



# CIRCULAR



## Follower Webinar with ICLEI

7<sup>th</sup> of December, 2023 | 14:00 – 15:30 (CET)

Procurers



Supported by



This project has received funding from the European Union's Horizon Europe under Grant Agreement n° 101092208.



## Technical: Questions, slides etc.

### All information will be shared

#### DURING EVENT

### Video, microphone, recording



- ▶ Video and mics are open for participants
- ▶ Please unmute yourself and turn on video when speaking
- ▶ This meeting **is not recorded**, only presentation will be made public

### Questions



- ▶ Ask anytime in chat
  - We try to pick up on questions during presentation to degree possible
  - If we do not, there is a very good chance your question will be answered on slides
- ▶ Q&A will be live following questions in chat and asked live
- ▶ Critical / new questions are added to FAQ on website

#### AFTER EVENT

### Presentation

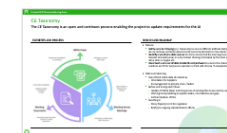


- ▶ Slides will be shared on website: <https://circulardsp.eu/follower-network/>
  - All registered are notified via mail

### Staying informed



- ▶ **Interested Cities, organisations and other Procurers** can participate in the CE Taxonomy Working Group
- ▶ **Interested Cities, organisations and other Procurers** who are not part of our Network can become Followers
- ▶ **All** are invited to the newsletter and social media channels





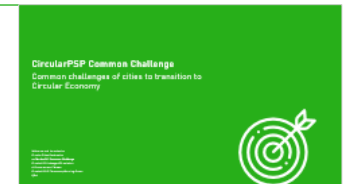
# Objectives

**Above all: marking the starting point for collaboration on a common CE-solution to transition city operation**

**To understand the Circular Cities Declaration**



**To discuss common challenges of cities to transition to CE**



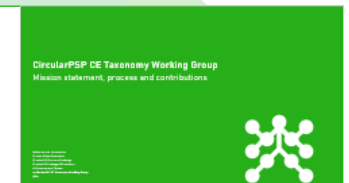
**To share the envisaged city-wide CircularPSP CE-solution**



**To provide gained insights regarding the AI Procurement Clauses**



**To invite for the CE Taxonomy Working Group**

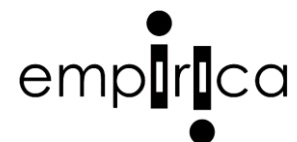




# Presenters



**Georg Vogt**  
Head of ICT  
Innovation Energy



**Leslie Petitjean**  
Senior Expert in  
Circular Economy





# Consortium

## Procurers



## Supported by



# Followers

## Individual Cities & Regions



## City Collectives & other CE-initiatives







**CIRCULARCITIES  
DECLARATION**

**CircularPSP Follower Webinar with ICLEI**  
7th of December

# What is the Declaration?

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The **European Circular City Declaration (CCD)** is a commitment document which local and regional governments across Europe can sign to help **accelerate the transition from a linear to a circular economy** in Europe.

Developed and managed by a broad group of **Support Partners**

[Download the Declaration](#)



# Signatories (80)

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## ALBANIA

[Tirana](#)

## BELGIUM

[Bruges](#)

[Ghent](#)

[Leuven](#)

[Liège](#)

[Mechelen](#)

[Roeselare](#)

[Temse](#)

## BULGARIA

[Burgas](#)

## CZECHIA

[Prague](#)

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## FRANCE

[Est Ensemble Grand Paris](#)

[Greater Paris Metropolis](#)

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## GERMANY

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[Berlin](#)

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[Albergaria-a-Velha](#)

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[Évora](#)

[Guimarães](#)

[Loures](#)

[Mangualde](#)

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[Mealhada](#)

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[Porto](#)

[Torres Vedras](#)

[Valongo](#)

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# Signatories Map



# Declaration goals

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- Allow local and regional governments across Europe to **communicate their commitment** to supporting the circular transition
- Provide a **shared vision** of what a “circular city” is
- Underline the **critical role which local and regional governments need to play** in making this transition happen
- Establish a **community of committed organisations** to share their experiences, challenges and successes

