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Evaluation of opportunities for prevention, reduction, recycling and reuse of FLW in Ukraine

Roza Sagitova

Senior Lecturer, PhD Supervisor
Faculty of Business & Law,
School of Accounting, Economics and Finance,
Portsmouth Business School

University of Portsmouth,
Portsmouth, UK

Volodymyr Filippov

Professor, Doctor of Economic Sciences,
Department of Management,
Institute of Economics and Management

Odessa Polytechnic National University,
Odessa, Ukraine



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1. The purpose of the project and subjects of the investigation

- **The purpose** of the current project is to evaluate opportunities for FLW prevention, reduction, recycling and reuse



One of the significant challenges faced by society is food loss and waste (FLW). FLW has negative social (food security), environmental (GHG emissions, land degradation), and financial implications (FLW costs). UN developed a 2030 Agenda for Sustainable Development, which addresses FLW problem (SG 12) and calls for substantial waste reduction through 'prevention, reduction, recycling and reuse (SG 12.5) and adoption of sustainable practices (SG 12.6)



This project addresses the «priority vertical» identified by the Ukrainian Government, Food tech/Agtech, particularly FW management, to help Ukraine economy to be more socially, environmentally and financially sustainable.



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2. Tasks of the project

The study will seek to answer to the following questions:



- What are the drivers of FLW in Ukraine?
- What food is the most lost or wasted?
- At what point food is lost or wasted?
- What businesses currently exist to deal with FW?
- How do Ukrainian companies manage their FW?



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3. Waiting for project results

The partner in Ukraine has established links with constituents within micro-enterprises. More importantly, these constituents have exposure to sustainability issues, and specifically to FLW. This will allow us to conduct a survey and analyze the data collected.

- Systematic literature review of academic and professional evidence on FLW in developing context, and particularly in Ukraine
- Develop primary data collection tools for conducting a survey
- Conduct survey of micro-enterprises in Ukraine
- Analysis of primary and secondary data



The project aims to achieve the following results:

- UK partner will lead on literature review on FLW in developing economies
- Ukrainian partner will lead on literature, policy and other State reports review on FLW in Ukrainian context as an analytical report in English and Ukrainian for publication on the scientific-economic portal of Odessa Polytechnic University: <https://economics.net.ua/analytics>
- Presentations at scientific conferences, as indicated on the following link: <https://economics.net.ua/ua/conferences>
- Submission working paper on current state of FLW management among micro-enterprises in Ukraine and working paper on opportunities for FLW prevention, reduction, recycling and reuse among micro-enterprises in Ukraine published in specialized journals and/or on the economic scientific portal: <https://economics.net.ua/uk/journal>, <https://economics.net.ua/uk/journal-print>, <https://mdt-opu.com.ua/index.php/mdt>
- At least one journal article to Accounting, Auditing and Accountability Journal or The British Accounting Review (REF3*/ABDC 4*)
- Submission of the final report on the results of the project



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4. Road map of the project

Road map of the project

March-April	April-May	May-June	June-July	July-August	August-December
Preliminary	Planning	Execution	Analysis	Completion	Finishing
Formation of a theoretical basis for the study	Investigation of current situation of FLW in developing economies and Ukrainian context	Development of survey questionnaires, translation and coordination with ethical commissions of partner universities	Conducting a survey to data collection	Qualitative and quantitative analysis of received data, preparation and dissemination of results	Submission of the final report on the results of the project

Stages of the project

Project Stages	March	April	May	June	July	August	December
I. Preliminary	Literature review (Analytical report), Design of questionnaire, Translation (Ukrainian-English)						
II. Planning		Ethics Approval, Participation in conference, Translation (English-Ukrainian),					
III. Execution			Ethics Approval, Preparation of academic papers, Mock test				
IV. Analysis				Distribute the questionnaires, Conducting a survey			
V. Completion					Qualitative and quantitative analysis, Preparation of academic paper		
VI. Finishing						Final report	



