



## Interactive consultation workshop

### WS1: Scoping the future of circular economy in Ukraine

#### AIDE MEMOIRE AND AGENDA

**11 October 2023**  
**10:00-12:00 EEST**  
**09:00-11:00 CEST**

Online Meeting

Language: English

**MEETING LINK**

Action implemented by:



## Workshop 1: Scoping the future of circular economy in Ukraine

11 October 2023, 10:00 – 12:00 EEST / 09:00 – 11:00 CEST: Online

A Circular Economy is where products, parts and materials are circled back into the industrial system, creating additional value and less waste <sup>1</sup>. In a Circular Economy (CE) value is maintained for as long as possible, products are designed to last, waste and pollution are minimized, and renewable energy is used as much as possible. The CE is now a transformation in progress in many countries around the world. Such transformation depends on forming new synergies, between many sectors of business, and many material streams, in many locations.

To look ahead at the challenges, to mobilize the visions, and turn these into practical actions – this is the role of Foresight and strategic thinking.

This current project – the ‘Exploratory Strategic Foresight for Circular Economy in Ukraine’ - is managed by UNIDO, under the EU-funded EU4Environment Action, with additional funding from the German Government (BMZ).

### WORKSHOP OBJECTIVES

This interactive workshop will explore the issues, challenges and opportunities for the future development of the circular economy in Ukraine, as the ‘Scoping’ stage of this 4-part foresight exercise. The aims include:

- Agree on the project scope & case study ‘priority value chains’, with key sectors & locations
- Explore possible future visions and challenges for the CE transformation ahead
- Explore factors of change, uncertainty & possibility for the next stage of scenario development.

### PARTICIPANTS & LANGUAGE

The workshop includes international experts and representatives from key Ukrainian institutions, the project team, representatives of the national Resource Efficient and Cleaner Production Centre (RECPC), and UNIDO.

The Workshop plenary sessions and Working groups will be conducted in English. The online whiteboard can take notes in Ukrainian and/or English.

### PRACTICAL INFORMATION

The interactive consultation workshop 1: Scoping the future of circular economy in Ukraine will take place online, via Zoom, on October 11, 2023 (10:00-12:00 (EEST) / 09:00-11:00 (CEST)).

**To join the Workshop, please use the following meeting link**

<https://unido-org.zoom.us/j/85090548161?pwd=cmFQMkNPS3B4bjhVdE5nb0RlVzZoQT09>

**Meeting ID:** 850 9054 8161

**Passcode:** 810067

<sup>1</sup><https://www.unido.org/sites/default/files/files/2020-02/IRE%20and%20Circular%20Economy.pdf>

### CONNECTION DETAILS

**Zoom meeting link:**





<https://unido-org.zoom.us/j/85090548161?pwd=cmFQMkNPS3B4bjhVdE5nb0RlVzZoQT09>

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### AGENDA

*Moderator: Dr. Joe Ravetz, Lead Foresight Expert, UNIDO*

<i>Min</i>	<b>SESSION</b>	<b>QUESTIONS to be addressed</b>	<b>MATERIALS: METHODS (<i>italics</i>)</b>	<b>TEMPLATES</b>
10'	<b>Introduction</b>	Introduction to project & workshop method: (TC, JR) Round table of participants	Workshop briefing Participant list	
15'	<b>Overview &amp; method</b>	<i>What is a Circular Economy? (JR)</i> <i>How does the foresight method work (OS)</i>	Presentation with Q&A	
20'	<b>Scoping</b>	Introduction to scoping notes (JR) <i>What visions &amp; goals for the CE future?</i> <i>What challenges lie ahead?</i> <i>Which CE priority value chains should we focus on?</i>	General discussion	
5'	<b>Working groups</b>		<i>(FORM WORKING GROUPS: as on list below)</i>	
20'	<b>Value chain mapping</b>	<i>For each value chain, what are 'strengths / weaknesses / opportunities / threats' (SWOT)?</i> <i>What are key visions &amp; goals for each value chain?</i> <i>What challenges lie ahead?</i>	<i>Notes can be marked up with the 'value chain' template:</i> <i>'crystal ball' template:</i>	 
20'	<b>Trends &amp; drivers of change</b>	<i>What trends &amp; changes are likely for each value chain? (short / long term: social / tech / economic etc).</i> <i>Which changes are the most uncertain &amp; highest impact?</i>	<i>Notes can be marked up with '3 horizons' template:</i> <i>'winds of change' template:</i>	 
20'	<b>Review</b>	<i>What results so far from each PVC?</i> <i>What are the lessons so far for the CE Ukraine transformation?</i>	<i>(BACK TO FULL MEETING)</i> <i>Groups compare findings</i>	
10'	<b>Next steps</b>	Introduce the online survey <i>What are the next steps for the foresight project?</i>	General discussion	
	<i>Close of main meeting:</i>	<i>Informal discussion for 30 minutes (the 'virtual coffee shop' will be open)</i>		



## METHODOLOGY

This workshop is the first stage, i.e. ‘Scoping’, of a four-part process (see ‘Overview of methods’ below). The ‘Foresight scoping notes’ on the next page, provide some key questions / challenges to help start the discussion.

