



Panel of Experts on Future Visions

Visions & Pathways for Circular Economy in Ukraine

AIDE MEMOIRE

07 December 2023
10:00 – 13:00 (Kyiv time)
09:00 – 12:00 (CET)

Online Meeting

Language: English, with Ukrainian interpretation

MEETING LINK

Action implemented by:



THE WORLD BANK
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Agenda

Panel of Experts on Future Visions Visions & Pathways for Circular Economy in Ukraine 7 December 2023





CONNECTION DETAILS

Zoom meeting link:

<https://unido-org.zoom.us/j/87523093963?pwd=Q2Z6a2JySG4zMnk2WWo5cWpWRVY0QT09>

Meeting ID: 875 2309 3963

Passcode: 902041

Min	SESSION	QUESTIONS to be addressed	MATERIALS & METHODS	TEMPLATES
30'	Introductions	Introduction to project <i>Tatiana Chernyavskaya, UNIDO</i> Round table of participants Overview of CE & workshop method <i>Prof. Joe Ravetz, Manchester University</i>	Project summary Participant list Presentation	
15'	Review	Scenario & Survey results <i>Prof. Ozcan Saritasz</i> <ul style="list-style-type: none"> What challenges or opportunities for CE-Industry-Ukraine? Which Key Product Value Chains (KPVC) are the priority? 	Presentation General discussion	
10'	Working groups	Practical instructions for working groups <i>Prof. Joe Ravetz, Manchester University</i>	(GO TO KPVC WORKING GROUPS)	
30'	Future-proofing	Scenario-based future proofing: (choose 2 scenarios from the 4) <ul style="list-style-type: none"> What are the best / worst scenarios for your KPVC / KIS? How could your KPVC move towards CE principles in these 2 scenarios? 	Notes can be marked on the templates – <ul style="list-style-type: none"> 'business model': 'cross-roads': 	 
5'	BREAK			
30'	Visions for transformation	Visioning the long-term CE transformation: <ul style="list-style-type: none"> Which are the top 6 visions for transformation in your KPVC / KIS: 'business; industry; environment; technology; society; infrastructure; governance'? What are the main challenges & barriers for each in the medium and long term? 	Notes can be marked on the template: <ul style="list-style-type: none"> 'crystal ball 3.0' 	
30'	Pathways & Enablers	Pathways & enablers for long-term CE transformation: <ul style="list-style-type: none"> Which are the top 6 'pathways / enablers of transformation' which can mobilize the CE for your KPVC / KIS: i.e. the most effective & future proof actions? (from the menu) (any others not on the menu??) 	Notes can be marked on the template: <ul style="list-style-type: none"> 'business model 3.0' 	



