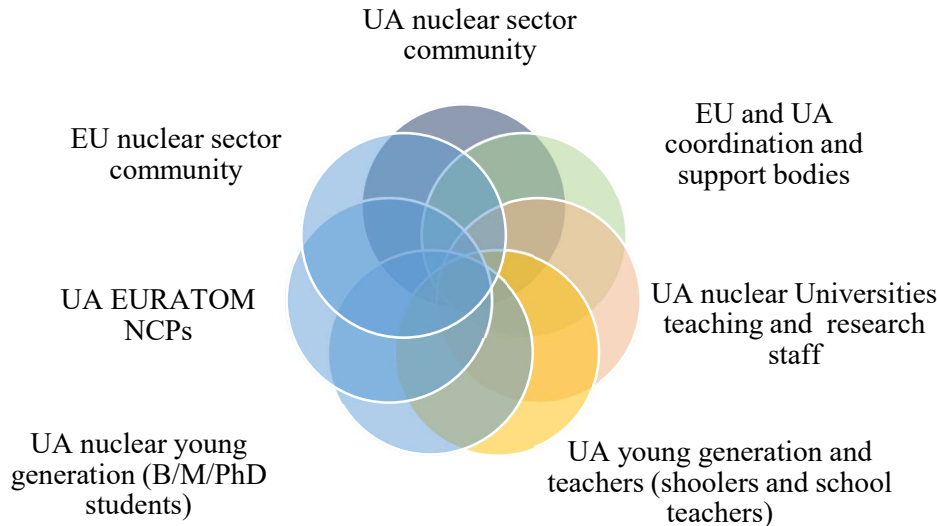
This work package is for raising awareness about Euratom Programme, NURECAB results and maximize their impact. It is to achieve the NURECAB SO6, OpO3.

**WP6. Project management and coordination**

This work package is for effective implementation of the project. It is to support achievement specific objectives of the project and reach the operational objectives of the NURECAB OpO1, OpO2, OpO3.

**NURECAB audience**

NURECAB CSA target audience is represented below



**Fig.1.2.2** NURECAB target audience

According to NURECAB specific objectives, a huge part of the project activity will be focused on nuclear sector community with pay attention to young generation audience. Another part of activities will be targeted on integration of Ukrainian nuclear sector community into European research area related to EU/Euratom nuclear field. It will be supported by UA Euratom NCP with engagement to communication and dissemination activities the UA and EU coordination and support bodies (EU Euratom NCPs, Ministry of Education and Science of Ukraine, National Academy of Sciences of Ukraine, Euratom Programme representatives, Horizon Europe Office in Ukraine, etc). NURECAB CSA non-target but important audience is non-nuclear research and education community, UA and EU citizens that is planned to be covered by communication tools and practices of the project.

**Euratom Programme on-going projects synergy and exploitation of experience and results of finished projects**

NURECAB is planned to exploit the results of finished actions and cooperate with on-going Euratom Programme projects dedicated to education and training in the areas of fission and fusion research.

**Table 1.2.3.** –Euratom projects that will be taken into account during NURECAB implementation

| Acronym        | Period    | Type                                 | Status                   | Synergy / Relevant experience                                                                                                                                                                                                                                                                                     |
|----------------|-----------|--------------------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| U1.05/10       |           | European Union's INSC Programme 2010 | Finished                 | Licensing and exploitation the software of Automated Computer Aided Training and Knowledge Control System in the area of nuclear and radiation safety (ASKO) (usage ASKO software for UA nuclear Universities and cooperation with ENERGOATOM for mutual improvement of nuclear education and training programme) |
| UAIinEuratom   | 2018-2020 | CSA                                  | Finished                 | Exploitation of communication and dissemination tools and practices established in finished project. Use of NCP knowledge and competences for arrangement of further trainings                                                                                                                                    |
| UAIinEuratom21 | 2022-2024 | CSA                                  | will be finished in 2024 | Exploitation of communication and dissemination tools and practices established in finished project Use of NCP knowledge and competences for arrangement of further trainings                                                                                                                                     |
| NetEuratom     | 2022-2027 | CSA                                  | On-going                 | Participation in project events for Euratom NCPs audience                                                                                                                                                                                                                                                         |

|            |                                |             |                             |                                                                                                                                                                                                                                                                                                        |
|------------|--------------------------------|-------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENEN2plus  | 2022-2026                      | CSA         | On-going                    | It is expected to communicate and participate in project events and project mobility programme for researchers and students.<br>Enhancing nuclear knowledge and competences.<br>Better integration of UA stakeholders into the Euratom Programme<br>Attraction of young generation to fission research |
| HEOinUA    | 2023-2026                      | CSA         | On-going                    | It is expected to communicate and participate in project events and trainings.                                                                                                                                                                                                                         |
| EURAD-2    | Expected to be started in 2024 | Partnership | Submitted under WP2023-2025 | It is expected to communicate and participate in project opened webinars as well as in education and training events, Enhancing nuclear knowledge and competences. Better integration of UA stakeholders into the Euratom Programme                                                                    |
| CONNECT-NM | Expected to be started in 2024 | Partnership | Submitted under WP2023-2025 |                                                                                                                                                                                                                                                                                                        |
| EUROfusion | 2021-2025                      | Partnership | On-going                    | It is expected to communicate and participate in project opened webinars as well as in education and training activities designed to broaden UA participation in fusion education and research<br>Attraction of young generation to fusion research                                                    |
| PIANOFORTE | 2022-2027                      | Partnership | On-going                    | It is expected to communicate and participate in project opened webinars and project opened calls<br>Better integration of UA stakeholders to Euratom Programme as well as in education and training activities                                                                                        |

### Open Science

The project will be opened mostly concerning the project deliverables and outputs. Openly accessible data will be demonstrated on the NURECAB and UA Euratom NCP websites as well as will be spreaded via press releases in social media and on partners websites. Communication and Dissemination activity assume sharing data with experts and wide audience to make the project collected and generated data opened and accessible.

The project is not intended to generate research data (scientific articles or equivalent publications). However, it is possible that some material will be stored in a Zenodo repository or equivalent, following the principle of "open as much as possible, closed as much as necessary", according to the procedure that will be defined in the Data Management Plan.

### Data management

Data management will be important part of the project implementation. The project will be involved in collection and generation of several types of data:

**Observational Data:** data associated with studies related to education and training programme in Ukraine, young generation capacity building and integration to European research area;

**Personal data:** collected, processed and protected data regarding participants attended different NURECAB events. Collection and processing will be carried out in compliance with national legislation and the General Data Protection Regulation including Chapter V of the GDPR 2016/679 as a confirmation that transfers of personal data from the EU to a non-EU country or international organisation is in accordance with Chapter V of the General Data Protection Regulation 2016/679;

**Images:** visual materials (video records and pictures) that will be made during NURECAB events and trainings;

**Text data:** Content such as data including promotional materials, website and social media post, materials of developed trainings and courses, internal management documents, project results documents.

The NURECAB data management will be executed in line with FAIR principles (Findable, Accessible, Interoperable, Reusable). Data Management Plan (DMP) will be prepared to describe the data management methods, especially to describe how the data will be generated, processed, collected, stored and documented. The Data Management Plan includes also a description of methodology and standards to be followed and what data sets are exploitable or made accessible for verification and reuse. The DMP will be a dynamic tool that is updated regularly.

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## 2. Impact

### 2.1 Project's pathways towards impact

NURECAB ambition is to support further integration of UA nuclear research community to European research networking and Euratom research and training Programme with paying attention to improvement of Ukrainian education and training academic framework for human capacity building and ensuring safe operation of Ukrainian nuclear installations and inclusive collaboration in the fission and fusion.

The ambition will be supported by the project results in the short period of time (the period of project implementation). The medium-term outcomes will be based on generated by the project dissemination activity and exploitation of knowledge, developed/updated courses and trainings, improved competences and skills, enhanced UA-EU nuclear research and education collaboration and networking. It is expected that the project impact will be in academic, organizational and culture areas.

Towards the project expected impact, NURECAB project will contribute to the following expected outcomes (EO):

- (i) increasing the quality of nuclear education and training programmes in Ukraine to ensure safe operation of Ukrainian nuclear installations and development of fission and fusion research,
- (ii) human capital strengthening in the area of nuclear education in Ukraine,
- (iii) better integration of Ukrainian research entities into EU/Euratom research and training programme and nuclear research networks.

*Table 2.1.1. NURECAB project expected outcomes*

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>EO1</b>                     | <b>increasing the quality of nuclear education and training programmes in Ukraine to ensure safe operation of Ukrainian nuclear installations and development of fission and fusion research</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathways to achieve EO1</b> | <p>The improvement of Ukrainian education and training academic framework that ensure safe operation of Ukrainian nuclear installations and development of fission and fusion research is a component of NURECAB ambition.</p> <p>T.1.1. (WP1) will provide the study addressed gaps/deficiencies in the range of nuclear energy courses currently offered to bachelor's/master's level students at Ukrainian Universities providing education in nuclear sciences, technology and industry, considering the actual and anticipated needs for qualified personnel for nuclear industry and nuclear research in Ukraine. All the findings will be discussed with project stakeholders (WP3) and they are planned to be co-validated during project specific exploitation workshop (WP5) presented the results of the study. As result, recommendation for improvement of Ukrainian nuclear education courses will be developed as well as needs for Universities teaching and research staff trainings will be identified. Trainings for Universities teaching and research staff will be provided under WP2 and used for development of new/updated nuclear education courses.</p> <p>T1.2 (WP1) will be devoted to creation of new nuclear education courses / updating existing courses based on the recommendations provided by T.1.1. and will be focused on reducing the gaps between nuclear education and training programme and nuclear sector needs. The courses will be integrated to the educational programme of Universities during the project and will be exploitable beyond the project.</p> <p>It is expected that deeper cooperation between UA Universities and SE NNEGC ENERGOATOM within WP1, WP2. It is expected to integrate ENERGOATOM corporate e-learning system «ASKO» into nuclear education programme of UA nuclear Universities and for further improvement of existing e-learning modules during the project implementation and beyond. It will serve as a place of closer cooperation between industry and education, discussion of education and training needs for UA NPPs operator, creation of new courses and trainings leading to improvement of education quality at the UA nuclear Universities.</p> |
| <b>Related objectives</b>      | OO1, SO1, SO2, OpO3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Related WPs</b>             | WP1, WP2, WP3, WP5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Expected results</b>        | Study of the knowledge gaps between the existing education programmes and needs of nuclear sector in Ukraine will be done. Overall and specific recommendations will be developed for improvement of nuclear education and training programme in the Ukrainian Universities. New nuclear education courses / updating existing courses will be developed and integrated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Target audience</b>         | UA nuclear sector community, EU nuclear sector community<br>(nuclear education, research and industry community)<br>UA Universities teaching and research staff                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related KPIs</b> | <p>Updated courses/ new developed courses – 10</p> <p>Overall recommendations for quality improvement of nuclear education and training programme in Ukraine - 1</p> <p>List of nuclear education courses - 1</p> <p>List of nuclear trainings for Universities teaching and research staff- 1</p> <p>Integration of ENERGOATOM corporate e-learning system to 1 UA nuclear University - 1</p> |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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| <b>EO2</b>                     | <b>Human capital strengthening in the area of nuclear education in Ukraine</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Pathways to achieve EO2</b> | <p>NURECAB project supports the activities for human capital development in the area of Ukrainian nuclear education and training that is needed to ensure safe operation of Ukrainian nuclear installations and development of fission and fusion research in future.</p> <p>The UA nuclear education Universities are in the focus of these activities within implementation of the tasks targeted to Universities teaching and research staff, nuclear young generation (B/M students and PhD students) and audience of future entrants (schoolers) and secondary schools' teachers of physics.</p> <p>T 2.1 (WP2) is to strengthen nuclear knowledge and competences of Universities teaching and research staff that will be used under the project implementation and beyond the project period. On the one hand, it is about improvement of nuclear education quality. On the other hand, it leads to human capital development of Ukrainian nuclear education Universities.</p> <p>Europe started to enhance their expertise in the nuclear field via establishing a number of educational and vocational programmes, promotion of nuclear education and attraction young generation to nuclear field in particular. Ukraine needs the same actions to young generation capacity building. T 4.1. (WP4) is to provide activities for attraction of young talents to the nuclear field and promotion of nuclear education in Ukraine. The NURECAB events will strengthen the efforts of Ukrainian nuclear sector to attract young people to nuclear education and enhance competences of nuclear young generation via deeper integration in nuclear research and European nuclear young generation community, T4.2.(WP4). Nuclear Young Generation (NYG) capacity building and integration recommendations will be developed and will be used for further development of young generation capacity beyond the project.</p> |
| <b>Related objectives</b>      | OO1, SO3, SO5, OpO3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Related WPs</b>             | WP2, WP4, WP5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Expected results</b>        | <p>Enhance of knowledge and competences of Universities teaching and research staff by trainings</p> <p>Promotion of nuclear education among secondary school audience by specific events</p> <p>Strengthening nuclear young generation capacity and NYG integration into European community via specific events and mobility</p> <p>NYG capacity building and integration recommendations</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Target audience</b>         | <p>Teaching and research staff of UA nuclear education Universities</p> <p>B/M students, PhD students of the Ukrainian nuclear education Universities</p> <p>UA secondary schoolers and teachers</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Related KPIs</b>            | <p>Number of Universities teaching and research trained staff – at least 45</p> <p>NURECAB events for NYG capacity building - 12</p> <p>Universities activity for young generation – 15+</p> <p>Website (Guidebook for entrants of nuclear education in UA) - 1</p> <p>Mobility for PhD students of beneficiaries (national and international) – 12</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| <b>EO3</b>                     | <b>Better integration of Ukrainian research entities into EU/Euratom Research and Training Programme and nuclear research networks</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pathways to achieve EO3</b> | <p>Better integration of Ukrainian research entities into EU/Euratom research and training programme and nuclear research networks means activities for realisation of the full potential of Ukrainian research entities and infrastructures, and research programmes in a European framework that covers specific areas of the Euratom Research and Training Programme, further development of cooperation to improve the UA entities and their researchers participation in co-funded Euratom research and training activities, thereby enabling broader, more efficient and inclusive collaboration in the nuclear field.</p> <p>WP3 activities will provide opportunities for deeper communication between Ukrainian and</p> |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                           | European community relevant to Euratom programme. Within the NURECAB project, it is planned to support attendance of the EU/Euratom programme/projects/initiatives events, as well as arrangement of the ENEN-Ukraine Working Group meetings dedicated to better integration of Ukrainian research entities into Euratom research and training programme and EU nuclear research networks. The Ukrainian NCP to Euratom will be involved in organization of trainings for Ukrainian nuclear sector community (WP2: T2.3.) for improvement of their knowledge and competences in the areas of Euratom Programme and initiatives. The European initiatives for nuclear young generation will be wider presented to Ukrainian NYG under WP4 (T4.1.). Opportunities to attend EU NYG events and built new links among young researchers will be provided. The integration of Ukrainian research entities into Euratom Programme will be one of the topics of NURECAB workshops. Recommendations on integration of Ukrainian entities into Euratom Research and Training Programme and UA NYG integration to European research and education community will be developed as results of attendance of Euratom relevant events and DEC activities under WP5 (T5.2.). All these activities allow increasing the scope of contacts and knowledge for further integration of UA researchers and research infrastructure into EU/Euratom nuclear research. |
| <b>Related objectives</b> | OO2, SO4, SO5, SO6, OpO3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Related WPs</b>        | WP2, WP3, WP5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Expected results</b>   | Access to wider communication of Ukrainian nuclear sector community (with deeper attention to UA nuclear education Universities including UA NYG) with European nuclear community will be provided. There are following guides planned to be provided: (i) recommendations for integration of Ukrainian entities into Euratom research and training programme, (ii) recommendations for YNG integration into European research and education community. Representatives of Ukrainian nuclear sector community will get an opportunity to strengthen their knowledge in Euratom (Horizon Europe) programme issues and be more ready to further participation and integration into Euratom Research and Training Programme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Targeted audience</b>  | Ukrainian nuclear sector community<br>UA Euratom NCP<br>EU nuclear sector community<br>UA NYG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Related KPIs</b>       | Participation of UA stakeholders in relevant to EU/Euratom events, workshops, seminars, trainings, etc – 65<br>ENEN – Ukraine on-line/hybrid workshops in Ukraine - 4<br>ENEN – Ukraine working Group meetings in EU – 3<br>Trainings for UA nuclear sector community – 4 (60+ attendees)<br>Trainings for UA Euratom NCP - 4<br>Mobility Manual – 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### NUREAB project will lead to the following impacts:

#### Academic

(results of study, development of nuclear education courses and staff training will lead to impact on academic area)  
 The list of the identified courses, overall recommendations and specific recommendations for Universities (project beneficiaries) will be used as a base for further improvement of Ukrainian nuclear education and training programme and its quality to ensure safe operation of Ukrainian nuclear installations and contribute to development of fission and fusion research through better nuclear knowledge and capabilities.

#### Organizational

(staff training and networking including nuclear young generation networking, deeper collaboration with UA NPPs operator will lead to impact on human resource development of Universities and among UA Euratom programme stakeholders, improvement of Universities cooperation with End Users as an organizational aspect)

The list of trainings for Universities teaching and research staff, trainings provided for Universities staff within the NURECAB project with attraction of UA NPPs operator and EU/UA research and education entities, provided national and international networking will lead to the human resources development at nuclear education Universities. Trainings for Ukrainian stakeholders in the area of Euratom (Horizon Europe) programme and support

of Euratom calls applicants will enhance their abilities for integration to European research area in the field of nuclear research and education and will facilitate their participation in Euratom programme in future.

Improved skills and competences of Ukrainian National Contact Point to Euratom, created and supported NCP tools for communication and dissemination will enhance the UA Euratom NCP activities as a national structure unit for support of Ukrainian entities and their staff on the root of integration to European nuclear research and education networking and Euratom programme projects and initiatives.

The NURECAB project will strengthen the activities for attraction of young generation to ensure the interest to nuclear sector among young people to be entrants of UA nuclear Universities and employees of UA nuclear sector entities that will ensure sustainable operation and development of nuclear sector in Ukraine.

### **Culture**

(support of EU-UA networking, regular information about Euratom programme, on-going projects events and initiatives, improvement of UA stakeholders' competences and skills will lead to impact on culture)

The drivers of impact on culture are awareness campaign of the UA Euratom NCP concerning Euratom programme, NCP & ENEN activities for EU-UA networking improvement in the field of nuclear research and education, trainings for UA stakeholders, improvement of NCP services and tools, communication activity. Deeper understanding of Euratom research programme terms and conditions together with better EU-UA networking and more accessible information and support system will motivate UA stakeholders to apply more efforts for participation in Euratom Research and Training Programme and integration into European nuclear community.

### **Barriers to impact**

The barriers to impact of NURECAB are mostly related to the further national support of permanent improvement of nuclear education and training programme at UA nuclear Universities and University staff training, opportunities for closer international networking. The project outcomes will diminish these barriers via better integration of UA nuclear education Universities into European networking and Euratom programme. The wider participation of UA entities in Euratom programme and EU international initiatives will lead to knowledge and competences improvement among UA entities staff. There are a lot of attention to NYG provided by the EU stakeholders and the Euratom Programme initiatives will be a part of support for UA young researchers and engineers knowledge and competences improvement and carrier development. They will be identified and used for UA YG capacity building out of the project duration. One more driver for decreasing barriers is further development of cooperation and dialog with industry.

## **2.2 Measures to maximise impact - Dissemination, exploitation and communication #@COM-DIS-VIS-CDV@#**

Dissemination, exploitation and communication (DEC) is one of the important parts of the NURECAB project that will be implemented within separate Work Package (WP5). The DEC plan will be developed and presented more precisely in M6 and it will be updated during the project implementation.

To make DEC of the project more recognizable the creation of visual identity for NURECAB project will be done. The map of NURECAB target audience has been categorized and includes the following:

- UA nuclear University teaching and research staff,
- UA nuclear sector community,
- EU nuclear research and education community,
- UA nuclear education students (B/M/PhD students),
- Secondary schoolers,
- Secondary school teachers.

There are project audience categories that identified as important and should be taken into account during DEC activity. They are representatives of UA authority relevant to nuclear research, education and innovation, Euratom authority. It is expected that the general public will be in a focus of communication activity to demonstrate and explain to wider audience the project results and how EU funding for NURECAB project contributes to the challenges in nuclear research and education area and relation to our current and future every days life.

### **2.2.1 Dissemination and exploitation of results**

NURECAB dissemination activity will be implemented via regular meetings and workshops:

- Presenting NURECAB plans and results at project meetings,
- Presenting the results of the NURECAB project at the Annual Euratom NCP in Ukraine workshops
- Presenting the NURECAB results at the Euratom info Day in Ukraine
- Presenting the project results on international nuclear conferences and meetings

NURECAB dissemination activities will include actions listed in the table below that are targeted to different categories of the project audience.

**Table 2.2.1 NURECAB dissemination activities**

| Dissemination tool                                        | Target audience                                                                                                                                                               | Time & Location       | KPI, pers*events |
|-----------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|------------------|
| NURECAB kick-off and final meetings                       | UA nuclear sector community, UA nuclear University teaching and research staff, EU nuclear research and education community                                                   | 2024, 2026<br>Ukraine | 70p*2events      |
| NURECAB workshops (WP3)                                   | UA nuclear sector community, UA nuclear University teaching and research staff, EU nuclear research and education community, UA nuclear education students (B/M/PhD students) | 2024, 2025, 2026      | 50p*3events      |
| NURECAB ENEN – Ukraine meetings (WP3)                     | UA nuclear sector community, UA nuclear University teaching and research staff, EU nuclear research and education community                                                   | 2025, 2026            | 30p*3events      |
| NURECAB exploitation workshops (WP5)                      | UA nuclear sector community, UA nuclear University teaching and research staff, EU nuclear research and education community                                                   | 2025, 2026            | 50p*3 events     |
| International nuclear conferences (WP3, WP5)              | UA and EU nuclear sector communities                                                                                                                                          | 2024, 2025, 2026      | 70p*4+ events    |
| NYG events for students (WP4)                             | UA nuclear University teaching and research staff, UA nuclear sector community, UA nuclear education students (B/M/PhD students)                                              | 2025, 2026            | 50p*3events      |
| NYG events for teachers (WP4)                             | UA nuclear University teaching and research staff, UA nuclear sector community, Secondary school teachers                                                                     | 2025, 2026            | 40p*5 events     |
| Annual workshop of the Euratom NCP in Ukraine (WP5)       | UA nuclear sector community, EU nuclear research and education community, UA nuclear University teaching and research staff, UA nuclear education students (B/M/PhD students) | 2025                  | 50p              |
| Euratom info Day in Ukraine (WP5)                         | UA nuclear University teaching and research staff, UA nuclear sector community, EU nuclear research and education community, UA nuclear education students (B/M/PhD students) | 2026                  | 80p              |
| Trainings for Ukrainian stakeholders of Euratom Programme | UA nuclear University teaching and research staff, UA nuclear sector community, UA nuclear education students (B/M/PhD students)                                              | 2025, 2026            | 15p*4trainings   |
| Euratom NCP Newsletter (WP5)                              | All interested parties                                                                                                                                                        | 2025, 2026            | At least 1000p   |
| NURECAB newsletter (WP5)                                  | All interested parties                                                                                                                                                        | 2024, 2025, 2026      | At least 1000p   |

**2.2.2. NURECAB communication**

Communication activities will be integrated to the DEC plan and will use the NURECAB project identity for demonstrating the results of the project reaching wider audience, including large public. The project communication tools and targets are listed in the table below.

**Table 2.2.2 NURECAB project communication activities**

| Communication tool                          | Activities                                                                                                                                                                                      |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NURECAB project identity                    | Development of designs for project logo, presentation template, deliverable template, letterhead, document template, project folder, notebook, pen, newsletters and other information materials |
| NURECAB Website                             | Website development and maintenance                                                                                                                                                             |
| UA Euratom NCP website                      | Website maintenance                                                                                                                                                                             |
| Friendly websites (Consortium members, NAS) | Posting on friendly websites of NURECAB info materials                                                                                                                                          |

|                                  |                                                                                                                            |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------|
| of Ukraine, MES of Ukraine, etc) |                                                                                                                            |
| NURECAB Facebook page            | Creation a page for NURECAB project. Posting NURECAB info materials in Facebook for UA audience mostly                     |
| UA Euratom NCP Facebook page     | Posting NURECAB and UA NCP Euratom info materials in Facebook for UA audience mostly                                       |
| NURECAB LinkedIn page            | Creation a page for NURECAB project. Posting NURECAB info materials in LinkedIn for EU audience mostly                     |
| UA Euratom NCP LinkedIn page     | Posting NURECAB and UA NCP Euratom info materials in LinkedIn for EU audience mostly                                       |
| Project roll-up                  | Presentation of project at the NURECAB hybrid / in-person events or events with NURECAB representative participation       |
| Project flyer                    | Presentation of project at the NURECAB hybrid / in-person events or events with NURECAB representative participation       |
| E - Project roll-up              | Presentation of project at the NURECAB hybrid / on-line events or on-line events with NURECAB representative participation |
| E - Project flyer                | Presentation of project via e-mailing and posts on Websites and Social media                                               |

### 2.2.3. NURECAB knowledge and intellectual property management

NURECAB WPs deal with the knowledge generation, gathering and interpretation into new/updated nuclear education courses directed to Ukrainian nuclear education Universities and their staff or UA Euratom NCP trainings for UA nuclear sector community. The knowledge and intellectual property management will be part of project management activity within responsibility of NURECAB Executive board (WP6). The management of knowledge as the process of identifying, organizing, storing and disseminating information within the project will be part of the project data management plan.