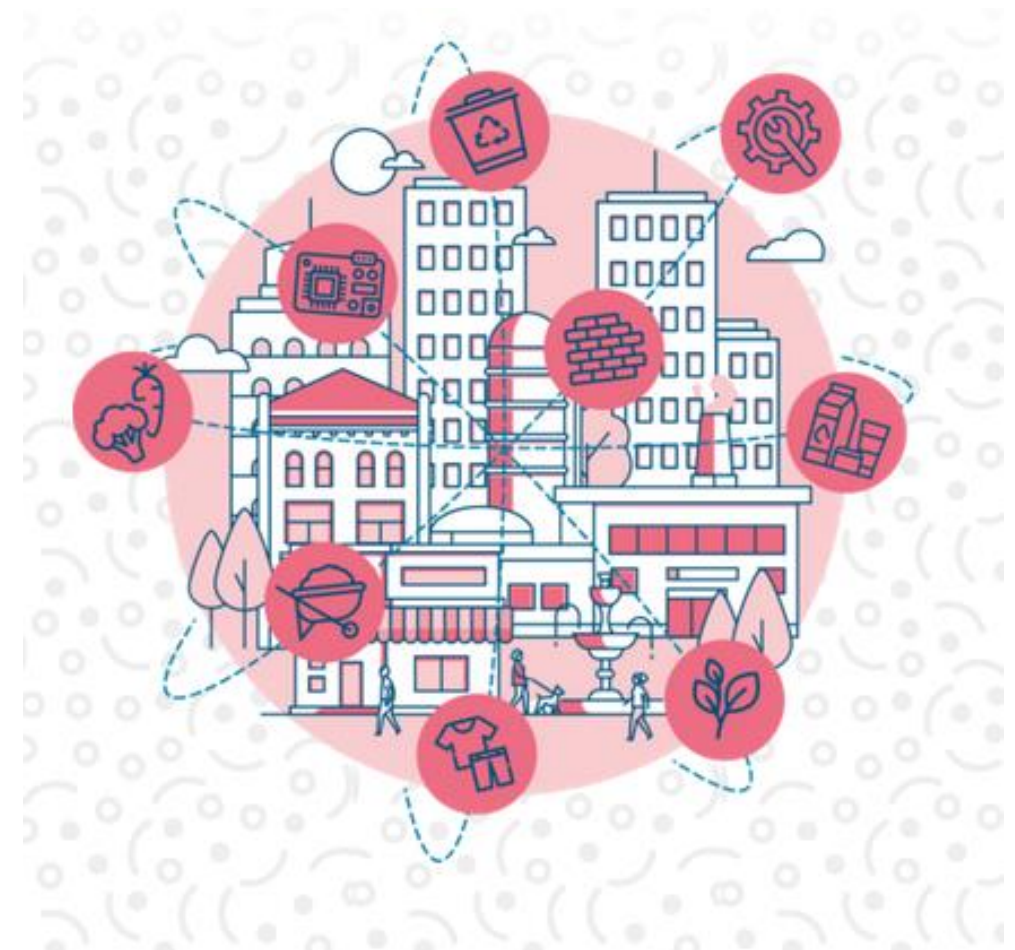




# What do we do?

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- Quarterly CCD Signatories **Webinar Series**
- 3 monthly **CCD Newsletter** with the latest from Signatories and the wider European CE ecosystem
- **Website:** Presentation of signatories activities through profiling and news stories
- Sharing of **events and collaboration opportunities**
- **Bilateral exchange** through shared contacts
- **Annual reporting:** light touch - collection and presentation of information on Signatories' activities and progress



# CCD Report 2022

**Widest assessment** of **circular economy practices** of **European cities** to date

- Published in **February 2023**
- With support from the **Ellen MacArthur Foundation**
- **40 cities** have reported on their **circular activities**
  - Strategies, plans and roadmaps
  - Projects, initiatives, and events

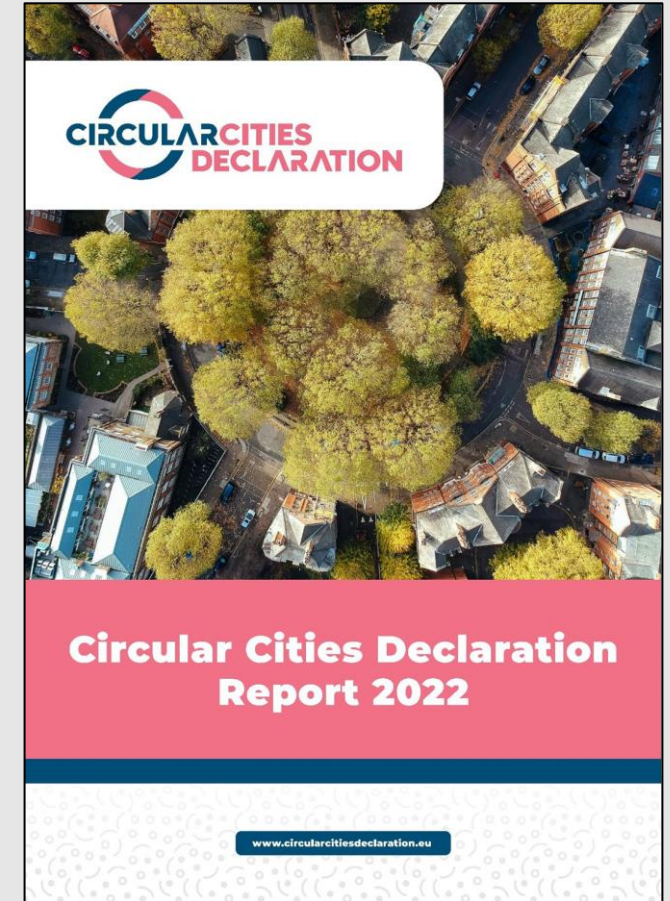
FINDINGS

**8** MAIN TRENDS

ON CIRCULAR ECONOMY IN CITIES

**4** MAIN BARRIERS

ON THE PATH TOWARDS CIRCULARITY





# CCD Report 2022: findings

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## 8 main trends on Circular Economy in Cities

-  1 A growing number of **circular initiatives** are set up at the **European level to support cities**.
-  2 Cities are adopting **circular strategies and roadmaps** to steer the circular transition.
-  3 Cities are investing in **circular infrastructure** to **close material loops**.
-  4 Cities are using **public procurement** to reduce their environmental footprint and enable the circular economy.
-  5 Cities are setting up **innovation programmes** and carrying out **innovation projects** to unlock the circular transition.
-  6 Cities are **raising awareness and empowering citizens** to distil a shared sense of ownership.
-  7 Cities are pushing for **more circularity in construction**.
-  8 Cities are making **local food systems more regenerative**.

# CCD Report 2022: findings

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## 4 barriers to tackle on the path towards circularity

-  1 Overcoming **capacity** and **resource limitations**.
-  2 Securing **political support** and **breaking down silos**.
-  3 **Measuring circularity**: from data collection to monitoring frameworks.
-  4 Shifting the paradigm: **Thinking circular in a linear system**.

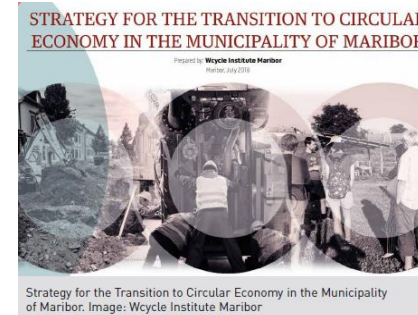


# City Examples

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## MARIBOR – Setting the direction

Strategy for the transition to the circular economy established in 2018 – updated 2021



## BUDAPEST – Community composting

Community composting points set up in 5 city districts, within the HungAIRy project



## HAARLEM – Circular procurement

Targets: 50% circular procurement by 2025, 100% by 2030



Source: *Circular Cities Declaration Report 2022*

# City Examples

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**COPENHAGEN – Innovation platform**  
Circular Copenhagen Innovation Platform fosters collaboration between innovative companies and knowledge institutions



**GHENT – Repair cafés**  
Gent Repareert programme of repair cafes, established in partnership with the local waste company



**WILTZ – Circular school campus**  
Maximised use of circular materials, designed for flexibility, reuse of rainwater and renewable energy



Source: *Circular Cities Declaration Report 2022*



# Benefits of signing

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- **Political momentum** – signing the Declaration helps galvanise focus amongst policy makers and stakeholders – e.g. Prague Circular Strategy 2030, Circular Turku Roadmap
- **Inspiration** – webinars on key issues identified by signatories. Good practice presentations & capacity building sessions from experts. Topics covered in 2021:
  - Developing local circular economy strategies (Maribor)
  - Circular food systems and biowaste (Porto)
  - Citizen engagement & behavioural change (Leuven, Turku, Loures, Ljubljana)
  - Urban metabolism as a planning tool (London, Porto, Prague)
- **Profiling** – presentation opportunities (e.g. COP, Circular Economy Stakeholder Conference), annual CCD report, newsletter, webpage
- **Contacts** – Expert support partners; inspiring city and regional administrations



