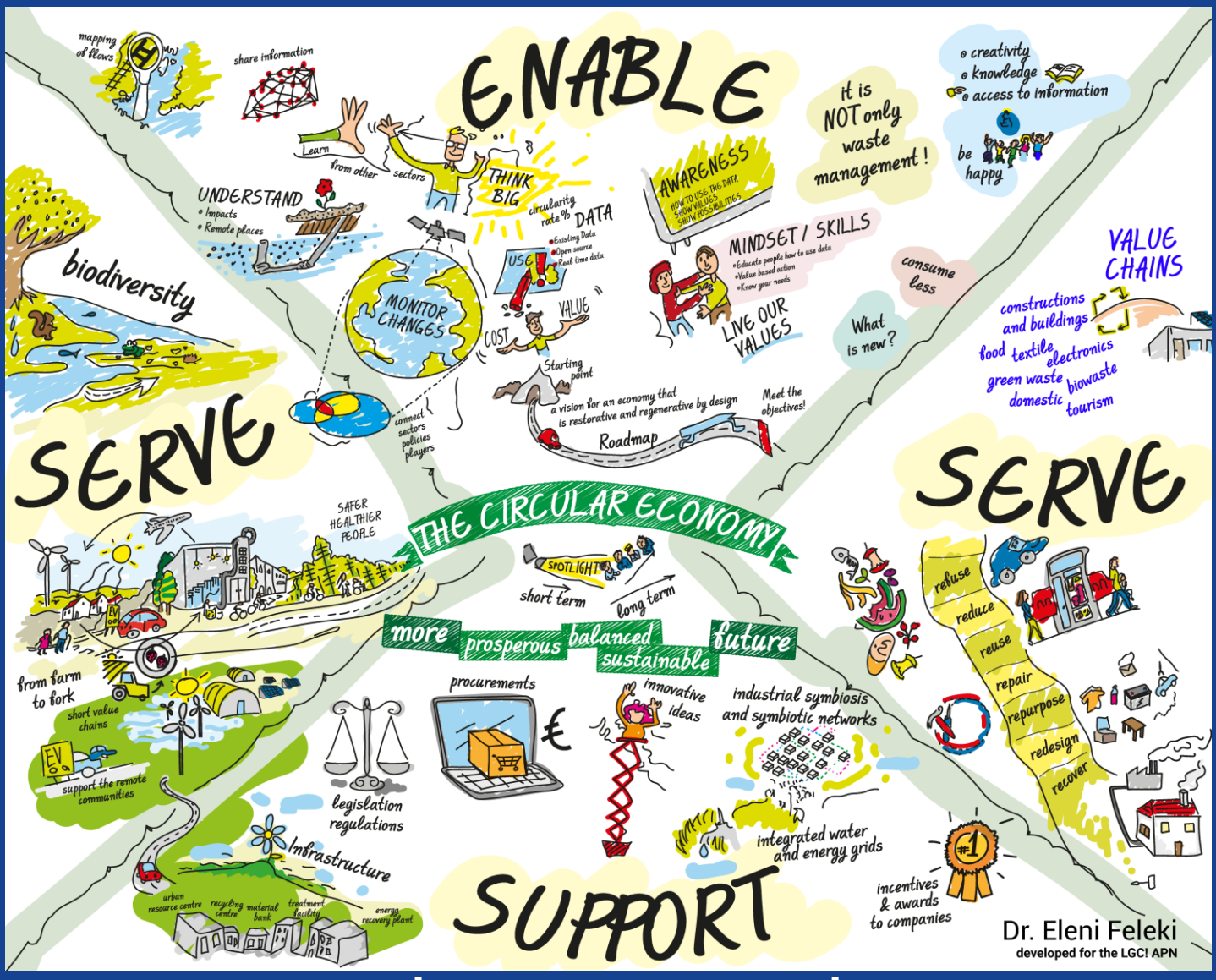
LET'S GO CIRCULAR!

Paving the way for a circular transition of cities

June 2024

2nd QUARTERLY REPORT

By Dr. Eleni Feleki, Lead expert



4th Transnational Meeting in Riga. Themes discussed: reuse of empty buildings and open space, environmental footpring calculation in public events, digital platforms to link supply and demand, urban resource centres and household waste management.

5th Transnational Meeting in Oulu. Themes discussed: digital tools serving circular economy, water circularity, education, energy.

6th Transnational Meetings will be held in October in Malmo and will include the mid-term reflection.

URBACT

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Interreg

LET'S GO CIRCULAR!

Paving the way for a circular transition of cities

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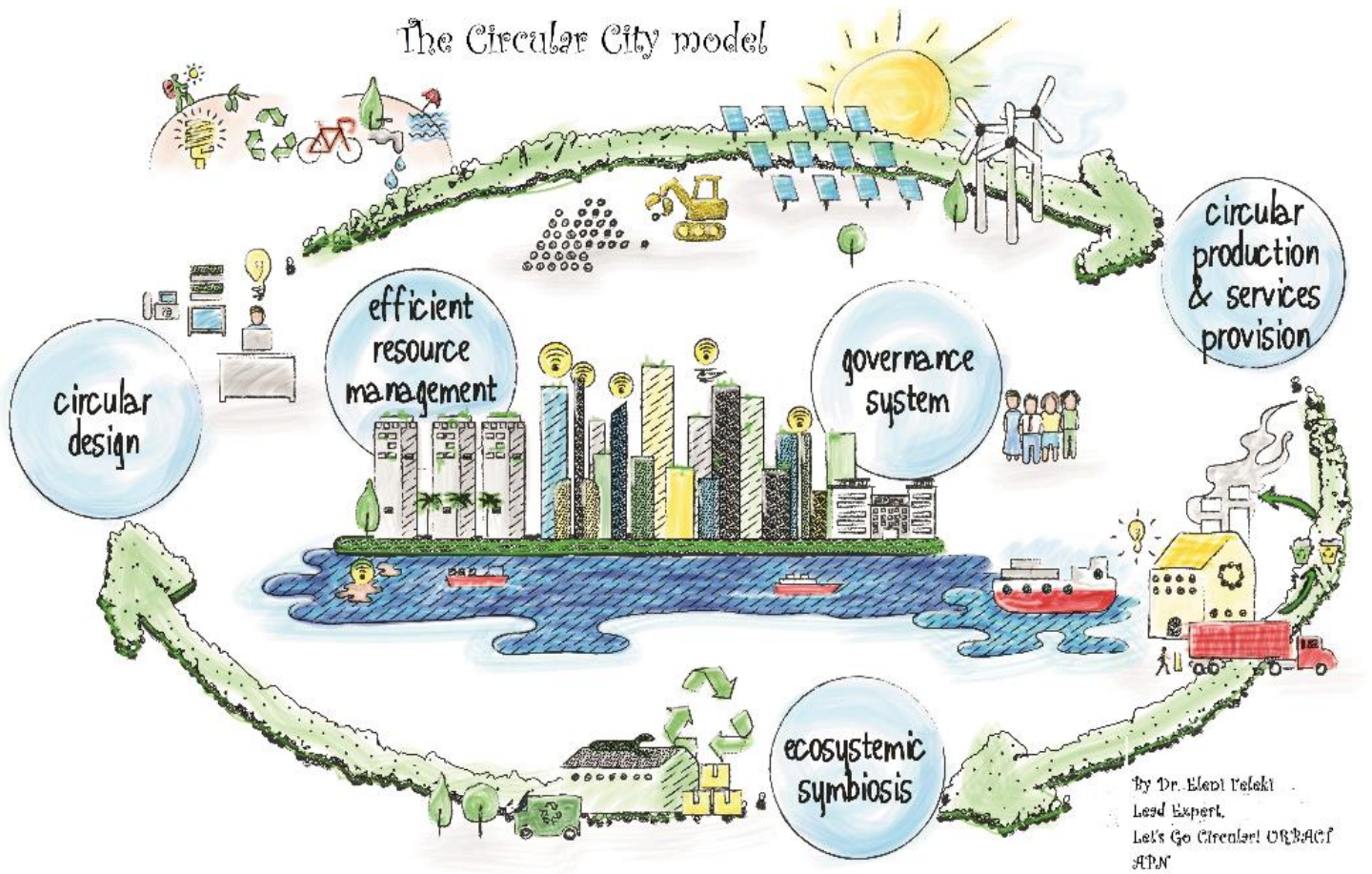
LET'S GO CIRCULAR!

Paving the way for a circular transition of cities

The network in a nutshell

With **Munich as Lead Partner**, the URBACT "LET'S GO CIRCULAR! – Paving the way for a circular transition of cities" Network started in **June 2023**. The cities that take part in the network, apart from Munich, include Cluj-Napoca in Romania, the Greek island of Corfu, Granada in Spain, Malmö in Sweden, Riga in Latvia, Oulu in Finland, as well as Guimarães and Lisbon in Portugal and Tirana **Our understanding of the circular city** is depicted here!



The themes of focus of the network are the following:

1.Governance

2. Education, information, capacity building for circular consumption patterns

3. Development of methodologies and tools

4. Fostering innovation and entrepreneurship

5. Infrastructure

4th transnational meeting in Riga

Message from the political representative

Riga envisions itself as a city that is clean, circular, and climate-neutral, embodying resilience, innovation, and environmental stewardship. With efficient resource management and collaborative efforts across sectors, including residents, businesses, cultural institutions, academia, and government, we strive for sustainability justice in environmental, social, and economic aspects. There are eight priority areas for Riga: i) economy and public outdoor spaces, ii) circular economy hubs and household matters, iii) cultural and creative industries, iv) manufacturing, v) waste management, vi) bioresources, vi) mobility, vii) energy and constructions.

Source: Mr. Viesturs Zeps, elected Councillor, Head of Riga Municipality Housing and Environment Committee

Our ice break

A new pin is added to our hat that will continue its journey from city to city, until our final event in Granada, in December 2025. This is an amusing activity that will be taking place in every transnational meeting. All the participants enjoy the opportunity to wear the LGC! Hat, with the brand new pin offered by the hosting partner.