IPR issues, including description of background and access to the rights of IP background and rules related to the new IP generated within the project will be a part of Consortium agreement (CA). The CA will be signed at the start of project between all participants of the NURECAB consortium. The DESCA model of CA will be used for preparation of NURECAB CA and will be circulated between participants before the start of CA preparation to ensuring better understanding of CA content.

The results generated by participants (Beneficiaries/Affiliated Entities) of the NURECAB consortium will be the property of the NURECAB project participants (Beneficiaries/Affiliated Entities) which generate the IP. Each participant will make a decision how to protect the rights and how to exploit IP outside their organization (in case of several participants that generated IP it shall be a group decision between participants which generated IP). It is expected that the most of possible NURECAB IP will be copyrights (new courses and trainings). The copyright of each Party remains with the author/the Party. Authors shall always have the right to be acknowledged for their authorship.

#§COM-DIS-VIS-CDV§#

## 2.3 Summary

### KEY ELEMENT OF THE IMPACT SECTION

| SPECIFIC NEEDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | EXPECTED RESULTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | D & E & C MEASURES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>To preserve the pre-invasion level of nuclear education and training in the country and support of high-level nuclear education and training, knowledge management and competences in Ukraine</p> <p>To cover the country's nuclear education and training human capital needs with adequate knowledge</p> <p>To integrate Ukrainian research entities into EU/Euratom nuclear research networks and vice versa with realisation of the full potential of Ukrainian research entities and infrastructures, and research programmes in a European framework that covers specific areas of the Euratom Research and Training Programme</p> | <ul style="list-style-type: none"> <li>• Improved nuclear education quality based on 10 new/updated nuclear education courses of UA nuclear education Universities and recommendations for further improvement of nuclear education courses of Universities,</li> <li>• Trained nuclear education teaching and research staff in the field of nuclear fission and fusion</li> <li>• Trained UA nuclear research community representatives in knowledge, skills and best practices of Euratom and Horizon Europe Programmes</li> <li>• Trained UA Euratom NCP staff to support integration of UA entities into Euratom Programme</li> <li>• Supported activities of UA nuclear young generation capacity building for sustainability of UA nuclear sector operation</li> <li>• Supported access to EU/Euratom relevant nuclear education and research events</li> <li>• Strengthened education and training cooperation between UA nuclear Universities and UA nuclear sector End Users</li> </ul> | <ul style="list-style-type: none"> <li>• NURECAB web site and UA Euratom NCP web site</li> <li>• NURECAB and UA Euratom NCP social media (Facebook, LinkedIn)</li> <li>• 5 NURECAB and UA Euratom NCP newsletters</li> <li>• NURECAB and UA Euratom NCP promo materials</li> <li>• 2 NURECAB annual meetings (kick-off&amp;final)</li> <li>• 3 workshops of UA-EU nuclear research community</li> <li>• 4 UA – ENEN meetings and webinars</li> <li>• 4+ International nuclear conferences</li> <li>• 12 events for NYG</li> <li>• 5 UA Fission&amp;Fusion teacher Day</li> <li>• 15+ local meeting with schoolers/potential entrants</li> <li>• 1 web site (Guidebook for entrants of nuclear education in UA)</li> <li>• 10 international/national travels for PhD students</li> <li>• 65 participation of UA stakeholders in relevant to EU/Euratom events, workshops, seminars, trainings, etc (national&amp; international)</li> <li>• 1 UA Euratom NCP regular workshop</li> <li>• 1 Euratom Info Day in Ukraine</li> <li>• 4 trainings for UA Universities teaching and research staff</li> <li>• 4 trainings for UA Euratom NCP staff</li> <li>• 1 e-learning system integrated to 1 UA University with access to other UA nuclear Universities</li> </ul> |

| TARGET GROUPS                                                                                                                                                                                                                                                            | OUTCOMES                                                                                                                                                                                                                                                                                                                                                                                                                            | IMPACTS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>UA nuclear University teaching and research staff</p> <p>UA nuclear education students (B/M/PhD students)</p> <p>UA Secondary schoolers</p> <p>UA Secondary school teachers</p> <p>UA nuclear sector community</p> <p>EU nuclear research and education community</p> | <p>increasing the quality of nuclear education and training programmes in Ukraine to ensure safe operation of Ukrainian nuclear installations and development of fission and fusion research</p> <p>human capital strengthening in the area of nuclear education and training in Ukraine</p> <p>better integration of Ukrainian research entities into EU/Euratom research and training programme and nuclear research networks</p> | <p><b>Academic</b><br/>           (results of studying, development of nuclear education courses and staff training will lead to impact on academic area)<br/>           further improvement of Ukrainian nuclear education and training programme and its quality and attractiveness of nuclear education for young generation beyond the project,</p> <p><b>Organizational</b><br/>           (staff training and networking including nuclear young generation networking will lead to impact on human resource development at the Universities and Euratom programme stakeholders as an organizational aspect)<br/>           It will facilitate UA entities participation in Euratom programme as well as support human resource development in future</p> <p><b>Culture</b><br/>           (support of EU-UA networking, integration to Euratom programme, attention to nuclear young generation and improvement of UA stakeholders' competences and skills will lead to impact on culture)<br/>           It will change UA entities attitude to opportunities provided by Euratom programme as to more understandable and realistic. Nuclear sector promotion as safe and green production and attractive area for job.</p> |

#\$IMP-ACT-IA\$#

**3. Quality and efficiency of the implementation** #@QUA-LIT-QL@# #@WRK-PLA-WP@#**3.1 Work plan and resources****Brief presentation of the overall structure of the work plan**

Project's duration is 24 months. The work plan is broken down into 6 Work Packages:

WP1 - NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS;

WP2 - STAFF TRAINING FOR UA EURATOM STAKEHOLDERS;

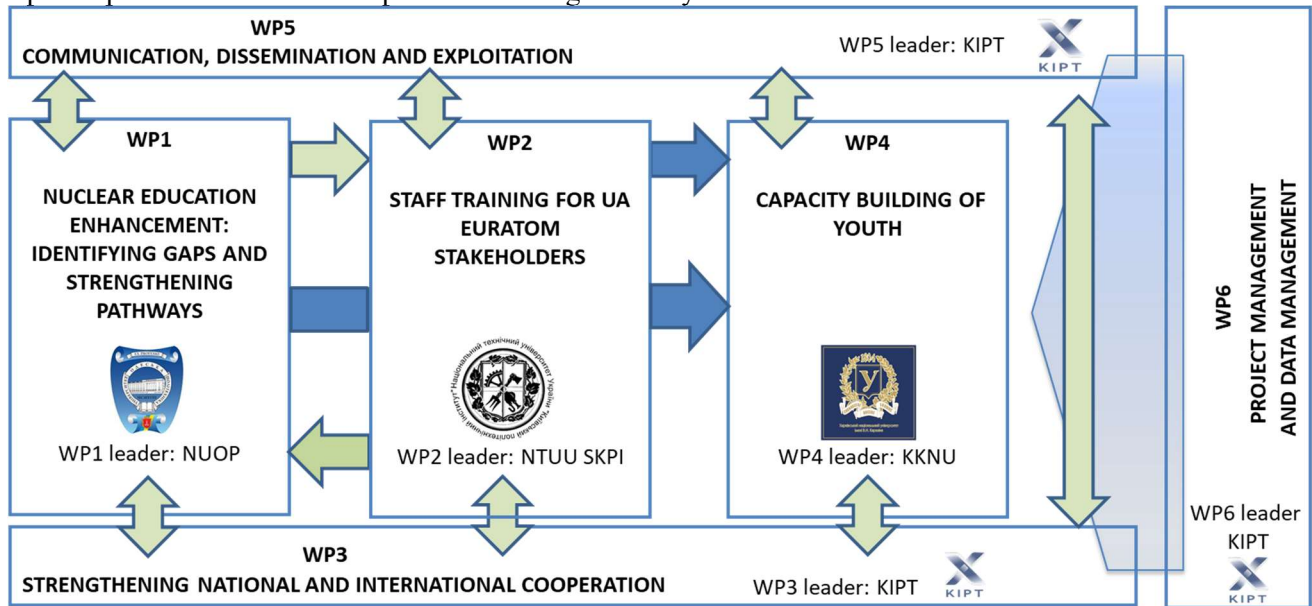
WP3 - STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION;

WP4 - CAPACITY BUILDING OF YOUTH;

WP5 - COMMUNICATION, DISSEMINATION AND EXPLOITATION;

WP6 - PROJECT MANAGEMENT AND COORDINATION.

Graphical presentation of the components showing how they inter-relate.

**Tables for section 3.1****Table 3.1a: List of work packages**

| WP No           | WP title                                                                   | Lead Part-nt No | Lead Participant Short Name | Person-Months | Start Month | End month |
|-----------------|----------------------------------------------------------------------------|-----------------|-----------------------------|---------------|-------------|-----------|
| 1               | NUCLEAR EDUCATION ENHANCEMENT: IDENTIFYING GAPS AND STRENGTHENING PATHWAYS | 7               | NUOP                        | 193.75        | 01          | 24        |
| 2               | STAFF TRAINING FOR UA EURATOM STAKEHOLDERS                                 | 8               | NTUU SKPI                   | 83.00         | 01          | 24        |
| 3               | STRENGTHENING NATIONAL AND INTERNATIONAL COOPERATION                       | 5               | KIPT                        | 42.50         | 01          | 24        |
| 4               | CAPACITY BUILDING OF YOUTH                                                 | 4               | KKNU                        | 43.50         | 01          | 24        |
| 5               | COMMUNICATION, DISSEMINATION AND EXPLOITATION                              | 1               | KIPT                        | 45.00         | 01          | 24        |
| 6               | PROJECT MANAGEMENT AND COORDINATION                                        | 1               | KIPT                        | 45.25         | 01          | 24        |
| <b>Total PM</b> |                                                                            |                 |                             | <b>453.00</b> |             |           |

**Timing of the NURECAB work packages and their components**

| NURECAB Gantt chart |                                                                                                                | Year 1 |   |      |   |   |              |              |              |   |    |    |      | Year 2 |    |    |    |      |      |    |    |    |    |    |      |
|---------------------|----------------------------------------------------------------------------------------------------------------|--------|---|------|---|---|--------------|--------------|--------------|---|----|----|------|--------|----|----|----|------|------|----|----|----|----|----|------|
|                     |                                                                                                                | 1      | 2 | 3    | 4 | 5 | 6            | 7            | 8            | 9 | 10 | 11 | 12   | 13     | 14 | 15 | 16 | 17   | 18   | 19 | 20 | 21 | 22 | 23 | 24   |
| <b>WP1.</b>         | <b>Nuclear Education Enhancement: Identifying Gaps and Strengthening Pathways</b>                              |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T1.1.               | Study of the knowledge gaps between the existing education programmes and needs of nuclear sector in Ukraine   |        |   |      |   |   | D1.1         | M1.1<br>M1.2 | D1.2         |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T1.2.               | Advancing the nuclear education courses and integrating them to the Universities' educational process          |        |   |      |   |   |              |              |              |   |    |    |      | M1.3   |    |    |    |      |      |    |    |    |    |    | D1.3 |
| <b>WP2.</b>         | <b>Staff training for UA Euratom Stakeholders</b>                                                              |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T2.1.               | Universities staff training on fission and fusion areas                                                        |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    | D2.1 |
| T2.2.               | UA Euratom NCP staff trainings                                                                                 |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    | M2.1 |      |    |    |    |    |    |      |
| T2.3.               | NCP activities on training of Ukrainian researchers in the area of Horizon Europe and Euratom programme issues |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    | D2.1 |
| <b>WP3.</b>         | <b>Strengthening national and international cooperation</b>                                                    |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T3.1.               | Access of UA researchers to key Euratom international events                                                   |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    | D3.3 |
| T3.2.               | ENEN-UA Working Group activities for integration of UA researchers to European research and education area     |        |   |      |   |   |              |              | D3.1<br>D3.2 |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| <b>WP4.</b>         | <b>Capacity building of youth</b>                                                                              |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T4.1.               | Communication tools and actions for attraction of students and schoolers to nuclear sector                     |        |   |      |   |   |              |              |              |   |    |    | D4.1 |        |    |    |    |      |      |    |    |    |    |    |      |
| T4.2.               | Mobility and research support for Master students and PhD students                                             |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    | D4.2 |
| <b>WP5.</b>         | <b>Communication, dissemination and exploitation</b>                                                           |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T5.1.               | Creation of visual identity and communication materials                                                        |        |   | D5.1 |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T5.2.               | DEC plan implementation                                                                                        |        |   |      |   |   | D5.2<br>D5.3 |              |              |   |    |    |      | M5.1   |    |    |    |      | D5.4 |    |    |    |    |    |      |
| T5.3.               | Data Management                                                                                                |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| <b>WP6.</b>         | <b>Project management and coordination</b>                                                                     |        |   |      |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T6.1.               | Reporting and quality control and monitoring of project implementation                                         |        |   | D6.1 |   |   |              |              |              |   |    |    |      | M6.1   |    |    |    |      |      |    |    |    |    |    |      |
| T6.2.               | Project internal collaboration and communication                                                               |        |   | D6.2 |   |   |              |              |              |   |    |    |      |        |    |    |    |      |      |    |    |    |    |    |      |
| T6.3.               | Administrative and financial management                                                                        |        |   |      |   |   |              |              |              |   |    |    |      | M6.1   |    |    |    |      |      |    |    |    |    |    |      |

