

JOINT TRAINING FOR REGIONAL STAKEHOLDER GROUPS

JOINT TRAINING

03 2020





D.T2.2.2: Joint training for regional stakeholder groups

A.T2.2 Training/mentoring for regional stakeholder groups

Issued by: Partner Nr. 10 – BWCON

Reviewed by: Partner Nr. 1 – TUKE

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Circulation Restricted to Project Partners

Document History

Date	Version	Description of Change
16.03.2020	v. 1.0	Document issued by PP10
26.03.2020	v. 1.1	Document issued by PP10

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1. Introduction

The objective of the joint training for all regional stakeholder groups is to provide all relevant stakeholders with an overview of the concept of circular economy, with a specific focus on the role of cities and local authorities.

2. Delivery and content

The project partners representing the target regions agreed to the following steps for the delivery of the training:

1. Preparation of the presentation in English.
2. Online delivery (in English) of the presentation by an expert, jointly to all project partners (without the stakeholders).
3. Translation of part of the materials (as deemed necessary by the local partners) in order to ensure a good comprehension of the content by all stakeholders.
4. Delivery of the presentation by the project partners themselves to their respective regional stakeholders, in the framework of a regional workshop.

In the following the realisation of the different steps is described. The respective supporting documents are to be found in the annex.

1. Basic material - presentation in English

The content of the training builds logically on the Starter Kit document developed during the first months of the project. A presentation has been developed on the basis of the Starter Kit. It is structured as follows:

- Part 1: Introduction to circular economy
- Part 2: Circular business models: concept and definition
- Part 3: Types of circular business models
- Part 4: Planning for circular economy
 - Industrial Symbiosis
 - Sharing economy
 - Smart and circular design
 - Extending the lifetime of products and materials (second-hand sale, remanufacturing)
 - Regenerative sources (bio-economy, bio-plastics, water reuse)
 - The waste as a resource (recycling, waste heat recovery, upcycling)

Supporting documents: ppt-presentation.

2. Online delivery of the presentation

The presentation was delivered (online) to the project partners at the occasion of the second partner meeting in UDINE on 12 November 2020.



Supporting documents: minutes of the partner meeting.

3. Translation of materials

The following materials in national languages have been prepared by the respective partners for use in the delivery of the local regional training.

Supporting documents:

- Croatian presentation
- German version of the Starter Kit
- Italian presentation
- Slovak presentation
- Slovenian presentation

4. Delivery of the presentation by the project partners themselves to their respective regional stakeholders

The local events (second part of the joint training for regional stakeholders) did take place in the project's target regions as follows:

Target region	Partners involved	Meeting, place, date	N° of participating stakeholders (excluding project partners)
Dornbirn	FHV	Regional stakeholder workshop, Dornbirn, 31.01.2020	8 stakeholders (14 participants)
Kosice	TUKE EGTC Via Carpatia	Strategy meeting, Kosice, 12.02.2020	3 stakeholders (4 participants)
Kranj	MOK EZVD	Regional stakeholder workshop, Kranj, 16.01.2020	7 stakeholders (28 participants)
Udine	APE FVG UD	Regional stakeholder workshop, Udine, 11.12.2019	11 stakeholders (18 participants)
Varazdin	DAN CMV	Regional stakeholder workshops, Varazdin, 15.11.2019 28.11.2019	15 stakeholders (32 participants) 9 stakeholders (19 participants)

Supporting documents: minutes of the regional meetings, signature list.



3. Annex

- Basic material - presentation in English
- Minutes of the partner meeting in Udine
- Minutes of the regional meetings, signature list
 - Kosice
 - Kranj
 - Udine
 - Varazdin
 - Dornbirn



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 Partner meeting
UDINE - 12.11.2019

Circular economy for cities: starter kit

 CITY CIRCLE - BWCON

CONTENTS

Part 1:
Introduction to
circular economy

Part 2: Circular
business models:
concept and
definition

Part 4: Planning
for circular
economy

Part 3: Types of circular business
models:

- Industrial Symbiosis;
- Sharing economy
- Smart and circular design
- Extending the lifetime of products
and materials (second-hand sale,
remanufacturing)
- Regenerative sources (bio-economy,
bio-plastics, water reuse)
- The waste as a resource (recycling,
waste heat recovery, upcycling)



INTRODUCTION TO CIRCULAR ECONOMY



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The concept of the circular economy

- Adopts a systems approach
- Aims at reducing the production-consumption systems' linear material and energy throughput flows
- Several circularity strategies:
- Refuse (R0), Rethink (R1), Reduce (R2), Reuse (R3), Repair (R4), Refurbish (R5), Remanufacture (R6), Repurpose (R7), Recycle (R8), Recover energy (R9)



CIRCULAR ECONOMY STRATEGIES

Circular economy

Strategies

Increasing circularity

Smarter product use and manufacture

Rule of thumb:
Higher level of circularity = fewer natural resources and less environmental pressure

Extend lifespan of product and its parts

Useful application of materials

Linear economy

R0 Refuse
Make product redundant by abandoning its function or by offering the same function with a radically different product

R1 Rethink
Make product use more intensive (e.g. through sharing products, or by putting multi-functional products on the market)

R2 Reduce
Increase efficiency in product manufacture or use by consuming fewer natural resources and materials

R3 Re-use
Re-use by another consumer of discarded product which is still in good condition and fulfils its original function

R4 Repair
Repair and maintenance of defective product so it can be used with its original function

R5 Refurbish
Restore an old product and bring it up to date

R6 Remanufacture
Use parts of discarded product in a new product with the same function

R7 Repurpose
Use discarded product or its parts in a new product with a different function

R8 Recycle
Process materials to obtain the same (high grade) or lower (low grade) quality

R9 Recover
Incineration of materials with energy recovery

Innovations in core technology

Innovations in product design

Innovations in revenue model

Socio institutional change

pbl.nl

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CIRCULAR ECONOMY AS A MULTI-GOVERNANCE APPROACH

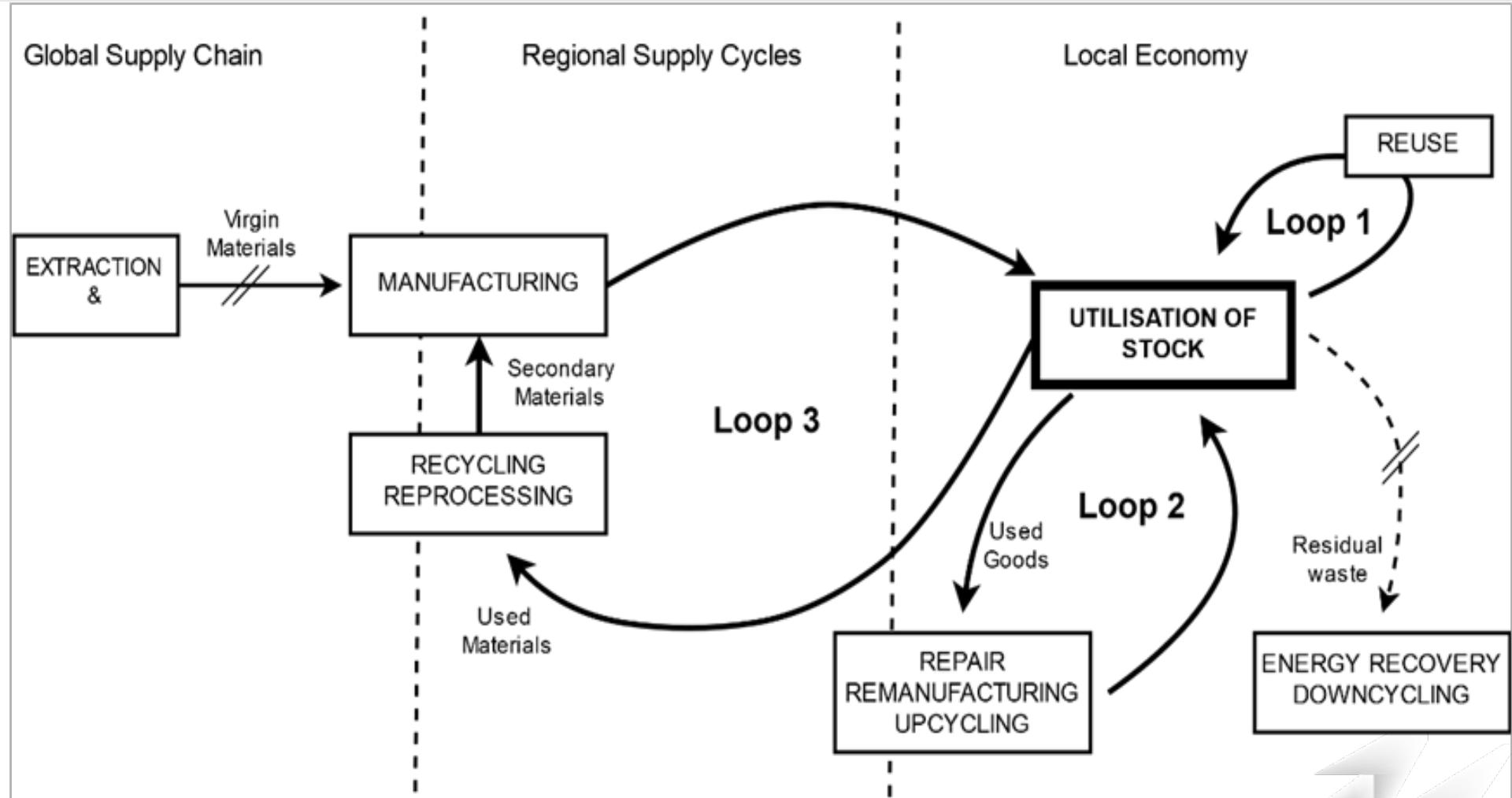
Strategic EU documents

- Resource Efficient Europe Flagship Initiative
- 2008 EU Waste Framework Directive
- EU Action Plan for the CE
- European Strategy for Plastics in a Circular Economy
- Roadmap to a Resource Efficient Europe

- *National and city strategies*
- Dedicated CE strategies and roadmaps
- CE in sectoral policies, RIS3



THE BASIC LOOPS OF CIRCULAR ECONOMY



Source: modified from Stahel and Clift (2016)

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CIRCULAR BUSINESS MODELS: CONCEPT AND DEFINITIONS



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CIRCULAR BUSINESS MODELS

Definition and types

CE Strategic Areas	Single firms and consumers	Industries, clusters, regions
Material sourcing and circular input	Material substitution Energy neutrality	Diversity and cross-sector linkages Bio-based materials Urban mining
Production (design, manufacturing, distribution)	Cleaner Production Eco-Design, including de-materialization, design for disassembly, design for modularity, design for reparability, etc	Industrial symbiosis Eco-industrial park/networks
Consumption and use	Green Purchase and consumption Renting service Product re-use Virtualization	Community involvement Sharing economy Socially responsible consumption Eco-labelling schemes Stewardship Product-Service-System
Waste-as-a-resource (collection, recycling, recovery, remanufacturing)	Product recycle system Element/substance recovery Energy recovery Upgrading, Maintenance and Re-pair	Separation Take-back and trade-in systems Upcycling/Downcycling