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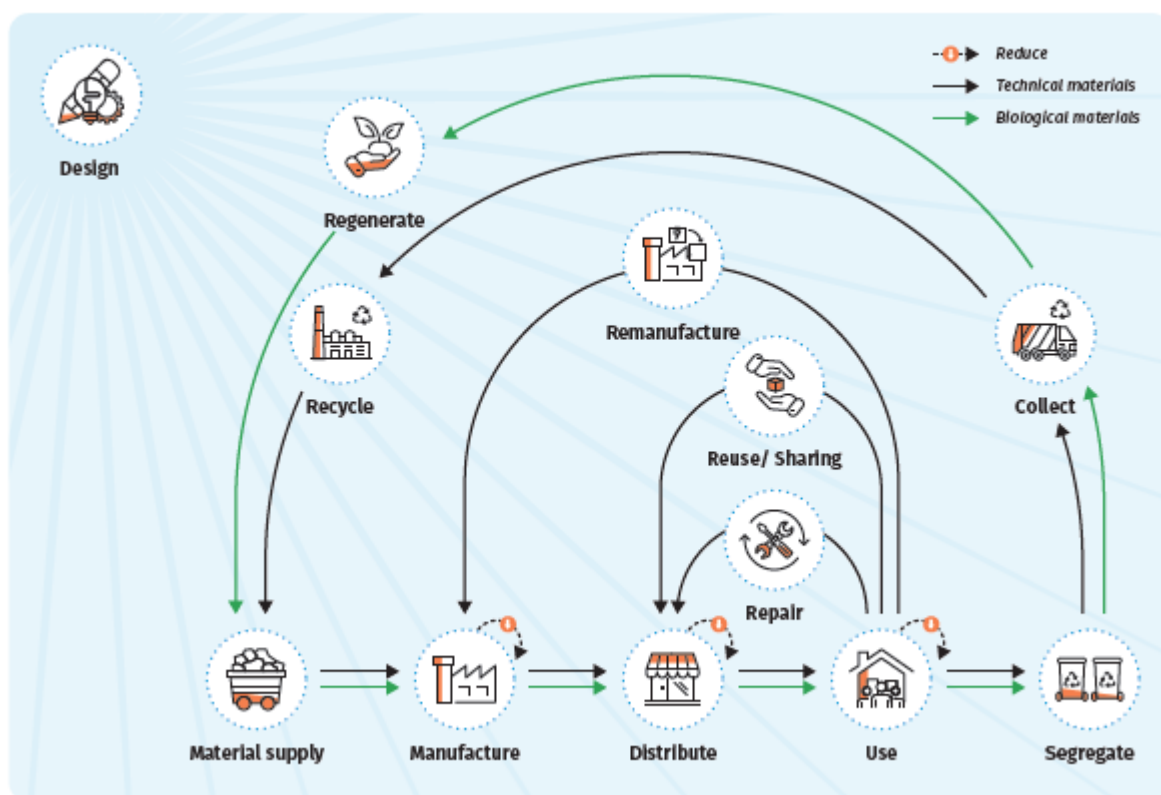
20'	Review	<i>What results so far from each KPVC? What does this mean for CE Ukraine?</i>	<i>(BACK TO FULL MEETING)</i>	
10'	Next steps	<i>Introduce the next stage & Survey B What are the next steps for this project?</i>	General discussion	
Total 180'	<i>Close of main meeting:</i>	<i>Informal discussion may continue (the 'virtual coffee shop' will be open)</i>		

1. Panel program & method

A Circular Economy is where products, parts and materials are circled back into the industrial system, creating additional value and less waste ¹. 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.

CIRCULAR ECONOMY PRACTICES



This activity – the ‘Exploratory Strategic Foresight for Circular Economy in Ukraine’ - is managed by UNIDO, under the EU-funded EU4Environment Action, with support from the German Government (BMZ). The activity is conducted in close collaboration with the “Circular Economy - Promotion of sustainable production and consumption patterns in Ukraine” project funded by the Delegation of the European Union to Ukraine.

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



OBJECTIVES

This interactive Panel of Experts works on the third stage - '**Visioning**' - of this 4-stage foresight exercise. The Panel will explore the scenarios, visions and pathways for the future development of the CE in Ukraine's industry. The aims include:

- Overview of the Scoping report, Scenario report & Survey (A) results
- Future-proof the selected KPVCs (Key Product Value Chains) with the scenarios approach
- Explore the key **visions, transformations, pathways and enablers** for the selected KPVCs
- Review the implications for the whole CE-Ukraine agenda.

QUESTIONS TO BE ADDRESSED

- Which Key Product Value Chains (KPVC) are the priority?
- What are the best / worst futures for your selected KPVC?
- How could your KPVC work with CE principles in these scenarios?
- Which are the top 5 transformations, from 'business; industry; environment; technology; society; infrastructure; governance'?
- What are the main challenges & barriers for each in the medium and long term?
- Which are the top 5 'enablers' on the list - i.e. the most effective actions for your KPVC? (any others not yet on the list?)
- What results so far from each KPVC?
- What does this mean for CE in Industry Ukraine?

'KEY PRODUCT VALUE CHAINS' & 'KEY INFRASTRUCTURES'

The priority 'KPVCs' are based on the EU Circular Economy Strategy:

- Construction, buildings
- Food, water, land
- Clothing, textiles
- Electronics, ICT etc
- Household appliances
- Automotive, batteries
- Plastic, packaging

The priority 'KIS' ('Key Infra-Structures') are industrial systems which are integral to the CE transition.

- Energy systems
- Minerals & metals
- Waste management

The priority 'KET' (Key Emerging Technologies) are frontier knowledge systems & CE catalysts, where success depends on EU cooperation (<https://digital-strategy.ec.europa.eu/en/activities/flagships>):

- Nano and advanced materials
- AI and quantum computing
- Human brain
- Energy and environment, etc.