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5. Obtained project results

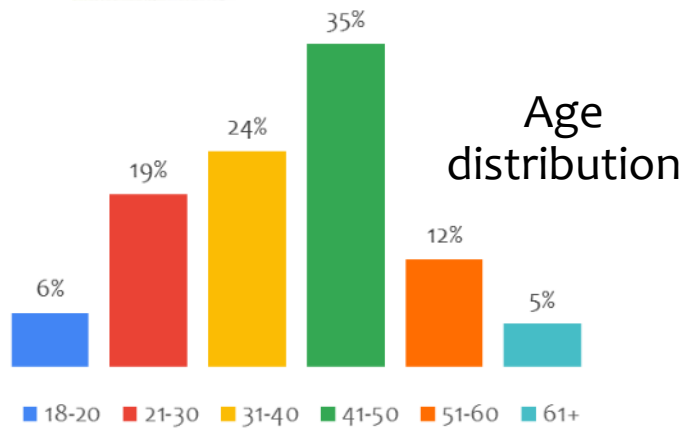
- The analytical research in Ukrainian language "Assessment of the current situation and opportunities for the prevention, reduction, processing and reuse of food losses and food waste in Ukraine" is available on the scientific-economic portal of Odessa Polytechnic University at the following link: https://economics.net.ua/files/analytics/01_UUT17.pdf
- Participation in the international scientific conference: Current food loss and waste situation in Ukraine. Current Problems of Theory and Practice of Management : The XII International Scientific and Practical Conference, May 26, 2023, Odessa Polytechnic National University, Odesa, Ukraine. URL: <https://economics.net.ua/conf-m>
- Positive feedback and permissions for data collection were obtained from the Ethics Committee of the University of Portsmouth and the Ethics and Conflict Management Commission of Odessa Polytechnic National University. A test version of the questionnaire is available at: <https://forms.gle/V6C4HCy1TJT9nx1b8>
- The questionnaire for collecting analytical data for the project has been official posted on: <https://www.facebook.com/groups/onpu.online/posts/3409929472651113>
- Publishing the results in the form of articles on the Economic Science Portal of the Odesa Polytechnic National University in specialized publications.
- Article to Accounting, Auditing and Accountability Journal or The British Accounting Review (REF3*/ABDC 4*)



Surveys collected 85



55% / 45%



Have a higher education 68%

63%

Experienced entrepreneurs



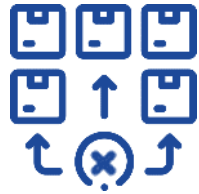
9,3% Have >10% FWL

85% Dispose <10 kg per day

77% Intend to avoid FWL



54% Prepared to limit the product range in order to meet consumer needs or fill shelves



Damaged products will not be accepted for resale **93%**

91% expired products are not accepted for resale



Unsold products are returned to the supplier **41%**

100% implemented at least some measures for managing FWL



Expressed a desire to participate in future interviews on the issue of FWL **7%**

Companies that measure
the quantity of food
losses and waste **81%**



68% measure their own financial
losses due to FLW

Believe that it is possible to
avoid FLW in the retail sector **88%**

91% «Food waste is bad
and harmful»



«Food waste incurs additional
expenses» **89%**

44% «I feel guilty towards people
who don't have enough
food»

«I feel guilty for the harm
to the environment» **49%**



The most significant obstacles to overcoming the issue of FLW

- Costs associated with implementing a FLW management system **13%**
- Access to technological means of food preservation **14%**
- Adherence to health and safety instructions **17%**
- Insufficient knowledge about ways to overcome the problem **22%**
- Other factors **34%**

100

Factors that promote the involvement of retailers in addressing the global issue of reducing FLW

- Tax incentives **69% / 100%**
- Relevant government policies **55% / 100%**
- Increased awareness among various stakeholders **66% / 100%**
- Financial incentives **84% / 100%**
- Well-developed waste management infrastructure **67% / 100%**

Acknowledgment:



This project was made possible through the UK-Ukraine R&I twinning grants scheme (<https://www.twinningukraine.com>), funded by Research England with the support of Universities UK International and UK Research and Innovation

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www.economics.net.ua

ECONOMIC SCIENTIFIC PORTAL



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Thank you very much for your attention!

[Roza Sagitova \(roza.sagitova@port.ac.uk\)](mailto:roza.sagitova@port.ac.uk)

Senior Lecturer, PhD Supervisor
Faculty of Business & Law, School of Accounting,
Economics and Finance,
Portsmouth Business School

[Lisa Jack \(lisa.jack@port.ac.uk\)](mailto:lisa.jack@port.ac.uk)

Professor, PhD Supervisor
Faculty of Business & Law, School of Accounting,
Economics and Finance

[\(v.filippov@op.edu.ua\) Volodymyr Filippov](mailto:v.filippov@op.edu.ua)

Professor, Department of Management

[\(voloschuk@op.edu.ua\) Lidiia Voloshchuk](mailto:voloschuk@op.edu.ua)

Professor, Head Of Accounting, Analysis and Audit Department

Yudin Mykhailo

Associate Professor, Accounting, Analysis and Audit Department

Lukianchuk Olena

Senior Lecturer, Department of Management

You can find detailed information about the project by following the link:
on the [Odessa Polytechnic National University](#) website or
on the [Economic Scientific Portal](#)