TYPES OF CIRCULAR BUSINESS MODELS



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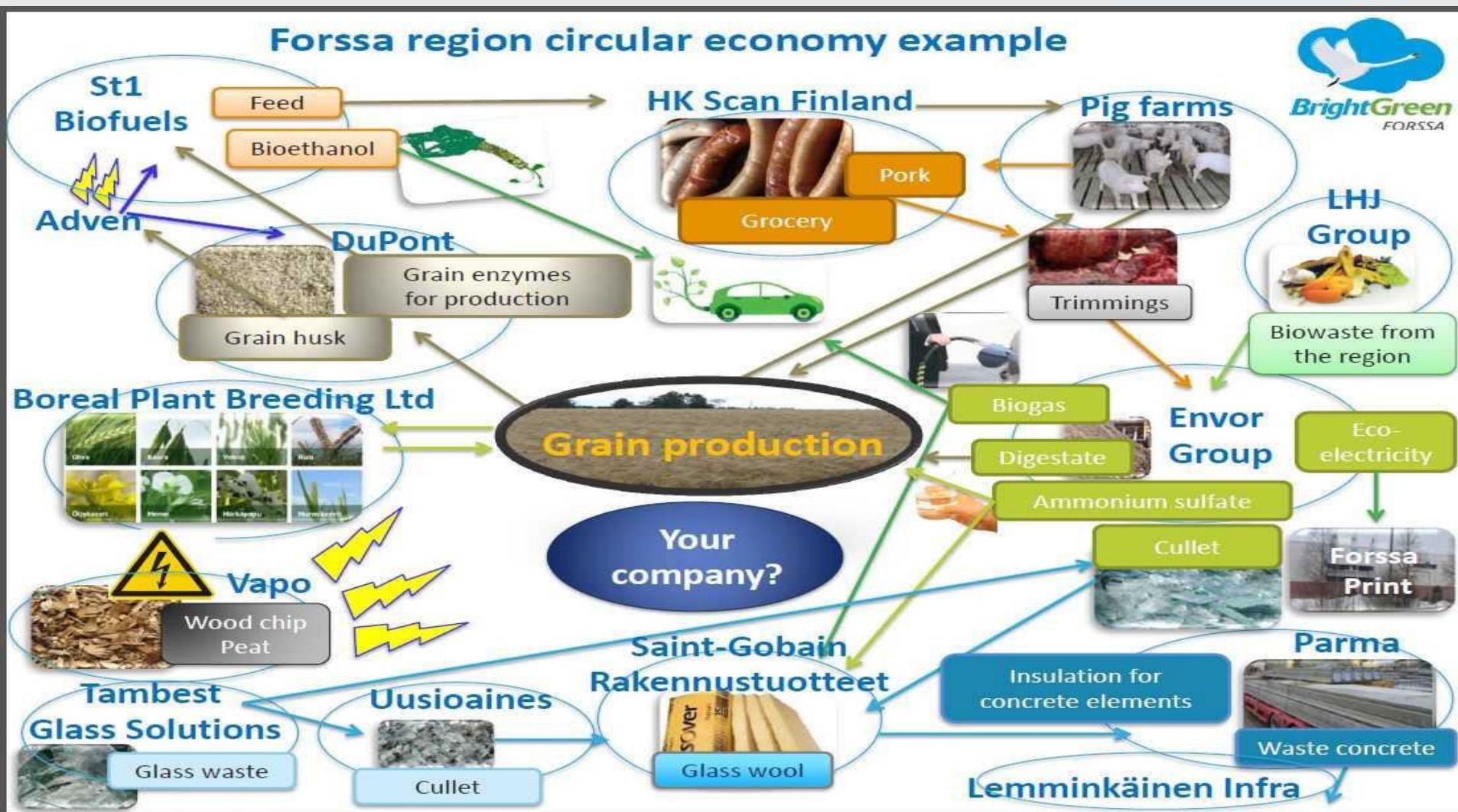
INDUSTRIAL SYMBIOSIS (1)

Definition and types

- An approach that engages several organisations across different fields in a process of developing mutually beneficial transactions to reuse waste and by-products
- Can be implemented in any type of regions or area, depending of the types of resources transacted
- Depends on governance and policy factors
- Originates in two ways:
 - As self-organised activity (e.g. Kalundborg, DK)
 - As managed process; 2 types:
 - Facilitated networks
 - Planned networks



INDUSTRIAL SYMBIOSIS (2)



-  *Source: Interreg Europe SYMBI project*

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WHAT CAN CITIES DO TO STIMULATE IS?

Influence the following policies:

- IS practices in tendering processes;
- Minimise wastage and better waste segregation;
- Level of landfill taxes;
- Policy incentives for the reuse;

Cities more advanced in IS need to:

- Raise awareness of companies on the benefits of IS
- Further exchange on information on the experiences with closed database vs. open database

Cities at an early stage of IS need to:

- Organise campaigns
- Map the stakeholders and legislation
- Develop a simple waste exchange platform
- Start small with matchmaking and scale up gradually



Concept

- Peer-to-peer-based activity of obtaining, giving, or sharing the access to goods and services
- Mostly covers consumer to consumer (C2C) business relationships
- Taking place digitally on a larger scale
- Platforms can be established for profit or non-profit purposes
- Create new opportunities but also generate tensions between existing operators and innovative service providers

Sectors:

- Housing and transport

Policy context:

- EU Agenda for the Collaborative Economy (2016)

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SMART AND CIRCULAR DESIGN: PRINCIPLES



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SMART AND CIRCULAR DESIGN

- EU Policy context:
 - Eco-design directive (2009/125/EC);
 - Circular Economy Action Plan (CEAP);
 - Eco-design Working Plan 2016-2019.
- Repair and reuse sector widely supported (e.g. repair cafés and second-hand shops)
- Design for maintainability or reparability prolongs product use, and lifetime, applicable in building sector (e.g. Amsterdam)
- Other concepts:
 - Biomimicry: inspiration from nature to address human challenges
 - Life cycle thinking
 - Smart Material Choices



WHAT CAN CITIES DO TO SUPPORT SMART AND CIRCULAR DESIGN?

- Implement repair and reuse policies (e.g. collect and resell of second-hand products)
- Making building and construction sector more circular by, e.g.:
 - Assigning pilot projects in new areas
 - Tender criteria for smart design principles
 - Challenge start-ups to develop solutions for smart design
 - Initiate dialogue for better dismantling and waste separation
 - Encourage local companies in the processing and reverse logistics of waste
 - Adjust zoning plans for allow for multi-functional buildings
 - Aim for high-value reuse in waste processing contracts
 - Facilitate the exchange and use of high value building materials
 - Encourage companies to use a materials passport



EXTENDING THE LIFETIME OF PRODUCTS AND MATERIALS

The concept:

- Central enabler of circular economy
- Reuse and remanufacturing - a key strategy
- Reuse conserves the physical assets of raw materials as well as the energy embedded in products or components
- *Second-hand sale*
 - Linking reuse and second-hand sale to social employment policies
- *Remanufacturing*
 - An industrial process by which a previously sold, worn, or non-functional product or component is returned to a ‘like-new’ or ‘better-than-new’ condition
 - Developing eco-design strategies can facilitate remanufacturing and closed loops.



BIOECONOMY

- Definition: '*the production of renewable biological resources and the conversion of these resources and waste streams into value-added products, such as food, feed, bio-based products as well as bio-energy*'.
- Covers agriculture, forestry, fisheries food and chemicals sectors
- “Cities should become major circular bioeconomy hubs” (The European Bioeconomy Strategy and action plan (2012) (updated in 2018)
- Several countries and regions have adopted national or regional bioeconomic strategies (e.g. Finland, Scotland, Saxony-Anhalt, South-west Netherlands).



BIOPLASTICS

- The European Strategy for Plastics in a Circular Economy (2018) supports the development of alternative types of feedstock
- With the upcoming ban of single-use plastics the share of the market for these products will grow
- Link to EU Waste legislation

E.g. the Packaging and Packaging Waste Directive acknowledge that bio-based and recycled materials make packaging more sustainable



WATER REUSE

Environmental:

- substitutes extraction;
- relieves pressure of discharge from UWWT to sensitive areas;
- reduces need for chemical fertilisers providing nutrient for soil fertilisation.

Economic:

- compared to desalination or water transfer, water reuse requires lower investments and energy
- improved water efficiency;
- fosters innovation

Benefits of reuse of treated wastewater

Climate: contributes to reduce greenhouse gas emissions

Social: Increased reliability independent from seasonal droughts and beneficial to the farming community



WASTE AS A RESOURCE: RECYCLING

- Well-established eco-industry for processing materials (already considered waste) to obtain new materials of different quality levels
- EU Policy framework:
 - Waste Framework Directive: 50% target of selected materials in household and similar waste to be recycled and prepared for reuse by 2020 by each EU MS for at least four categories
 - The Circular Economy Package
- Cities can take steps with regards to:
 - Improving waste collection
 - Extended producer responsibility or transformation of waste into secondary raw materials
 - Separate collection of different types of waste.



WASTE HEAT RECOVERY

- The process of capturing heat from waste streams of existing industrial processes and using this heat directly
- Results in energy savings and greenhouse gas emission reductions

Key drivers:

- the national regulatory requirements with regards to emissions and emission reduction targets, increased energy costs and energy security considerations;
- technological improvements and innovations
- A vast amount of waste heat is produced in urban areas from a range of local sources



UPCYCLING

- Definition: a process of transforming by-products and waste into new materials or products of higher quality than the original one or better environmental value.
- Downcycling vs. upcycling

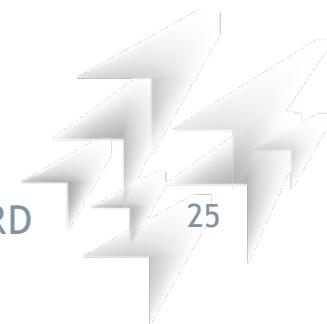


PART 4

PLANNING FOR CIRCULAR ECONOMY

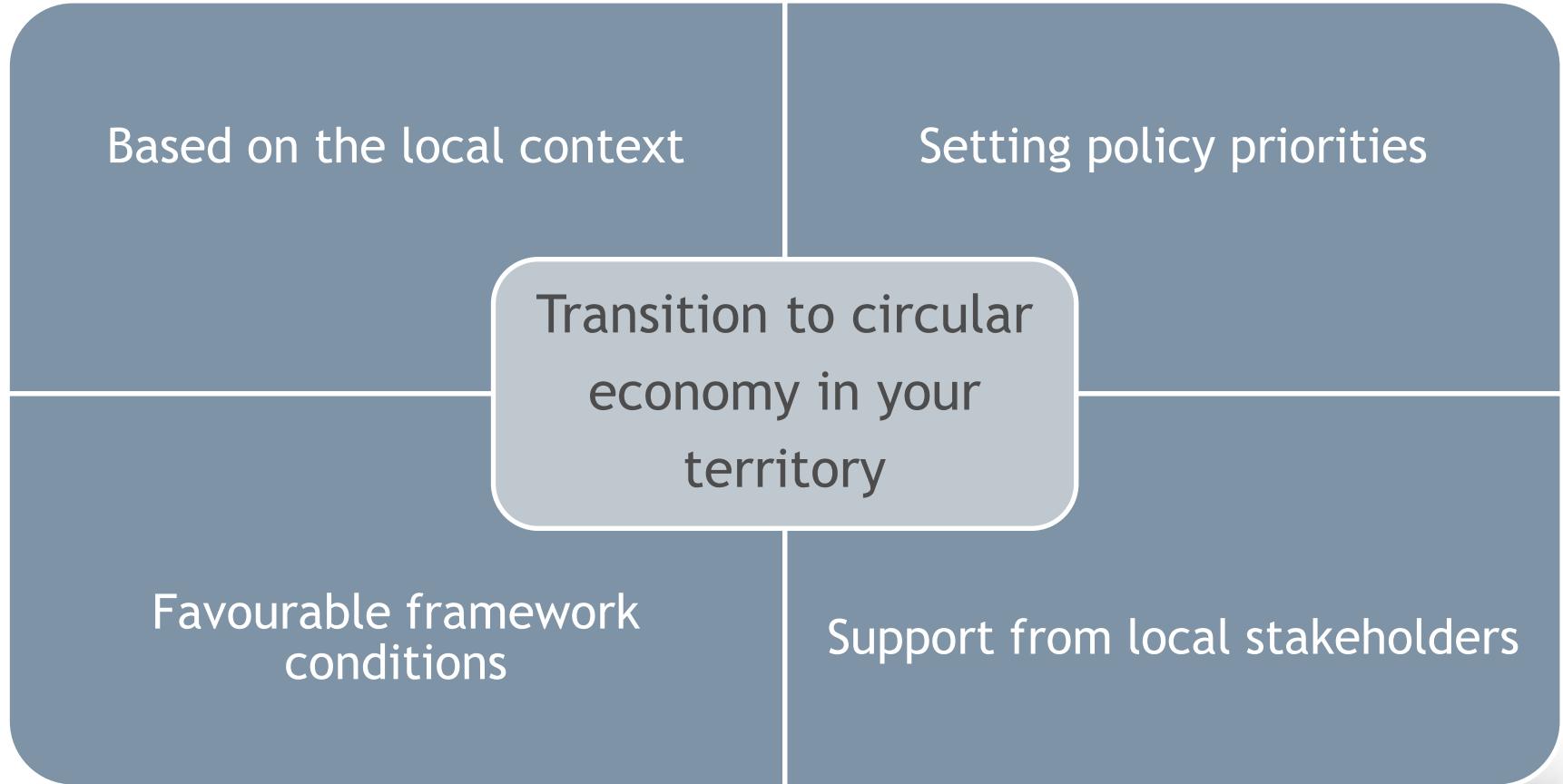


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TRANSITION TO A CIRCULAR ECONOMY (1)

Building blocs of circular economy



TRANSITION TO A CIRCULAR ECONOMY (2)

Obstacles

- Lack of systemic vision;
- Unfavourable policy framework;
- Vested interests;
- Risk-averse organisational models;
- Practices of producers and consumers



Stages in planning the transition to the circular economy



Assessment elements:

- Physical (land-base) endowment of the city
- City performance in terms of resource productivity and efficiency
- Business capabilities (e.g. EMAS certified companies, nr of companies with eco-innovations, etc.)
- Capabilities of knowledge organisations
- Industrial potential of different sectors for CE
- Agglomeration-related potentials
- Accessibility
- Explore trade-offs and define winners and losers
- Territorial milieus
- Technological lock-ins



ANALYSIS OF ENABLING AND HINDERING FACTORS (1)

Types of barriers and drivers	Examples of CE drivers and barriers	What can cities do about that?
Economic	<p>Drivers:</p> <ul style="list-style-type: none"> • Economic savings • Profit increase • Funding/investment sources for CE businesses or initiatives • new market/business opportunities • attractive prices for circular products and services <p>Barriers:</p> <ul style="list-style-type: none"> • no or limited returns from investment • limited market for recycled products • high prices for imported or raw materials 	<ul style="list-style-type: none"> • City-level programmes could keep educating companies in a multitude of ways • Work with financial institutions and EU programmes to channel more funding into CE initiatives • Can do little or nothing about it
Regulatory	<p>Drivers:</p> <ul style="list-style-type: none"> • High charges for waste/high landfill tax • Tax benefits for green activities • Charges, taxes on unsustainable/harmful activities <p>Barriers:</p> <ul style="list-style-type: none"> • subsidies for traditional polluting/inefficient activities (e.g. for coal, water and energy costs) • no ban of specific products (e.g. single use plastic) • Rigid 'end of waste' criteria 	<ul style="list-style-type: none"> • Gradually increase waste landfill charges to steer waste away from the landfill and tighten enforcement • Green activities could be exempted from local taxes

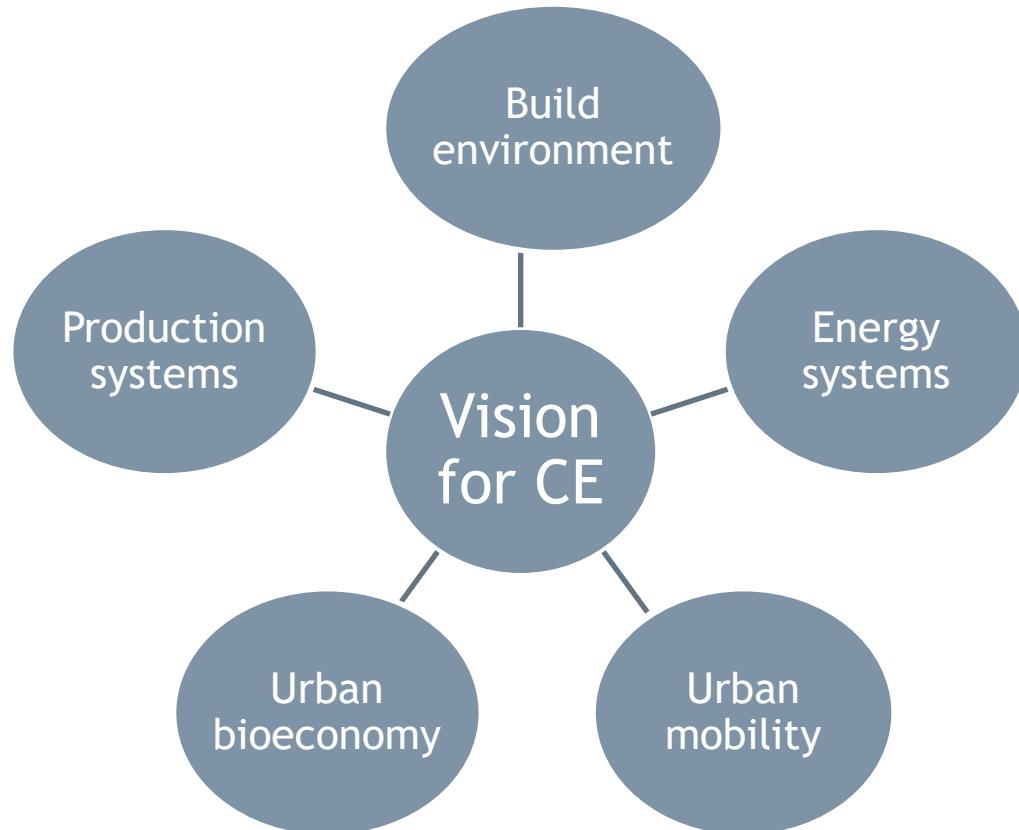
ANALYSIS OF ENABLING AND HINDERING FACTORS (CONT.)

Types of barriers and drivers	Examples of CE drivers and barriers	What can cities do about that?
Behavioural/ socio-cultural	<ul style="list-style-type: none"> • CSR culture and leadership in companies • Awareness of consumers • Level of entrepreneurial culture 	<ul style="list-style-type: none"> • Development of CSR support programmes • Develop awareness programmes • De-risk certain circular economy endeavours
Technological / knowledge	<ul style="list-style-type: none"> • Qualified staff, local experts • R&I capabilities in companies and universities • Research, testing, piloting infrastructure 	<ul style="list-style-type: none"> • Develop educational programmes • Establish partnerships with (local) universities



DEFINING VISION AND PRIORITIES

Example of a possible combination of sectors for the transition to circular economy

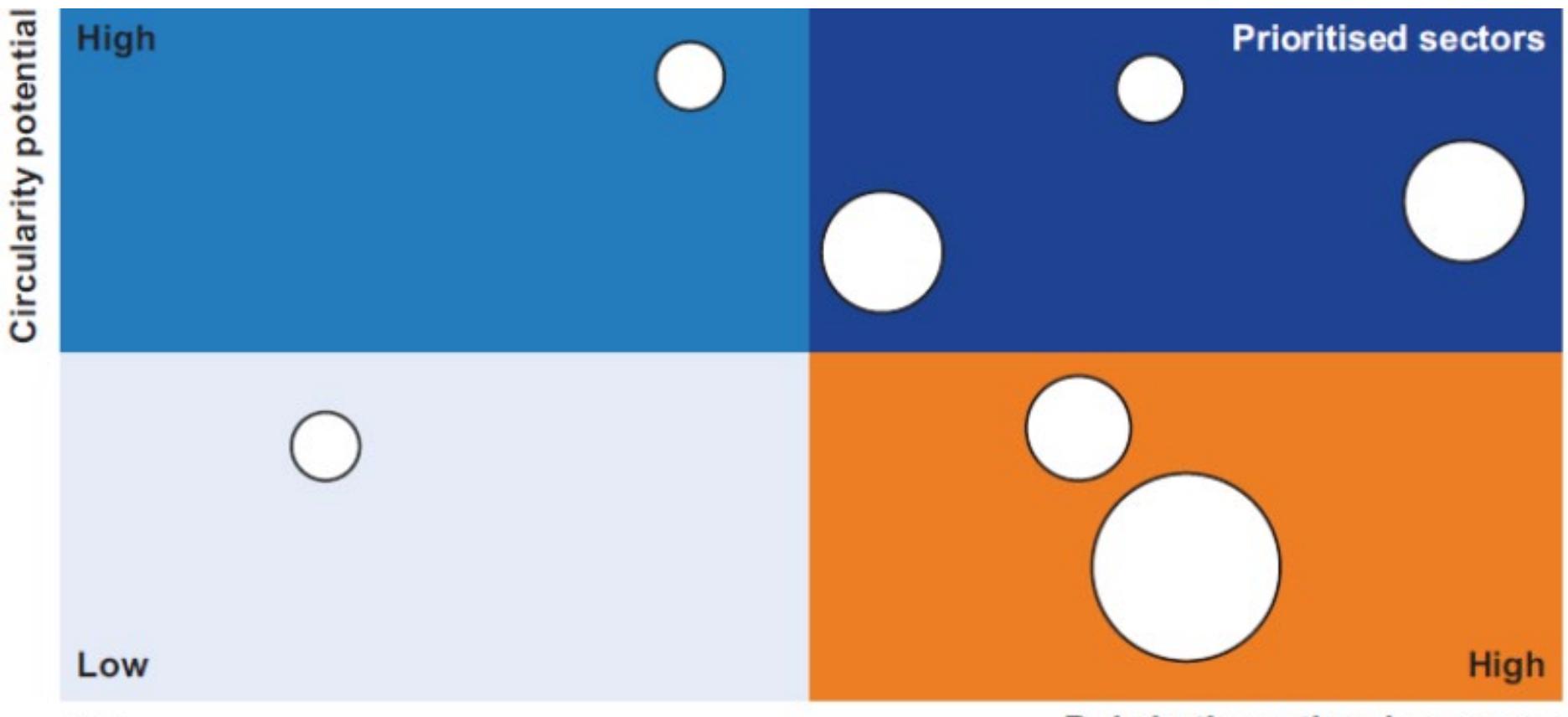


Source: Ellen MacArthur, *Cities in the Circular Economy: an Initial Exploration*



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SECTOR PRIORITISATION



Sectors, size of a circle correlated with size of a sector

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GOVERNANCE AND STAKEHOLDERS (1)

Stages in good governance in the transition to the circular economy

Who are the key partners and stakeholders to work with and why?

How can the stakeholders be mobilised for the circular economy? What's in it for them?

How can collaborative action and effective implementation be best organised?



GOVERNANCE AND STAKEHOLDERS (2)

Stakeholders' role in circular economy

STAKEHOLDERS	ROLE IN CIRCULAR ECONOMY
Local champions	Goodwill ambassadors Community mobilisers
Public sector allies	Key implementation partners Improve framework conditions
Sectoral representatives	High impact on economy and environment Target sectors for transformation
Eco-industries	Capitalise on their infrastructure Strengthened roles in promoting CE
Entrepreneurs	Direct beneficiaries of the strategy Can be activated for the circular economy
Business support structures	Key allies for circular economy promotion Service providers to local entrepreneurs and
Academia and knowledge providers	Knowledge generation on local CE features Assessments and advice
Educators	Teach the circular economy principles Mobilise the young and lifelong learners
Investors	Mobilise finance for CE Develop new financing models
Grassroots	Demonstrate benefits to citizens Reach out to all citizens



Name
Department
Project Acronym



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CITYCIRCLE

1st Steering Committee Meeting

Udine, Italy

November 12-13th 2019



Hosted by:
APE FVG

Meeting Venue: Hotel Ambassador



MINUTES

Day 1 - Tuesday, November 12th 2019

Greetings & Intro

WP T4 - SETTING-UP TRANSNATIONAL VALUE CHAINS (CE CIRCLES)

Marco Cometto (Trentino Digitale, external presentation) Presentation of project Greencycle outcomes:

- Project is dealing with the topic of Circular Economy in Alpine Space
- The pilot is represented by Greencycle Web Marketplace (marketplace.greencycle.si)
- Main suggestion for PPs:
 - Sustainability is important - It's good to think about project sustainability (KEY QUESTION: How the project results will be maintained after the project closure)
 - Collection of data is not easy, Pre-researches are necessary (KEY QUESTION: what data the PPs are able to collect?)
- Project Green Cycle is open for further discussion about enlargement and possible future cooperation under CITYCIRCLE project

Matjaž Gerl, eZavod - WP T4 - Setting-up transnational value chains (CE circles)

KEY NOTES:

1. D.T4.1.1 Establish CECOMs - DEADLINE JUNE 2020
3 transnational network of innovation stakeholders, will be formed and brought together every 2 months in online meetings, CECOMs created in 3 fields:
 - a. Energy and environment,
 - b. Agro- and bio-economy,
 - c. Public health, medicine and life sciences
2. D.T4.1.2 Online CECOM innovation workshops -
Members of CECOMs should participate on 2 online WS + coordination and help under the preparation of transnational strategy, identification of potential fields of Hubs.

TASK PPs:

1. E-zavod develops - a template for setting-up of CECOMs - DEADLINE END OF NOVEMBER
2. Each PP should think about potential stakeholders that will take part of CECOMs
3. Each Region should nominate member for minimum 2 topics under D.T4.1.1 - DEADLINE END OF DECEMBER 2019



WP T2 Knowledge-base and capacity building (toolbox - train the trainers)

Joint training for all six regional stakeholders groups (D.2.2.2), led by BWCON

KEY NOTES:

1. The training for representatives of all regional stakeholders groups - presentation of the Starter kit and explanation on its use.
2. Focus on the overall aspects of circular economy and its innovation potential.
3. Led by BWCON expert, organized via teleconference (Skype).
4. The trained project partners will spread the knowledge throughout the region within planned interaction with local stakeholders.