PANEL METHODOLOGY

Working groups & online whiteboard:

- The Panel duration will be 3 hours, including break. The panel will be conducted in plenary sessions and in 4 working groups, based on the KPVC / KIS above.
- The moderators will allocate the working groups: however, participants may change group if needed.
- Each working group has its own corner of the online Mural whiteboard, where they can post comments and upload links / media etc., through the program of 3 workshops.
- Participants who are familiar with whiteboard methods are invited to view ‘work in progress’ on <https://tinyurl.com/ynatpc9x>
- Participants are invited to post notes on the templates provided
- See the Annex below for simple instructions on the Mural whiteboard system.

PARTICIPANTS & LANGUAGE

The Panel plenary sessions will be conducted in English with Ukrainian interpretation. Working groups are free to work in Ukrainian and/or English. The online whiteboard can take notes in Ukrainian and/or English.

The Panel gathers an invited number of experts from all sectors of society, who are interested in the CE approach to recovery and development of the industrial sector in Ukraine.

- a) CE-related issues: active interest and/or experience;
- b) Innovation / foresight-related issues: active interest and/or experience.

These invited experts will participate in two panels:

- Visions for transformation (7th December)
- Transformation pathways and actions (January 2024, date to be confirmed)

PRACTICAL INFORMATION

The 1st Panel of Experts “Visions & Pathways for Circular Economy in Ukraine” will take place online, via Zoom, on December 07, 2023 (10:00-13:00 (EET) / 09:00-12:00 (CET)).

To join the Panel of Experts, please use the following meeting link

<https://unido-org.zoom.us/j/87523093963?pwd=Q2Z6a2JySG4zMnk2WWo5cWpWRVY0QT09>

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DOCUMENTATION

- **Prior to the Panel:** Aide Memoire, Project Flyer, Scoping Report Summary, Scenarios Report Summary, Survey A summary report

- **After the Panel:** Proceedings report, Report on Future visions on the development of CE in Ukraine

Glossary: see project website - <http://www.recpc.org/circular-economy/>



2. Background: project & methodology

For a complex project such as the development of a national circular economy (CE) pathway, 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 CE for a horizon of 2025-2050. 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.

The foresight time horizon is long-term, focusing on broader, more speculative possibilities that might affect one's environment or organization. The strategy time horizon pertains to the timeframe within which a specific strategy or plan is expected to be implemented and yield results. This horizon is typically shorter and more concrete, centred on achievable goals and the practical steps needed to reach them. While foresight involves broader, long-term thinking to prepare for various future scenarios, strategy is more about immediate actions and plans based on current understanding and projections. Balancing these two horizons is essential for effective decision-making, ensuring readiness for future challenges while also achieving current objective. Thus the current foresight exercise is expected to be used for development of CE strategy and related action plan for Ukraine.

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 for industrial development in Ukraine; (2) future scenarios elaboration; (3) future visions; (4) finding a pathway (roadmapping) the development of CE for industry. 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 from the 'synergistic foresight' approach.