### Working groups & online whiteboard:

- Each working group of 4-6 participants is invited to focus on one of the proposed PVCs for the Circular Economy Ukraine.
- The moderators will allocate the working groups: however, participants may change group if needed.
- Each working group / key VC has a corner of the online Mural whiteboard, where they can post comments and upload material, through the whole program of 4 workshops.
- For this interactive workshop, the discussions can be reported verbally, and the moderator will upload a rapid transcription on the whiteboard.
- Participants who are happy to use the whiteboard are invited to view the ‘test page’ on <https://tinyurl.com/ynatpc9x> (including results from a preliminary workshop in Warsaw).
- See the Annex below for simple instructions on the Mural whiteboard system.

### PROPOSED CASE STUDIES / KEY VALUE CHAINS

1. buildings [KPVC “construction and buildings”];
2. food [KPVC “food, water and nutrients”];
3. clothes [KPVC “textiles”];
4. plastic packaging [KPVCS “plastic” and “packaging”];
5. small electronic products [KPVC “electronics and ICT”];
6. white goods;
7. cars [KPVC “batteries and vehicles”];
8. Biomethane Production
9. industrial organic waste

## BACKGROUND

### Foresight scoping notes

The circular economy is a far-reaching concept, with many benefits, and many examples of success. However, as with any major transformation, there are uncertainties, challenges, barriers or disruptions. Opportunities may not be realized easily, rather they depend on strategic cooperation and innovation, i.e. ‘synergy’, across the value chain – including business, policy, technology, consumers / communities, and civil society.

This foresight project aims to look ahead, beyond the short term ‘problem fix’ or ‘business opportunity’, to a more strategic future-oriented view. It aims to explore how such cooperation can work and mobilize the transformations ahead. So, here are some of the most topical questions / challenges for the CE transformation, (following the ‘STEEP’ of social, technology etc), in any sector from construction to electronics. This foresight project aims to explore these and more, and for each question / challenge, to explore and map the transformation ahead.

- **Social:** new systems of distribution & retail? New patterns of consumption / re-use? New skills needed, or new kinds of education & training?
- **Technology:** disruption / opportunities from AI & IOT? New forms of distributed production, responsive infrastructure? New advanced materials to help with re-use & recovery?
- **Economic:** new kinds of business models & investment models? New kinds of platforms for production & distribution? New sources of long-term finance for the CE transformation?
- **Environment:** new opportunities from damaged buildings & land? Or from decentralized energy / water systems? New waste management / recycling processes?
- **Policy & governance:** new forms of public-private-civic partnership enterprises? Could the CE be the primary economic development strategy? New kinds of re-investment, for economic transformation from primary sectors to knowledge economy? What are the regional effects across the Ukraine space?
- **External trade:** what role for the Ukraine national economy in Europe & the world? How to grow the value-added, building on existing skills and resources?

### Project methodology

For a complex project such as the development of a national circular economy (CE) roadmap, a process involving a broad range of actors, stakeholders and experts needs to draw on a shared conceptual framework for structured debate on current and future developments in the Ukraine CE system.

For this purpose, and in view of the practical limitations due to the current situation in the country, it is suggested to launch an exploratory foresight exercise to highlight the most important systemic elements of a functioning circular economy for a horizon of 2025-2040. The use of practical foresight methods with selected priority regions, economic sectors and value chains will help to mobilize the main systemic drivers of the future for the circular economy in the country.

### *Overview of Methods*

The proposed foresight methods and tools are based on the synergistic approach and pathways toolkit. This has been developed as a practical way of working with complex cognitive systems, i.e. foresight type challenges, which look beyond the direct 'problem-fixing', towards 'transformative innovation'.

The present project follows a 4-stage work methodology, including (1) scoping and analysis of the challenges and opportunities of CE development in Ukraine; (2) future scenarios elaboration; (3) future visions; (4) roadmapping the development of CE. The process is composed by evolving desk research, surveys, interactive workshops and panels of experts, and reporting. Each of these 4 main stages includes a set of templates for visual thinking / system mapping / creative and collaborative thinking. This is proposed in response to the 'multiplicity' of the circular economy agenda and includes business, finance, technology, urban design / construction, ecology, community and of course governance.

The diagram here shows the whole 4-stage cycle of future-looking creative thinking, using methods and tools on the synergistic foresight approach.

## SYNERGISTIC FORESIGHT PROCESS

A process model based on the synergistic method (Ravetz 2020)

Each stage uses visual templates: flip-charts, white-boards, off-line or online.