Luc Schmerber, BWCON - WP T2 - Knowledge-base and capacity building (toolbox - train the trainers)

KEY NOTES:

1. A2.1 Starter kit will serve for transferring the knowledge to the region
 - a. Countries will translate the presentation into national language according to the needs. **DEADLINE 01/2020**
 - b. BWCON: needs to check if the tables and pictures used in the starter kit can be provided to PPs: BWCON will inform partners shortly after the SCM.
2. D.T2.2.2 Additionally to the training held during the SCM, the further spread of knowledge to regional stakeholder will be organized by PPs according to the develop materials. Recommended to combine this activity with stakeholders' workshops under WP T1. **DEADLINE Beginning of 02/2020**
3. D.T2.2.4 - Specific training (online) for each of the regional stakeholder groups, taking into account their specific needs and requirements - 2 training will be organize per region. Possibly, the similar requirements of regions might be aggregated in joint training for more regions, also the implementation of three thematic groups of trainings (used within WP T4) - 1. Energy and environment, 2. Agro- and bio-economy, 3. Public health, medicine and life sciences - will be considered.

PPs: specify to BWCON on which topic they would like to focus

BWCON prepare next training sessions with the groups

DEADLINE 02-03/2020

Note: In case the actions in the regions related to other WPs (T1 and T3) would benefit, the postponement of the specific trainings to a later period will be considered.

4. Discussion with WP C leader (DAN) about the publishing of the Starter kit and other knowledge documents to come later. The subsection in CITYCIRCLE webpage, renamed to Knowledge base will be created. This should be enriched by the proper picture and texts. Changes in this section will also take place in news.



WP T3 Implementing CE pilots

KEY NOTES:

1. Areas of Pilot Action
 - a. Košice - Agriculture and forestry
 - b. Varaždin - Bioeconomy
 - c. Udine - Energy and Environment
 - d. Krajn and Dornbirn - Transversal approach to local economy
2. TUKE: Informed about the upcoming activities to start in 01/2020. TUKE will prepare the templates for all PPs to describe the Pilot scope and roadmap in details. It is also recommended for the partners, when performing activities in the regions from other WPs, to discuss the planned pilot activities even in the very early stages to ensure the proper adoption in later stage.

WP Management

KEY NOTES:

1. TUKE informed about first reporting period and financial performance.
2. 3 reports not yet submitted
 - a. MOK - no report created yet - will prepare two financial reports in one after next period
 - b. UD, APE FVG, BWCON - issue with National controllers/FLC was eliminated - report submitted
3. Spending is about 58%, until the mid-term review we need to reach 80-100%
4. Next bi-monthly telco meeting 26.11.2019 9:30 (via Webex)
5. Next meeting will be organized in Austria (responsible FHV), first week of March 2020
6. All PPs are kindly asked not to forget to upload deliverables to Google Drive folders

WP T1 Circular economy strategy and hubs

KEY NOTES:

1. Regional mapping D.T1.1.1-1.4 done.
2. Next steps:
 - a. Establishment of regional stakeholder groups D.T1.2.1 - 2.5
 - b. Joint circular economy strategy D.T1.2.6 - 2.10
3. All PPs kindly ask to start contact with stakeholder in order to create regional stakeholder groups (template circulated)
4. Joint circular economy strategy, please note that Strategy needs to contain strategic actions and needs to be signed by all partners (in form of Memorandum of Understanding)

NOTE: In specific situations, the memorandum can be substituted by the letter of commitment
5. Developing and implementing quadruple helix CE hubs - there is still discussion about the structure and operation of the hub depending of the field of competences

APE FVG: Will extract from the application all information about hub in clearer form.
6. D.T1.2.11 - Circular economy strategy workshops - 2 workshops per target region (A1.2) will bring together relevant quadruple helix stakeholder

NOTE: APE FVG propose to postpone the WS for 1-1,5 month, based on the frequency of the WS. It will be hard to bring stakeholders together that often. In specific and duly explained cases, this can be considered.



WP Communication

KEY NOTES:

1. The Project web site <https://www.interreg-central.eu/Content.Node/CITYCIRCLE.html> was created
2. PPs: ANY content you read or find online regarding CE can be posted, let us know
3. Contacts for responsible persons to whom PPs are able to send all relevant information to be posted: marin.sipek@dan.hr, marko.horvat@dan.hr
4. PPs kindly asked to share and to promote project website at all events they attend and among any stakeholders they meet with
1. Templates for Meeting reports will be circulated by DAN
2. Roll up - will be created by DAN, PPs asked to translate into national languages and will be printed by DAN
3. PPs: kindly asked to send a photo of the displayed poster on your premises
4. Satisfaction Survey will be circulated by DAN
5. DAN will send a template for deliverable D.C.7.1 Personal meeting with stakeholders

ATTENDANCE LIST

CE1515 CITYCIRCLE

Event Name: Project Meeting 2

Location: Udine - ITALY

Date: 13.11.2019

No.	Name and surname	Organisation	E-mail	Signature
1.	Mojmír Přidavok	TUKE	mojmír.přidavok@tuke.sk	
2.	František Janke	TUKE	frantisek.janke@tuke.sk	
3.	Róbert Hanzen	TUKE	robert.hanzen@tuke.sk	
4.	Peter Tapak	TUKE	peter.tapak57@gmail.com	
5.	Barbora Kováčová	EGTC - Via Carpatia	barbora.kovac13@gmail.com	
6.	Nikolína Žigmund	DAN	nikolina.zigmund@dan.hr	

Consent to the Processing of Personal Data

By signing the attendance list you grant consent to the Technical University of Kosice (hereinafter referred to as the *TUKE*), registered office at Letná 9, 040 01, Košice, Business ID 003397610 (hereinafter referred to as "the Administrator") by means of the Regulation (EU) No 2016/679 of the European Parliament and of the Council on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing of Directive 95/46 / EC (General Regulation on the Protection of Personal Data) (hereinafter referred to as "the Regulation") to process the following personal data: name and surname; Organization name / abbreviation, email address and signature of the participant. This data can be processed by the Administrator based on your consent to document the event of the CITYCIRCLE project until the completion of the project implementation to the leading authority Interreg CENTRAL EUROPE.

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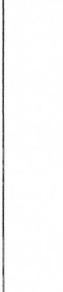


No.	Name and surname	Organisation	E-mail	Signature
7.	Marin Šipek	DAN	marin.sipek@dan.hr	
8.	Marko Horvat	DAN	marko.horvat@dan.hr	
9.	Maja Grđan	DAN	maja.grdjan@dan.hr	
10.	Filip Bišćević	DAN	filip.biscevic@gmail.com	
11.	Tatjana Posavec	CMV	tatjana.posavec@varazdin.hr	
12.	Renata Kolaric Milušić	CMV	renata.Kolaric@varazdin.hr	
13.	Krešimir Sever	CMV	kresimir.sever@varazdin.hr	
14.	Matteo Mazzolini	APE FVG	matteo.mazzolini@ape.fvg.it	
15.	Martina Arteni	APE FVG	martina.arteni@ape.fvg.it	
16.	Stefano Treu	APE FVG	stefano.treu@ape.fvg.it	
17.	Alessandro Mazzeschi	UD	alessandro.mazzeschi@comune.udine.it	
18.	Stefano Del Bianco	UD	stefano.delbianco@comune.udine.it	

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20.	Marija Ahačić Premrl	City of Kranj	Marija.Ahacic-Premrl@kranj.si	
21.	Uroš Kavdik	City of Kranj	Uros.Kavdik@kranj.si	
22.	Matjaž Gerl	eZavod	matjaz@ezavod.si	
23.	Nina Taylor	eZavod	nina@ezavod.si	
24.	Martin Dobler	FHV	martin.dobler@fhv.at	
23.	Bojana Suzic	FHV	Bojana.SUZIC@fhv.at	
24.	Luc Schmerber	bwcon GmbH	schmerber@bwcon.de	
25.	Marco Combetto	Trentino Digitale		
26.				
27.				
28.				
29.				

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ATTENDANCE LIST

CE1515 CITYCIRCLE

Event Name: Project Meeting 2

Location: Udine - ITALY

Date: 12.11.2019

No.	Name and surname	Organisation	E-mail	Signature
1.	Mojmír Přidavok	TUKE	mojmír.přidavok@tuke.sk	
2.	František Janke	TUKE	frantisek.janke@tuke.sk	
3.	Róbert Hanzen	TUKE	robert.hanzen@tuke.sk	
4.	Peter Tapak	TUKE	peter.tapak57@gmail.com	
5.	Barbora Kováčová	EGTC - Via Carpatia	barbora.kovac13@gmail.com	
6.	Nikolina Žigmund	DAN	nikolina.zigmund@dan.hr	

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26.	Lorenzo D'Acquarone	TRENTINO DIGITALE	Lorenzo.DACQUARONE@TNDIGIT.IT	Lorenzo D'Acquarone
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TAKING
COOPERATION
FORWARD



Stakeholders Group Training
Košice | 12.02.2020



**Obehová ekonomika pre mestá a regióny: Sada
pre začiatočníkov**



František Janke | Technical University of Košice

OBSAH

1.Časť :
Úvod do
obehovej
ekonomiky

2.Časť :
Obehové biznis
modely:
Koncept a
definícia

4.Časť :
Plánovanie pre
obehovú
ekonomiku

3.Časť : Typy obehových biznis
modelov:

- Priemyselná symbioza
- Ekonomika zdielania
- Inteligentný a obehový dizajn
- Predĺžovanie životnosti produktov a materiálov (predaj z druhej ruky, prerobenie)
- Obnoviteľné zdroje (bio-ekonómia, bioplasty, opäťovné využitie vody)
- Odpad ako zdroj (recyklácia, rekuperácia odpadového tepla, upcycling)



ÚVOD DO OBEHOVEJ EKONOMIKY



TAKING COOPERATION FORWARD

- Uplatňuje systémový prístup
- Zameriava sa na zníženie lineárnych tokov materiálov a energií v produkčno-spotrebných systémoch

Viacero obehových stratégií:

- Odmietnut' (Refuse - R0)
- Premysliet' (Rethink - R1)
- Redukovať (Reduce - R2)
- Opäťovne použiť (Reuse - R3)
- Opraviť (Repair - R4)
- Renovovať (Refurbish - R5)
- Prerobiť (Remanufacture - R6)
- Opäťovné nájdenie účelu (Repurpose - R7)
- Recyklovať (Recycle - R8)
- Obnoviť energiu (Recover energy - R9)



STRATÉGIE OBEHOVEJ EKONOMIKY



Strategické EU dokumenty

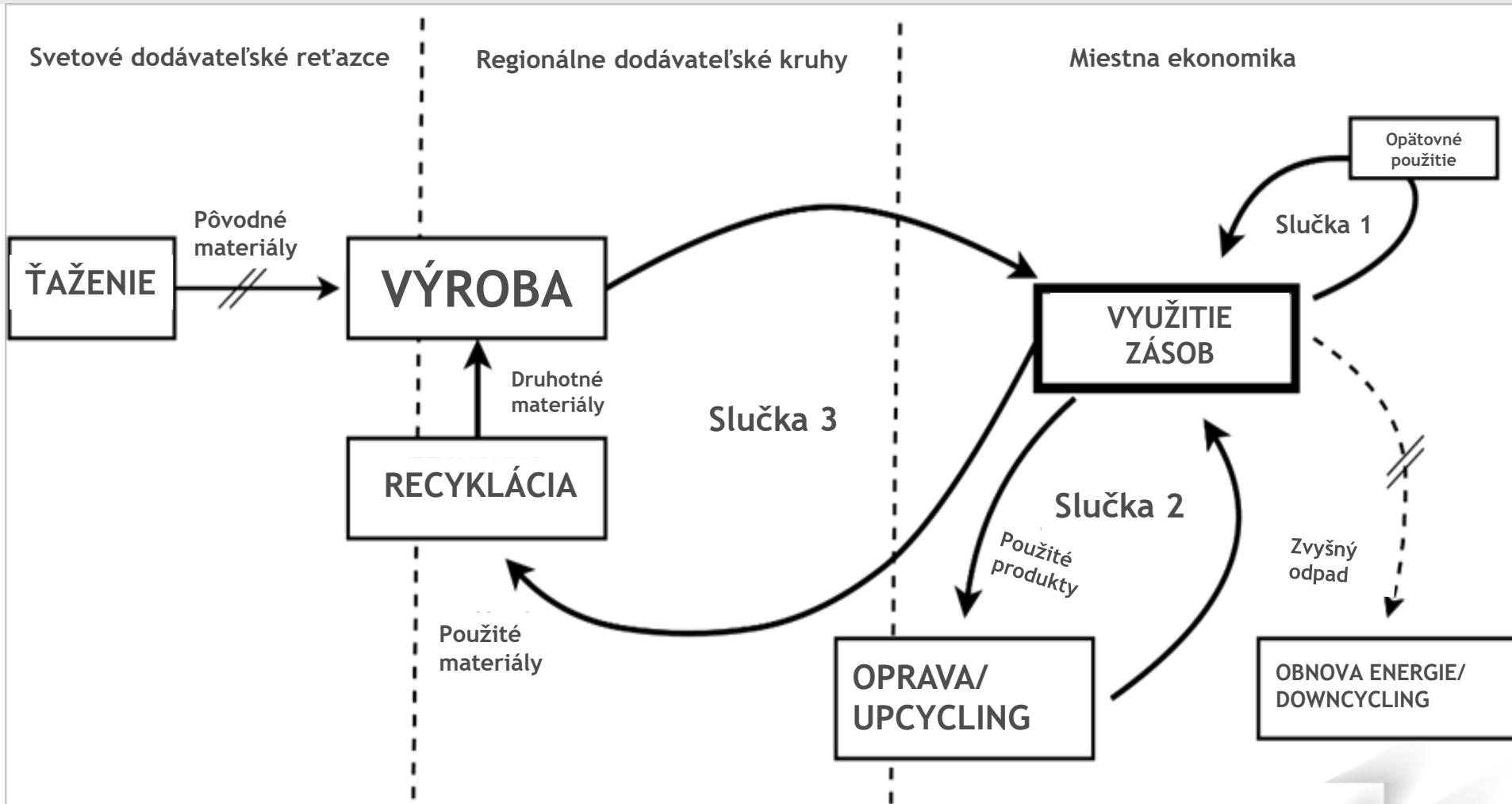
- Resource Efficient Europe Flagship Initiative
- 2008 EU Waste Framework Directive
- EU Action Plan for the Circular Economy
- European Strategy for Plastics in a Circular Economy
- Roadmap to a Resource Efficient Europe
- European Green Deal