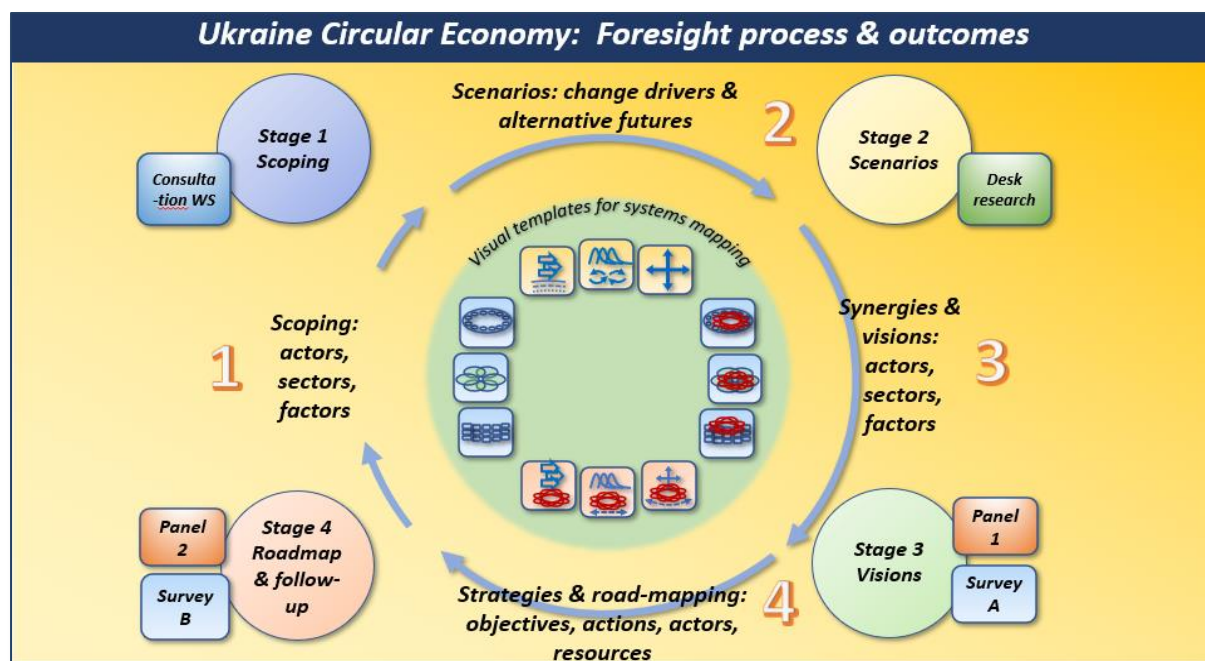


Figure 1: Illustration of the synergistic foresight & Pathways Toolkit (based on Ravetz, 2020)

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.

About Industrial capacity-building, policy advice and diagnostics for the green recovery of Ukraine: Output 5. Circular Economy

The 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 under the Output 5 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:

- Project page: <http://www.recpc.org/novyny-en/ce-foresight-1-interactive-workshop-11102023/>
- EU4Environment: www.eu4environment.org.
- UNIDO policy: 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/
- Source text - [Deeper-City: Collective-Intelligence-and-the-Pathways-from-Smart-to-Wise](#)

Contacts:

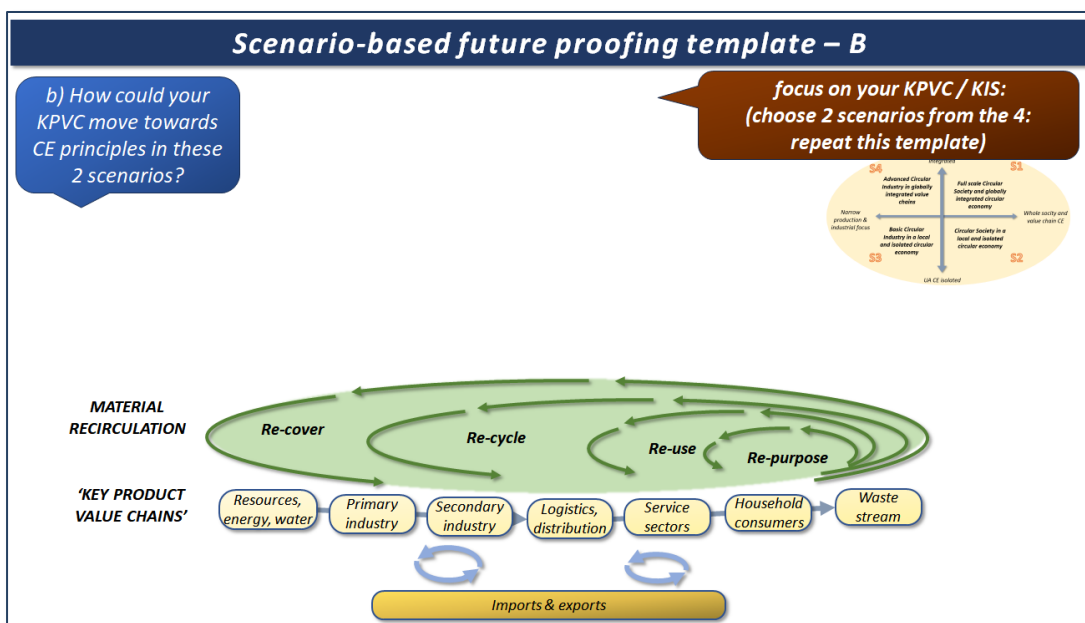
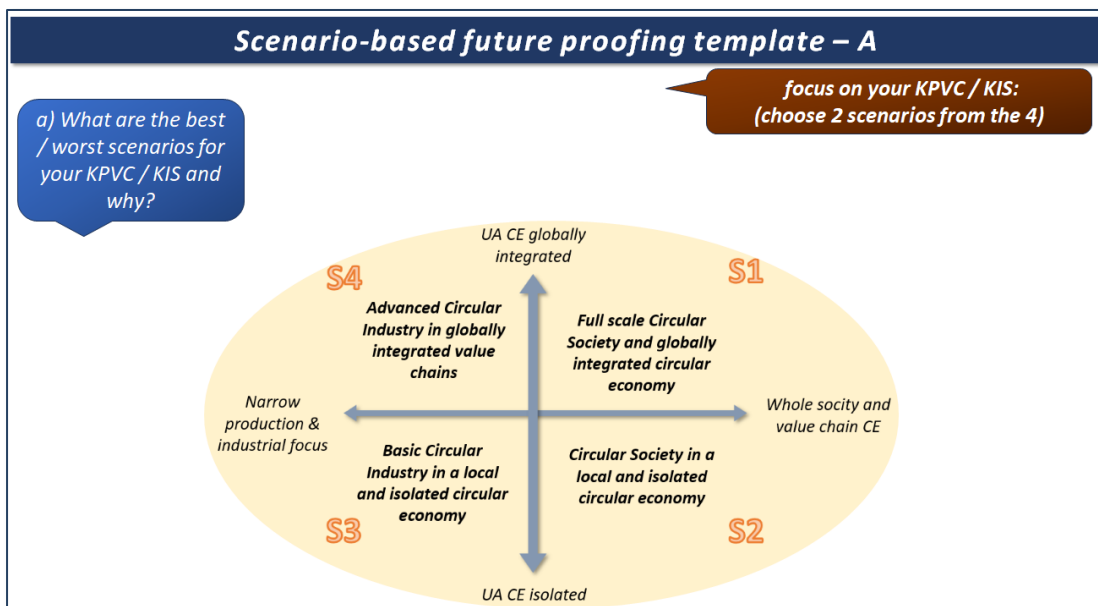
- UNIDO-EU4Environment: Ms. Tatiana Chernyavskaya, Project Manager: t.chernyavskaya@unido.org
- Contact in Ukraine: Mr. Andrii Vorfolomeiev, Director of RECPC: a.vorfolomeiev@recpc.org