# Thank you!

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Connect with us:

[info@circularcitiesdeclaration.eu](mailto:info@circularcitiesdeclaration.eu)

[www.circularcitiesdeclaration.eu](http://www.circularcitiesdeclaration.eu)

[#CircularCitiesDeclaration](https://twitter.com/CircularCitiesDeclaration)

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Circular Economy Senior Expert

ICLEI – Local Governments for Sustainability

Email: [leslie.petitjean@iclei.org](mailto:leslie.petitjean@iclei.org)

# CircularPSP Common Challenge

Common challenges of cities to transition to  
Circular Economy

Welcome and Introduction

Circular Cities Declaration

>>**CircularPSP Common Challenge**

CircularPSP Envisaged CE-solution

AI Procurement Clauses

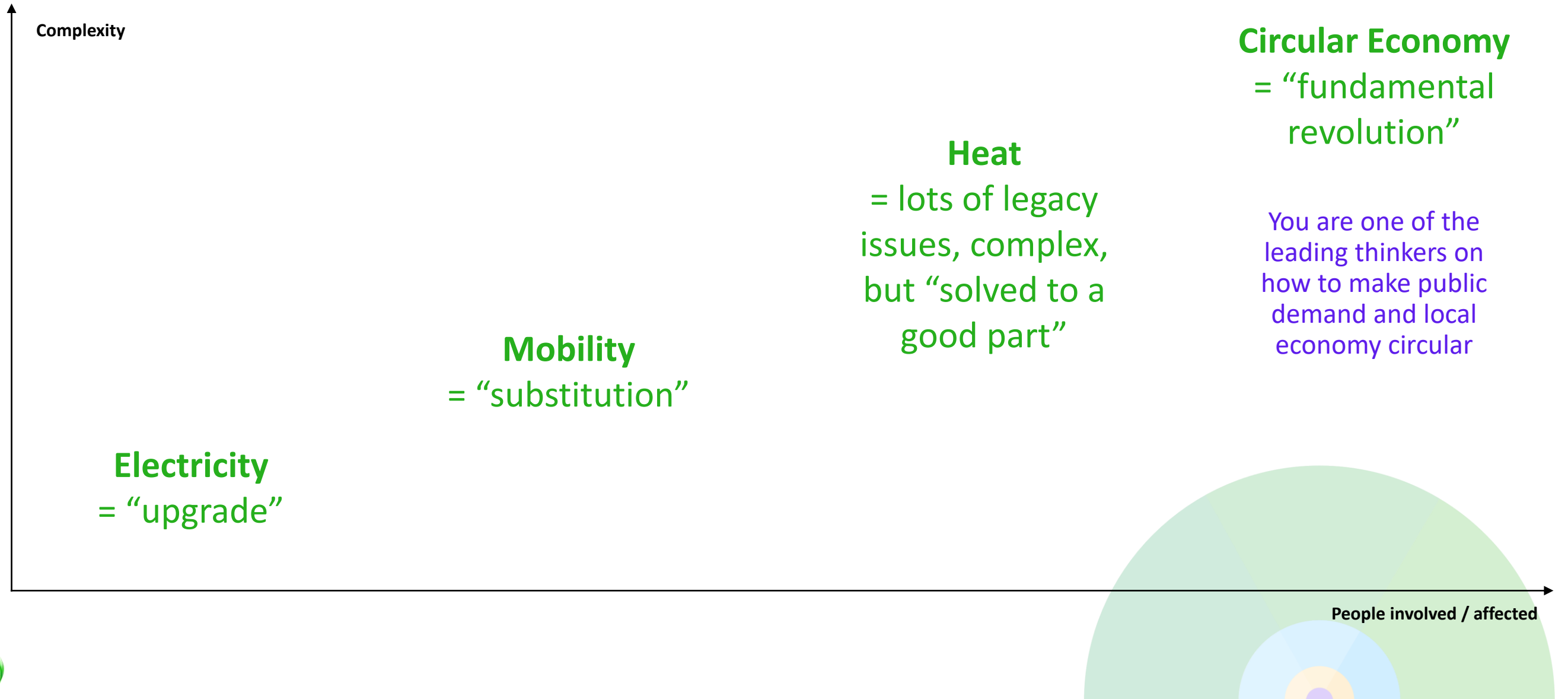
CircularPSP CE Taxonomy Working Group

Q&A



# Sustainability transitions mapped

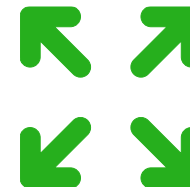
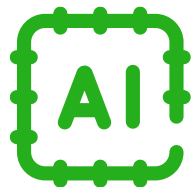
## CE is the most challenging transition





## The problems and needs to transition to CE

Cities face a complex problem across four interlinked areas, each with its own needs



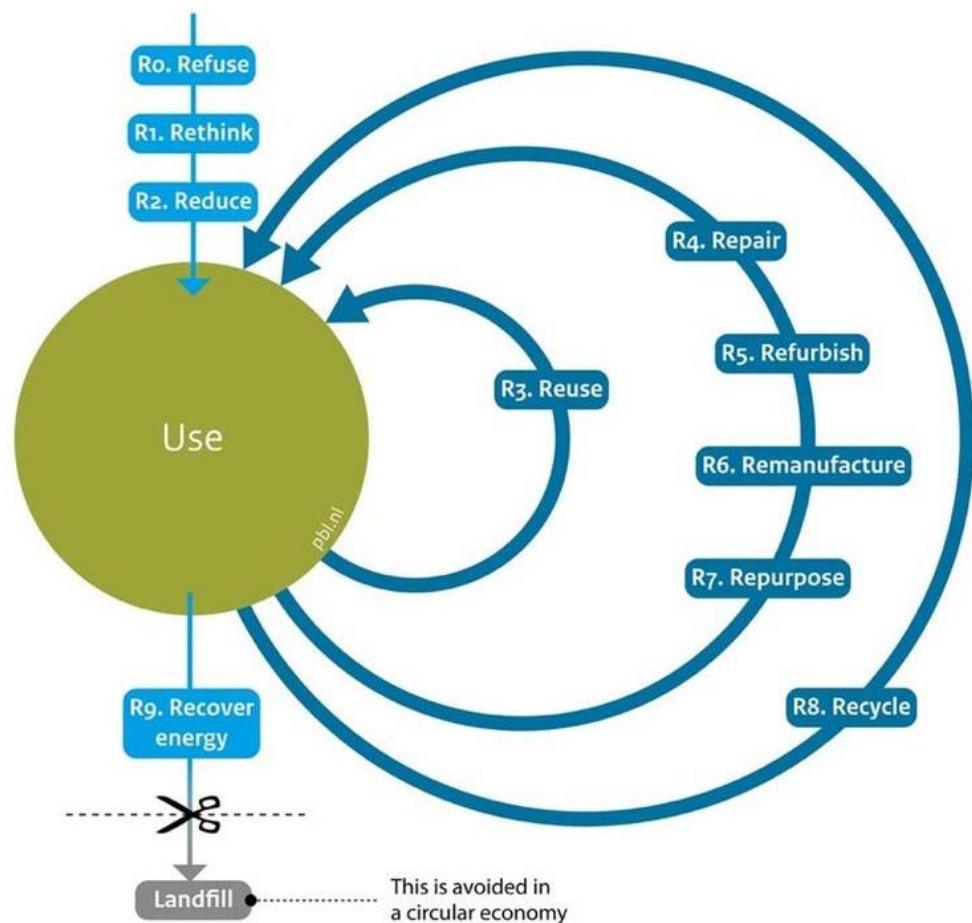
<b>Problem</b>	No access to CE knowledge	No routine in acting circular	No capacity for a CE transition	Linear mindset
<b>Area</b>	Information	Operation	Organisation	Change & Upskilling
<b>Needs</b>	Access to and understanding of CE knowledge	Making circular workable on city-level and day-to-day	One location for information, people and tracking	Customised capacity-building and training