4th transnational meeting in Riga – Highlights

Riga's action plan Riga on circular construction

The actions that are included in Riga's action plan on circular construction and deconstruction are the following, out of which the first two, are already implemented:

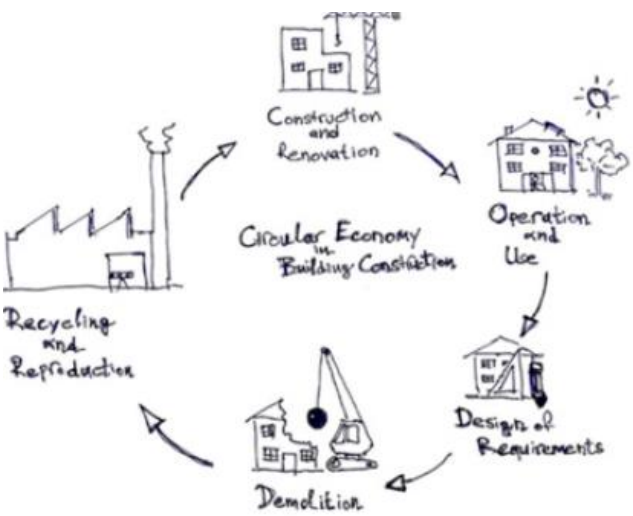
Action 1	Introductory CE course in higher education
Action 2	Stimulate efficient use of office space
Action 3	Guidelines for seven different audiences
Action 4	Capacity building programmes for employees of Riga municipality
Action 5	Development of the municipal material exchange point
Action 6	Documentation for green procurement including CE criteria
Action 7	Construction/ Renovation/ Dismantling of buildings following CE principles
Action 8	Agreement on regulatory improvements and market incentives at the local level
Action 9	Establishment of the Riga Energy Agency Circular Economy unit
Action 10	Create data monitoring framework for CE measurement in built environment
Action 11	Material flow analysis

For more info: Mrs Ieva Kalnina, Riga Energy Agency

4th transnational meeting in Riga – Highlights

Challenges in boosting circular economy in constructions

Although **>70% of construction and demolition waste needs to be sorted** for re-use, it is very difficult to handle this stream on the construction site. Also, although the emissions from the transportations must be reduced, the **handling on site is again, very difficult.** Although one may re-use the construction products or secondary materials on site, in case this is stated in the licence, **the handling is still, very difficult,** mainly a. due to the mineral debris that must comply with the soil requirements and b. because one must bear **all responsibility of the producer**. Moreover, although a concrete pile can be driven into the ground as a structural element of a building, and it can stay there for years, as soon as one crashes it into pieces and wants to put those pieces back at the exact place, these must comply with the soil requirements.
And finally, in terms of reusing End of Waste (EoW) material, there is **lack of technical standards.**



Scheme developed by Eleni Feleki

Changes in regulatory frameworks are expected, some of which:

- Level(s), EU Guidelines for the waste audits before demolition and EU Construction & Demolition waste management protocol – under review.
- CEN / TC 350/SC 1 "Circular economy in the construction sector" – 34 areas with numerous harmonized technical standards (~1000) to be reviewed / re-developed by 2030

4th transnational meeting in Riga – Highlights

Circular dismantling piloting

The pilot initiatives in historical markets (ie Riga Central market), include circular demolition pilot, in collaboration with REA and Universities; a multimodal and combined transport point will start in 2030 and a temporary market and transport point will be implemented 2024-2030

Digital platform supporting R-strategies

A unique, one stop platform, that serves the following purposes:

- Provision of information on the possibilities of repairing goods, renting, exchanging things and other circular services throughout Latvia and things for re-use that are already available addressing people's needs
- Bridging citizens (customers) and organizations that offer goods, services and activities that replace the purchase of new things
- Promotion of the transition to a circular economy
- Facilitation of citizens to form more sustainable habits
- Collection of data for reporting on reuse in accordance with Directive 2008/98/EC of the European Parliament and of the Council

Several players collaborate for the design and operation of the platform at national level.

More information: https://www.lietovelreiz.lv/lv

4th transnational meeting in Riga – Highlights

Assessment of environmental impact in public events

The carbon footprint of the Song and Dance festiva held in Riga in 2023 was 1963 tCO2e in a total of 40.560 participants (~50 kgCO2e) Catering was responsinble for 60% of total emissions (consumed lunches: 44% and left overs 33%, snacks 14% and additional catering coffee, water: 9%), waste for 18% of total emissions (emissions from left overs: 71%, municipal waste:29%) and transport for 16% of total emissions.

For more information: janis@zalabriviba.lv

Gamification

Coordinated by Ieva Kalnina, we were split in two groups and played two board games:

Circularity Deck: A card deck of circular economy strategies and principles, with lots of tangible examples, plus a simple framework. Online and off-line version: https://www.circularitydeck.com/

Waste What? : A game on the many ways we can reuse stuff
Online printable version and rules:
https://tscriado.org/2023/04/24/wastewhat/

4th transnational meeting in Riga – Inspiring examples

Study visit at Clean R

Clean R is an industry leader in Latvia, with more than 75 years of experience. The Clean R group consists of six companies delivering more than 40 different environmental services to 50.000 clients around Latvia in fields such as waste management, property maintenance, cleaning and improvement of indoor and outdoor spaces, as well as cleaning of roads and public access areas.

The Let's Go Circular! group at the first permanent construction material exchange point in Latvia.

Community of practice

The topic of focus was reuse of buildings and empty spaces.

Ideas suitable for replication:

Creativity with secondary raw materials

Co-working space

Free shop for exchange of clothes and other goods

Offer of accommodation to people in need without having necessarily to assess their social condition through a pile of documents

Open space for artists

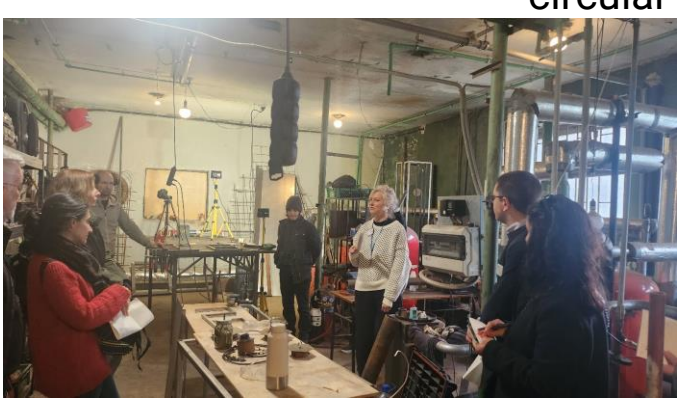
Free shop for exchange of goods and clothes

4th transnational meeting in Riga – Inspiring examples

Study visit at Viskali

At the crossroads between the 5 microdistricts of Riga, people are creating their own city, designing solutions for a better life.
The association FREE RIGA opened its doors to the public at the end of 2019, offering more than 200 rooms, a concert hall and a green outdoor area for a new life. Previously, the Faculty of Mechanical Engineering, Transport and Aeronautics of Riga Technical University was located here.

By concluding a 25-year lease agreement with RTU, the goal in Viskaļi is to create a social innovation incubator, putting the improvement of the quality of life for everyone at the center. People are carrying out their activities based on their values and the principles of the social and circular economy.



About 180+ residents are staying in Viskali. There are workshops of artists and craftsmen, representatives of the non-governmental sector, entrepreneurs, scientists and many other creative and interesting people and animals!!

5th transnational meeting in Oulu - Highlights

Message from the Mayor

Oulu is known as tech city. 3 billion people daily use the tech developed in Oulu.
Oulu is the 5th city in Finland in terms of population, but in tech sector, it is ranked second after the capital.
However, we want to change that.
We aim for cultural climate change. To reconnect with each other.
We build the city for children and youth.

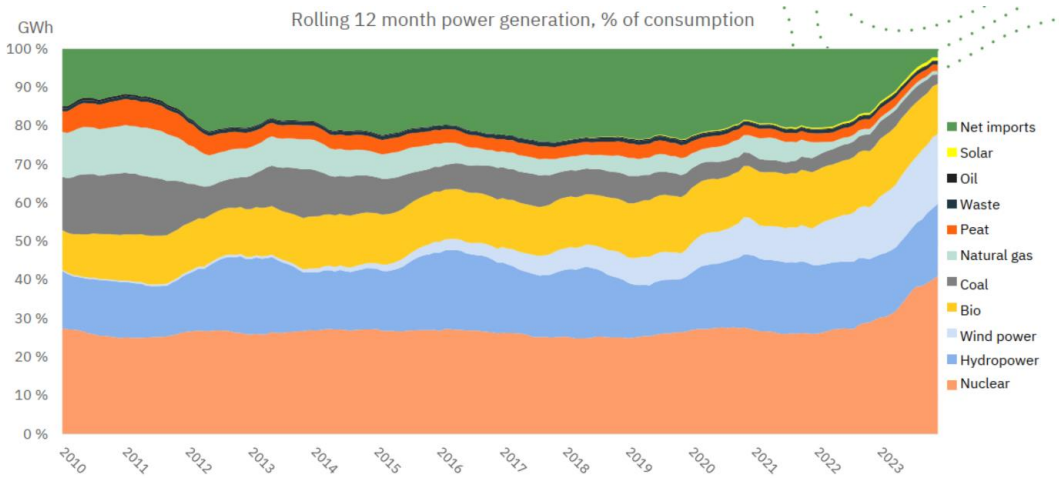
Source: Mr Ari Alatassava, Mayor of Oulu

Oulu is European Capital of Culture 2026.

Oulu 2026

A renewable energy paradise

In Oulu, 94% of power generation is fossil-free. The following diagram shows that fossil generation and electricity imports are replaced with renewables and nuclear.



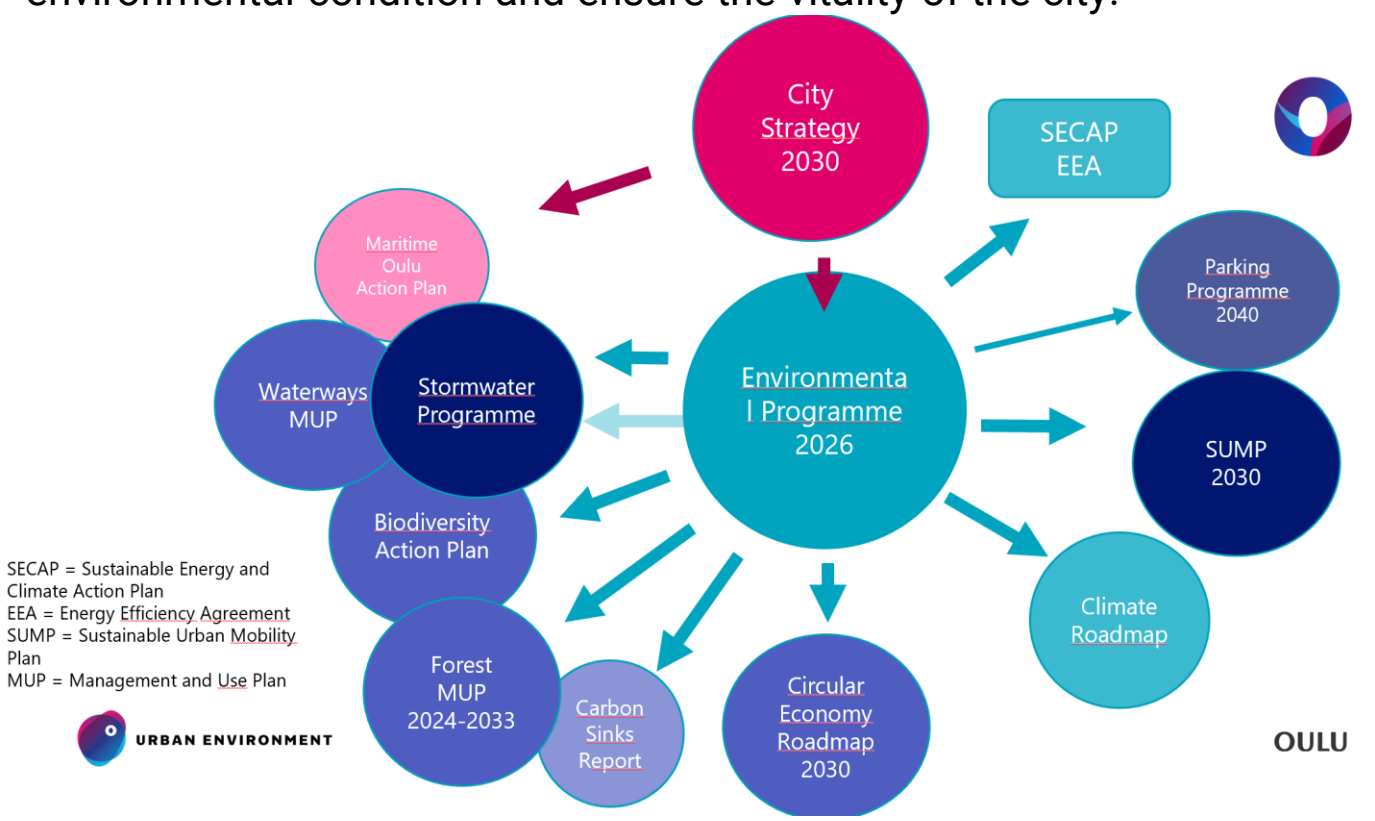
Source: Mr Janne Hietaniemi, Account manager, BusinessOulu