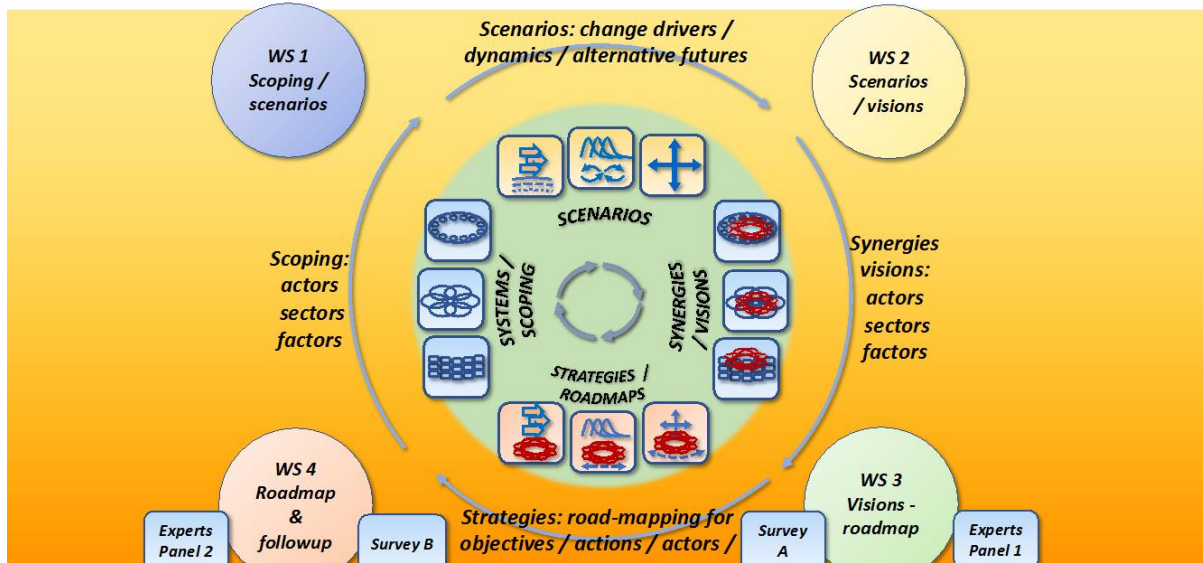


Figure 1: Illustration of the synergistic foresight process & Pathways Toolkit (Ravetz, 2020)

### About EU4Environment

The “European Union for Environment” (EU4Environment – Green Economy) Action helps the Eastern Partnership countries preserve their natural capital and increase people's environmental well-being, by supporting environment-related action, demonstrating and unlocking opportunities for greener growth, and setting mechanisms to better manage environmental risks and impacts.

It is funded by the European Union and implemented by five Partner organisations - OECD, UNECE, UNEP, UNIDO, and the World Bank – over the 2019-2024 period, with a budget of EUR 20 million.

For more information, please visit: [www.eu4environment.org](http://www.eu4environment.org).

### About the Industrial capacity-building, policy advice and diagnostics for the green recovery of Ukraine project

This program's objective is to provide technical support to the Government of Ukraine in conceptualizing and operationalizing a strategic approach towards green industrial reconstruction and development through the coherent, evidence-based and result-oriented green recovery programme for inclusive and sustainable industrial development, which is to be led and owned by the Government of Ukraine.

Through the project, UNIDO will work to support the establishment of an enabling environment for the green recovery of the country's industry, job creation, resilience building, sustained economic growth and the strengthening of the productivity and competitiveness of priority industrial sectors with high growth potential and investment attractiveness. The efforts on promoting circular economy and strengthening of recycling capacities of the country will focus on capacity building among civil servants and municipalities' employees as well as contributing to the strategy on CE implementation in Ukraine as a whole and specific supply chains/regions in particular.

**Key links:**

[www.unido.org/our-focus-cross-cutting-services/circular-economy](http://www.unido.org/our-focus-cross-cutting-services/circular-economy)

European Commission (2015) Closing the loop - An EU action plan for the Circular Economy.  
<https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52015DC0614>

Pathways Toolkit – [www.manchester.ac.uk/synergistics/toolkit/](http://www.manchester.ac.uk/synergistics/toolkit/)

Source text - [Deeper-City: Collective-Intelligence-and-the-Pathways-from-Smart-to-Wise](#)

**Contacts:**

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 Contact in Ukraine: Mr. Andrii Vorfolomeiev, Director of RECPC: [a.vorfolomeiev@recpc.org](mailto:a.vorfolomeiev@recpc.org)

**Annex: instructions for online whiteboard**

This online whiteboard has been developed for online working over the Covid period, as part of the Mind-Lab ([Laboratory for collective intelligence](#))

This version includes a series of tools and templates based on the synergistic method. The basic navigation is very easy and intuitive – see the ‘getting started’ box here. (more on [www.mural.co](http://www.mural.co) ).

In the first meeting the moderator will do most of the whiteboard activity. However any participants who are familiar with the system are invited to upload comments directly. Notes in Ukrainian language can be translated (on google etc.) after the meeting, and the text will be exported to a project report.

The whiteboard also works in collaboration with a 3D virtual ‘hub’ space with cafes, gardens & exhibitions (more suitable for participants with basic digital skills). This is ideal for informal chats after the main meeting.