**IDEA** A platform underpinned by AI using taxonomies and NLP to support cities, civil servants and local business

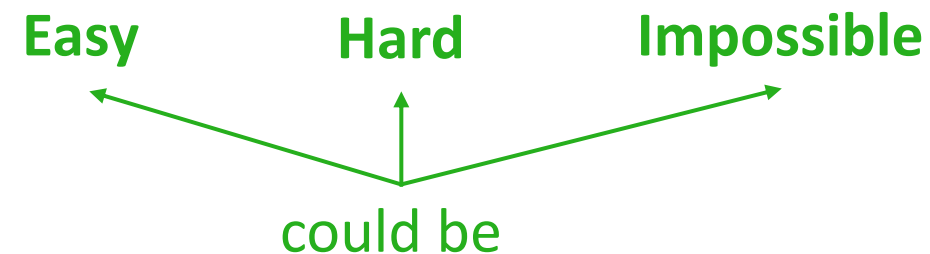
# Circular Economy

Through circularity we want to utilise as few items as long as possible ... to stay within a loop or “fall” as few loops as possible

THE SHORTER THE PATH THE BETTER = CLOSER TO ORIGINAL PURPOSE



HOWEVER...IT IS COMPLICATED



this depends on

Value chain / Case

City strategy

User commitment

City data

User expertise

Local companies

**MINDSHIFT** I could procure less or use “services”

**MINDSHIFT** I need to consider more. Who helps me?

# CircularPSP Envisaged CE-solution

Main needs and requirements of the  
CircularPSP project

Welcome and Introduction

Circular Cities Declaration

CircularPSP Common Challenge

>>**CircularPSP Envisaged CE-solution**

AI Procurement Clauses

CircularPSP CE Taxonomy Working Group

Q&A



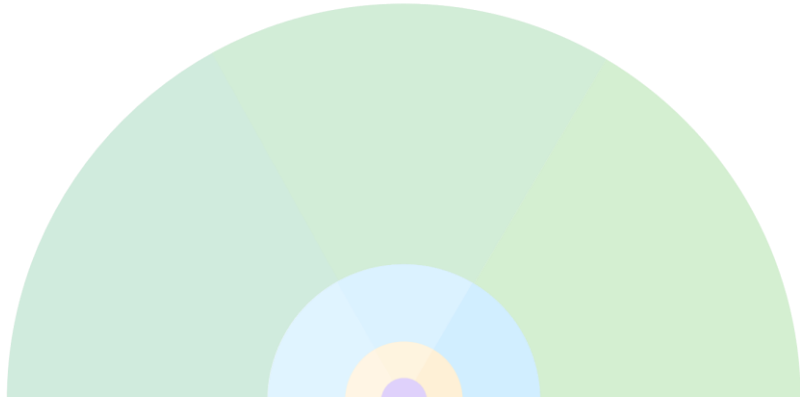


### 3 User Groups

Our users are local but all local users are facing similar challenges

PRELIMINARY

	CE EXPERTISE	USER GROUP DESCRIPTION
1	<b>Experts</b>	<b>Intermediaries</b> are individuals with systemic expertise and responsibility for circular economy across the organisation and who build capacity within departments.
2	<b>Varying levels</b>	<b>Any municipal staff</b> who would advance circular economy in the own department or across the entire city
3		<b>Any local business</b> to deploy and supply the local circular economy. Users of the market platform, bidders to local procurements.