Oulu today is famous for: i) existing H2 production and large users of H2, ii) Reliable electricity transmission through national grid, iii) Extensive district heating network for utilization of waste heat iv) Ready-made site locations with chemical industry zoning, v) Strong hydrogen research expertise, vi) 2 bn.tn. biogenic CO2 available.

5th transnational meeting in Oulu - Highlights

The environmental programme in Oulu – Governance system

The environmental program is one of the implementation programs of the city strategy Oulu 2035. The goal of the program is to maintain a good environmental condition and ensure the vitality of the city.



Source: Maarit Talvitie, Climate expert

Circular Economy roadmap in Oulu

The roadmap covers a wide range of various circular principles and actions. Circular economy related goals and actions are listed below.

- Energy production and efficiency
- Land use and planning
- Sustainable procurements
- Material cycles
- Sharing economy
- Built environment
- Education and communications
- Sustainable food systems

5th transnational meeting in Oulu - Highlights

Circular Cluster in Oulu

Close collaboration partners of the Circular Economy Cluster include, the Oulu Innovation Alliance (OIA), ICTOulu, Oulu Automotive Cluster, and the University of Oulu. A special feature of the Oulu region is a strong ICT sector, which offers excellent opportunities to find digital solution providers to support circular economy. Since the beginning of 2022, the Cluster activities have gathered over 400 people in business, R&D and public sectors to discuss questions of circularity

For more information: Aila Ryhänen, Circular Economy Specialist, BusinessOulu

Providing services for companies

Services for companies provided by Circular Cluster Oulu:

1. Planning
2. Networking
3. Support start ups
4. Skill development and recruitment
5. Marketing
6. Organising the main circular event in the region CircularArenaOulu
7. Lobbying

Providing services for talented people

Source: https://oulu.com/en/circular-economy/

Cold Winters, Warm Hearts: Eduardo's Finnish Adventure.
Eduardo Acosta, originally from Colombia, is researching circular economy at the University of Oulu.

For more information: https://oulu.com/en/circular-economy

5th transnational meeting in Oulu – Highlights

Digitalisation and ICT solution in the service of CE

Digitalisation has changed the traditional methods, improved customer experiences, decreased carbon footprints and optimised the waste collection.
Wastebook has made waste management timely with cloud and IoT technology.
Jaete is a sensor measuring waste containers' surface. It is attached to the lid of a waste container or septic tank. The sensor sends information about the fill level to the Wastebook Jaete cloud and enables waste collection when the container is full. The system also produces accurate waste data for future insights and to be used for decision-making and responsibility reporting.

Source: HAURU SMART Finland

Thanks to cloud service and API, waste service providers can optimize their operations and reduce costs and environmental impact.

Sensors

Source: Wastebook Finland

Jaete sensor accurately measures any waste level and its properties, while blending smoothly to the environment around it. Jaete sensor uses radar and doesn't require maintenance nor cleaning.

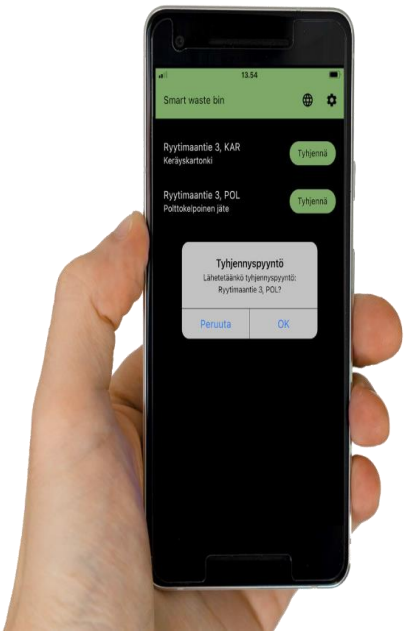
Wastebook Cloud allows for an energy-efficient, modular, and easy-to-use way of connecting IoT Devices to the internet and enabling a two-way data forwarding to other cloud services

5th transnational meeting in Oulu – Highlights

Digitalisation and ICT solution in the service of CE - app

"Order a waste collection with a push of a button!"

It doesn't get any easier than this: push one button for waste collection. Smart Waste Bin mobile application can be used to order a waste collection when the bin is full or if you want to empty it before holidays or festivities.



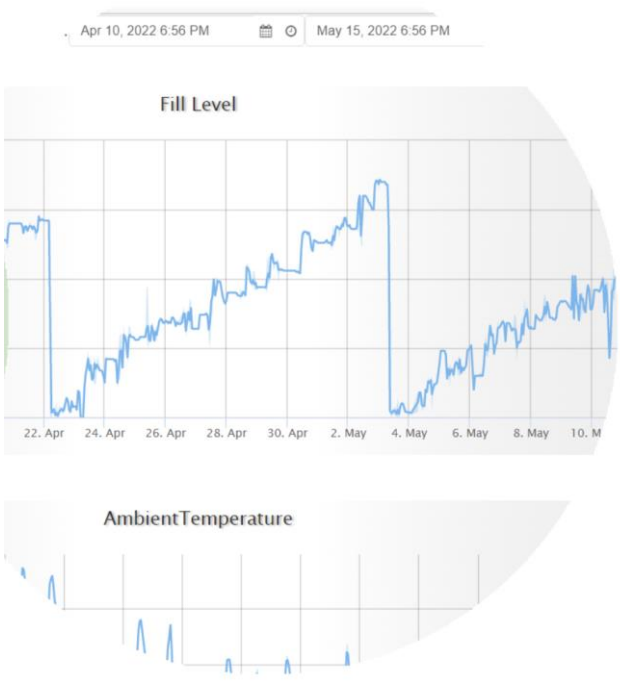
The app is free and can be downloaded from the AppStore and Google Play Store.

Track waste data with a Jaete IoT

With Wastebook's Jaete IoT app you can track the fill level and waste accumulations of your waste bin.Easy and simple to use. The app shows waste bin's daily average of fill level and temperature.

Jaete IoT is a free app. You can download it from AppStore and Google Play Store.

Data optimization and future insights



What is the right number of waste bins? How many containers per waste type would be the best solution? Reasonable decision-making is hardly based on impressions but on data and information.

Wastebook's sensors continuously generate waste data. To get most out of data is to integrate hauler companies' ERP and route optimization systems into Wastebook cloud through an API. The information about collections goes straight to the driver.

Source: Wastebook Finland

5th transnational meeting in Oulu – Highlights

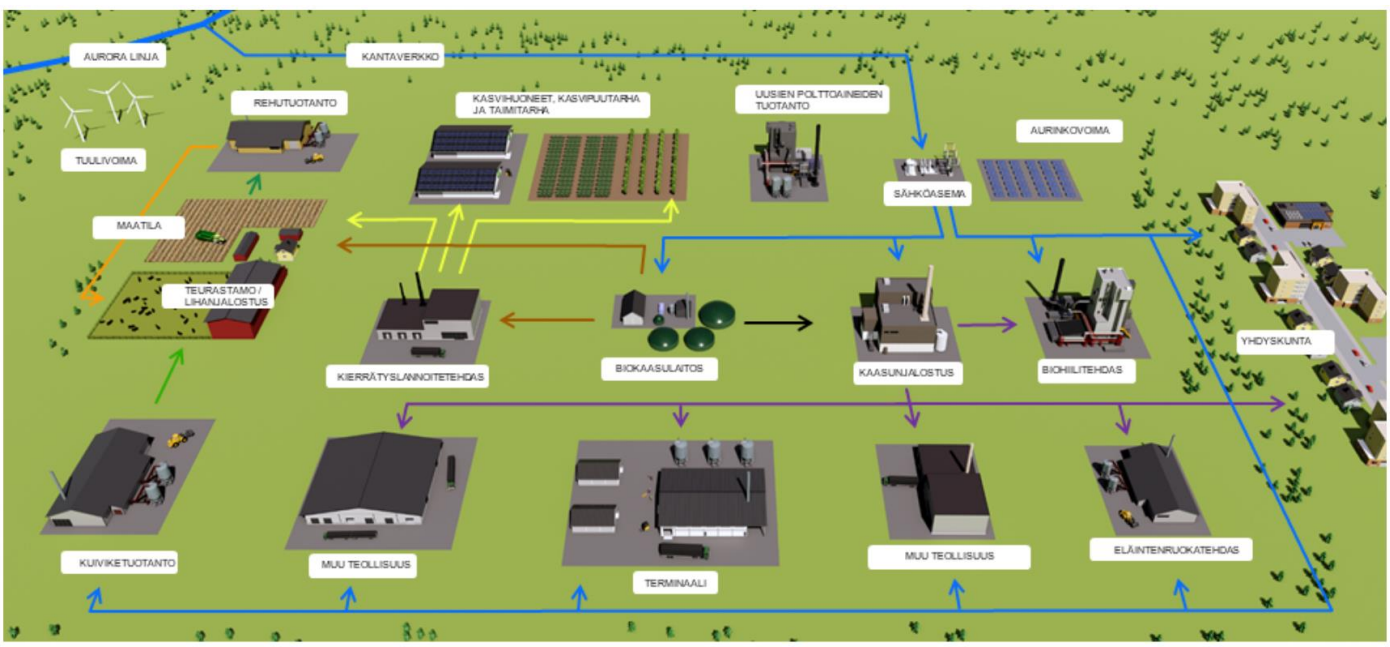
Simulation platform for profitability and sustainability

The platform is suitable for companies optimising existing operations, for joint ventures, for ecosystem planning, for companies expanding their production, for multiple locations planning and for municipality and area development. It supports symbiosis, from a single facility to ecosystem wide simulations. It supports the whole life cycle, from raw materials to delivery. It leads to a whole manufacturing chain in one view, and it generates reports.