**Table 3.1f: Summary of staff effort**

|                            | WP1           | WP2          | WP3          | WP4          | WP5          | WP6          | Total Person-Months per Participant |
|----------------------------|---------------|--------------|--------------|--------------|--------------|--------------|-------------------------------------|
| <b>01/KIPT</b>             | 15,00         | 32,00        | 14,00        | 3,00         | 23,50        | 30,00        | <b>117,50</b>                       |
| <b>02/UKRNS</b>            | 6,50          | 1,00         | 4,00         | 13,00        | 3,00         | 2,00         | <b>29,50</b>                        |
| <b>03/ENERGOATOM</b>       | 4,00          | 1,00         | 1,00         | 0,00         | 1,50         | 0,00         | <b>7,50</b>                         |
| <b>04/KKNU</b>             | 29,00         | 7,00         | 8,00         | 7,00         | 4,00         | 3,00         | <b>58,00</b>                        |
| <b>05/ENEN</b>             | 0,75          | 0,50         | 2,00         | 0,50         | 2,00         | 0,25         | <b>6,00</b>                         |
| <b>06/NTUU SKPI</b>        | 33,00         | 12,00        | 1,50         | 8,00         | 2,00         | 3,00         | <b>59,50</b>                        |
| <b>07/NUOP</b>             | 35,00         | 5,00         | 3,00         | 3,00         | 3,00         | 3,00         | <b>52,00</b>                        |
| <b>08/TSNUK</b>            | 44,50         | 17,50        | 6,00         | 5,00         | 4,00         | 3,00         | <b>80,00</b>                        |
| <b>09/NTU KhPI</b>         | 26,00         | 7,00         | 3,00         | 4,00         | 2,00         | 1,00         | <b>43,00</b>                        |
| <b>Total Person Months</b> | <b>193,75</b> | <b>83,00</b> | <b>42,50</b> | <b>43,50</b> | <b>45,00</b> | <b>45,25</b> | <b>453,00</b>                       |

**Table 3.1h: 'Purchase costs' items (travel and subsistence, equipment and other goods, works and services)**

|                                                          |                 |                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>01/KIPT</b>                                           | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                                                                                                                                                                   |
| <b>Travel and subsistence</b>                            | <b>45500.00</b> | 25.5k€ International and local travels of UA stakeholders for participation at EU/Euratom relevant events (WP3)<br>20.0k€ International and local travels for participation at EU/Euratom relevant events, NCP staff trainings, participation in ENEN-UA Working Group meetings and arrangement of projects events and (WP2, WP3, WP5) |
| <b>Other goods, works and services</b>                   | <b>19700.00</b> | 5.0k€ Development of project Identity, web site and promo materials of project and project events, printing services (WP5)<br>14.7k€ services for NCP staff trainings, materials and services for project DEC events and project meetings (WP2, WP3, WP4, WP5)                                                                         |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>13100.00</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>Total</b>                                             | <b>78300.00</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>02/UKRNS</b>                                          | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                                                                                                                                                                   |
| <b>Travel and subsistence</b>                            | <b>4600.00</b>  | 4.6k€ International and local travels for participation in EU/ENEN/Euratom/nuclear and projects NYG and DEC events (WP3, WP4, WP5)                                                                                                                                                                                                     |
| <b>Other goods, works and services</b>                   | <b>4250.00</b>  | 4.25k€ Development of web-site for nuclear Universities entrants, informational and promo materials for NYG events, services for event arrangement (WP4)                                                                                                                                                                               |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>1750.00</b>  |                                                                                                                                                                                                                                                                                                                                        |
| <b>Total</b>                                             | <b>10600.00</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>03/ENERGOATOM</b>                                     | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                                                                                                                                                                   |
| <b>Travel and subsistence</b>                            | <b>1000.00</b>  | 1k€ local travels for participation in trainings and DEC project events (WP2, WP5)                                                                                                                                                                                                                                                     |
| <b>Total</b>                                             | <b>1000.00</b>  |                                                                                                                                                                                                                                                                                                                                        |
| <b>04/KKNU</b>                                           | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                                                                                                                                                                   |
| <b>Travel and subsistence</b>                            | <b>9800.00</b>  | 9.8k€ International and local travels for participation in EU/Euratom/ENEN/nuclear events and trainings, project events, PhD students travels (WP2, WP3, WP4, WP5)                                                                                                                                                                     |
| <b>Other goods, works and services</b>                   | <b>4000.00</b>  | 2k€ Development of promo materials and education courses materials, printing services of materials (WP2, WP4)<br>2k€ services on University staff training                                                                                                                                                                             |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>6000.00</b>  |                                                                                                                                                                                                                                                                                                                                        |
| <b>Total</b>                                             | <b>19800.00</b> |                                                                                                                                                                                                                                                                                                                                        |
| <b>05/ENEN</b>                                           | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                                                                                                                                                                   |

|                                                          |                 |                                                                                                                                                                                         |
|----------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Travel and subsistence</b>                            | <b>3000.00</b>  | 3k€ International travels for participation in project events (WP1, WP3, WP4, WP5)                                                                                                      |
| <b>Other goods, works and services</b>                   | <b>2000.00</b>  | 2k€ printing services of materials (WP5), services on organization of events (WP3)                                                                                                      |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>10500.00</b> |                                                                                                                                                                                         |
| <b>Total</b>                                             | <b>15500.00</b> |                                                                                                                                                                                         |
| <b>06/NTUU SKPI</b>                                      | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                    |
| <b>Travel and subsistence</b>                            | <b>7800.00</b>  | 7.8k€ International and national travels for participation in EU/Euratom/nuclear events and trainings, DEC project events, NYG events and PhD students travels (WP2, WP3, WP4, WP5)     |
| <b>Other goods, works and services</b>                   | <b>20300.00</b> | 20.3k€ Software for e-learning system ASKO, services for arrangement of University staff training, promo materials for NYG (WP2, WP4)                                                   |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>6600.00</b>  |                                                                                                                                                                                         |
| <b>Total</b>                                             | <b>34700.00</b> |                                                                                                                                                                                         |
| <b>07/NUOP</b>                                           | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                    |
| <b>Travel and subsistence</b>                            | <b>17000.00</b> | 17.0k€ International and national travels for participation in EU/EURATOM/ENEN nuclear events and trainings, DEC project events participation, PhD students travel (WP2, WP3, WP4, WP5) |
| <b>Other goods, works and services</b>                   | <b>1600.00</b>  | 1.6k€ services on University staff trainings and materials for new courses development and NYG events (WP1, WP2, WP4)                                                                   |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>5400.00</b>  |                                                                                                                                                                                         |
| <b>Total</b>                                             | <b>24000.00</b> |                                                                                                                                                                                         |
| <b>08/TSNUK</b>                                          | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                    |
| <b>Travel and subsistence</b>                            | <b>13750.00</b> | 13.75k€ International and local travels for participation in EU/EURATOM/ENEN nuclear events and trainings, project events for NYG and DEC events (WP2, WP3, WP4, WP5)                   |
| <b>Other goods, works and services</b>                   | <b>1000.00</b>  | 1k€ services for University staff training (WP2)                                                                                                                                        |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>6000.00</b>  |                                                                                                                                                                                         |
| <b>Total</b>                                             | <b>20750.00</b> |                                                                                                                                                                                         |
| <b>09/NTU KhPI</b>                                       | <b>Cost (€)</b> | <b>Justification</b>                                                                                                                                                                    |
| <b>Travel and subsistence</b>                            | <b>16800.00</b> | 16.8k€ International and local travels for participation in EU/EURATOM/ENEN nuclear events and trainings, DEC project events and PhD students travels (WP2, WP3, WP4, WP5)              |
| <b>Other goods, works and services</b>                   | <b>3500.00</b>  | 3.5k€ services for University staff trainings, promo materials for NYG and materials for nuclear education courses (WP1, WP2, WP4)                                                      |
| <b>Remaining purchase costs (&lt;15% of pers. Costs)</b> | <b>4500.00</b>  |                                                                                                                                                                                         |
| <b>Total</b>                                             | <b>24800.00</b> |                                                                                                                                                                                         |

#\$QUA-LIT-QL\$# #SWRK-PLA-WP\$#

### 3.2 Capacity of participants and consortium as a whole @@CON-SOR-CS@# @@PRJ-MGT-PM@#

NURECAB consortium is complementary and it consists of 9 participants. The consortium is represented by the Ukrainian nuclear education Universities (KKNU, NUOP, NTUU SKPI, TSNUK, NTU KhPI), Ukrainian operator of NPPs (ENERGOATOM), Ukrainian integrator of nuclear sector community (Ukrainian nuclear society), Ukrainian research center in the nuclear field that is host of National Contact Point to Euratom (KIPT) and European integrator of nuclear education community from Belgium (ENEN). The NURECAB partners are the key players of Ukrainian nuclear education, research and industry that allows combining different views for improvement of nuclear education and training and develop further integration of Ukrainian nuclear sector entities and their infrastructure into Euratom Programme. ENEN, as the most representative E&T organization at European level with connections with sister networks all over the world, brings together more than 90 (ninety) institutions and organizations from

Europe and beyond. ENEN is active in the majority of nuclear disciplines including but not limited to research and education field related to nuclear physics, nuclear safety, security and safeguards, radiation protection and emergency response, nuclear medicine, and security of medical radioisotopes needed in medical applications. ENEN helps to take into account the European context of nuclear education and training and facilitate international relationship between Ukrainian and European nuclear community for better integration of UA nuclear entities into Euratom Programme.

The total requested budget of the NURECAB is 750 000 EUR (see Budget Table Part A). The budget of each partner has been carefully calculated and is in line with their involvement in the project activities. 50% of the EU funding will be dedicated to education and training activities in fission and fusion. 25% of the EU funding will be used for better integration of Ukrainian nuclear entities into Euratom Programme. 10% will be addressed to NYG capacity building and 15% will be dedicated to DEC activity for spreading results of the project.

#§CON-SOR-CS§# #§PRJ-MGT-PM§#

#### 4. Ethics self-assessment

##### **Ethical dimension of the objectives, methodology and likely impact**

Ethics issues are related to personal data collection and processing. It concerns all WPs of the project. The project objective related to ethical issues is to be in compliance with existing legislation and practices in activities of personal data collection and processing. The ethics report will be submitted in M3 as a deliverable. It will include:

Detailed information on the informed consent procedures in regard to data collection and processing;

Description of the technical and organizational measures that will be implemented to safeguard the rights and freedoms of the data subjects.

##### **Compliance with ethical principles and relevant legislations**

Data collection and processing will be carried out in compliance with Ukrainian legislation, beneficiaries and Affiliated entities internal data protection policy and the General Data Protection Regulation including Chapter V of the GDPR 2016/679 as a confirmation that transfers of personal data from the EU to a non-EU country or international organisation are in accordance with Chapter V of the General Data Protection Regulation 2016/679.

A Data Management Plan (DMP) will be prepared to describe the data management methods, especially to describe how the data will be generated, processed, collected, stored and documented as a deliverable. The Data Management Plan includes also a description of methodology and standards to be followed and what data sets are exploitable or made accessible for verification and reuse. The DMP will be a dynamic tool that is updated regularly.