Národné a mestské stratégie

- Vyhradené stratégie a cestovné mapy pre CE
- CE v odvetvových politikách, RIS3



ZÁKLADNÉ SLUČKY OBEHOVEJ EKONOMIKY



Zdroj: upravené zo Stahel and Clift (2016)



OBEHOVÉ BIZNIS MODELY: KONCEPT A DEFINÍCIA



OBEHOVÉ BIZNIS MODELY

Definície a typy

Strategické sektory CE	Jednotlivé firmy a spotrebiteľia	Odvetvia, klastre, regióny
Získavanie materiálov a obehový vstup	Materiálna náhrada Energetická neutralita	Diverzita a medzisekt. prepojenia Bio materiály Mestská t'ažba
Produkcia (dizajn, manufaktúra, distribúcia)	Čistejšia produkcia Eko-dizajn, dizajn pre: dematerializáciu, demontáž, modularitu, opraviteľnosť, atď'.	Priemyselná symbióza Eco-priemyselné parky/siete
Spotreba a používanie	Zelený nákup a spotreba Prenájom produktu Opäťovné použitie produktov Virtualizácia	Zapojenie komunity Zdielaná ekonomika Sociálne zodpovedná spotreba Správcovstvo Systém Produkt-Služba
Odpad ako zdroj (zber, recyklácia, obnovenie, opäťovná výroba)	Systém recyklácie produktov regenerácia prvkov / látok Obnova energie Vylepšovanie, údržba a oprava	Separovanie Systémy spätného odberu a výmeny Upcycling / Downcycling

VYBRANÉ DRUHY BIZNIS MODELOV OBEHOVEJ EKONOMIKY

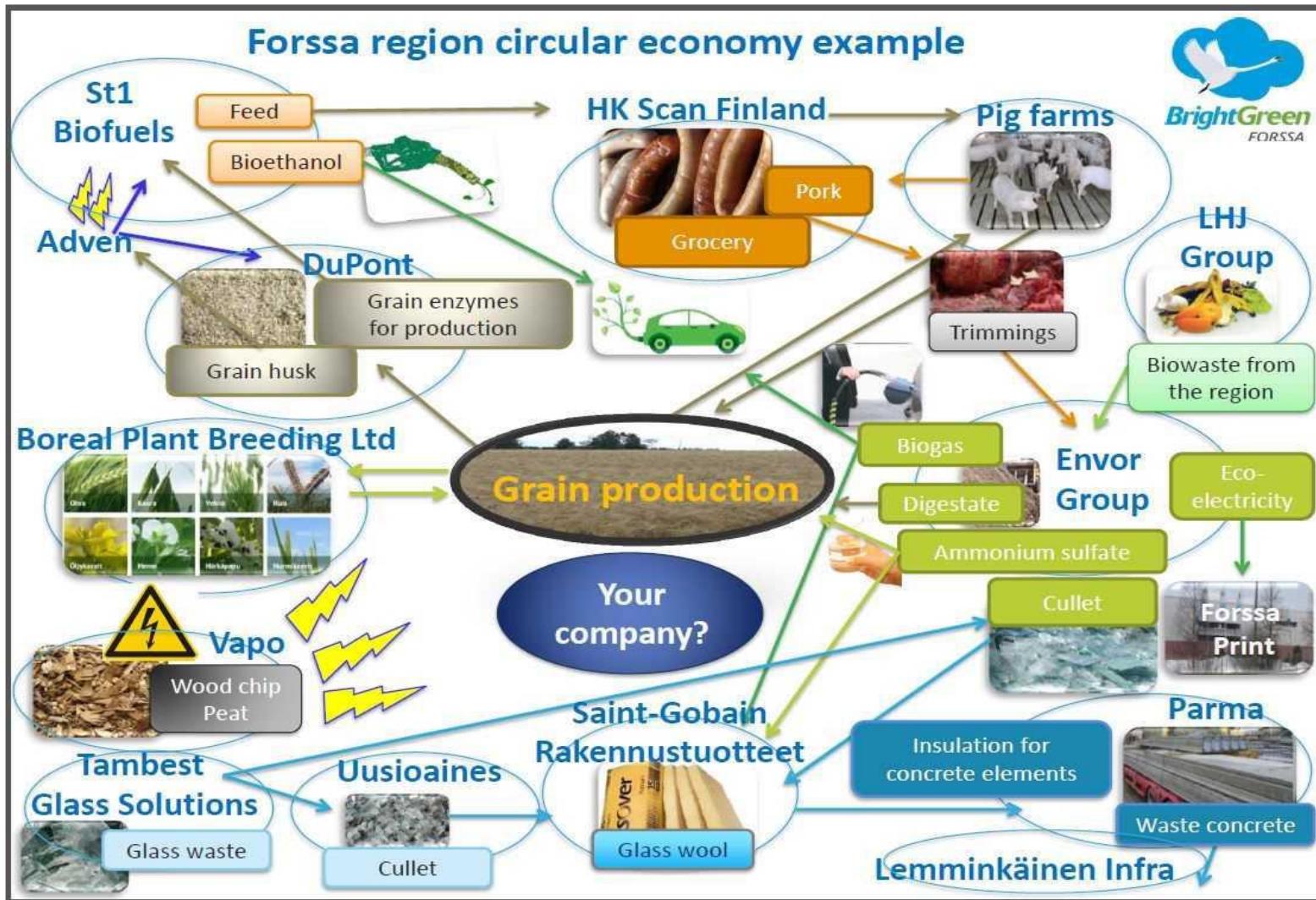


Definícia a typy

- Postup, ktorý zapája niekoľko organizácií v rámci rôznych oblastí v procese tvorenia spoločne benefičných prevodov pre opäťovné použitie odpadu
- Môže byť implementovaný v hocjakom type regiónu alebo oblastí, s ohľadom na typy zdrojov
- Závisí na legislatíve a type spravovania
- Vzniká dvoma spôsobmi:
 - Ako samo organizovaná aktivita (napr. Kalundborg, DK)
 - Ako riadený proces; 2 typy:
 - Usmerňované siete
 - Plánované siete



PRIEMYSELNÁ SYMBIÓZA II.



Source: Interreg Europe SYMBI project

TAKING COOPERATION FORWARD

INDUSTRIÁLNA SYMBIÓZA: PODPORA OD MIEST/REGIÓNOV

Ovplyvniť nasledovné politiky:

- Postupy industriálnej symbiózy pri výberových konaniach;
- Zminimalizovať plytvanie a zlepšiť segregáciu odpadu;
- Výška daní za skládkovanie odpadu;
- Politické stimuly pre opakované použitie;

Mestá pokročilé v IS potrebujú:

- Zvýšiť povedomie o výhodách IS
- Ďalej posúvať informácie o skúsenostiach v uzatvorennej databáze vs. otvorenej databáze

Mestá v začiatočných fázach IS potrebujú:

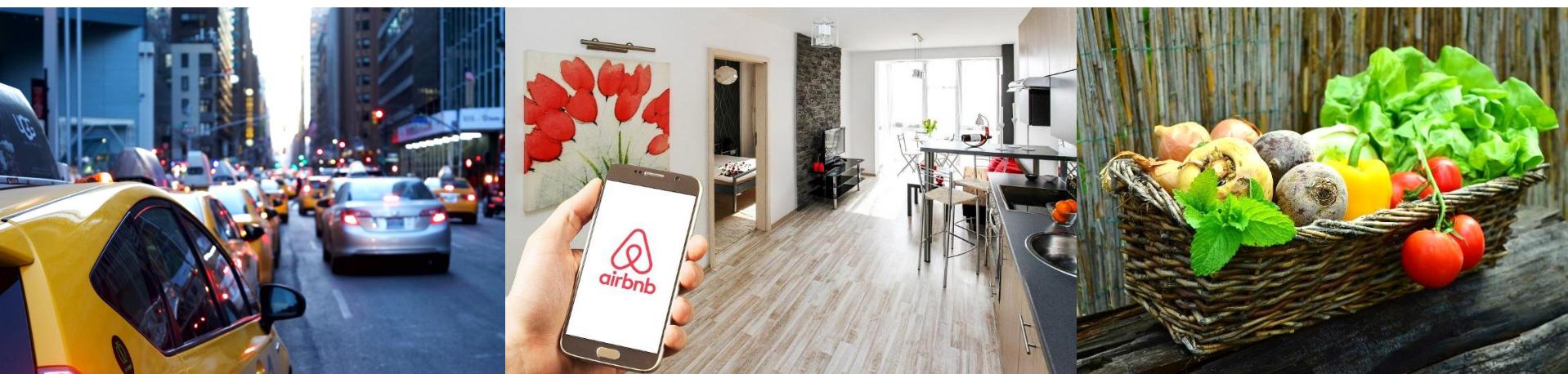
- Organizované kampane
- Zmapovať zainteresované strany a legislatívnu
- Vytvoriť výmennú platformu pre jednoduchý odpad
- Začať v malom so sietovaním partnerov a postupne zväčšovať spoluprácu



ZDIELANÁ EKONOMIKA

- Činnosť typu „peer-to-peer“ zameraná na získavanie, udeľovanie alebo zdielanie prístupu k tovarom a službám
- Pokrýva hlavne obchodný vztah medzi užívateľmi
- Deje sa v **digitálnej forme** a na širokej škále
- Platformy môžu byť založené pre ziskové aj neziskové účely
- Vytvára nové príležitosti, ale aj napäťa medzi existujúcimi operátormi a inovatívnymi poskytovateľmi služieb

Politický kontext - EU Agenda pre Zdielanú Ekonomiku (2016)



INTELIGENTNÝ A OBEHOVÝ DIZAJN



INTELIGENTNÝ A OBEHOVÝ DIZAJN

- Kontext politík EÚ:
 - Eco-dizajn directive (2009/125/EC);
 - Circular Economy Action Plan (CEAP);
 - Eco-design Working Plan 2016-2019.
- oblasť opravy a opäťovného použitia široko podporovaná (napr. opravné kaviarne and obchody „z druhej ruky“)
- Dizajn pre možnosť údržby a opravy predlžuje užívateľnosť produktu a jeho životnosť; aplikované v stavebných sektورoch (napr. Amsterdam)



INTELIGENTNÝ A OBEHOVÝ DIZAJN

- Súvisiace koncepty:

- Biomimikry - inšpirácia z prírody na riešenie ľudských výziev
- Zmýšľanie životného-cyklu (Life Cycle Assessment, LCA)
- Inteligentné voľby materiálu



INTELIGENTNÝ A OBEHOVÝ DIZAJN

The EcoDesign Checklist

Needs Analysis

How does the product system actually fulfill social needs?

- What are the product's main and auxiliary functions?
- Does the product fulfil these functions effectively and efficiently?
- What user needs does the product currently meet?
- Can the product functions be expanded or improved to fulfil user's needs better?
- Will this need change over a period of time?
- Can we anticipate this through (radical) product innovation?

EcoDesign Strategy @ New Concept Development

- Dematerialisation
- Shared use of the product
- Integration of functions
- Functional optimisation of product (components)

Life cycle stage 1: Production and supply of materials and components

What problems arise in the production and supply of materials and components?