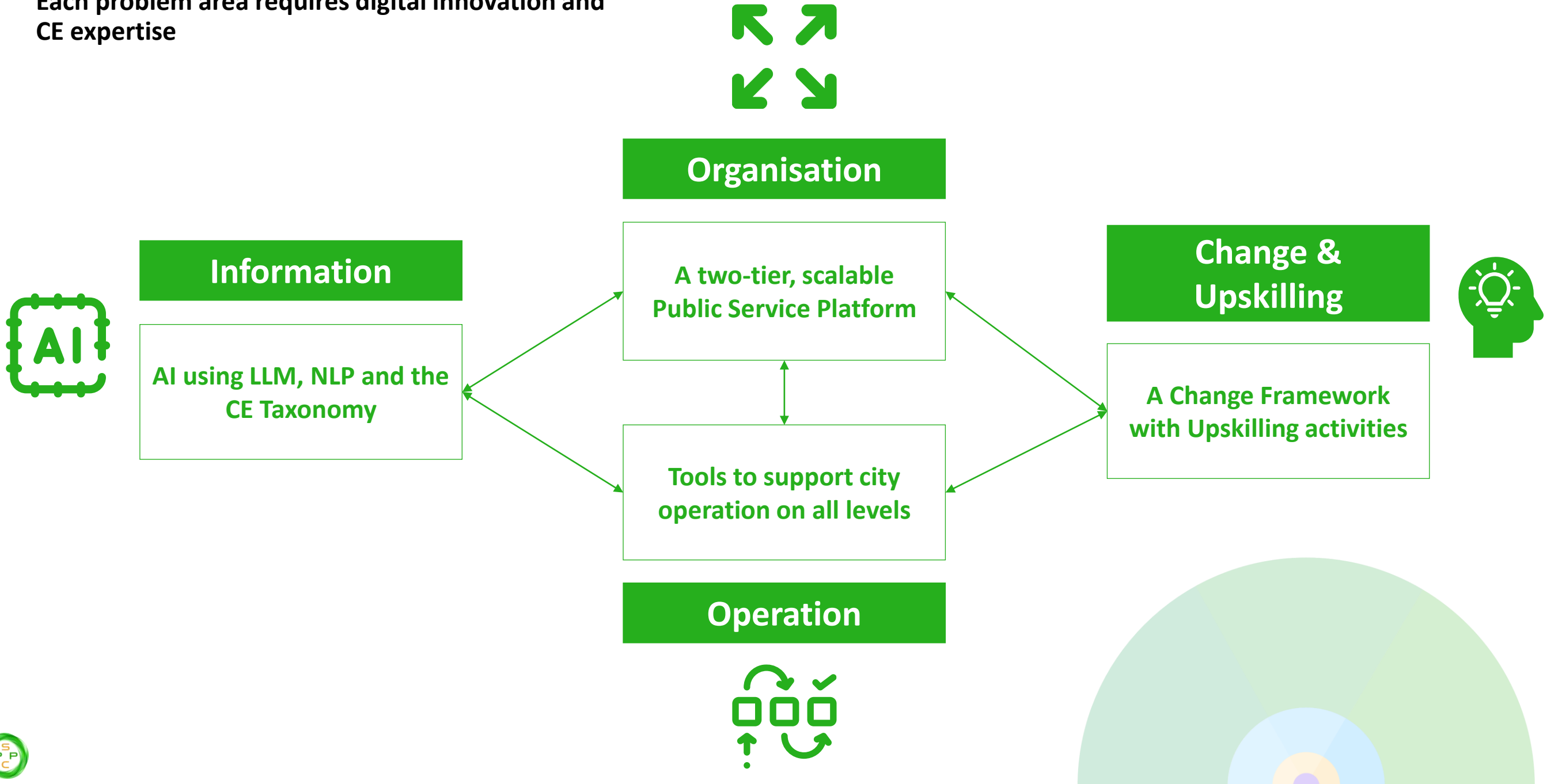






# Desired Innovations

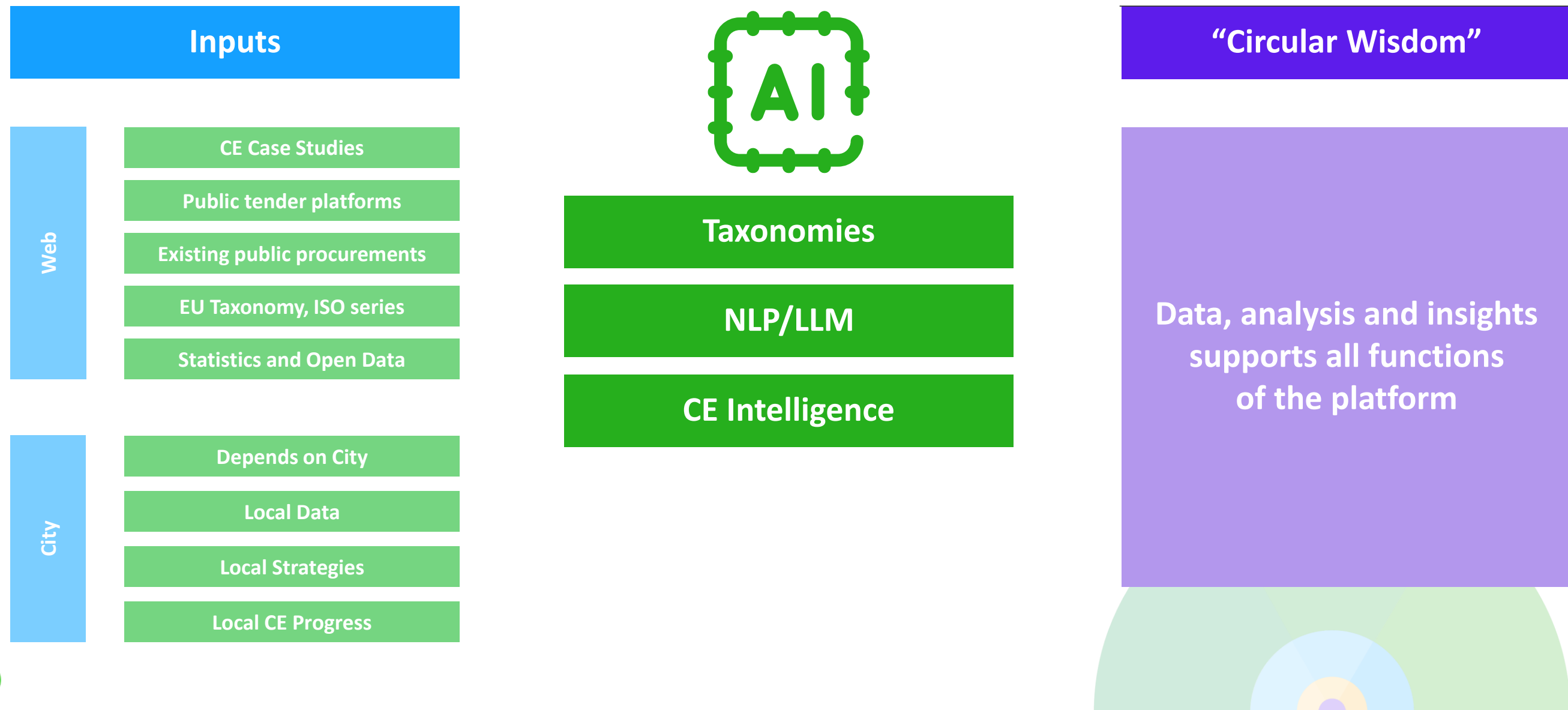
Each problem area requires digital innovation and CE expertise