Source: Joonas Heikkinen, CEO of Digikierto Oy, joonas@digikierto.fi

Application: Bio- and circular economy ecosystem in Muhos

Muhos Biopark is an umbrella model encompassing the entire municipality of Muhos, which brings together Muhos' current business and industrial areas and planned bio-economy and circular economy areas and future energy solutions.



30+ unique production facilities were modelled (CAPEX, OPEX, energy and materials), more than 5 cases are heading for investment and the unified material, energy, and price database lead to case specific OPEX that has been automatically generated.

5th transnational meeting in Oulu – Highlights

Artificial Intelligence and Circular Economy

ICTOulu is a network of Oulu-based ICT companies from new generation tech startups to international giants operating in Oulu. ICTOulu gathers the digital ecosystem partners known internationally for state of the art technological development, research and products

According to Niina Heikkinen, Artificial Intelligence plays an important role in circular economy, enabling:

- Data tracking and analysis
- Sensors in waste garbage cans (Jaete sensor)
- Platforms and marketplaces for goods exchange
- Apps for waste management
- Digital product models
- 3D printing for less consumption of natural resources
- Design for disassembly in the construction sector

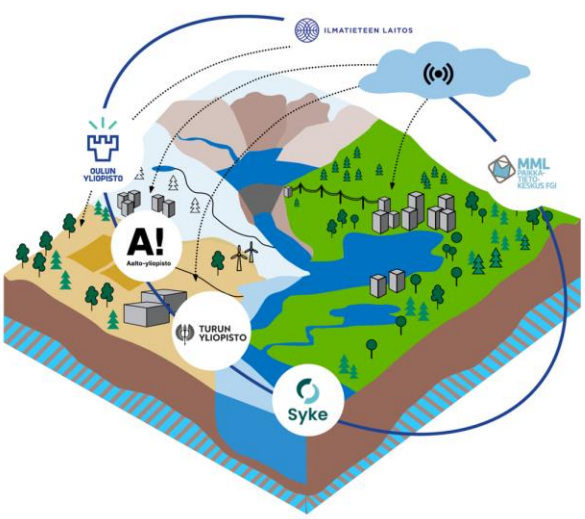
Applications for water circularity, digital twins, waste optimization

For more info: Niina Heikkinen, Business Oulu

Digitalisation and water circularity

DIWA = Digital + Water

Digital Waters



Source to Sea - concept

THE DIGITAL TWIN

DIWA combines observations, modeling and services to support water management in real-time and long-term: 'supersite' areas/infrastructure + national systems

NEW GENERATION SOLUTIONS

- A digital transition in the analysis of the water cycle and the state of the environment will be achieved
- Optimum/sustainable solutions for water use

A WORLD WITH BETTER WATER SECURITY

- Safe solutions for water procurement, distribution and use
- Optimizing different sectors (agriculture and forestry, energy, industry...) and coordinating goals sustainably

→ Managing risks and promoting well-being: resilience

Source and more info: Pirkko Taskinen, Oulu water cluster

5th transnational meeting in Oulu – Inspiring examples

Study visit: AALTOSILO

The AALTOSIILO is located on the edge of Alvar Aalto Park, about 15 minutes from the centre of Oulu.
In August 2020, Factum Foundation and award-winning architectural practice, Skene Catling de la Peña purchased this iconic wood chip Silo.
This innovative cathedral-like concrete structure is being transformed into a research centre promoting architectural preservation and re-use.

The AALTOSIILO will become a point of focus for digitising and communicating the importance of the industrial architecture of the north and – in turn – the impact industry has had on the environment.
Skene Catling de la Peña and Factum Foundation work regularly with a team of structural engineers, services engineers, quantity surveyors and conservation architects who specialise in historic structures.

For more info: Valentino Tignanelli, project manager

Study visit: Chempolis

Chempolis is a renowned provider of biorefining technologies for energy, biofuel, oil, paper and chemical industries and companies.

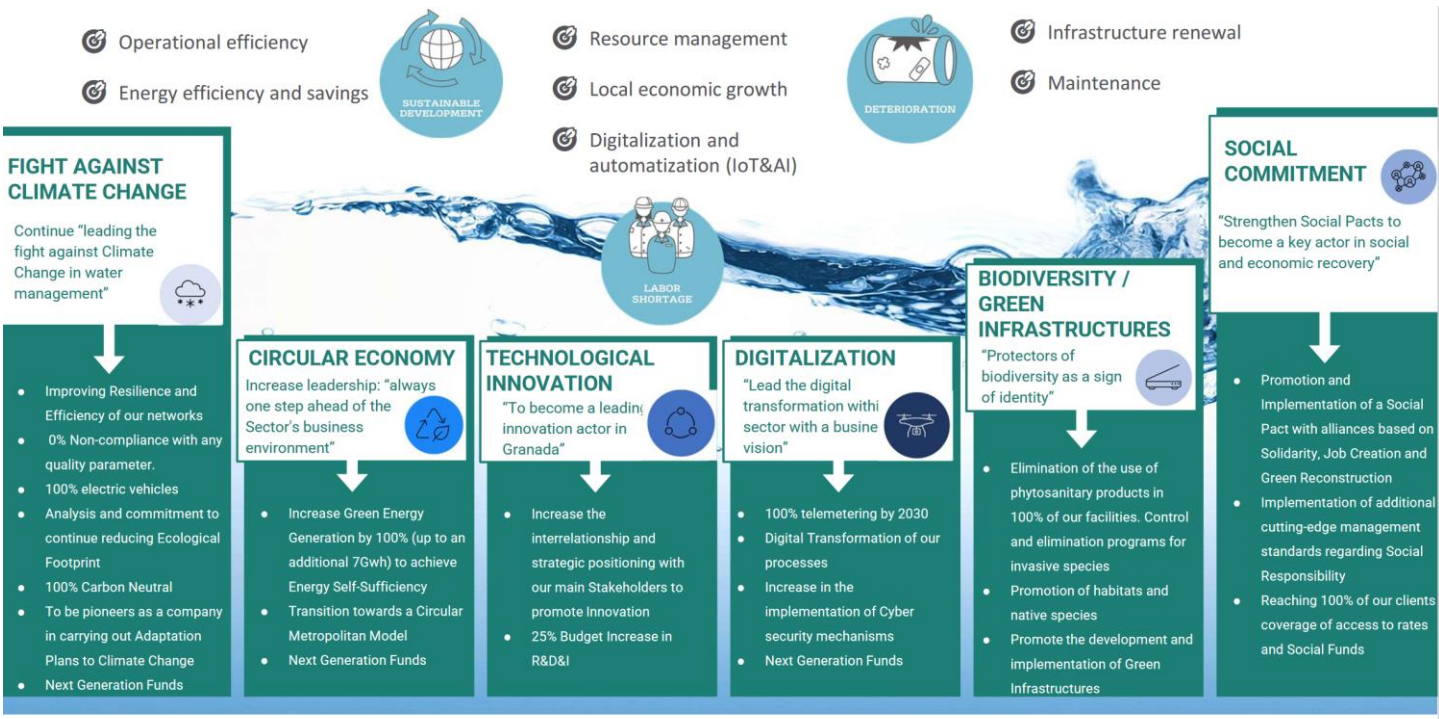
Chempolis' technologies enable bioethanol, dissolving pulp, cellulosic sugars, biochemicals and sulfur-free lignin to be produced non-wood and non-food biomasses such as straw, bagasse, corn stover, grasses, empty fruit bunch, bamboo and forest industry side streams.

For more info: Keijo Hytönen, General Manager, Oulu Site at Chempolis Ltd.

5th transnational meeting in Oulu – Inspiring examples

Granada biorefinery – A 100% circular facility

The Granada Sur Biorefinery of Emasagra has set up an ambitious environmental strategy in order to become the European reference of circular economy in the field of sanitation and wastewater treatment. Its 2020 roadmap "Zero Energy, Zero Waste" aims to make the plant entirely energy self-sufficient by 2020 thanks to the recovery of its effluents. If a surplus energy is generated, it will be injected into the local grid. Almost 100% of the treated water is reused for irrigation purposes of woody crops in the surrounding area of the biorefinery.



Thanks to energy efficiency measures and the optimization of the biogas production, the energy rate of self-supply has risen up to 82%, and it is confirmed that it will generate energy to the local grid by 2018. Regarding waste, all the digested sludge is used as as an agricultural fertilizer, and the greases and sands are composted for gardening use.

Source: Ana Genaro Moya, Sustainable development and digital transformation director at EMASAGRA

5th transnational meeting in Oulu – Take aways

Community of Practice

The topic of focus was water circularity.

Ideas suitable for replication:

- Digital twins application in bioeconomy also for monitoring of tourists VS residential needs
- Enhancement of collaboration with University
- Dashboard open for the public, easy to understand for extreme weather
- Use of purified water
- Valorisation of sands, sludges for compost and agriculture
- Nature based solutions from rainwater
- Application of sustainability principles beginning with the higher education
- Design of Doctoral programme transfer knowledge from PhD to SMEs
- Use of sensors to detect water leakages
- Holding of awareness raising activities, ie water ecosystem workshops
- Generation of biofuels at the already existing water factories (ie in Lisbon)

Well deserved social breaks

Riga

Wonderful dinner at Havier's, in Viskali.