ANNEX 2

ESTIMATED BUDGET FOR THE ACTION

|                  | Estimated eligible <sup>1</sup> costs (per budget category)                                        |                                                 |                                         |                            |               |                                     |                                            |                                |                                          | Estimated EU contribution <sup>2</sup> |                                      |                           |            |                                   |
|------------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------|----------------------------|---------------|-------------------------------------|--------------------------------------------|--------------------------------|------------------------------------------|----------------------------------------|--------------------------------------|---------------------------|------------|-----------------------------------|
|                  | Direct costs                                                                                       |                                                 |                                         |                            |               |                                     |                                            |                                | Indirect costs                           | Total costs                            | EU contribution to eligible costs    |                           |            | Maximum grant amount <sup>6</sup> |
|                  | A. Personnel costs                                                                                 |                                                 | B. Subcontracting costs                 | C. Purchase costs          |               |                                     | D. Other cost categories                   | E. Indirect costs <sup>3</sup> | Funding rate % <sup>4</sup>              |                                        | Maximum EU contribution <sup>5</sup> | Requested EU contribution |            |                                   |
|                  | A.1 Employees (or equivalent)<br>A.2 Natural persons under direct contract<br>A.3 Seconded persons | A.4 SME owners and natural person beneficiaries | B. Subcontracting                       | C.1 Travel and subsistence | C.2 Equipment | C.3 Other goods, works and services | D.2 Internally invoiced goods and services | E. Indirect costs              |                                          |                                        |                                      |                           |            |                                   |
|                  | Forms of funding                                                                                   | Actual costs                                    | Unit costs (usual accounting practices) | Unit costs <sup>7</sup>    | Actual costs  | Actual costs                        | Actual costs                               | Actual costs                   | Unit costs (usual accounting practices)  | Flat-rate costs <sup>8</sup>           |                                      |                           |            |                                   |
|                  | a1                                                                                                 | a2                                              | a3                                      | b                          | c1            | c2                                  | c3                                         | d2                             | e = 0,25 * (a1 + a2 + a3 + c1 + c2 + c3) | f = a + b + c + d + e                  | U                                    | g = f * U%                | h          | m                                 |
| 1 - KIPT         | 88 125.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 48 500.00     | 0.00                                | 29 800.00                                  | 0.00                           | 41 606.25                                | 208 031.25                             | 100                                  | 208 031.25                | 208 031.25 | 208 031.25                        |
| 1.1 - UkrNS      | 11 800.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 4 600.00      | 0.00                                | 6 000.00                                   | 0.00                           | 5 600.00                                 | 28 000.00                              | 100                                  | 28 000.00                 | 28 000.00  | 28 000.00                         |
| 1.2 - ENERGOATOM | 7 500.00                                                                                           | 0.00                                            | 0.00                                    | 0.00                       | 1 000.00      | 0.00                                | 0.00                                       | 0.00                           | 2 125.00                                 | 10 625.00                              | 100                                  | 10 625.00                 | 10 625.00  | 10 625.00                         |
| 2 - KKNU         | 40 600.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 14 800.00     | 0.00                                | 5 000.00                                   | 0.00                           | 15 100.00                                | 75 500.00                              | 100                                  | 75 500.00                 | 75 500.00  | 75 500.00                         |
| 2.1 - ENEN       | 71 400.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 10 000.00     | 0.00                                | 5 500.00                                   | 0.00                           | 21 725.00                                | 108 625.00                             | 100                                  | 108 625.00                | 108 625.00 | 108 625.00                        |
| 3 - NTUU SKPI    | 44 625.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 10 900.00     | 0.00                                | 23 800.00                                  | 0.00                           | 19 831.25                                | 99 156.25                              | 100                                  | 99 156.25                 | 99 156.25  | 99 156.25                         |
| 4 - NUOP         | 36 400.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 21 000.00     | 0.00                                | 3 000.00                                   | 0.00                           | 15 100.00                                | 75 500.00                              | 100                                  | 75 500.00                 | 75 500.00  | 75 500.00                         |
| 5 - TSNUK        | 40 000.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 18 750.00     | 0.00                                | 2 000.00                                   | 0.00                           | 15 187.50                                | 75 937.50                              | 100                                  | 75 937.50                 | 75 937.50  | 75 937.50                         |
| 6 - NTU KHPI     | 30 100.00                                                                                          | 0.00                                            | 0.00                                    | 0.00                       | 18 800.00     | 0.00                                | 6 000.00                                   | 0.00                           | 13 725.00                                | 68 625.00                              | 100                                  | 68 625.00                 | 68 625.00  | 68 625.00                         |
| Σ consortium     | 370 550.00                                                                                         | 0.00                                            | 0.00                                    | 0.00                       | 148 350.00    | 0.00                                | 81 100.00                                  | 0.00                           | 150 000.00                               | 750 000.00                             |                                      | 750 000.00                | 750 000.00 | 750 000.00                        |

<sup>1</sup> See Article 6 for the eligibility conditions. All amounts must be expressed in EUR (see Article 21 for the conversion rules).

<sup>2</sup> The consortium remains free to decide on a different internal distribution of the EU funding (via the consortium agreement; see Article 7).

<sup>3</sup> Indirect costs already covered by an operating grant (received under any EU funding programme) are ineligible (see Article 6.3). Therefore, a beneficiary/affiliated entity that receives an operating grant during the action duration cannot declare indirect costs for the year(s)/reporting period(s) covered by the operating grant, unless they can demonstrate that the operating grant does not cover any costs of the action. This requires specific accounting tools. Please immediately contact us via the EU Funding & Tenders Portal for details.

<sup>4</sup> See Data Sheet for the funding rate(s).

<sup>5</sup> This is the theoretical amount of the EU contribution to costs, if the reimbursement rate is applied to all the budgeted costs. This theoretical amount is then capped by the 'maximum grant amount'.

<sup>6</sup> The 'maximum grant amount' is the maximum grant amount decided by the EU. It normally corresponds to the requested grant, but may be lower.

<sup>7</sup> See Annex 2a 'Additional information on the estimated budget' for the details (units, cost per unit).

<sup>8</sup> See Data Sheet for the flat-rate.

## **ANNEX 2a**

### **ADDITIONAL INFORMATION ON UNIT COSTS AND CONTRIBUTIONS**

#### **SME owners/natural person beneficiaries without salary** (Decision C(2020) 7115<sup>1</sup>)

Type: unit costs

Units: days spent working on the action (rounded up or down to the nearest half-day)

Amount per unit (daily rate): calculated according to the following formula:

{EUR 5 080 / 18 days = **282,22**}  
multiplied by  
{country-specific correction coefficient of the country where the beneficiary is established}

The country-specific correction coefficients used are those set out in the Horizon Europe Work Programme (section Marie Skłodowska-Curie actions) in force at the time of the call (see [Portal Reference Documents](#)).

#### **HE and Euratom Research Infrastructure actions**<sup>2</sup>

Type: unit costs

Units<sup>3</sup>: see (for each access provider and installation) the unit cost table in Annex 2b

Amount per unit<sup>\*</sup>: see (for each access provider and installation) the unit cost table in Annex 2b

<sup>\*</sup> Amount calculated as follows:

For trans-national access:

$$\frac{\text{average annual total trans-national access costs to the installation (over past two years)}^4}{\text{average annual total quantity of trans-national access to the installation (over past two years)}^5}$$

For virtual access:

$$\frac{\text{total virtual access costs to the installation (over the last year)}^6}{\text{total quantity of virtual access to the installation (over the last year)}^7}$$

#### **Euratom staff mobility costs**<sup>8</sup>

##### **Monthly living allowance**

Type: unit costs

---

<sup>1</sup> Commission [Decision](#) of 20 October 2020 authorising the use of unit costs for the personnel costs of the owners of small and medium-sized enterprises and beneficiaries that are natural persons not receiving a salary for the work carried out by themselves under an action or work programme (C(2020)7715).

<sup>2</sup> [Decision](#) of 19 April 2021 authorising the use of unit costs for the costs of providing trans-national and virtual access in Research Infrastructure actions under the Horizon Europe Programme (2021-2027) and the Research and Training Programme of the European Atomic Energy Community (2021-2025).

<sup>3</sup> Unit of access (e.g. beam hours, weeks of access, sample analysis) fixed by the access provider in proposal.

<sup>4</sup> In exceptional and duly justified cases, the granting authority may agree to a different reference period.

<sup>5</sup> In exceptional and duly justified cases, the granting authority may agree to a different reference period.

<sup>6</sup> In exceptional and duly justified cases, the granting authority may agree to a different reference period.

<sup>7</sup> In exceptional and duly justified cases, the granting authority may agree to a different reference period.

<sup>8</sup> [Decision](#) of 15 March 2021 authorising the use of unit costs for mobility in co-fund actions under the Research and Training Programme of the European Atomic Energy Community (2021-2025).

Units: months spent by the seconded staff member(s) on research and training in fission and fusion activities (person-month)

Amount per unit\*: see (for each beneficiary/affiliated entity and secondment) the unit cost table in Annex 2b

\* Amount calculated as follows from 1 January 2021:

{**EUR 4 300** multiplied by  
country-specific correction coefficient\*\* of the country where the staff member is seconded}<sup>9</sup>

\*\*Country-specific correction coefficients as from 1 January 2021<sup>10</sup>

EU-Member States<sup>11</sup>

| Country / Place | Coefficient (%) |
|-----------------|-----------------|
| Bulgaria        | 59,1            |
| Czech Rep.      | 85,2            |
| Denmark         | 131,3           |
| Germany         | 101,9           |
| Bonn            | 95,8            |
| Karlsruhe       | 98              |
| Munich          | 113,9           |
| Estonia         | 82,3            |
| Ireland         | 129             |
| Greece          | 81,4            |
| Spain           | 94,2            |
| France          | 120,5           |
| Croatia         | 75,8            |
| Italy           | 95              |
| Varese          | 90,7            |
| Cyprus          | 78,2            |
| Latvia          | 77,5            |
| Lithuania       | 76,6            |
| Hungary         | 71,9            |
| Malta           | 94,7            |
| Netherlands     | 113,9           |
| Austria         | 107,9           |
| Poland          | 70,9            |
| Portugal        | 91,1            |
| Romania         | 66,6            |
| Slovenia        | 86,1            |

<sup>9</sup> Unit costs for living allowances are calculated by using a method of calculation similar to that applied for the secondment to the European Commission of seconded national experts (SNEs).

<sup>10</sup> ⚠ For the financial statements, the amount must be adjusted according to the actual place of secondment.  
The revised coefficients were adopted in the Decision authorising the use of unit costs for the Fusion Programme co-fund action under the Research and training Programme of the European Atomic Energy Community 2021-2025. They are based on the 2020 Annual update of the remuneration and pensions of the officials and other servants of the European Union and the correction coefficients applied thereto (OJ C 428, 11.12.2020) to ensure purchasing power parity. The revised coefficient are applied as from 1 January 2021 through an amendment to the grant agreement.

<sup>11</sup> No correction coefficient shall be applicable in Belgium and Luxembourg.

|          |       |
|----------|-------|
| Slovakia | 80,6  |
| Finland  | 118,4 |
| Sweden   | 124,3 |

#### Third countries

| Country/place  | Coefficient (%)                       |
|----------------|---------------------------------------|
| China          | 82,2                                  |
| India          | 72,3                                  |
| Japan          | 111,8                                 |
| Russia         | 92,7                                  |
| South Korea    | 92,3                                  |
| Switzerland    | 129,2                                 |
| Ukraine        | 82,3                                  |
| United Kingdom | 97,6                                  |
| United States  | 101,4 (New-York)<br>90,5 (Washington) |

#### Mobility allowance

Type: Unit costs

Units: months spent by the seconded staff member(s) on research and training in fission and fusion activities (person-month)

Amount per unit: EUR 600 per person-month; see (for each beneficiary/affiliated entity and secondment) the unit cost table in Annex 2b

#### Family allowance

Type: unit costs

Units: months spent by the seconded staff member(s) on research and training in fission and fusion activities (person-month)

Amount per unit: EUR 660 per person-month; see (for each beneficiary/affiliated entity and secondment) the unit cost table in Annex 2b

#### Education allowance

Type: Unit costs

Units: months spent by the seconded staff member(s) on research and training in fission and fusion activities (person-month)

Amount per unit\*: see (for each beneficiary/affiliated entity and secondment) the unit cost table in Annex 2b

\*Amount calculated as follows from 1 January 2021:  
{EUR 283.82 x number of dependent children<sup>12</sup>}

<sup>12</sup> For the estimated budget (Annex 2): an average should be used. (⚠ For the financial statements, the number of children (and months) must be adjusted according to the actual family status at the moment the secondment starts.)