- How much, and what types of plastic and rubber are used?
- How much, and what types of additives are used?
- How much, and what types of metals are used?
- How much, and what other types of materials (glass, ceramics, etc.) are used?
- How much, and which type of surface treatment is used?
- What is the environmental profile of the components?
- How much energy is required to transport the components and materials?

EcoDesign Strategy 1: Selection of low-impact materials

- Clean materials
- Renewable materials
- Low energy content materials
- Recycled materials
- Recyclable materials

EcoDesign Strategy 2: Reduction of material usage

- Reduction in weight
- Reduction in (transport) volume

Life cycle stage 2: In-house production

What problems can arise in the production process in your own company?

- How many, and what types of production processes are used? (including connections, surface treatments, printing and labeling)
- How much, and what types of auxiliary materials are needed?
- How high is the energy consumption?
- How much waste is generated?
- How many products don't meet the required quality norms?

EcoDesign Strategy 3: Optimisation of production techniques

- Alternative production techniques
- Fewer production steps
- Low/dlean energy consumption
- Less production waste
- Few/dlean production consumables

Life cycle stage 3: Distribution

What problems can arise in the distribution of the product to the customer?

- What kind of transport packaging, bulk packaging, and retail packaging are used (volume, weights, materials, reusability)?
- Which means of transport are used?
- Is transport efficiently organised?

EcoDesign Strategy 2: Reduction of material usage

- Reduction in weight
- Reduction in (transport) volume

EcoDesign Strategy 4: Optimisation of the distribution system

- Less/clean/reusable packaging
- Energy-efficient transport mode
- Energy-efficient logistics

Life cycle stage 4: Utilisation

What problems arise when using, operating, servicing and repairing the product?

- How much, and what type of energy is required, direct or indirect?
- How much, and what kind of consumables are needed?
- What is the technical lifetime?
- How much maintenance and repairs are needed?
- What and how much auxiliary materials and energy are required for operating, servicing and repair?
- Can the product be disassembled by a layman?
- Are those parts often requiring replacement detachable?
- What is the aesthetic lifetime of the product?

EcoDesign Strategy 5: Reduction of impact in the used stage

- Low energy consumption
- Clean energy source
- Few consumables
- Clean consumables
- No wastage of energy or consumables

EcoDesign Strategy 6: Optimisation of initial lifetime

- Reliability and durability
- Easy maintenance and repair
- Modular product structure
- Classic Design
- Strong product-user relation

Life cycle stage 5: Recovery and disposal

What problems arise in the recovery and disposal of the product?

- How is the product currently disposed of?
- Are components or materials being reused?
- What components could be reused?
- Can the components be reassembled without damage?
- What materials are recyclable?
- Are the materials identifiable?
- Can they be detached quickly?
- Are any incompatible inks, surface treatments or stickers used?
- Are any hazardous components easily detachable?
- Do problems occur while incinerating non-reusable product parts?

EcoDesign Strategy 7: Optimisation of the end-of-life system

- Reuse of product (components)
- Remanufacturing/refurbishing
- Recycling of materials
- Safe incineration

INTELIGENTNÝ A OBEHOVÝ DIZAJN: PODPORA OD MIEST/REGIÓNOV

- Lokálne politiky - pre zber a opäťovné použitie (napr. zbieranie a predávanie tovaru z druhej ruky)
- Možné aktivity:
 - Pridelenie pilotných projektov v nových oblastiach
 - **Kritériá verejnej súťaže** pre zásady inteligentného dizajnu najmä pri stavbách (budovy, cesty, vodné diela)
 - Podniesť start-upy k vytvoreniu riešení inteligentným dizajnom
 - Začať dialógu o lepšej demontáži a triedení odpadu
 - Podporiť miestne spoločnosti v spracovávaní a reverznej logistike odpadu
 - Prispôsobiť územné plány pre umožnenie viac-funkcionálnych budov
 - Zameriť sa na vysoko-hodnotné opäťovné použitie v zmluvách o spracovaní odpadu
 - Uľahčenie výmeny a používania vysokohodnotných stavebných materiálov
 - Vyzvať firmy aby použili **materiálové cestovné pasy**



ZVYŠOVANIE ŽIVOTNOSTI MATERIÁLOV A PRODUKTOV

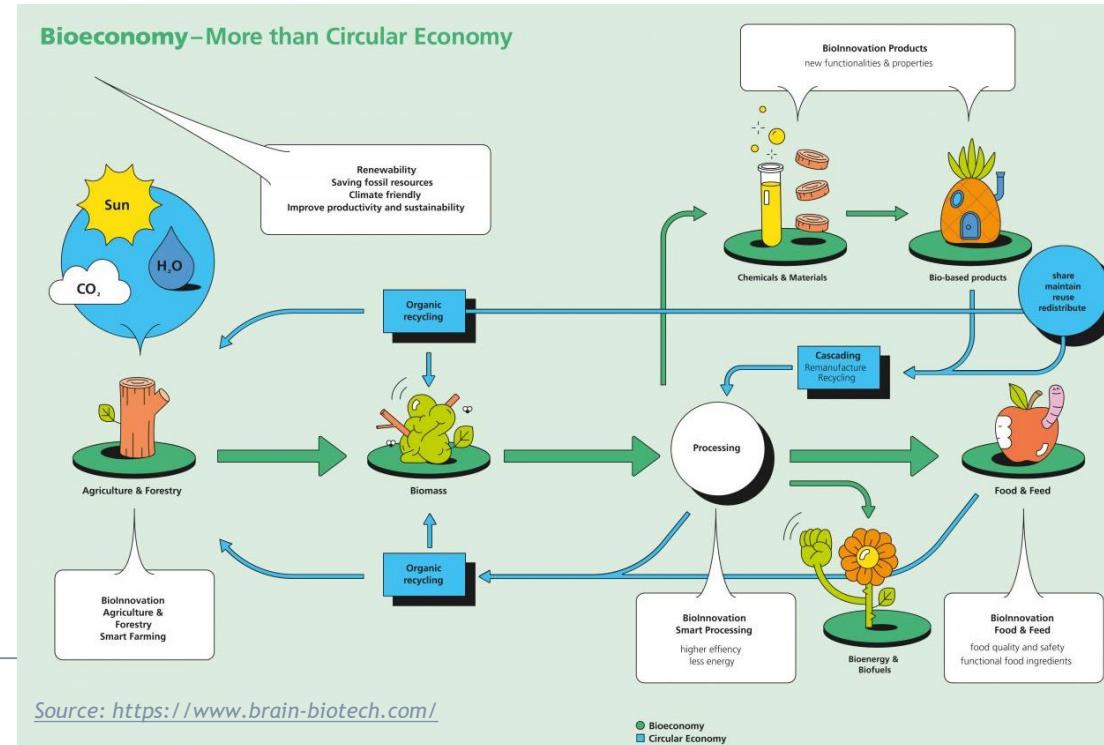
Koncept:

- **Ústredný koncept obejovej ekonomiky (aktivátor)**
- Opäťovné použitie a repasovanie - klúčová stratégia
- **Opäťovné použitie šetrí fyzické surovninové aktíva, ako aj energiu vnorenú vo výrobkoch alebo komponentoch**
- Prerobenie a repasovanie
 - Priemyselný proces, ktorým sa už predaný, nosený alebo nefunkčný produkt alebo komponent vracia do „ako nový“ alebo „lepší ako nový“ stavu.
 - Opatovne vynovený produkt s novou zárukou (na rozdiel od opráv)
 - Vytváranie produktov na báze eko-dizajnu môže umožniť opäťovnú výrobu a vytvorenie obejových slučiek
- Predaj z druhej ruky (second-hand)



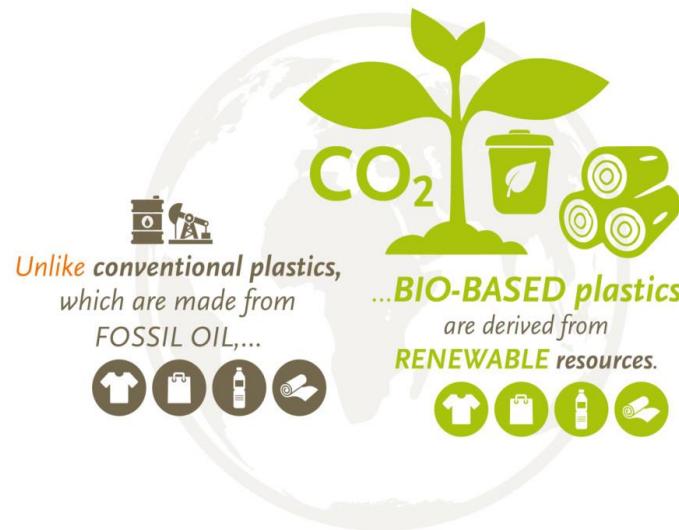
OBNOVITEĽNÉ ZDROJE: BIO-EKONOMIKA

- Definícia: Produkcia obnoviteľných biologických zdrojov a premena týchto zdrojov a odpadových tokov na produkty s pridanou hodnotou
- Patrí sem jedlo, krmivo, produkty a materiál na báze „bio“, ako aj bio energie“
- Zahŕňa odvetvia poľnohospodárstva, lesného hospodárstva, rybného hospodárstva a chémie
- Niekol'ko krajín a regiónov prijalo národné alebo regionálne bio-ekonomicke stratégie (napr. Fínsko, Škótsko, Sasko-Anhaltsko, juhozápadné Holandsko).



OBNOVITEĽNÉ ZDROJE: BIOPLASTY

- Európska stratégia pre Plasty v Obehovej ekonomike (2018) podporuje vývoj alternatívnych typov základných materiálov (vrátane náhrady plastov)
- Z nadchádzajúcim zákazom plastov na jedno použitie podiel trhu týchto bioproduktov výrazne narastie
- Prepojené s odpadovou legislatívou EÚ
- napr. smernica o obaloch a odpadoch z obalov uznáva, že biologické a recyklované materiály sú rovnocenné z pohľadu ich udržiavateľnosti



Source: European Bioplastics



OBNOVITEĽNÉ ZDROJE: OPÄTOVNÉ VYUŽITIE VODY

Životné prostredie

- Náhrada pre vyčerpávanie zdrojov
- zmierňuje tlak v rámci vypúšťania ČOV do citlivých oblastí,
- Znižuje potrebu pre chemické hnojivá, poskytujúc živiny pre hnojenie pôdy.

Ekonomické:

- v porovnaní s odsložovaním alebo prenosom vody si opäťovné použitie vody vyžaduje nižšie investície a energiu
- Zvýšená efektívnosť
- podporuje inovácie

Výhody opäťovného použitia ošetrenej odpadovej vody

Klíma:

- prispieva k zníženiu emisií skleníkových plynov

Sociálne:

- Zvýšená spoľahlivosť, nezávislá od sezónnych období sucha, prospiešná pre poľnohospodársku komunitu



ODPAD AKO ZDROJ: RECYKLÁCIA

- Recyklácia je spracovávanie materiálov, považovaných za odpad, s cieľom získať nové materiály rôznej kvality
- Rámcová smernica o odpade v EÚ: 50% cieľ zvoleného materiálu v domácnostiach a podobný odpad aby bol recyklovaný a pripravený pre opäťovné použitie do roku 2020 každou EU MS pre aspoň 4 kategórie (papier, sklo, plast, kovy)



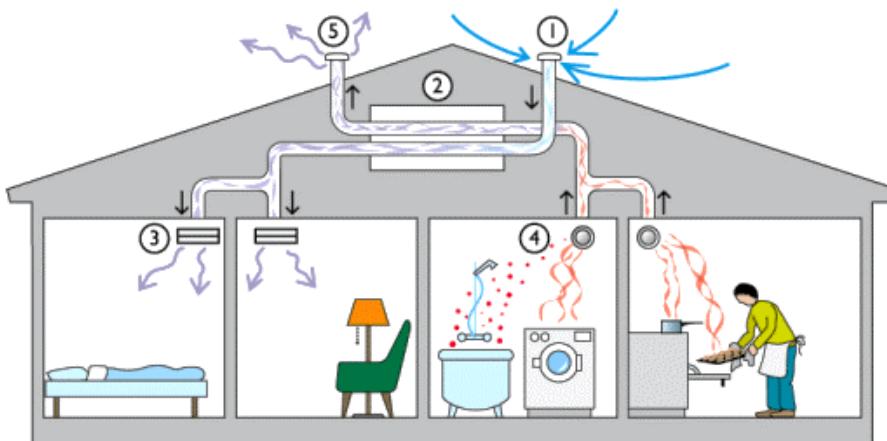
ODPAD AKO ZDROJ: RECYKLÁCIA

- Mestá a regióny môžu spraviť kroky týkajúce sa:
 - Vylepšenia zberu odpadu
 - Rozšírená zodpovednosť výrobcu alebo zmena odpadu na druhotné surové materiály.
 - Rozdelený zber iných typov odpadu.