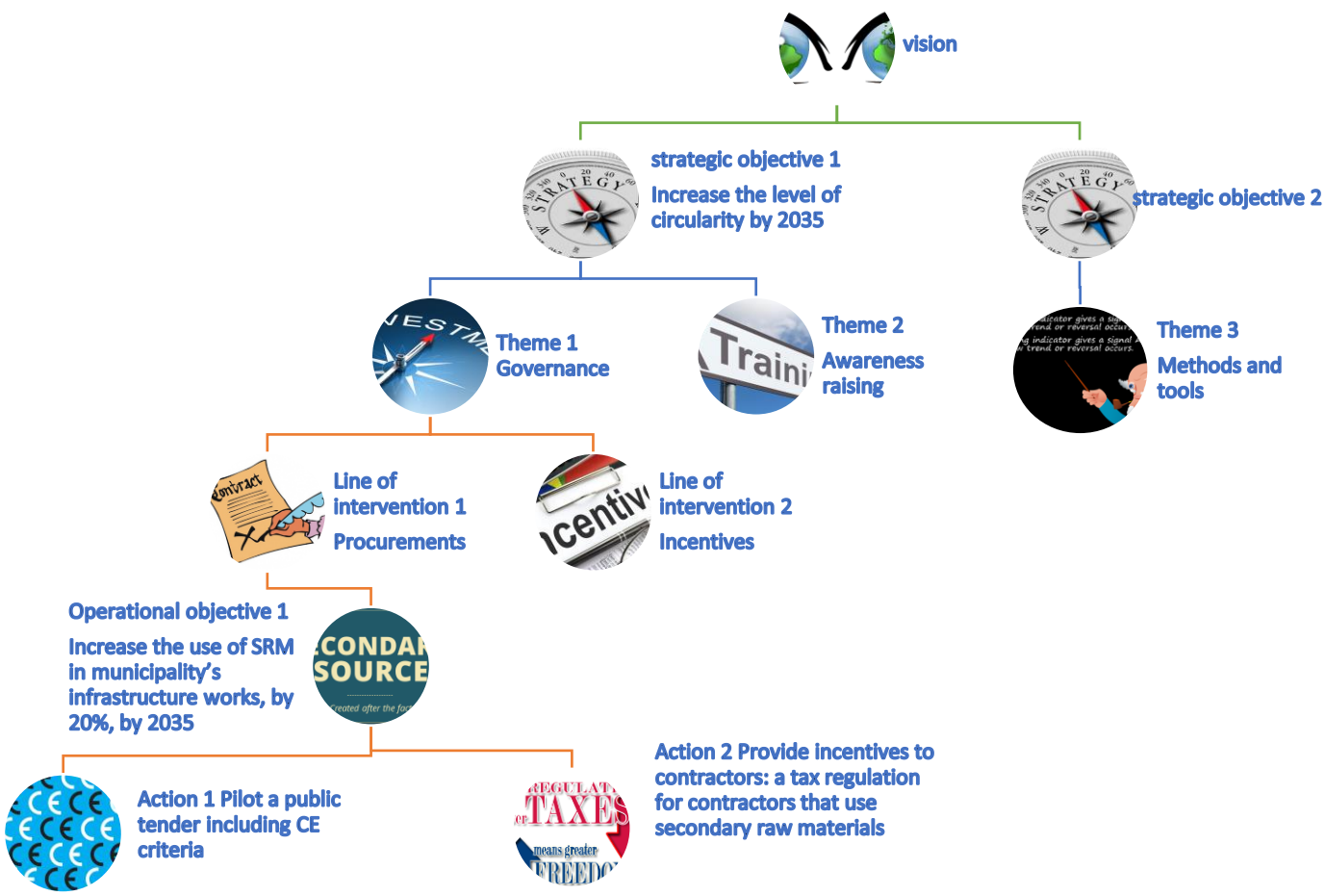
Oulu

Pehkolanlampi sauna and dinner at Oulu guesthouse.

Presentation of tools developed for participatory action planning

Understanding and applying the intervention logic - 1

Understanding and applying the intervention logic - 2



Presentation of tools developed for participatory action planning

Canvas to apply the intervention logic (Vision-operational objectives)

Overall IAP Vision

Strategic objectives

Lines of intervention

Operational objectives

Canvas to apply the intervention logic (Operational objectives-actions)

Lines of intervention

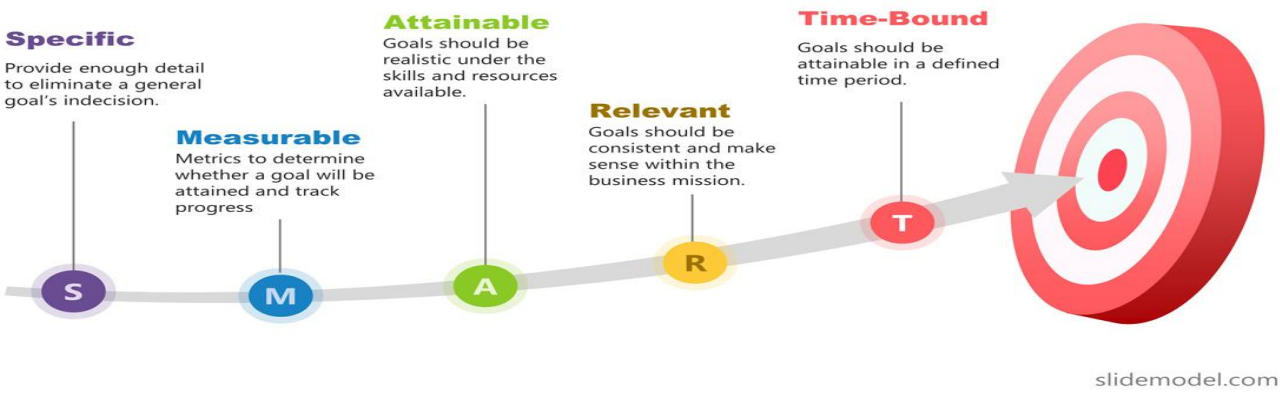
Operational objectives

Actions

Presentation of tools developed for participatory action planning

Methodology for ideation on actions

How to define SMART objectives



Canvas developed following 5Hs and 1H approach for SMART actions

		Peter	Joanna	Mark	Lina
Title of action	What				
Output and estimated impact on sustainability	Why				
Timescale	When				
Description of action	Where				
Action owner	Who				
Cost estimation and assets needed	How				

Presentation of tools developed for participatory action planning

Actions – including reflection on integration

Title of action	xxxxxxxxxxx			
Link to specific objective	xxxxxxxxxxx		**Relevant strategies, policies, development programmes**	xxxxxxxxxx
Output	xxxxxxxxxxx			
Short description	**Output**	**Timescale**	**Rough cost estimation**	**Other assets needed**
xxxxxxxxxxxx	xxxxxxxxxx	xxxxxxxxxxxxx	€	xxxxxxxxxx
Estimated impact on sustainability				
Cross-cutting topics addressed	xxxxxxxxxxx			
Status of the action	*(On going/planned/new action)*			
Rough risk estimation	*(High/ low/ medium)*			
Action owner				
Key stakeholders involved				
Horizontal level of governance				
xxxxxxx				
Sectorial				
xxxxxxx				
Vertical level of governance				
xxxxxxx				
Territorial level				
Xxxxxxx				
Hard and soft investments				
xxxxxx				

Self-assessment against the 12 criteria set by the URBACT method

Type of integration	Description	How do you achieve this currently? (mark also if N/A)	How to improve?
Policy/ Sectoral integration	Addressing as many policies/sectors as possible through the activities		
Spatial integration	Coherence of actions at different spatial levels from site-specific, through neighborhoods, city-wide and regional		
Territorial integration	Ensure cooperation takes place between adjacent municipalities in functional urban areas		
Multi level governance	Vertical cross-departmental chain of governance; All actors are around the same challenge		
Hard-soft investments combination	Balance between the 'hard' (physical/infrastructure) and 'soft' (human capital) investments		

By what means are we addressing integration in our network and to what extent?

- Policy/ Sectoral integration
- Spatial integration and territorial
- Multi level governance (vertical and horizontal)
- Hard-soft investments combination

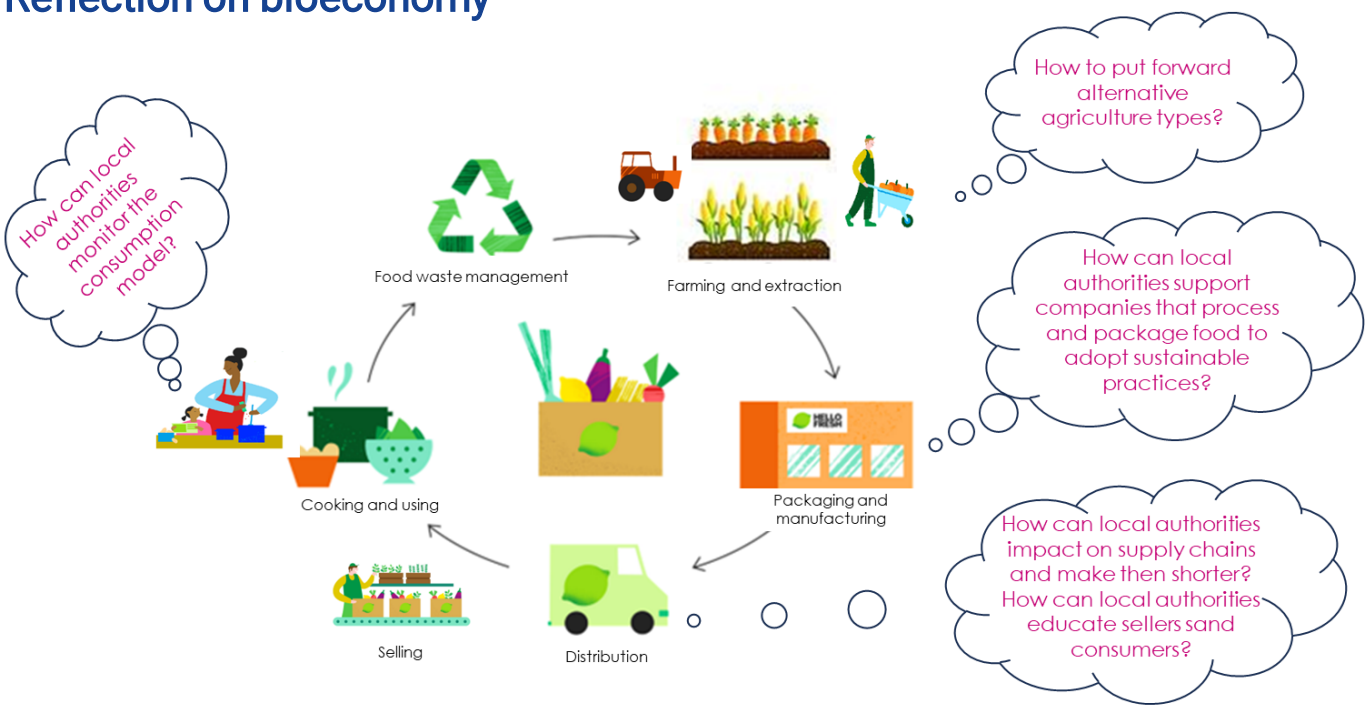
→ By bringing on board in the ULGs the respective stakeholders
Through relevant fields in the action tables

- Stakeholder engagement in the planned actions →
- Internal strategic logic →
- Coherence with existing strategies →
- Planning over time →
- Mobilizing all available funding →

- By different means ie involvement in TEXs
- Through alignment of vision-strat.obj-lines of intervention-oper.obj-actions
- Discussion on SMART actions and relevant field in the action table
- Relevant field in the action table
- Relevant field in activity table and funding plan in section 4

Presentation of tools developed for participatory action planning

Reflection on bioeconomy



Canvas for group discussion on bioeconomy in LCA approach

How can local authorities put forward alternative agriculture types: urban gardens, indoor farms, roof tops?