**ANNEX 3**

**ACCESSION FORM FOR BENEFICIARIES**

**V. N. Karazin Kharkiv National University (KKNU)**, PIC 986260984, established in Svobody sq. 4, Kharkiv 61077, Ukraine,

**hereby agrees**

**to become beneficiary**

**in Agreement No 101173510 — NURECAB** ('the Agreement')

**between** NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT) **and** the **European Atomic Energy Community** ('EC-Euratom'), represented by the European Commission ('European Commission' or 'granting authority'),

**and mandates**

**the coordinator** to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

**ANNEX 3**

**ACCESSION FORM FOR BENEFICIARIES**

**NATIONAL TECHNICAL UNIVERSITY OF UKRAINE IGOR SIKORSKY KYIV POLYTECHNIC INSTITUTE (NTUU SKPI)**, PIC 998145715, established in 37 BERESTEISKYI AVENUE, KYIV 03056, Ukraine,

**hereby agrees**

**to become beneficiary**

**in Agreement No 101173510 — NURECAB** ('the Agreement')

**between** NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT) **and** the **European Atomic Energy Community** ('EC-Euratom'), represented by the European Commission ('European Commission' or 'granting authority'),

**and mandates**

**the coordinator** to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

**ANNEX 3**

**ACCESSION FORM FOR BENEFICIARIES**

**ODESSA POLYTECHNIC NATIONAL UNIVERSITY (NUOP)**, PIC 888776857, established in SHEVCHENKO AVE 1, ODESSA 65044, Ukraine,

**hereby agrees**

**to become beneficiary**

**in Agreement No 101173510 — NURECAB** ('the Agreement')

**between** NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT) **and** the **European Atomic Energy Community** ('EC-Euratom'), represented by the European Commission ('European Commission' or 'granting authority'),

**and mandates**

**the coordinator** to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

**ANNEX 3**

**ACCESSION FORM FOR BENEFICIARIES**

**TARAS SHEVCHENKO NATIONAL UNIVERSITY OF KYIV (TSNUK)**, PIC 994789903,  
established in VOLODYMYRSKA ST 60, KYIV 01033, Ukraine,

**hereby agrees**

**to become beneficiary**

**in Agreement No 101173510 — NURECAB** ('the Agreement')

**between** NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND  
TECHNOLOGY (KIPT) **and** the **European Atomic Energy Community** ('EC-Euratom'),  
represented by the European Commission ('European Commission' or 'granting authority'),

**and mandates**

**the coordinator** to submit and sign in its name and on its behalf any **amendments** to the Agreement,  
in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in  
accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

**ANNEX 3**

**ACCESSION FORM FOR BENEFICIARIES**

**NATIONAL TECHNICAL UNIVERSITY KHARKIV POLYTECHNICAL INSTITUTE (NTU KHPI)**, PIC 984498009, established in KIRPICHOVA STREET 2, KHARKIV 61002, Ukraine,

**hereby agrees**

**to become beneficiary**

**in Agreement No 101173510 — NURECAB** ('the Agreement')

**between** NATIONAL SCIENCE CENTER KHARKOV INSTITUTE OF PHYSICS AND TECHNOLOGY (KIPT) **and** the **European Atomic Energy Community** ('EC-Euratom'), represented by the European Commission ('European Commission' or 'granting authority'),

**and mandates**

**the coordinator** to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 4 HORIZON EUROPE MGA — MULTI + MONO

FINANCIAL STATEMENT FOR [PARTICIPANT NAME] FOR REPORTING PERIOD [NUMBER]

|                                                 | Eligible <sup>1</sup> costs (per budget category) |              |                                                 |                         |                            |               |                                     |                                        |                                            |                                                                |                                                          |                                                          |                                                                                        |                                                        |                                                                                                                          | EU contribution <sup>2</sup>         |                                                                                |                                   |   | Revenues |                                 |                                |   |
|-------------------------------------------------|---------------------------------------------------|--------------|-------------------------------------------------|-------------------------|----------------------------|---------------|-------------------------------------|----------------------------------------|--------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------|-----------------------------------|---|----------|---------------------------------|--------------------------------|---|
|                                                 | Direct costs                                      |              |                                                 |                         |                            |               |                                     |                                        |                                            |                                                                |                                                          |                                                          |                                                                                        |                                                        |                                                                                                                          | Indirect costs                       | Total costs                                                                    | EU contribution to eligible costs |   |          | Total requested EU contribution | Income generated by the action |   |
|                                                 | A. Personnel costs                                |              | B. Subcontracting costs                         | C. Purchase costs       |                            |               | D. Other cost categories            |                                        |                                            |                                                                |                                                          |                                                          |                                                                                        | E. Indirect costs <sup>2</sup>                         | Funding rate % <sup>3</sup>                                                                                              | Maximum EU contribution <sup>4</sup> |                                                                                | Requested EU contribution         |   |          |                                 |                                |   |
|                                                 | A.1 Employees (or equivalent)                     |              | A.4 SME owners and natural person beneficiaries | B. Subcontracting       | C.1 Travel and subsistence | C.2 Equipment | C.3 Other goods, works and services | D.1 Financial support to third parties | D.2 Internally invoiced goods and services | D.3 Transnational access to research infrastructure unit costs | D.4 Virtual access to research infrastructure unit costs | [OPTION for HE PCP/PPPI: D.5 PCP/PPPI procurement costs] | [OPTION for Euratom Programme Cofund Actions: D.6 Euratom Cofund staff mobility costs] | [OPTION for HE ERC Grants: D.7 ERC additional funding] | [OPTION for HE ERC Grants: D.8 ERC additional funding (subcontracting, FSTP and internally invoiced goods and services)] | E. Indirect costs                    |                                                                                |                                   |   |          |                                 |                                |   |
| A.2 Natural persons under direct contract       |                                                   |              |                                                 |                         |                            |               |                                     |                                        |                                            |                                                                |                                                          |                                                          |                                                                                        |                                                        |                                                                                                                          |                                      |                                                                                |                                   |   |          |                                 |                                |   |
| A.3 Seconded persons                            |                                                   |              |                                                 |                         |                            |               |                                     |                                        |                                            |                                                                |                                                          |                                                          |                                                                                        |                                                        |                                                                                                                          |                                      |                                                                                |                                   |   |          |                                 |                                |   |
| Forms of funding                                |                                                   | Actual costs | Unit costs (usual accounting practices)         | Unit costs <sup>5</sup> | Actual costs               | Actual costs  | Actual costs                        | Actual costs                           | / Actual costs                             | Unit costs (usual accounting practices)                        | / Unit costs <sup>5</sup>                                | / Unit costs <sup>5</sup>                                | / Actual costs                                                                         | / Unit costs <sup>5</sup>                              | / Actual costs                                                                                                           | / Actual costs                       | Flat-rate costs <sup>6</sup>                                                   |                                   |   |          |                                 |                                |   |
|                                                 |                                                   | a1           | a2                                              | a3                      | b                          | c1            | c2                                  | c3                                     | / d1a                                      | d2                                                             | / d3                                                     | / d4                                                     | / d5                                                                                   | / d6                                                   | / d7                                                                                                                     | / d8                                 | e =<br>0,25 * (a1 + a2 + a3 +b+ c1 +c2 + c3 +d1a+d2+d3 +d4 +d5)+d6+ / +d7 +d8) | f =<br>a+b+c+d+e                  | U | g = f*U% | h                               | m                              | n |
| XX – [short name beneficiary/affiliated entity] |                                                   |              |                                                 |                         |                            |               |                                     |                                        |                                            |                                                                |                                                          |                                                          |                                                                                        |                                                        |                                                                                                                          |                                      |                                                                                |                                   |   |          |                                 |                                |   |

The beneficiary/affiliated entity hereby confirms that:

The information provided is complete, reliable and true.

The costs and contributions declared are eligible (see Article 6).

The costs and contributions can be substantiated by adequate records and supporting documentation that will be produced upon request or in the context of checks, reviews, audits and investigations (see Articles 19, 20 and 25).

For the last reporting period: that all the revenues have been declared (see Article 22).

① Please declare all eligible costs and contributions, even if they exceed the amounts indicated in the estimated budget (see Annex 2). Only amounts that were declared in your individual financial statements can be taken into account lateron, in order to replace costs/contributions that are found to be ineligible.

<sup>1</sup> See Article 6 for the eligibility conditions. All amounts must be expressed in EUR (see Article 21 for the conversion rules).

<sup>2</sup> If you have also received an EU operating grant during this reporting period, you cannot claim indirect costs - unless you can demonstrate that the operating grant does not cover any costs of the action. This requires specific accounting tools. Please contact us immediately via the Funding & Tenders Portal for details.

<sup>3</sup> See Data Sheet for the reimbursement rate(s).

<sup>4</sup> This is the *theoretical* amount of EU contribution to costs that the system calculates automatically (by multiplying the reimbursement rates by the costs declared). The amount you request (in the column 'requested EU contribution') may be less.

<sup>5</sup> See Annex 2a 'Additional information on the estimated budget' for the details (units, cost per unit).

<sup>6</sup> See Data Sheet for the flat-rate.

## **ANNEX 5**

### **SPECIFIC RULES**

#### **CONFIDENTIALITY AND SECURITY (— ARTICLE 13)**

##### **Sensitive information with security recommendation**

Sensitive information with a security recommendation must comply with the additional requirements imposed by the granting authority.

Before starting the action tasks concerned, the beneficiaries must have obtained all approvals or other mandatory documents needed for implementing the task. The documents must be kept on file and be submitted upon request by the coordinator to the granting authority. If they are not in English, they must be submitted together with an English summary.

For requirements restricting disclosure or dissemination, the information must be handled in accordance with the recommendation and may be disclosed or disseminated only after written approval from the granting authority.

##### **EU classified information**

If EU classified information is used or generated by the action, it must be treated in accordance with the security classification guide (SCG) and security aspect letter (SAL) set out in Annex 1 and Decision 2015/444<sup>1</sup> and its implementing rules — until it is declassified.

Deliverables which contain EU classified information must be submitted according to special procedures agreed with the granting authority.

Action tasks involving EU classified information may be subcontracted only with prior explicit written approval from the granting authority and only to entities established in an EU Member State or in a non-EU country with a security of information agreement with the EU (or an administrative arrangement with the Commission).

EU classified information may not be disclosed to any third party (including participants involved in the action implementation) without prior explicit written approval from the granting authority.

#### **ETHICS (— ARTICLE 14)**

##### **Ethics and research integrity**

The beneficiaries must carry out the action in compliance with:

- ethical principles (including the highest standards of research integrity)

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<sup>1</sup> Commission Decision 2015/444/EC, Euratom of 13 March 2015 on the security rules for protecting EU classified information (OJ L 72, 17.3.2015, p. 53).

and

- applicable EU, international and national law, including the EU Charter of Fundamental Rights and the European Convention for the Protection of Human Rights and Fundamental Freedoms and its Supplementary Protocols.

No funding can be granted, within or outside the EU, for activities that are prohibited in all Member States. No funding can be granted in a Member State for an activity which is forbidden in that Member State.

The beneficiaries must pay particular attention to the principle of proportionality, the right to privacy, the right to the protection of personal data, the right to the physical and mental integrity of persons, the right to non-discrimination, the need to ensure protection of the environment and high levels of human health protection.

The beneficiaries must ensure that the activities under the action have an exclusive focus on civil applications.

The beneficiaries must ensure that the activities under the action do not:

- aim at human cloning for reproductive purposes
- intend to modify the genetic heritage of human beings which could make such modifications heritable (with the exception of research relating to cancer treatment of the gonads, which may be financed)
- intend to create human embryos solely for the purpose of research or for the purpose of stem cell procurement, including by means of somatic cell nuclear transfer, or
- lead to the destruction of human embryos (for example, for obtaining stem cells).

Activities involving research on human embryos or human embryonic stem cells may be carried out only if:

- they are set out in Annex 1 or
- the coordinator has obtained explicit approval (in writing) from the granting authority.

In addition, the beneficiaries must respect the fundamental principle of research integrity — as set out in the European Code of Conduct for Research Integrity<sup>2</sup>.

This implies compliance with the following principles:

- reliability in ensuring the quality of research reflected in the design, the methodology, the analysis and the use of resources
- honesty in developing, undertaking, reviewing, reporting and communicating research in a transparent, fair and unbiased way

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<sup>2</sup> European Code of Conduct for Research Integrity of ALLEA (All European Academies).

- respect for colleagues, research participants, society, ecosystems, cultural heritage and the environment
- accountability for the research from idea to publication, for its management and organisation, for training, supervision and mentoring, and for its wider impacts

and means that beneficiaries must ensure that persons carrying out research tasks follow the good research practices including ensuring, where possible, openness, reproducibility and traceability and refrain from the research integrity violations described in the Code.

Activities raising ethical issues must comply with the additional requirements formulated by the ethics panels (including after checks, reviews or audits; see Article 25).

Before starting an action task raising ethical issues, the beneficiaries must have obtained all approvals or other mandatory documents needed for implementing the task, notably from any (national or local) ethics committee or other bodies such as data protection authorities.

The documents must be kept on file and be submitted upon request by the coordinator to the granting authority. If they are not in English, they must be submitted together with an English summary, which shows that the documents cover the action tasks in question and includes the conclusions of the committee or authority concerned (if any).

## **VALUES (— ARTICLE 14)**

### **Gender mainstreaming**

The beneficiaries must take all measures to promote equal opportunities between men and women in the implementation of the action and, where applicable, in line with the gender equality plan. They must aim, to the extent possible, for a gender balance at all levels of personnel assigned to the action, including at supervisory and managerial level.

## **INTELLECTUAL PROPERTY RIGHTS (IPR) — BACKGROUND AND RESULTS — ACCESS RIGHTS AND RIGHTS OF USE (— ARTICLE 16)**

### **Definitions**

Access rights — Rights to use results or background.