3. Annex

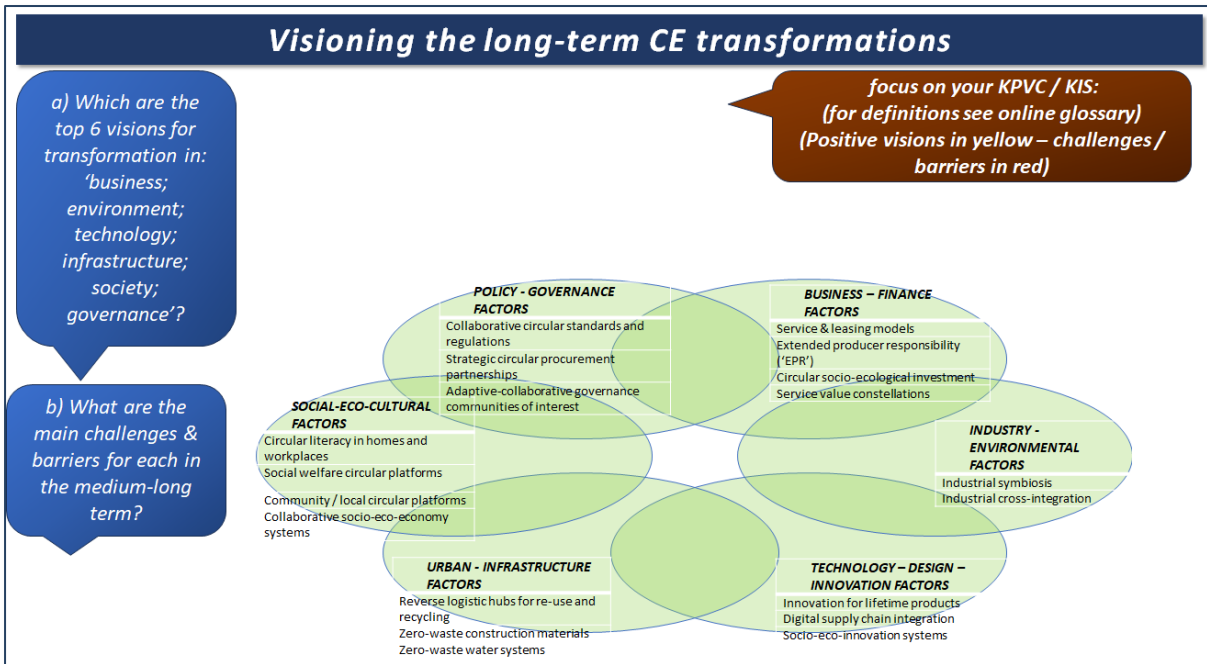
a. Templates for online whiteboard

These templates are provided for each of the KPVC /KIS working groups, in the online whiteboard workspace. They will help to structure the comments and ideas, with a systems perspective, for each of the workshop questions.