How can local authorities support companies that process and package food towards the adaptation of more sustainable practices?

How can local authorities support companies that process and package food towards the adaptation of more sustainable practices (including preparing, cooking).	Potential barriers

Solo brainstorming (10')

How	Group brainstorming	Barriers

How can local authorities impact on supply chains and make then shorter?

How can local authorities support companies that process and package food towards the adaptation of more sustainable practices?

Presentation of tools developed for participatory action planning

Canvas for addressing certain CE challenges

Which are the challenges towards boosting circularity in the textile sector? (Challenges)

Which are the challenges towards boosting circularity in the constructions sector? (Challenges)

Which are the challenges towards boosting circularity in the textile sector? (Challenges)	How might we meet the challenges and overcome the barriers? (Solutions)

Solo brainstorming (10')

Group brainstorming (20')

Challenges

Solutions

Which are the challenges towards introduction of integrated local policies and strategies to boost circularity?

Which are the challenges towards implementation and monitoring of integrated local policies and strategies to boost circularity?

Matchmaking to enhance exchange of knowledge in small groups

Activity: is there any thematic knowledge you'd like to take?

- Mapping of flows Malmo, Lisbon
- Indicators Munich
- Procurements Riga, Malmo, Lisbon
- Integration of sustainability policies and strategies Guimaraes
- Textile Guimaraes
- Reuse of open space and buildings, Riga
- Food and short supply chains Lisbon
- WEEE Munich
- Water circularity Granada, Oulu, Lisbon
- Digital platform to match supply and demand of circular products and services, Riga
- Calculation of GHG emissions in public events, Riga
- CE Hub Malmo
- PAYT, SAYT Guimaraes & Lisbon
- R&D Guimaraes
- Citizens engagement incl.social groups Guimaraes
- School education Oulu
- Materials exchange points, Riga, Munich
- Clean tech events – Hackathons Lisbon

Sand box

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Presentation of tools developed for participatory action planning

Pilot actions

TESTABLE
Tested quickly and 'for real' with limited resources and in a short period of time

MODELABLE/SIMULATABLE
Can be a model, a mock-up, a simulation exercice, a small representation

FICTIONNAL
Can be scenarios, story-telling, playing 'as if the situation was real/true', telling the story from the future

Proposed tools to report and monitor pilot actions

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Pilot action description and results

Name of the city:

The challenge	The hypothesis (we believe that…)	The research question (what if….)
To verify the research question, we will pilot[1]…… (our idea and stakeholders involved)	**To confirm success, we will measure… (output indicators)**	**Results (quantitative and qualitative)**
What we learnt… (in bullet points)	**Iteration actions if needed (what we will do to improve results and pilot again…)**	**Next steps (include the pilot in the action plan, look for funding etc)**

[1] Try to make a reference to R-strategies and or to value chains of focus and or to our themes of focus/ lines of intervention

Used **BEFORE** we test.

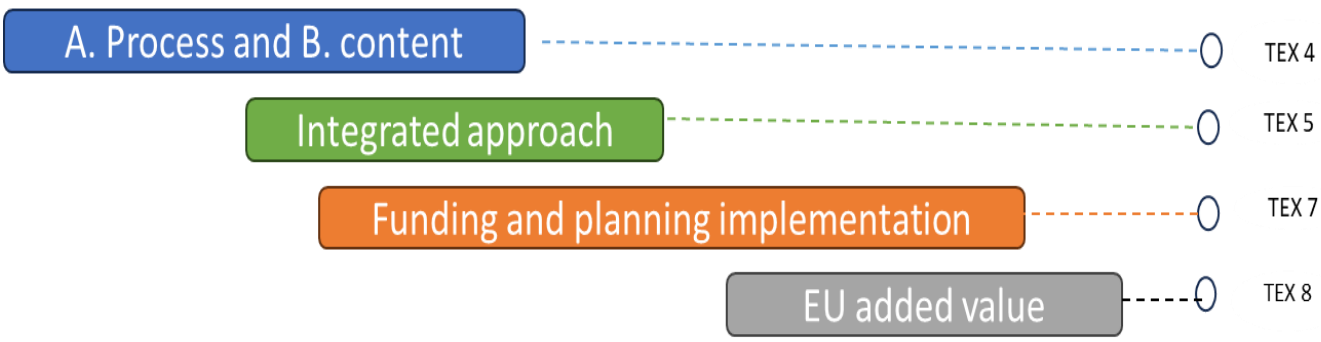
- A way of approaching pilot testing systematically
- Ensure that we have made the right considerations before involving others
- Ensure that we have reflected on where we lack knowledge

- Ensure that we gather insights effectively without creating extensive reports.
- Ensure that we can easily communicate the knowledge we have generated (in presentations, for decision-makers, for those involved).

Used **AFTER** we test

Presentation of tools developed for participatory action planning

Peer review stages and tools



Peer review tool for process and content of the draft IAP

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Peer to peer assessment Tool for Integrated Action Plans

Integrated Action Plan	Name of the LGC partner IAP that you are assessing
Date of assessment	Date of assessment
Completed by	Name of the person that holds the assessment
Instructions	For each Indicator (row) complete the score column by entering a score between 1 and 5 where 1 is weak, 2 not so week, 3 is moderate, 4 is strong and 5 is very strong, really high standard. In case that an Indicator is Not Applicable OR you are not sure for the case under consideration, score "0". You can use the score criteria on the right to see what score to give. Complete the evidence column for each Indicator, briefly. Concetrate on suggestions that you can also elaborate further during the peer to peer session in TEX 4. Suggestions concern proposals of improvement you wish to make to your peer that occur to you while reading the plan, or answers to their direct questions during the TEX 4. The radar plot and summary scores at the bottom of the table will be calculated automatically.

1. PROCESS OF THE INTEGRATED ACTION PLAN

Parameters	Score awarded out of 5	Evidence for score - why was the score given -	Indications for scoring	Suggestions
Description of how the action plan was developed with the stakeholders			score 1: not addressed score 3: thin description score 5: clear outline of how the ULG worked	
Steps that have been followed with the stakeholders			score 1: no meetings held with stakeholders score 3: small number of meetings score 5: meetings held with all stakeholders	
1 Total Score	0			

2. CONTENT OF THE INTEGRATED ACTION PLAN

Parameters	Score awarded out of 5	Evidence for score - why was the score given -	Indications for scoring	Suggestions
Structure. Does the plan have a coherent and clear structure (Part 1 and Part 2)?			score 1: no coherent structure score 3: some structure but no progression score 5: clear logical progression from description of situation to problem analysis to proposed actions	
Problem definition. Does the plan clearly defines the problem/ issue to address providing also some evidence to support definition of problem?			score 1: no data presented on problem/ lack of problem analysis score 3: some data presented score 5: full and comprehensive data presented / clear problem analysis, with use of problem tree and other tools	
Overall strategic goal/ vision. Does the plan present clear strategic goal that clearly addresses the problem and the change that the plan is seeking to achieve in relation to the initial situation?			score 1: lack of clear goal and vision score 3: goal and vision stated in a vague, unjustified way score 5: clear strategic goal and vision shown in logical format	

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Tools used demonstrating integrated and participatory approaches

Online survey in Lisbon - Indicative results:

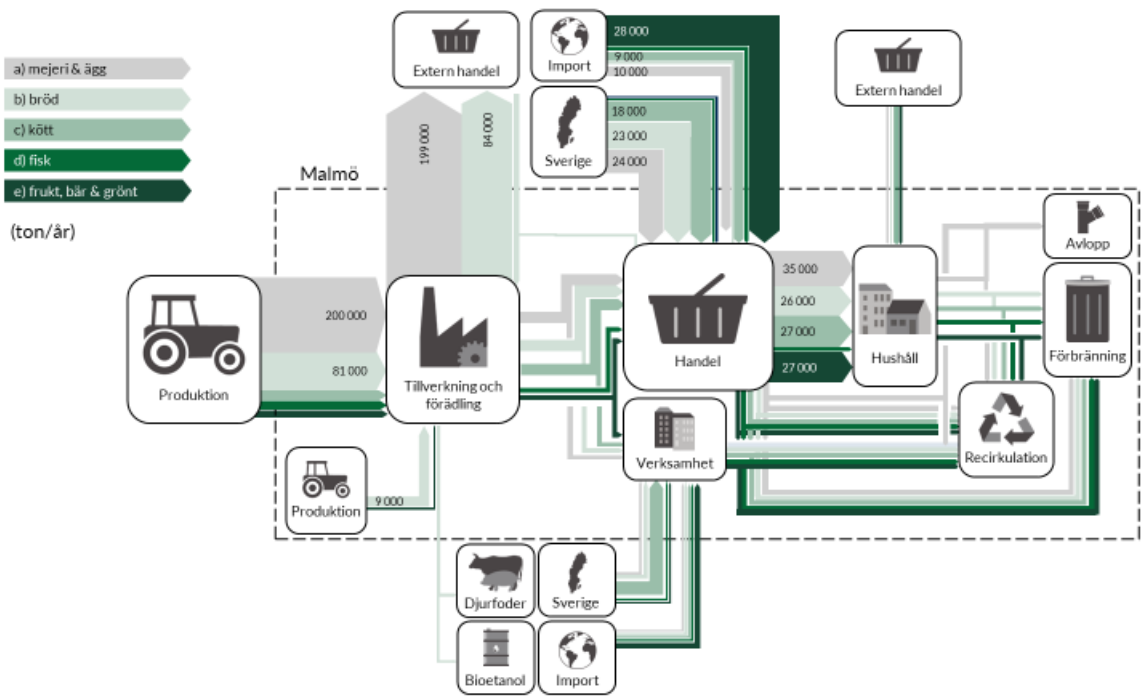
55% consider their entity's degree of implementation of circularity policies to be between 7 and 10, and 86% between 5 and 10, on a scale of 1 to 10);

- The priority intervention areas were identified and prioritised
- Governance model has been designed
- Working groups have been consolidated