Dissemination — The public disclosure of the results by appropriate means, other than resulting from protecting or exploiting the results, including by scientific publications in any medium.

Exploit(ation) — The use of results in further research and innovation activities other than those covered by the action concerned, including among other things, commercial exploitation such as developing, creating, manufacturing and marketing a product or process, creating and providing a service, or in standardisation activities.

Fair and reasonable conditions — Appropriate conditions, including possible financial terms or royalty-free conditions, taking into account the specific circumstances of the request for access, for example the actual or potential value of the results or background to which access is requested and/or the scope, duration or other characteristics of the exploitation envisaged.

FAIR principles — ‘findability’, ‘accessibility’, ‘interoperability’ and ‘reusability’.

Open access — Online access to research outputs provided free of charge to the end-user.

Open science — An approach to the scientific process based on open cooperative work, tools and diffusing knowledge.

Research data management — The process within the research lifecycle that includes the organisation, storage, preservation, security, quality assurance, allocation of persistent identifiers (PIDs) and rules and procedures for sharing of data including licensing.

Research outputs — Results to which access can be given in the form of scientific publications, data or other engineered results and processes such as software, algorithms, protocols, models, workflows and electronic notebooks.

### **Scope of the obligations**

For this section, references to ‘beneficiary’ or ‘beneficiaries’ do not include affiliated entities (if any).

### **Agreement on background**

The beneficiaries must identify in a written agreement the background as needed for implementing the action or for exploiting its results.

Where the call conditions restrict control due to strategic interests reasons, background that is subject to control or other restrictions by a country (or entity from a country) which is not one of the eligible countries or target countries set out in the call conditions and that impact the exploitation of the results (i.e. would make the exploitation of the results subject to control or restrictions) must not be used and must be explicitly excluded from it in the agreement on background — unless otherwise agreed with the granting authority.

### **Ownership of results**

Results are owned by the beneficiaries that generate them.

However, two or more beneficiaries own results jointly if:

- they have jointly generated them and
- it is not possible to:
  - establish the respective contribution of each beneficiary, or
  - separate them for the purpose of applying for, obtaining or maintaining their protection.

The joint owners must agree — in writing — on the allocation and terms of exercise of their joint ownership (**‘joint ownership agreement’**), to ensure compliance with their obligations under this Agreement.

Unless otherwise agreed in the joint ownership agreement or consortium agreement, each joint owner may grant non-exclusive licences to third parties to exploit the jointly-owned results (without any right to sub-license), if the other joint owners are given:

- at least 45 days advance notice and
- fair and reasonable compensation.

The joint owners may agree — in writing — to apply another regime than joint ownership.

If third parties (including employees and other personnel) may claim rights to the results, the beneficiary concerned must ensure that those rights can be exercised in a manner compatible with its obligations under the Agreement.

The beneficiaries must indicate the owner(s) of the results (results ownership list) in the final periodic report.

### **Protection of results**

Beneficiaries which have received funding under the grant must adequately protect their results — for an appropriate period and with appropriate territorial coverage — if protection is possible and justified, taking into account all relevant considerations, including the prospects for commercial exploitation, the legitimate interests of the other beneficiaries and any other legitimate interests.

### **Exploitation of results**

Beneficiaries which have received funding under the grant must — up to four years after the end of the action (see Data Sheet, Point 1) — use their best efforts to exploit their results directly or to have them exploited indirectly by another entity, in particular through transfer or licensing.

If, despite a beneficiary's best efforts, the results are not exploited within one year after the end of the action, the beneficiaries must (unless otherwise agreed in writing with the granting authority) use the Horizon Results Platform to find interested parties to exploit the results.

If results are incorporated in a standard, the beneficiaries must (unless otherwise agreed with the granting authority or unless it is impossible) ask the standardisation body to include the funding statement (see Article 17) in (information related to) the standard.

### **Additional exploitation obligations**

Where the call conditions impose additional exploitation obligations (including obligations linked to the restriction of participation or control due to strategic assets, interests, autonomy or security reasons), the beneficiaries must comply with them — up to four years after the end of the action (see Data Sheet, Point 1).

Where the call conditions impose additional exploitation obligations in case of a public emergency, the beneficiaries must (if requested by the granting authority) grant for a limited period of time specified in the request, non-exclusive licences — under fair and reasonable conditions — to their results to legal entities that need the results to address the public emergency and commit to rapidly and broadly exploit the resulting products and services at fair and reasonable conditions. This provision applies up to four years after the end of the action (see Data Sheet, Point 1).

### Additional information obligation relating to standards

Where the call conditions impose additional information obligations relating to possible standardisation, the beneficiaries must — up to four years after the end of the action (see Data Sheet, Point 1) — inform the granting authority, if the results could reasonably be expected to contribute to European or international standards.

## **Transfer and licensing of results**

### Transfer of ownership

The beneficiaries may transfer ownership of their results, provided this does not affect compliance with their obligations under the Agreement.

The beneficiaries must ensure that their obligations under the Agreement regarding their results are passed on to the new owner and that this new owner has the obligation to pass them on in any subsequent transfer.

Moreover, they must inform the other beneficiaries with access rights of the transfer at least 45 days in advance (or less if agreed in writing), unless agreed otherwise in writing for specifically identified third parties including affiliated entities or unless impossible under the applicable law. This notification must include sufficient information on the new owner to enable the beneficiaries concerned to assess the effects on their access rights. The beneficiaries may object within 30 days of receiving notification (or less if agreed in writing), if they can show that the transfer would adversely affect their access rights. In this case, the transfer may not take place until agreement has been reached between the beneficiaries concerned.

### Granting licences

The beneficiaries may grant licences to their results (or otherwise give the right to exploit them), including on an exclusive basis, provided this does not affect compliance with their obligations.

Exclusive licences for results may be granted only if all the other beneficiaries concerned have waived their access rights.

### Granting authority right to object to transfers or licensing — Horizon Europe actions

Where the call conditions in Horizon Europe actions provide for the right to object to transfers or licensing, the granting authority may — up to four years after the end of the action (see Data Sheet, Point 1) — object to a transfer of ownership or the exclusive licensing of results, if:

- the beneficiaries which generated the results have received funding under the grant
- it is to a legal entity established in a non-EU country not associated with Horizon Europe, and
- the granting authority considers that the transfer or licence is not in line with EU interests.

Beneficiaries that intend to transfer ownership or grant an exclusive licence must formally notify the granting authority before the intended transfer or licensing takes place and:

- identify the specific results concerned
- describe in detail the new owner or licensee and the planned or potential exploitation of the results, and
- include a reasoned assessment of the likely impact of the transfer or licence on EU interests, in particular regarding competitiveness as well as consistency with ethical principles and security considerations.

The granting authority may request additional information.

If the granting authority decides to object to a transfer or exclusive licence, it must formally notify the beneficiary concerned within 60 days of receiving notification (or any additional information it has requested).

No transfer or licensing may take place in the following cases:

- pending the granting authority decision, within the period set out above
- if the granting authority objects
- until the conditions are complied with, if the granting authority objection comes with conditions.

A beneficiary may formally notify a request to waive the right to object regarding intended transfers or grants to a specifically identified third party, if measures safeguarding EU interests are in place. If the granting authority agrees, it will formally notify the beneficiary concerned within 60 days of receiving notification (or any additional information requested).

#### Granting authority right to object to transfers or licensing — Euratom actions

Where the call conditions in Euratom actions provide for the right to object to transfers or licensing, the granting authority may — up to four years after the end of the action (see Data Sheet, Point 1) — object to a transfer of ownership or the exclusive or non-exclusive licensing of results, if:

- the beneficiaries which generated the results have received funding under the grant
- it is to a legal entity established in a non-EU country not associated to the Euratom Research and Training Programme 2021-2025 and
- the granting authority considers that the transfer or licence is not in line with the EU interests.

Beneficiaries that intend to transfer ownership or grant a licence must formally notify the granting authority before the intended transfer or licensing takes place and:

- identify the specific results concerned
- describe in detail the results, the new owner or licensee and the planned or potential exploitation of the results, and
- include a reasoned assessment of the likely impact of the transfer or licence on EU interests, in particular regarding competitiveness as well as consistency with

ethical principles and security considerations (including the defence interests of the EU Member States under Article 24 of the Euratom Treaty).

The granting authority may request additional information.

If the granting authority decides to object to a transfer or licence, it will formally notify the beneficiary concerned within 60 days of receiving notification (or any additional information requested).

No transfer or licensing may take place in the following cases:

- pending the granting authority decision, within the period set out above
- if the granting authority objects
- until the conditions are complied with, if the granting authority objection comes with conditions.

A beneficiary may formally notify a request to waive the right to object regarding intended transfers or grants to a specifically identified third party, if measures safeguarding EU interests are in place. If the granting authority agrees, it will formally notify the beneficiary concerned within 60 days of receiving notification (or any additional information requested).

*Limitations to transfers and licensing due to strategic assets, interests, autonomy or security reasons of the EU and its Member States*

Where the call conditions restrict participation or control due to strategic assets, interests, autonomy or security reasons, the beneficiaries may not transfer ownership of their results or grant licences to third parties which are established in countries which are not eligible countries or target countries set out in the call conditions (or, if applicable, are controlled by such countries or entities from such countries) — unless they have requested and received prior approval by the granting authority.

The request must:

- identify the specific results concerned
- describe in detail the new owner and the planned or potential exploitation of the results, and
- include a reasoned assessment of the likely impact of the transfer or license on the strategic assets, interests, autonomy or security of the EU and its Member States.

The granting authority may request additional information.

**Access rights to results and background**

*Exercise of access rights — Waiving of access rights — No sub-licensing*

Requests to exercise access rights and the waiver of access rights must be in writing.

Unless agreed otherwise in writing with the beneficiary granting access, access rights do not include the right to sub-license.

If a beneficiary is no longer involved in the action, this does not affect its obligations to grant access.

If a beneficiary defaults on its obligations, the beneficiaries may agree that that beneficiary no longer has access rights.

#### Access rights for implementing the action

The beneficiaries must grant each other access — on a royalty-free basis — to background needed to implement their own tasks under the action, unless the beneficiary that holds the background has — before acceding to the Agreement —:

- informed the other beneficiaries that access to its background is subject to restrictions, or
- agreed with the other beneficiaries that access would not be on a royalty-free basis.

The beneficiaries must grant each other access — on a royalty-free basis — to results needed for implementing their own tasks under the action.

#### Access rights for exploiting the results

The beneficiaries must grant each other access — under fair and reasonable conditions — to results needed for exploiting their results.

The beneficiaries must grant each other access — under fair and reasonable conditions — to background needed for exploiting their results, unless the beneficiary that holds the background has — before acceding to the Agreement — informed the other beneficiaries that access to its background is subject to restrictions.

Requests for access must be made — unless agreed otherwise in writing — up to one year after the end of the action (see Data Sheet, Point 1).

#### Access rights for entities under the same control

Unless agreed otherwise in writing by the beneficiaries, access to results and, subject to the restrictions referred to above (if any), background must also be granted — under fair and reasonable conditions — to entities that:

- are established in an EU Member State or Horizon Europe associated country
- are under the direct or indirect control of another beneficiary, or under the same direct or indirect control as that beneficiary, or directly or indirectly controlling that beneficiary and
- need the access to exploit the results of that beneficiary.

Unless agreed otherwise in writing, such requests for access must be made by the entity directly to the beneficiary concerned.

Requests for access must be made — unless agreed otherwise in writing — up to one year after the end of the action (see Data Sheet, Point 1).

#### Access rights for the granting authority, EU institutions, bodies, offices or agencies and national authorities to results for policy purposes — Horizon Europe actions

In Horizon Europe actions, the beneficiaries which have received funding under the grant must grant access to their results — on a royalty-free basis — to the granting authority, EU institutions, bodies, offices or agencies for developing, implementing and monitoring EU policies or programmes. Such access rights do not extend to beneficiaries' background.

Such access rights are limited to non-commercial and non-competitive use.

For actions under the cluster 'Civil Security for Society', such access rights also extend to national authorities of EU Member States for developing, implementing and monitoring their policies or programmes in this area. In this case, access is subject to a bilateral agreement to define specific conditions ensuring that:

- the access rights will be used only for the intended purpose and
- appropriate confidentiality obligations are in place.

Moreover, the requesting national authority or EU institution, body, office or agency (including the granting authority) must inform all other national authorities of such a request.

*Access rights for the granting authority, Euratom institutions, funding bodies or the Joint Undertaking Fusion for Energy — Euratom actions*

In Euratom actions, the beneficiaries which have received funding under the grant must grant access to their results — on a royalty-free basis — to the granting authority, Euratom institutions, funding bodies or the Joint Undertaking Fusion for Energy for developing, implementing and monitoring Euratom policies and programmes or for compliance with obligations assumed through international cooperation with non-EU countries and international organisations.