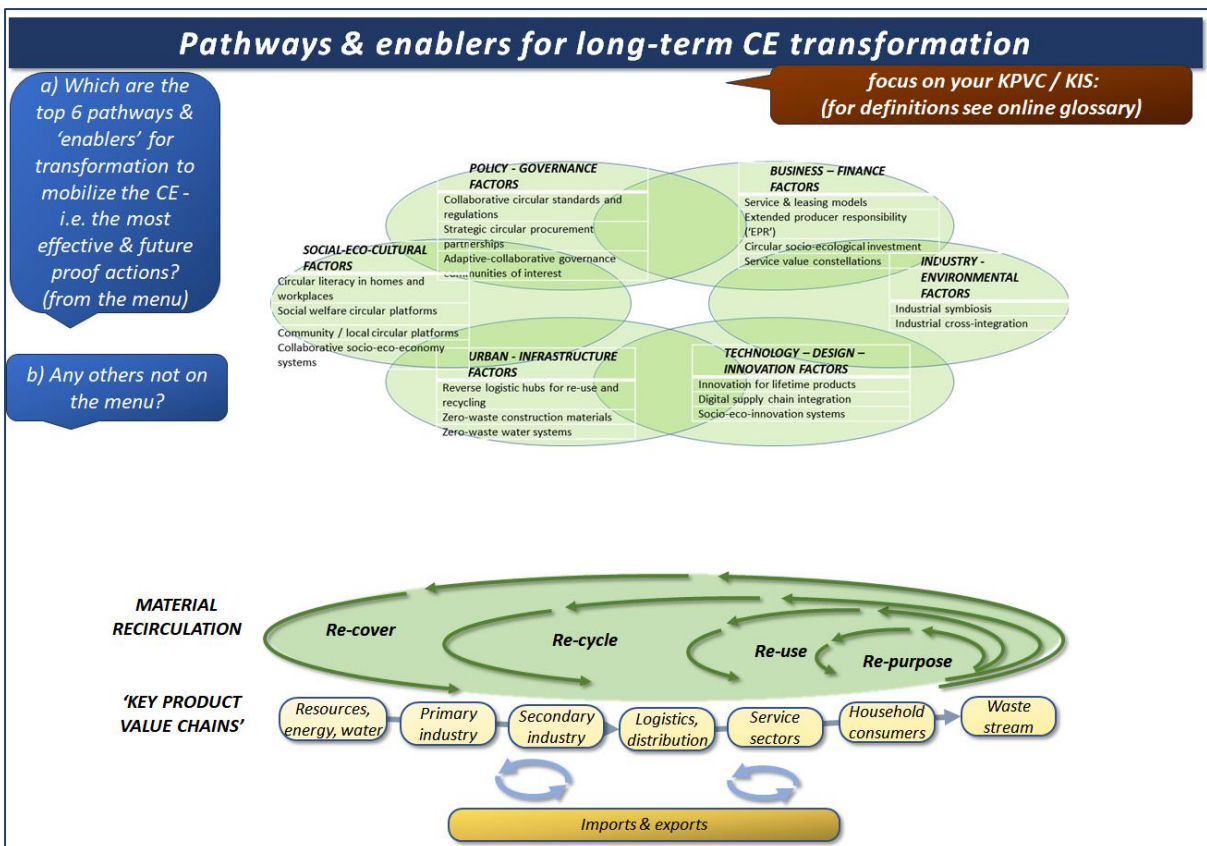
SCENARIO-BASED FUTURE PROOFING TEMPLATES (A & B)



VISIONS FOR TRANSFORMATION TEMPLATE



PATHWAYS & ENABLERS TEMPLATE



b. 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).

Participants who are familiar with the online whiteboards are invited to upload comments directly, as far as possible with the templates above. Otherwise the moderator will put up notes from the discussions as far as possible.

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. (link to follow)