Description of prioritised areas for the City of Malmö

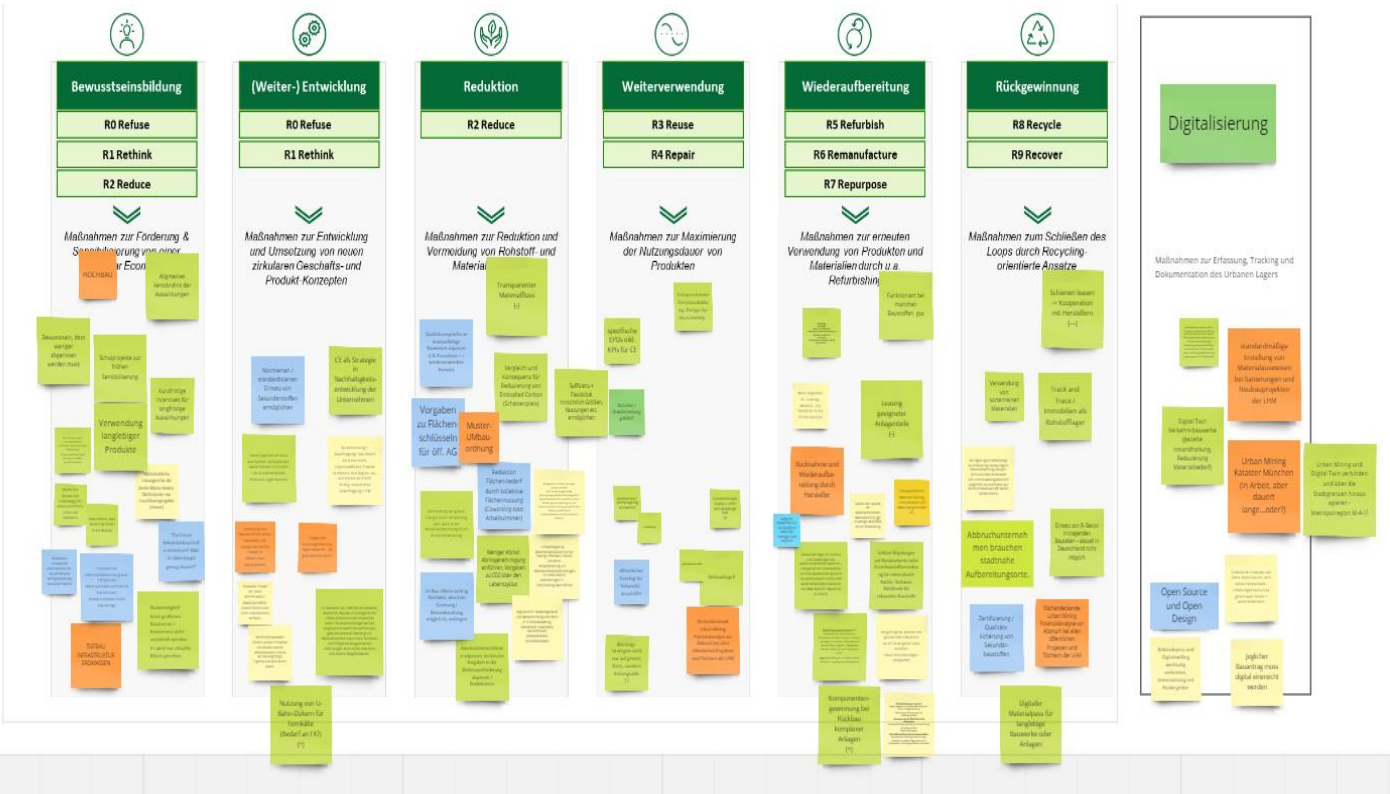
Over arching	Resource efficient textile	Sustainable production and consumption of food	Minimizing Plastics
The circular transition in Malmö needs **supporting structures** and working **cooperations** (1.1) Actors need support in finding **finansing** for circular solutions and/or circular business models (5.1) How the **future job opportunities** are shaped in a circular ecenomy needs to be explored and made possible (2.1 & 2.3) To adjust laws and rules for a more circular economy, an active **advocacy work** is needed (1.2)	Malmö's textile consumption and production must become more resource efficient, use less resources and generate less greenhouse gas emissions (3.1 & 3.2) First the textiles life span must be **prolongued** through repairs and tailoring services, and the usage intensified by re-use selling, sharings and renting. Hence the need for purchasing newly produced garments are reduced (3.4) Textile fibres should be material recycled and spillage reduced (3.4)	Malmö's consumption and production av food and beverages must become resource efficient, use less resources and generate less greenhouse gas emissions (3.1 & 3.2) Waste must be **minimised in the entire food chain**. Smarter production, purchase and better handling prevents food becoming waste (3.4) A larger part of the food waste which still occurs should be **redistributed** for further usage (3.4) When only food waste remains a larger part should be separated and collected to become new products (3.4)	Malmö's consumption and production of fossil plastics must become more resource efficient and generate less greenhouse gas emissions (3.1 & 3.2) **Packaging of fossil plastics** must **decrease** and be **replaced** by other materials (5.1) **The sorting out and reuse** of plastics must increase (3.4)

Progress on the mapping of flows in the City of Malmö



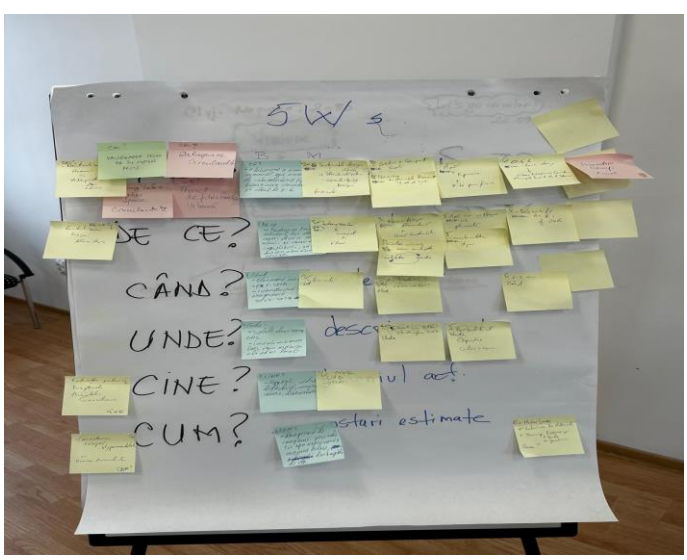
Tools used demonstrating integrated and participatory approaches

Participatory ideation on actions in Munich with use of Miro board



Co-agreement of the vision and strategic objectives, pilot action and ideation on actions in Tirana

Application of 5Ws and 1H approach in Cluj-Napoca



Tools used demonstrating integrated and participatory approaches

Use of canvas to reflect intervention logic in the City of Malmö

Ideation on actions

Lines of intervention	Operational objectives
1.1 Integrated policies	"Over arching"
1.2 Regulations etc	
2.1 Awareness etc	Resource efficient textile
2.3 Education	
3.1 Mapping of flows	Sustainable production & consumption of food
3.2 Measure to know	
3.4 Waste collection etc	Minimizing plastics
5.1 Means for enabl. CE	

Actions

- Establish a Resource Hub In Malmö and test the concept (pilot)
- Mapping of Plastics, Food and Textiles in/out/circulated in Malmö (geographical area)
- Investigate possibilities/development of circular jobs
- Find ways to support actors that want to create more circular plastic, food or textile systems in Malmö
- Develop measurement, key figures and indicators for CE
- Plastics: Increase and improve the sorting as well as the reuse/recycling
- Conduct Advocacy Work
- Food: Take action for improving the conditions for a circular food system, both in the short and long run.
- Textiles: Increase the collection and the take backs as well as the circulation of sorted textiles. Establish local sorting of collected textiles.

Use of canvas to reflect intervention logic in the City of Granada

Strategic objectives

- Awareness rising in service sector and education
- Waste management:
  - Pay-As-You-Through
  - Emergent polluters
- CE in Service Sector (HoReCa and events)
- City Council as a role model

Lines of intervention

1. Governance	2. Awareness	3. Method/Tools	4. Innovation	5. Infrastructure
- Integrated Policies - Guidelines - Procurements - Incentives	- Awareness - Education	- Measure to decide - Digital tools - Waste collection schemes	- Support companies - Support R&D	- Operationalisation of relevant projecets

Operational objectives

- **Awareness activities (LHV and Education)**
- **Map and measure (UGR and Emasagra)**
- **PAYT tax system (City)**
- **CE Certification (Chamber of Commerce)**
- **CE in council works and procurement**

Use of canvas to reflect intervention logic in the City of Corfu

Lines of intervention	Operational objectives
1.3 Incentives	Providing financial incentives to citizens to promote the circular economy by 2027
	Integrating the principles of circularity into public procurement procedures by 2025
5.1 Means for enabling CE	Installation of separate waste collection networks by the end of 2025
2.1 Awareness/ information	Increasing the provision of information / information to residents / involved bodies regarding the circular economy

- PAYT system
- Taxes reduction to companies that apply CE principles
- Use of secondary raw materials into public procurements
- Installation of separate biowaste and paper collection
- Installation and operation of Green Points
- Implementation of awareness campaign
- Educational program for teachers on the principles of the circular economy

Partners' local progress

At least one ULG meeting implemented between March and June 2024.
Topics of discussion as proposed in the Guidelines for the action planning stage:

Session 1: Introduction and recap of ULG

Session 2: Co-design of SMART strategic objectives and alignment with the lines of intervention

- Short presentation on SMART strategic objectives
- Open discussion to agree on or refine and specify further if needed the vision and the strategic objectives at the city level
- Exercise: alignment between SMART strategic objectives and lines of intervention.

Session 3: ideation on actions

- ideation on actions referring specifically to the lines of intervention that can be included in the action plan

Session 4: next steps

Start-Stop-Continue doing at transational level: The partners' viewpoints from our latest meeting in Oulu

Start

- Move the important project topics (budget, events, communication) to the beginning of the meeting since sometimes it is impossible to chooze other flights
- (Maybe) shared hotel, better dates, better logistics
- Bring more ULG members
- Even more coffee 😊
- Everyone stays until the end
- More study visits (if there is time)
- Speed dating – chooze to ask questions to each member 1:1 for 10-15' and then rotate

Stop

- Long days
- Tight schedule (lots of input)
- No need for too much food in the coffee breaks #foodwaste

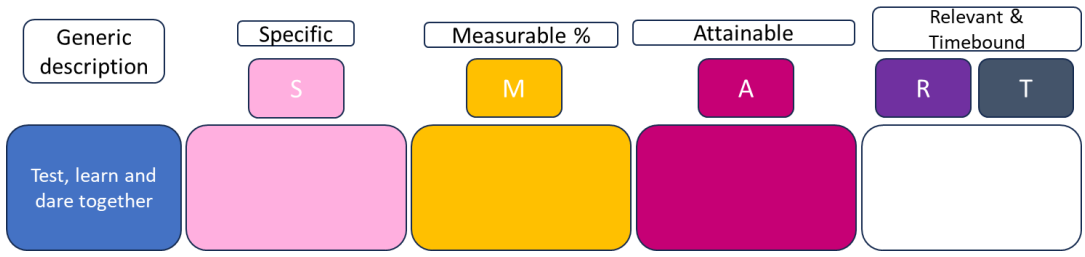
Continue

- Open air activities
- Just like this meeting 5*
- ULG progress on day 1
- Industry insights
- Keep bringing companies with concrete solutions
- Serving local food and enjoying the country side
- Bringing ULG members and gathering business and industry insights
- Well balanced schedule
- Proving so clear guidelines for the action plans and peer reviews
- Inviting speakers from other sectors