# Information: Data Analytics with AI

AI uses inputs from the Web and City to generate operational outputs





# Operation

The CE Mission gives focus and Workflows enable all users to act circular

## CE MISSION

**A “plan” for the next 4-8 years**

**Tailored to your (!) city**

**Based on existing strategies, local industry, available resources etc.**

**Developed between supplier, intermediaries and core stakeholders**

**Display milestones for all relevant departments**

## CE WORKFLOWS

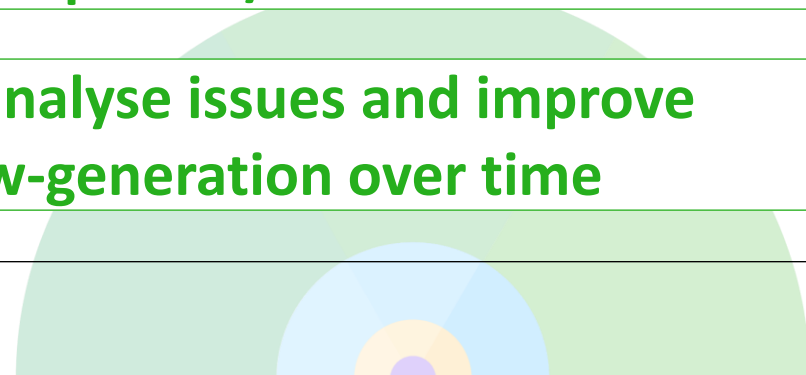
**A set of steps for a specific task**

**Each step is a well-designed ‘module’ (i.e. checklist, interview, something to read)**

**The series of steps is assembled by AI based on experience of user**

**Intermediaries see workflows and can help staff / workers**

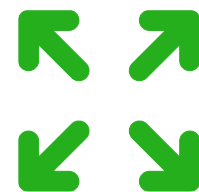
**CE experts analyse issues and improve workflow-generation over time**



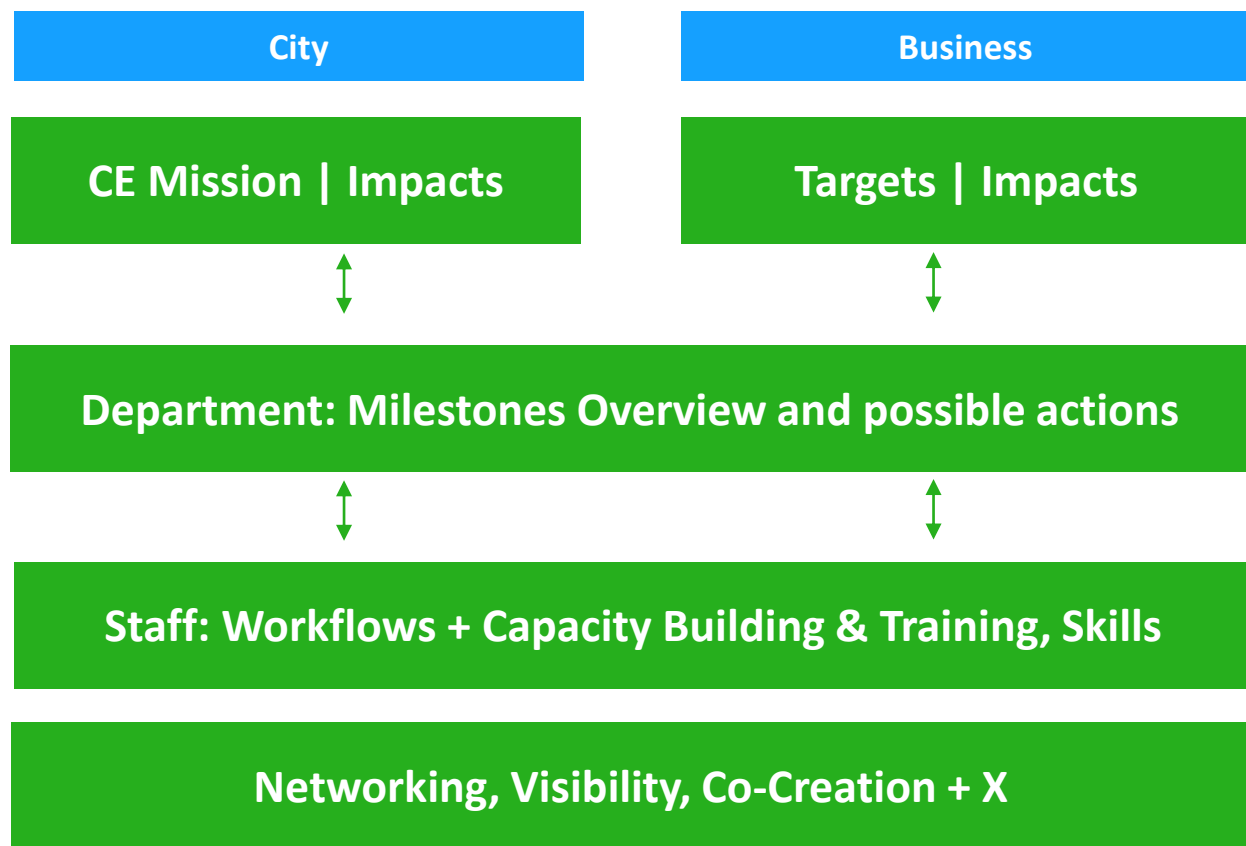


# Organisation: Public Service Platform (PSP)

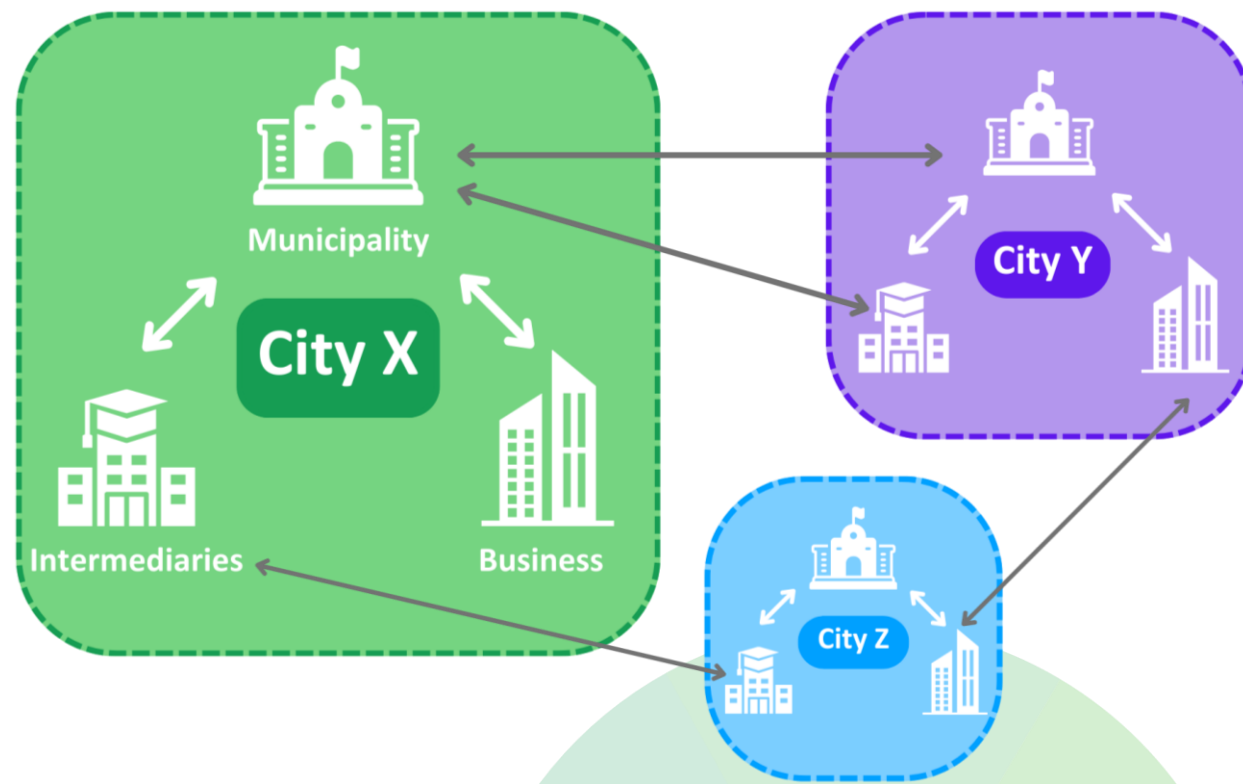
A platform is to provide access to data, insights on CE missions and the workflows