ODPAD AKO ZDROJ: OBNOVA ODPADOVÉHO TEPLA

- Proces zachytávania tepla z odpadových tokov v rámci existujúcich priemyselných procesov a jeho následného priameho použitia
- Výsledkom je úspora energie a redukcia emisií skleníkových plynov
- Veľké množstvo tepla je vyprodukované v mestských oblastiach z množstva miestnych zdrojov.
- Využitie závislé od:
 - Národné regulačné podmienky týkajúce sa emisií a zníženia emisií, zvýšenia cien energie a energy security considerations;
 - Technologické vylepšenia a inovácie



TAKING COOPERATION FORWARD

ODPAD AKO ZDROJ: UPCYCLING VS. DOWNCYCLING

- **Upcycling** - proces premeny produktov a odpadu na nové materiály alebo produkty vyššej kvality ako originálne alebo lepšej environmentálnej hodnoty.
- v rámci javu **Downcycling** má nový produkt horšie kvalitatívne vlastnosti, nižšiu pridanú hodnotu



PLÁNOVANIE PRE OBEHOVÚ EKONOMIKU



PREMENA NA OBEHOVÚ EKONOMIKU

Založená na miestnom kontexte

Nastavenie politických priorit

Stavebné prvky
obehovej ekonomiky
v lokálnom prostredí

Priaznivé rámcové podmienky /
teritoriálne aktíva

Podpora od miestnych
zainteresovaných strán



KROKY PROCESU



Zhodnotenie lokálneho kontextu a potenciálu

Analýza umožňujúcich a brzdiacích faktorov

Definovanie vízie a priorít

Správa a zainteresované skupiny

TYPICKÉ PREKÁŽKY NA REALIZÁCIU PROCESU

- Nedostatok systematickej vízie;
- Nepriaznivý politický rámec;
- Lobbying/finančné záujmy;
- Organizačné modely s averziou k riziku;
- Praktiky výrobcov a spotrebiteľov



POSÚDENIE MIESTNEHO KONTEXTU A POTENCIÁLU

- Prírodné zdroje a ráz krajiny
- Výkonnosť mesta/regionu z hľadiska produktivity a efektívnosti zdrojov, jeho závislosť na importe zdrojov
- Schopnosti a dynamika firm - expertíza v CE, úroveň eko-inovácií, ich schopnosť nasledovať trendy
- Schopnosti znalostných organizácií (univerzity, výsk. inštitúty, inovačné klaster) - dostupná expertíza v oblasti CE
- Potenciál CE pre rôzne ekonomicke sektry



POSÚDENIE MIESTNEHO KONTEXTU A POTENCIÁLU II.

- Potenciály súvisiace s **aglomeráciou** - existuje dostatočná kritická masa (priemyselná/obyvateľia)
- **Prístupnosť** - úroveň prepojenia medzi aktérmi pre tok produktov/služieb
- Preskúmajte nutnosť **kompromisov** a definujte víťazov a porazených
- **Teritoriálne „milieu“ („klíma“)**- úroveň a kvalita vztahov a interakcie medzi aktérmi
- **Technologické „pasce“** (lock-ins)



ANALÝZA UMOŽŇUJÚCICH A BRZDIACICH FAKTOROV

Typy prekážok a umož.faktor.	Príklady CE prekážok a umožňujúcich faktorov	Čo preto môžu urobiť mestá?
Ekonomické	<p>Podporujúce faktory:</p> <ul style="list-style-type: none"> • Ekonomická úspora • Zvýšenie zisku • Financovanie/investičné zdroje pre podniky alebo iniciatívy CE • nové trhové/biznis príležitosti • lákavé úroveň ziskov za obehotové produkty a služby <p>Prekážky:</p> <ul style="list-style-type: none"> • žiadne alebo limitované návraty z investícií • limitovaný trhové pre recyklované produkty • vysoké ceny pre dovážané alebo surové materiály 	<ul style="list-style-type: none"> • Programy na úrovni mesta/regiónu by mohli pokračovať vo vzdelávaní spoločnosti rôznymi spôsobmi • Pracovať s hospodárskymi inštitútmi a EU programami na vytvorenie väčšieho rozpočtu pre CE iniciatívy • Môžu urobiť málo alebo nič
Regulačné	<p>Podporujúce faktory:</p> <ul style="list-style-type: none"> • Vysoké ceny pre odpad/vysoké dane pre skládky odpadu • Daňové výhody pre zelené aktivity • Ceny, dane pre škodlivé aktivity <p>Prekážky:</p> <ul style="list-style-type: none"> • Dotácie na tradičné znečistujúce/neefektívne činnosti (napr. náklady na uhlie, vodu a energiu) • Žiadny zákaz špecifických produktov (napr. jednorazový plast) 	<ul style="list-style-type: none"> • Postupne zvyšovať náklady na skládku odpadu na nasmerovanie odpadu zo skládky a sprísnenie • Ekologické činnosti by mohli byť oslobodené od miestnych daní

ANALÝZA UMOŽŇUJÚCICH A BRZDIACICH FAKTOROV

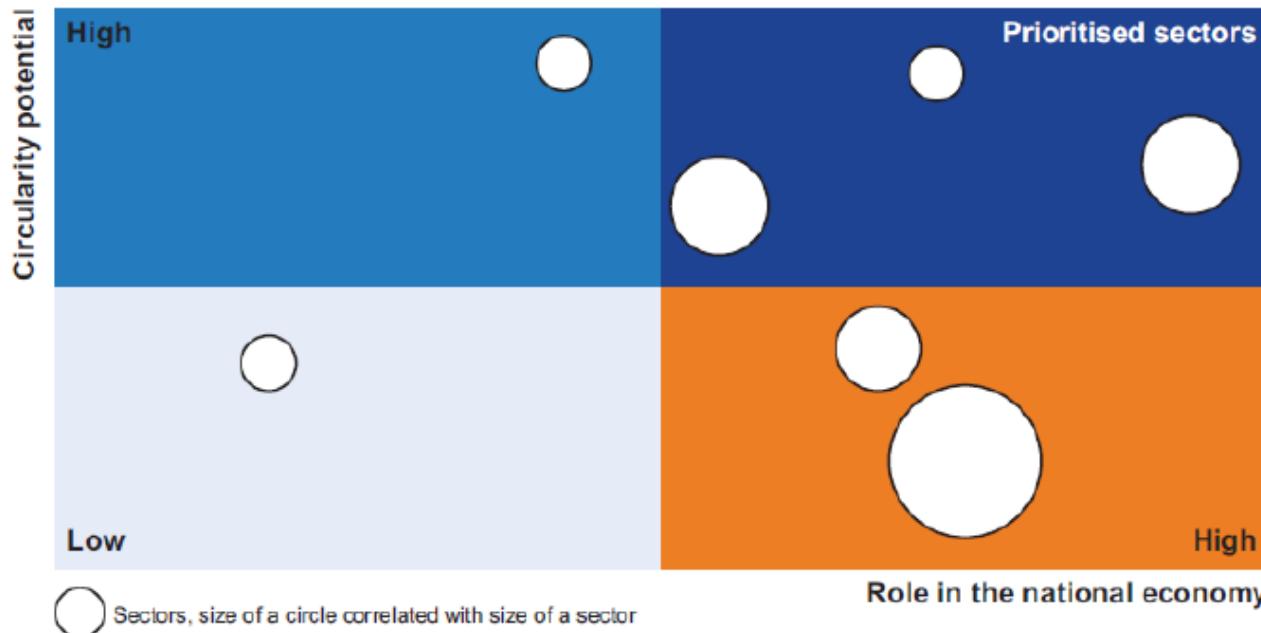
Typy prekážok a umož.faktor.	Príklady CE prekážok a umožnujúcich faktorov	Čo preto môžu urobiť mestá?
Správanie/ socio- kultúrne	<ul style="list-style-type: none">CSR kultúra a vedenie v spoločnostiachPovedomie pre užívateľovÚroveň podnikateľskej kultúry	<ul style="list-style-type: none">Vývoj podporných programov pre udržatelné podnikanieVytvoriť programy pre vytvorenie povedomiaZnižiť riziko určitých snáh obehovej ekonomiky
Techno- logické vedomosti	<ul style="list-style-type: none">Kvalifikovaný zamestnanci, miestny expertiR&I schopnosti vo firmách a na univerzitáchVýskum, testovanie, pilotná infraštruktúra	<ul style="list-style-type: none">Vytvoriť edukačné programyVytvoriť partnerstvá s (miestnymi) univerzitami



- Po identifikácii silných sektorov a bariér/podporných faktorov
- Potrebné zhodnotiť a nájsť vhodnú kombináciu
 - Ekonomických sektorov (RIS3 + potenciál pre CE)
 - Obehových biznis modelov
- **Dalšie faktory pre výber intervenčných oblastí**
 - Výskyt konkrétneho enviromentálneho problému
 - Prípadne aj dostupnosť údajov v sektore/k problematike



URČENIE VÍZIE A PRIORÍT



Source: Ellen MacArthur Foundation, 2016, Toolkit for policy makers



Fázy správneho riadenia pri prechode do obehovej ekonomiky

Kto sú kľúčové zainteresované strany pre spoluprácu a prečo?

Ako možno zainteresované strany zmobilizovať do obehovej ekonomiky? Čo je v nej pre nich?

Ako možno čo najlepšie zorganizovať spoluprácu a efektívnu implementáciu?



RIADENIE A ZAINTERESOVANÉ STRANY (2)

Úloha zainteresovaných strán v obehovej ekonomike

Zainteresované strany	Úloha v obehovej ekonomike
Miestni šampióni	Vyslanci dobrej vôle Komunitní mobilizéři
Spojenci vo verejnom sektore	Kľúčoví implementační partneri Vylepšiť podmienky
Reprezentanti sektorov	Vysoký vplyv na ekonomiku a prostredie Z hlavných sektorov pre prechod na CE
Eko-priemysel	Zarábať na ich infraštruktúre Posilnená úloha v propagácii
Podnikatelia	Priami príjemcovia stratégie Je možné ich aktivovať pre obehovú ekonomiku
Štruktúra podpory podnikania	Kľúčoví spojenci pre podporu obehového hospodárstva Poskytovatelia služieb pre miestnych podnikateľov
Poskytovatelia VaV vedomostí	Generovanie vedomostí pre potreby miestnej CE Analýzy a poradenstvo
Vychovávatelia	Vyučovanie princípov obehovej ekonomiky Mobilizácia mladých a celoživotných študentov
Investori	Mobilizácia financovanie pre CE Vyvinúť nové modely financovania
Radoví účastníci	Demonštrácia výhod obyvateľom Dosah na všetkých obyvateľov



Ing. František Janke, PhD.
Technická univerzita v Košiciach
CITYCIRCLE



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www.interreg-central.eu/citycircle



<https://www.facebook.com/CitycircleInterregCentral/>



ATTENDANCE LIST

CE1515 CITYCIRCLE

Event Name: Joint training for stakeholders groups - part II.

Location: Košice

Date: February 12th, 2020

No.	Name and Surname	Organisation	E-mail	Signature
1.	Franťošek Janke	TUKE	frantisek.janke@tuke.sk	
2.	Mária Mátlová	Košické správno-technické tělesa, m. vlastného vývoje, s.r.o.	mariamatalova@kst.kosice.sk	
3.	Darina Kacsoš	ECTC via Carpathia	darina.kacsoš@tuke.sk	
4.	Petra Schöglmaier	ECTC via Carpathia	petra.schöglmaier@tuke.sk	
5.	Júlia Anna Orban	MACARATA ECR	julianna.orban@macarata.sk	
6.	Róbert Táka	TUKE	róbert.taka@tuke.sk	

Consent to the Processing of Personal Data

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No.	Name and Surname	Organisation	E-mail	Signature
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Consent to the Processing of Personal Data

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Please note that you will be attending an event where photographs and/or audio-visual footage may be taken. By attending this event, you freely provide your agreement that you accept to be photographed, filmed or recorded. You also agree that the above-mentioned photos and video or sound recordings may be used, reproduced, distributed and communicated to the public for any other purposes by the Interreg CENTRAL EUROPE Programme on websites or other information tools, such as social media or electronic or printed publications.



MESTNA OBČINA KRANJ

Slovenski trg 1, 4000 Kranj



V Mestni občini Kranj se zavedamo nevarnosti ekonomskih sprememb in vplivov, ki jih imajo na okolje v našem prostoru, zato z novim projektom CITYCIRCLE sledimo trendu krožnega gospodarstva.