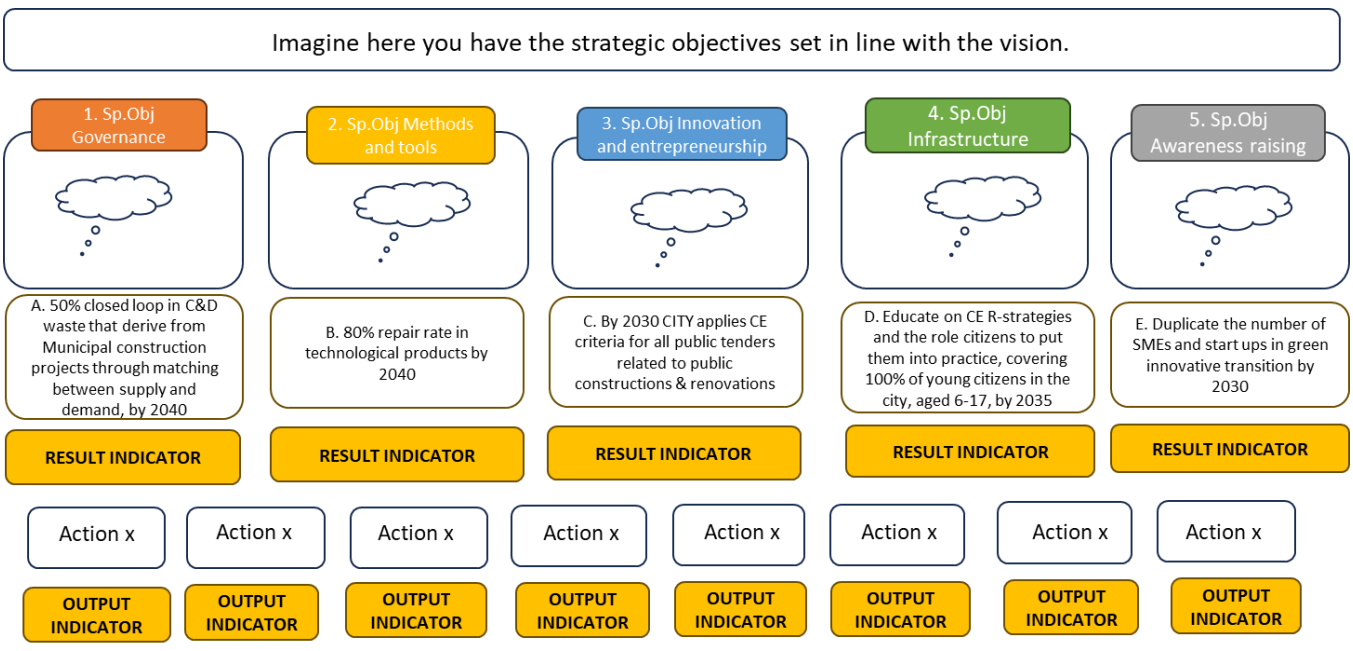
Additional thematic exchange through online meetings

A master class has been given in April by the lead expert, on the topic of monitoring strategic and operational objectives through indicators. Useful data sets have been provided on Basecamp for partners' reference.

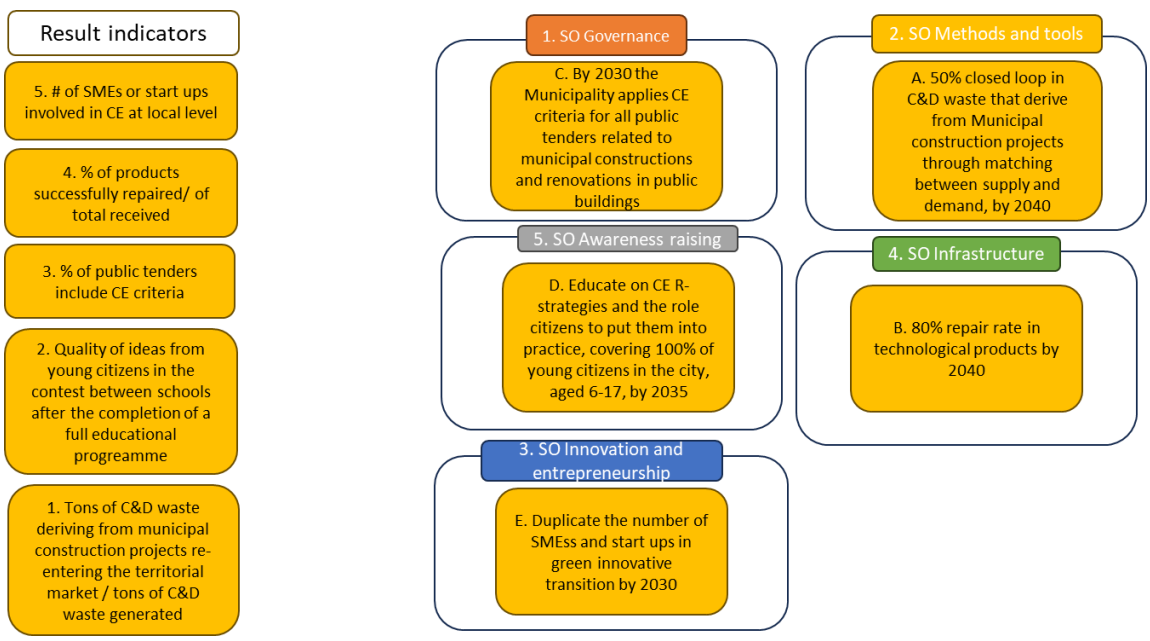
Smart objectives



Matching themes of focus with operational objectives – Activity 1



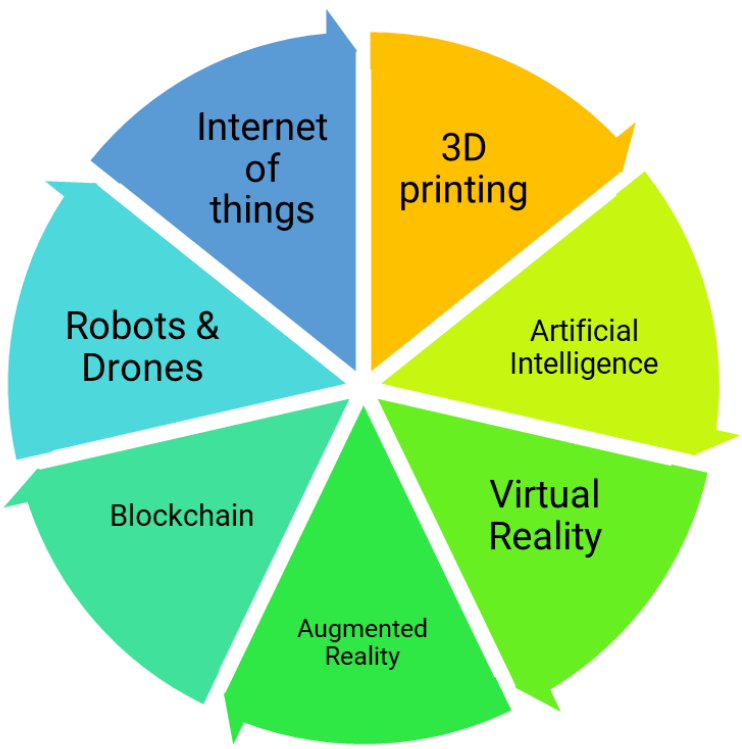
Matching strategic objectives with result indicators – Activity 2



Additional thematic exchange through online meetings

A webinar has been given in June organized by the lead expert, on the topic of digitalisation.

The invited speaker was Professor Alexandros Chatzigeorgiou, Professor at the University of Macedonia in Thessaloniki, Greece.



Topics addressed and examples around:
Blockchain technology for waste management
Smart system for brown recycling bins and
Eco parking.

Next steps

The Let's Go Circular! network will meet again in October in Malmo for the next TEX meeting.

The themes revolve around mapping of flows, procurements, Resource Hub, energy circularity. We are going to continue holding communities of practice and we will hold the second round of draft IAPs' peer reviews.

In the frame of our meeting in Malmo, we will also hold our mid-term reflection process.

The transnational meeting in Malmo will be backed by a study visit in Copenhagen, to partner up with the COPE URBACT Action Planning Network, and to look at circular constructions and citizens' engagement examples and cases.

We are exploring the opportunity to hold a political panel in the frame of our meeting in Malmo, slightly earlier than initially planned in our roadmap.

In the meantime, ULG meetings will continue.

According to our network roadmap, ULGs will meet in July and then in September, to exchange on the themes discussed in the transnational meetings, refine their objectives, better focus their IAPs and start drafting them following URBACT guidelines and lead expert's guidance.

We are committed in continuing raising inspiring examples that combine circular economy with cross-cutting policy areas like green transition, social cohesion, equity and equality as well as digitalization.

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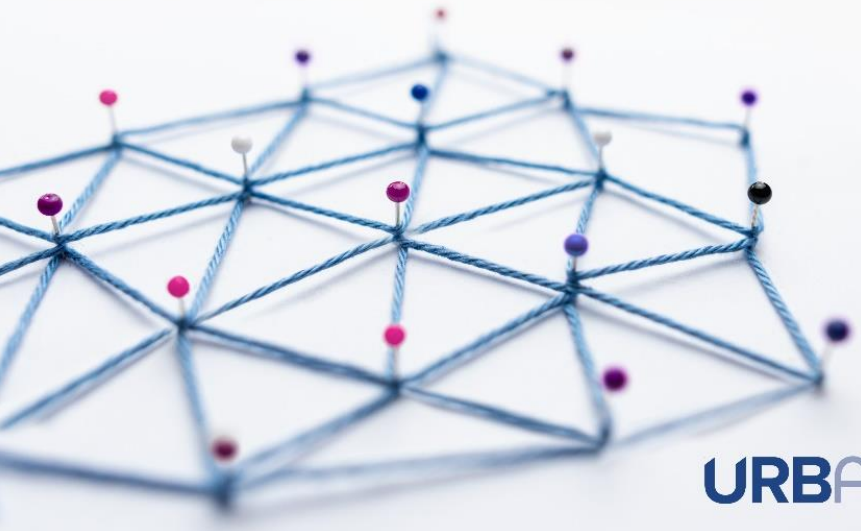
Paving the way for a circular transition of cities



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This report has been produced in the frame of the Let's Go Circular! APN, led by the City of Munich and financed by the URBACT Programme.

Special acknowledgements to the local teams of Cities of Riga and Oulu that hosted the 4th and 5th transnational meetings.

Project website
https://urbact.eu/networks/lets-go-circular

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https://www.linkedin.com/company/let-s-go-circular/

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