Such access rights include the right to authorise third parties to use the results in public procurement and the right to sub-license and are limited to non-commercial and non-competitive use.

*Additional access rights*

Where the call conditions impose additional access rights, the beneficiaries must comply with them.

**COMMUNICATION, DISSEMINATION, OPEN SCIENCE AND VISIBILITY (—  
ARTICLE 17)**

**Dissemination**

*Dissemination of results*

The beneficiaries must disseminate their results as soon as feasible, in a publicly available format, subject to any restrictions due to the protection of intellectual property, security rules or legitimate interests.

A beneficiary that intends to disseminate its results must give at least 15 days advance notice to the other beneficiaries (unless agreed otherwise), together with sufficient information on the results it will disseminate.

Any other beneficiary may object within (unless agreed otherwise) 15 days of receiving notification, if it can show that its legitimate interests in relation to the results or background would be significantly harmed. In such cases, the results may not be disseminated unless appropriate steps are taken to safeguard those interests.

### Additional dissemination obligations

Where the call conditions impose additional dissemination obligations, the beneficiaries must also comply with those.

## **Open Science**

### Open science: open access to scientific publications

The beneficiaries must ensure open access to peer-reviewed scientific publications relating to their results. In particular, they must ensure that:

- at the latest at the time of publication, a machine-readable electronic copy of the published version or the final peer-reviewed manuscript accepted for publication, is deposited in a trusted repository for scientific publications
- immediate open access is provided to the deposited publication via the repository, under the latest available version of the Creative Commons Attribution International Public Licence (CC BY) or a licence with equivalent rights; for monographs and other long-text formats, the licence may exclude commercial uses and derivative works (e.g. CC BY-NC, CC BY-ND) and
- information is given via the repository about any research output or any other tools and instruments needed to validate the conclusions of the scientific publication.

Beneficiaries (or authors) must retain sufficient intellectual property rights to comply with the open access requirements.

Metadata of deposited publications must be open under a Creative Common Public Domain Dedication (CC 0) or equivalent, in line with the FAIR principles (in particular machine-actionable) and provide information at least about the following: publication (author(s), title, date of publication, publication venue); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the publication, the authors involved in the action and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for any research output or any other tools and instruments needed to validate the conclusions of the publication.

Only publication fees in full open access venues for peer-reviewed scientific publications are eligible for reimbursement.

### Open science: research data management

The beneficiaries must manage the digital research data generated in the action ('data') responsibly, in line with the FAIR principles and by taking all of the following actions:

- establish a data management plan ('DMP') (and regularly update it)

- as soon as possible and within the deadlines set out in the DMP, deposit the data in a trusted repository; if required in the call conditions, this repository must be federated in the EOSC in compliance with EOSC requirements
- as soon as possible and within the deadlines set out in the DMP, ensure open access — via the repository — to the deposited data, under the latest available version of the Creative Commons Attribution International Public License (CC BY) or Creative Commons Public Domain Dedication (CC 0) or a licence with equivalent rights, following the principle ‘as open as possible as closed as necessary’, unless providing open access would in particular:
  - be against the beneficiary’s legitimate interests, including regarding commercial exploitation, or
  - be contrary to any other constraints, in particular the EU competitive interests or the beneficiary’s obligations under this Agreement; if open access is not provided (to some or all data), this must be justified in the DMP
- provide information via the repository about any research output or any other tools and instruments needed to re-use or validate the data.

Metadata of deposited data must be open under a Creative Commons Public Domain Dedication (CC 0) or equivalent (to the extent legitimate interests or constraints are safeguarded), in line with the FAIR principles (in particular machine-actionable) and provide information at least about the following: datasets (description, date of deposit, author(s), venue and embargo); Horizon Europe or Euratom funding; grant project name, acronym and number; licensing terms; persistent identifiers for the dataset, the authors involved in the action, and, if possible, for their organisations and the grant. Where applicable, the metadata must include persistent identifiers for related publications and other research outputs.

#### Open science: additional practices

Where the call conditions impose additional obligations regarding open science practices, the beneficiaries must also comply with those.

Where the call conditions impose additional obligations regarding the validation of scientific publications, the beneficiaries must provide (digital or physical) access to data or other results needed for validation of the conclusions of scientific publications, to the extent that their legitimate interests or constraints are safeguarded (and unless they already provided the (open) access at publication).

Where the call conditions impose additional open science obligations in case of a public emergency, the beneficiaries must (if requested by the granting authority) immediately deposit any research output in a repository and provide open access to it under a CC BY licence, a Public Domain Dedication (CC 0) or equivalent. As an exception, if the access would be against the beneficiaries’ legitimate interests, the beneficiaries must grant non-exclusive licenses — under fair and reasonable conditions — to legal entities that need the research output to address the public emergency and commit to rapidly and broadly exploit the resulting products and services at fair and reasonable conditions. This provision applies up to four years after the end of the action (see Data Sheet, Point 1).

#### **Plan for the exploitation and dissemination of results including communication activities**

Unless excluded by the call conditions, the beneficiaries must provide and regularly update a plan for the exploitation and dissemination of results including communication activities.

## **SPECIFIC RULES FOR CARRYING OUT THE ACTION (— ARTICLE 18)**

### **Implementation in case of restrictions due to strategic assets, interests, autonomy or security of the EU and its Member States**

Where the call conditions restrict participation or control due to strategic assets, interests, autonomy or security, the beneficiaries must ensure that none of the entities that participate as affiliated entities, associated partners, subcontractors or recipients of financial support to third parties are established in countries which are not eligible countries or target countries set out in the call conditions (or, if applicable, are controlled by such countries or entities from such countries) — unless otherwise agreed with the granting authority.

The beneficiaries must moreover ensure that any cooperation with entities established in countries which are not eligible countries or target countries set out in the call conditions (or, if applicable, are controlled by such countries or entities from such countries) does not affect the strategic assets, interests, autonomy or security of the EU and its Member States.

### **Recruitment and working conditions for researchers**

The beneficiaries must take all measures to implement the principles set out in the Commission Recommendation on the European Charter for Researchers and the Code of Conduct for the Recruitment of Researchers<sup>3</sup>, in particular regarding:

- working conditions
- transparent recruitment processes based on merit, and
- career development.

The beneficiaries must ensure that researchers and all participants involved in the action are aware of them.

### **Specific rules for access to research infrastructure activities**

#### **Definitions**

Research Infrastructures — Facilities that provide resources and services for the research communities to conduct research and foster innovation in their fields. This definition includes the associated human resources, and it covers major equipment or sets of instruments; knowledge-related facilities such as collections, archives or scientific data infrastructures; computing systems, communication networks, and any other infrastructure, of a unique nature and open to external users, essential to achieve excellence in research and innovation. Where relevant, they may be used beyond research, for example

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<sup>3</sup> Commission Recommendation 2005/251/EC of 11 March 2005 on the European Charter for Researchers and on a Code of Conduct for the Recruitment of Researchers (OJ L 75, 22.3.2005, p. 67).

for education or public services, and they may be ‘single-sited’, ‘virtual’ or ‘distributed’<sup>4</sup>:

When implementing access to research infrastructure activities, the beneficiaries must respect the following conditions:

- for transnational access:

- access which must be provided:

The access must be free of charge, transnational access to research infrastructure or installations for selected user-groups.

The access must include the logistical, technological and scientific support and the specific training that is usually provided to external researchers using the infrastructure. Transnational access can be either in person (hands-on), provided to selected users that visit the installation to make use of it, or remote, through the provision to selected user-groups of remote scientific services (e.g. provision of reference materials or samples, remote access to a high-performance computing facility).

- categories of users that may have access:

Transnational access must be provided to selected user-groups, i.e. teams of one or more researchers (users).

The majority of the users must work in a country other than the country(ies) where the installation is located (unless access is provided by an international organisation, the Joint Research Centre (JRC), an ERIC or similar legal entity).

Only user groups that are allowed to disseminate the results they have generated under the action may benefit from the access (unless the users are working for SMEs).

Access for user groups with a majority of users not working in a EU Member State or Horizon Europe associated country is limited to 20% of the total amount of units of access provided under the grant (unless a higher percentage is foreseen in Annex 1).

- procedure and criteria for selecting user groups:

The user groups must request access by submitting (in writing) a description of the work that they wish to carry out and the names, nationalities and home institutions of the users.

The user groups must be selected by (one or more) selection panels set up by the consortium.

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<sup>4</sup> See Article 2(1) of the Horizon Europe Framework Programme Regulation 2021/695.

The selection panels must be composed of international experts in the field, at least half of them independent from the consortium (unless otherwise specified in Annex 1).

The selection panels must assess all proposals received and recommend a short-list of the user groups that should benefit from access.

The selection panels must base their selection on scientific merit, taking into account that priority should be given to user groups composed of users who:

- have not previously used the installation and
- are working in countries where no equivalent research infrastructure exist.

It will apply the principles of transparency, fairness and impartiality.

Where the call conditions impose additional rules for the selection of user groups, the beneficiaries must also comply with those.

- other conditions:

The beneficiaries must request written approval from the granting authority for the selection of user groups requiring visits to the installations exceeding 3 months (unless such visits are foreseen in Annex 1).

In addition, the beneficiaries must:

- advertise widely, including on a their websites, the access offered under the Agreement
  - promote equal opportunities in advertising the access and take into account the gender dimension when defining the support provided to users
  - ensure that users comply with the terms and conditions of the Agreement
  - ensure that its obligations under Articles 12, 13, 17 and 33 also apply to the users
  - keep records of the names, nationalities, and home institutions of users, as well as the nature and quantity of access provided to them
- for virtual access:
    - access which must be provided:

The access must be free of charge, virtual access to research infrastructure or installations.

‘Virtual access’ means open and free access through communication networks to digital resources and services needed for research, without selecting the users to whom access is provided.

The access must include the support that is usually provided to external users.

Where allowed by the call conditions, beneficiaries may in justified cases define objective eligibility criteria (e.g. affiliation to a research or academic institution) for specific users.

- other conditions:

The beneficiaries must have the virtual access services assessed periodically by a board composed of international experts in the field, at least half of whom must be independent from the consortium (unless otherwise specified in Annex 1). For this purpose, information and statistics on the users and the nature and quantity of the access provided, must be made available to the board.

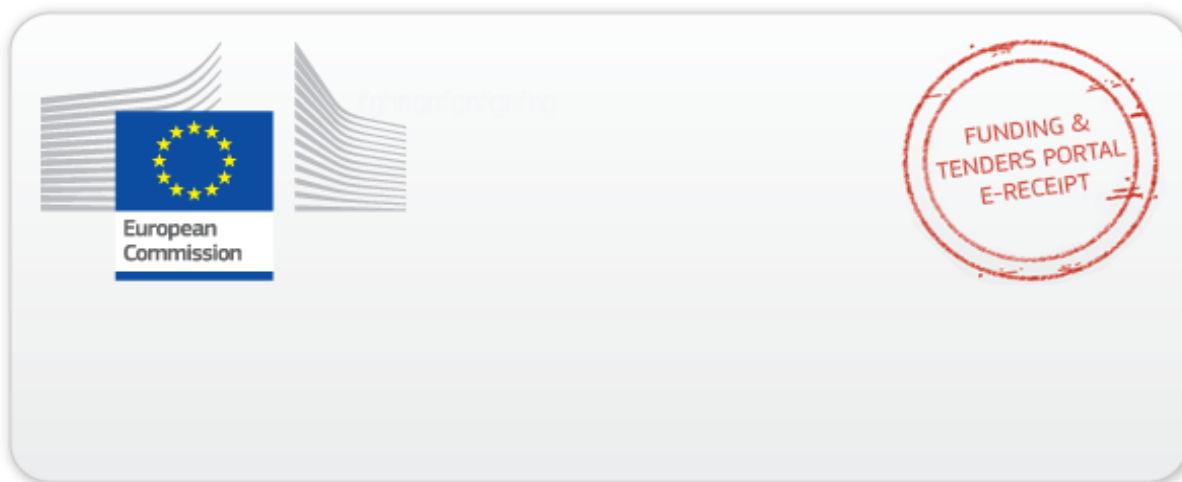
The beneficiaries must advertise widely, including on a dedicated website, the access offered under the grant and the eligibility criteria, if any.

Where the call conditions impose additional traceability<sup>5</sup> obligations, information on the traceability of the users and the nature and quantity of access must be provided by the beneficiaries.

These obligations apply regardless of the form of funding or budget categories used to declare the costs (unit costs or actual costs or a combination of the two).

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<sup>5</sup> According to the definition given in ISO 9000, i.e.: "Traceability is the ability to trace the history, application, use and location of an item or its characteristics through recorded identification data." The users can be traced, for example, by authentication and/or by authorization or by other means that allows for analysis of the type of users and the nature and quantity of access provided.



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