Glavni cilj projekta je vzpostavitev podpornega okolja za krepitev krožnega gospodarstva, s katerimi bi lahko izkoristili tudi potencial poslovnih lokacij, zato vas vabimo na predstavitveno delavnico

RAZVOJ KROŽNEGA GOSPODARSTVA V KRANJU,
ki bo 16. januarja 2020 ob 13. uri
v prostorih Mestne Občine Kranj (pritličje, sejna soba 9), Slovenski trg 1, Kranj.

Na delavnico vabimo predstavnike iz gospodarstva, lokalnih agencij in zavodov, Občine ter zainteresirano javnost, da bi spoznali stališča in poiskali smer za razvoj krožnega gospodarstva v Kranju.

Program:

1. Pozdravni nagovor predstavnika Mestne občine Kranj
2. Uvod v sistem krožnega gospodarstva – Matjaž Gerl, eZavod
3. Primeri dobrih praks – Igor Kos, projekt Wcycle v Mestni občini Maribor
4. Predstavitev ciljev Citycircle projekta s poudarkom aktivnosti v Kranju
5. Diskusija o potencialih/ izzivih/ rešitvah/ partnerstvih na področju krožnega gospodarstva v Kranju
6. Zaključki in nadaljnje aktivnosti

V želji, da bi se dogodka zagotovo udeležili, vas prosimo za potrditev udeležbe na aleksandra.azman@kranj.si, kjer dobite tudi vse dodatne informacije.

Prijazno vabljeni.

Pripravila:

Aleksandra Ažman



Opomba: Organizator dogodka si pridržuje pravice do spremembe programa in govorcev.



LISTA PRISOTNOSTI

Delavnica RAZVOJ KROŽNEGA GOSPODARSTVA V KRANJU

v prostorih Mestne občine Kranj, dne 16. 1. 2020 ob 13.00

Zap. št.	Ime in Priimek	Organizacija	Podpis
1.	AHAČIČ PREMRL MARIJA	MOK	
2.	AŽMAN ALEKSANDRA	MOK	
3.	BALANTIČ BRANKA	VŠŠ ŠC KRANJ	
4.	BENEDIK JANEZ	GOODYEAR DUNLOP SAVA TIRES D.O.O.	
5.	BERČON MATJAŽ	KOMUNALA KRANJ D.O.O.	
6.	BIBIČ IDA	MOK	
7.	ČEHOVIN MARKO	MOK	
8.	DIJAK SIMONA	GOODYEAR DUNLOP SAVA TIRES D.O.O.	
9.	GERL MATJAŽ	EZAVOD	
10.	JARC KOVAC BRANKA	VŠŠ ŠC KRANJ	
11.	JUSTIN NIVES	BSC, D.O.O., KRANJ	
12.	KAVDIK UROŠ	MOK	
13.	KOPRIVNIKAR BORIS		
14.	KURNIK ČRTOMIR	LEAG	
15.	MARGETIČ ANA	ISKRATEL, D.O.O., KRANJ	
16.	POGAČNIK ANTON	LEAG	
17.	ROZMAN BOR	MOK	
18.	TALLARINI MIHA	KOMUNALA KRANJ D.O.O.	
19.	TAYLOR NINA	EZAVOD	

20.	TOMAZIN VIKTOR	ISKRATEL, D.O.O., KRANJ	<i>Viktor</i>
21.	TOMŠE GREGOR	FUNDACIJA VINCENCA DRAKSLERJA	<i>Gregor</i>
22.	VIZOVIŠEK ANA	MOK	
23.	ZIHERL JANEZ	MOK	<i>Janez</i>
24.	ANKA KALAN	SC FUD Kranj	<i>Anka Kolan</i>
25.	IGOR KOS		
26.	Kosarček L.	OZ Krone	<i>Kosarček L.</i>
27.	Zoran Danilo	OZ Kravji	<i>Zoran Danilo</i>
28.	IGOR KOS	IWN	<i>Igor Kos</i>
29.	EVA ROMIH	MOK	<i>Eva Romih</i>
30.	MIRNA ŠUSTAR G.	MOK	<i>Šustar G.</i>
31.			
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Project presentation meeting - Udine

Date: 11/12/2019

Place: Palazzo d'Aronco, Via Nicolò Lionello, 1, 33100 Udine UD

Number of participants: 21

Number of firms/organization (excluding project partners): 11

Firms/organization:

A&T2000 SPA

Agrifood FVG - Parco Agroalimentare FVG

Animaimpresa

Cafc SPA

C.D.A. di Cattelan S.r.l.

Comet S.c.r.l.

Cluster Legno Arredo Casa

Comune di Pordenone

Federconsumatori FVG

NET SPA

Università degli Studi di Udine

Agenda of the Meeting:

10.00 – 10.30: Presentation of the CITYCIRCLE project

10.30 – 11.30: Presentation of the concepts of circular economy

11.30 – 12.00: Questions and organization of next meetings

Description of the meeting:

The meeting was organized by APE – Agenzia per l’Energia del Friuli Venezia Giulia and the Municipality of Udine with the aim of presenting the CITYCIRCLE project to potential stakeholders (the only entity absent was the Friuli Venezia Giulia Region, for previous commitments). The participants were initially offered an overview of the project in question, describing its objectives and providing them with information about the planned program. Later, using the material present in the project starter kit, the concept of circular economy was illustrated to stakeholders, deepening some themes such as industrial symbiosis and by-products. After the space dedicated to the questions, it was explained to them that in the following months 2 workshops and 2 specific trainings on circular economy topics should take place. It was decided to include the trainings in the workshops program.



ATTENDANCE LIST

CE1515 CITYCIRCLE

Event Name: Stakeholder meeting 1

Location: Udine - ITALY

Date: 11.12.2019

No.	Name and surname	Organisation	E-mail	Signature
1.	MATTEO MARRONI	APE FVG	matteo.marroni@ape.fvg.it	
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3.	STEFANO TREU	APE FVG	stefano.treu@ape.fvg.it	
4.	MARCONISSIO FEDERCONSUMATORI	FEDERCONSUMATORI FVG - Federconsumatori fvg.it	mario.marconissio@federconsumatori-fvg.it	
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6.	PIERPAOLO ROVERE	Agri Food FVG	rovere@agrifoodfvg.it	
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8.	CAIRO PIEMONTE	CLUSTER ARI	giacomo.cairo@clusterari.com	

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18.	RICCARDO ZANAU	CUSTODER COMET	RICCARDO.ZANAU@CUSTODER.COMET.IT	
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Informativa privacy

Firmando, fornite il vostro consenso all'utilizzo dei vostri dati personali da parte di APE FVG quale partner del progetto CITYCIRCLE al fine di perseguire gli obiettivi del progetto stesso, in accordo con la Direttiva (UE) 2016/680 del Parlamento europeo e del Consiglio del 27 aprile 2016 (General Data Protection Regulation, GDPR), relativa alla protezione delle persone fisiche con riguardo al trattamento dei dati personali e sulla libera circolazione di questi, che abroga la Direttiva 95/46/CE. L'informativa relativa al trattamento dati è allegata al presente documento e disponibile sul sito web di APE FVG <http://www.ape.fvg.it/privacy/>

VARAŽDIN MEETING INFORMATION (15.11.2019.)

Version 1
11 2020





Project presentation meeting - Varaždin

Date: 15.11.2019

Place: Gradska vijećnica, Trg kralja Tomislava, 1, 42000 Varaždin

Number of participants: 32

Number of firms/organization (excluding project partners): 17

Firms/organization:

CKOIE

CROTEH

Čistoća d.o.o.

Grad Ludbeg

Gradska tržnica

Gredica

GUMIIMPEX GRP

Humana Nova

LIPA d.o.o.

Lokvina d.o.o.

MNEA d.o.o.

OPG Vrček

REDEA

Solvis d.o.o.

Stolarija i pilana Ratković d.o.o.

Varaždinska županija

VARKOM d.d.

Agenda of the Meeting:

10:00-10:15	Registration of participants
10:15 - 10:30	Welcome speech and introduction <ul style="list-style-type: none"> • City of Varaždin, deputy mayor Zlatan Avar • Razvojna agencija Sjever - DAN d.o.o. Chairman of the Board dr.sc. Miljenko Ernoic
10: 30 - 11:30	Circular economy - chances and possibilities for development of circular economy in City of Varaždin and northwestern Croatia - gathering initial inputs for Circular economy strategy <ul style="list-style-type: none"> • Croteh d.o.o. - prof. dr. sc. Gregor D.Zupancic, dipl. ing
11:30 ·12:30	Discussion

Description of the meeting:

The meeting was organized by DAN - Development Agency North and the City of Varaždin with the aim of presenting the CITYCIRCLE project to potential stakeholders. The participants were initially offered an overview of the project in question, describing its



objectives and providing them with information about the planned program. Stakeholders had a chance to present themselves and share their vision on circular economy and their potential involvement in CITYCIRCLE project. Later, using the material present in the project starter kit, the concept of circular economy was illustrated to stakeholders, deepening some themes such as industrial symbiosis and by-products.

This information will serve as basis for defining key steps in set up of a system of management of by-products and waste of stakeholders in a way to make it favourable for them in accordance with circular economy principles. Gathered information will also, with consent from participants, be used to make a database (kind of stock market for waste and by-products) to help set up cross border cooperation as well. This information will help define possible value chains that will be put into the strategy. During strategy completion there will be two workshops held where possible value chains will be considered. If necessary individual mentored meetings will be held. The strategy will include NGOs as well as stakeholders from the education sector with the goal to disseminate results of the project to the public and citizens. Some stakeholders have already expressed their will to participate and it is estimated that the biggest potential for cooperation exists in the field of organic and slaughter waste as well as textile and wooden waste. Local and regional authorities have also expressed preparedness to participate in positive promotion of the strategy.





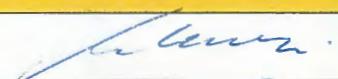
POTPISNA LISTA

CE1515 CITYCIRCLE

Naziv događanja: Sastanak radne skupine za izradu Strategije kružnog gospodarstva

Lokacija: Varaždin, Hrvatska

Datum: 15.11.2019

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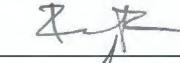
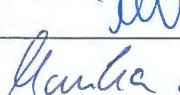
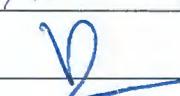
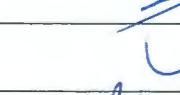
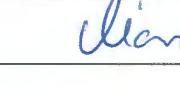
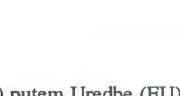
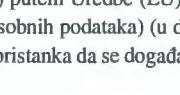
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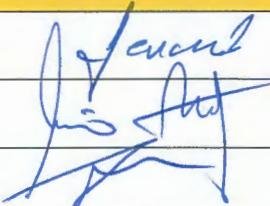
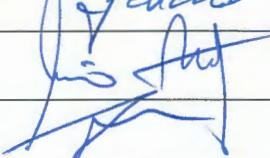
POTPISNA LISTA

CE1515 CITYCIRCLE

Naziv događanja: Sastanak radne skupine za izradu Strategije kružnog gospodarstva

Lokacija: Varaždin, Hrvatska

Datum: 28.11.2019

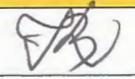
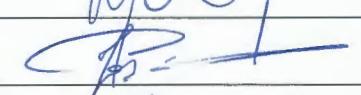
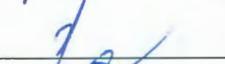
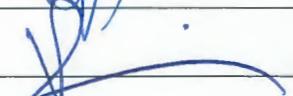
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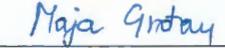
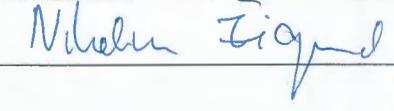
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28.				

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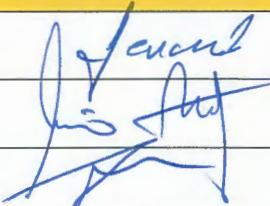
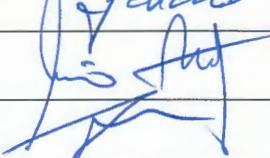
POTPISNA LISTA

CE1515 CITYCIRCLE

Naziv događanja: Sastanak radne skupine za izradu Strategije kružnog gospodarstva

Lokacija: Varaždin, Hrvatska

Datum: 28.11.2019

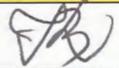
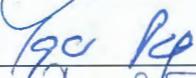
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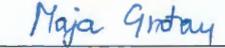
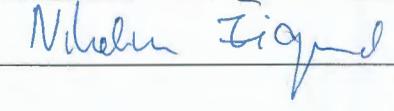
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