## TWO-TIER STRUCTURE OF INTERFACE (EXEMPLARY)



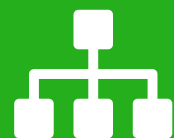
## BARRIERLESS COMMUNICATION TO PEERS THAT MATTER





# Change and Upskilling

A platform that enables Change on personal, city and macro level



Change Framework (to trigger change and seal the acceptance of the CE-solution)



Self-assessment feature, progress and behavioural science



Upskilling activities (i.e. training, education and capacity building)



Knowledge and wisdom creation (recording and sharing of successful practices)







## CircularPSP is technology neutral

**Our focus is to describe the actual problem – you need to come up with technical and practical solutions**

**Buyers Group defines a  
(very complex) problem  
and award criteria**

*We phrase design  
principles + specific  
requirements*

**Suppliers  
define the  
solution**

**...any constellation of technologies is thinkable if it fulfils  
design principles and requirements etc. ...**





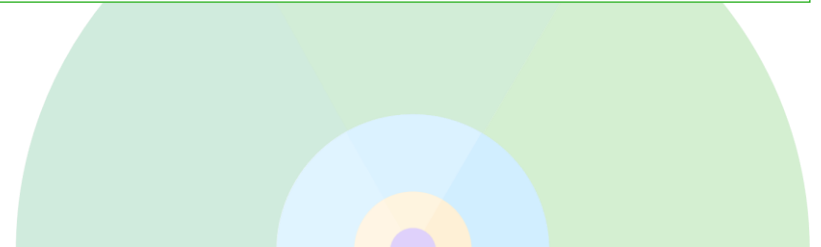
## Status & Next Steps

**We are in the review process with the EC**

**We release (also in mail to you) tender as soon as we can -- 3 months for application**

**We obviously appreciate if you would share the tender also to your “suppliers”**

**We will organise a Follower Event once suppliers are known to present their design**



# AI Procurement Clauses

Welcome and Introduction  
Circular Cities Declaration  
CircularPSP Common Challenge  
CircularPSP Envisaged CE-solution  
>>**AI Procurement Clauses**  
CircularPSP CE Taxonomy Working Group  
Q&A



# Drafting of Contractual AI Clauses

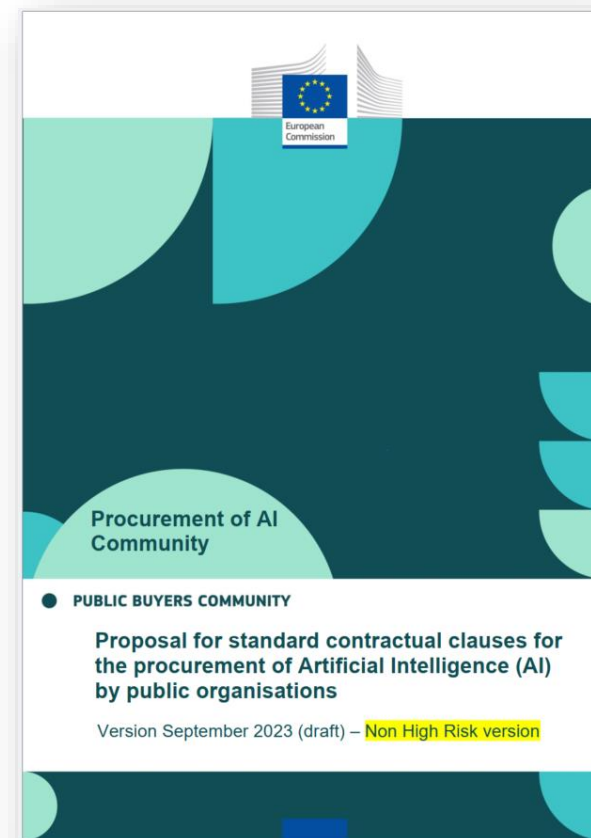
## DG GROW's Public Buyers Community has drafted contractual AI Clauses

### PUBLIC BUYERS COMMUNITY

- ▶ CircularPSP has joined two communities on the Public Buyers Platform (DG GROW):
  - Procurement of AI
  - Circular and Fair ICT Pact (CFIT)

### CONTRACTUAL AI CLAUSES

- ▶ Drafted for public organisations wishing to procure an AI System
- ▶ Largely based on the AI Act\* (still under negotiation)
- ▶ The Non-High Risk version applies to CircularPSP, incorporated in Framework Agreement



\* Proposal for a Regulation of the European Parliament and of the Council laying down harmonised rules on artificial intelligence and amending certain union legislative acts, COM(2021)206 final.

## Contractual AI Clauses – Article 2 and 5

The AI Clauses describe measures for risk management and record-keeping

### STEPS IN RISK MANAGEMENT (ARTICLE 2)



### RECORD-KEEPING (ARTICLE 5)

Automatic recording ('logs') while the AI System is operating

Logging ensures traceability throughout the AI System's lifecycle

Suppliers allow the Public Organisation real-time access



## Contractual AI Clauses – Article 7 and 11-13

The AI Clauses describe measures to ensure human oversight and set out the (IP) rights regarding data sets

### HUMAN OVERSIGHT (ARTICLE 7)

**The AI System must be designed so that it can be effectively overseen by natural persons**

**Measures could include training of employees of the Public Organisation**

**Individuals to whom human oversight is assigned shall:**

**Understand the capacities and limitations of the AI System**

**Be aware of the 'automation bias' of the AI System**

**Be able to disregard, override, or intervene in the AI System**

### RIGHTS TO USE DATA SETS (ARTICLE 11-13)

**All (IP) rights relating to the data sets accrue to the Public Organisation**

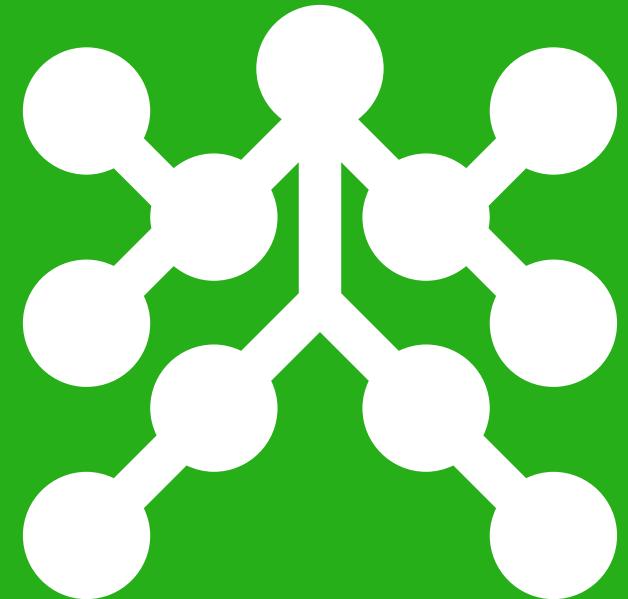
**Suppliers grant the Public Organisation a non-exclusive right to use Supplier data sets**

**Suppliers must hand over data sets to the Public Organisation if requested**

# CircularPSP CE Taxonomy Working Group

## Mission statement, process and contributions

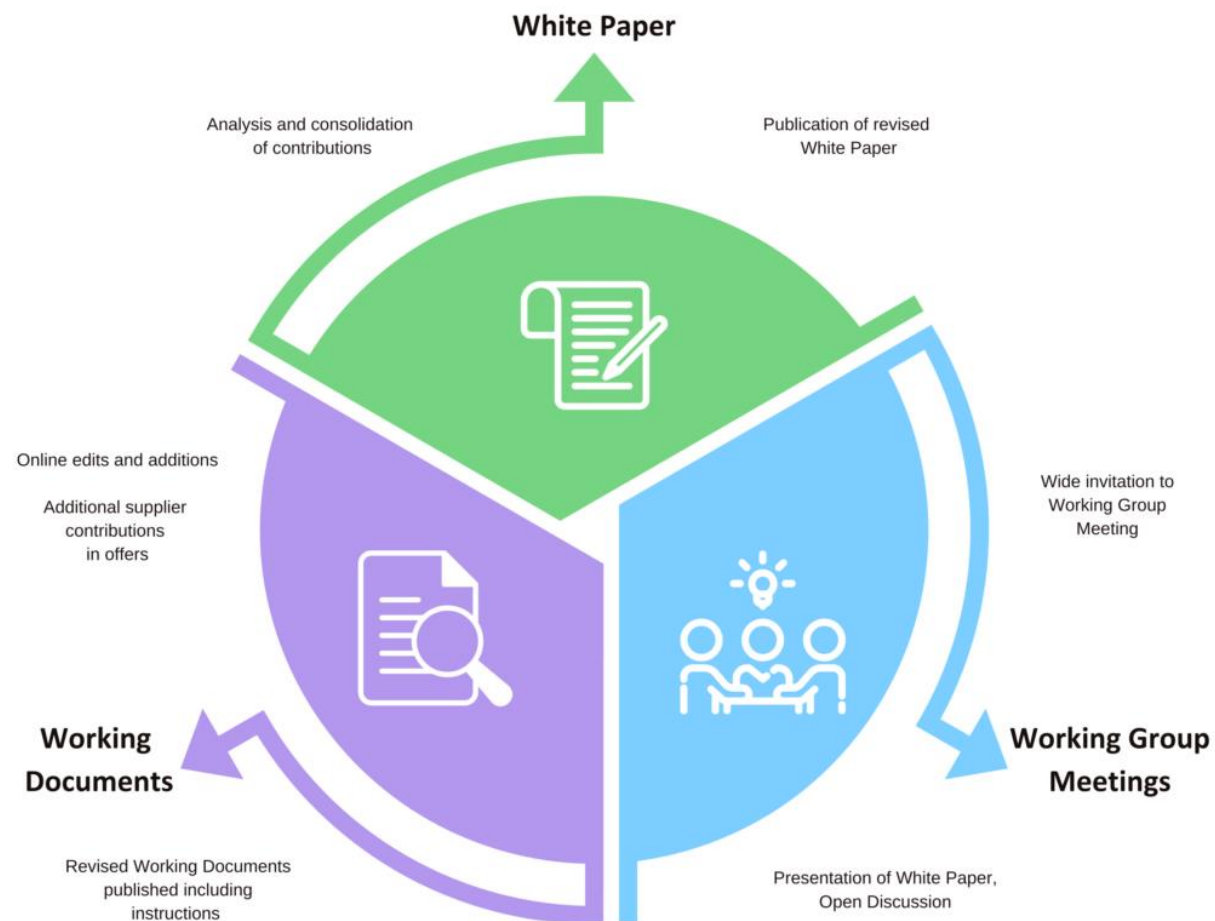
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# CE Taxonomy

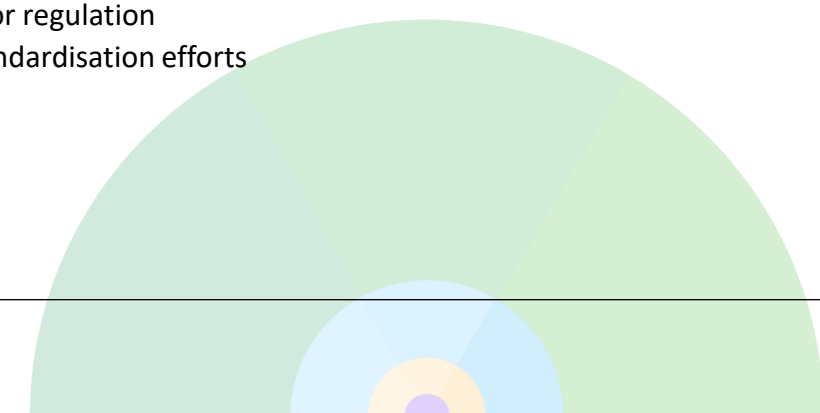
The CE Taxonomy is an open and continues process enabling the project to update requirements for the AI

## ELEMENTS AND PROCESS



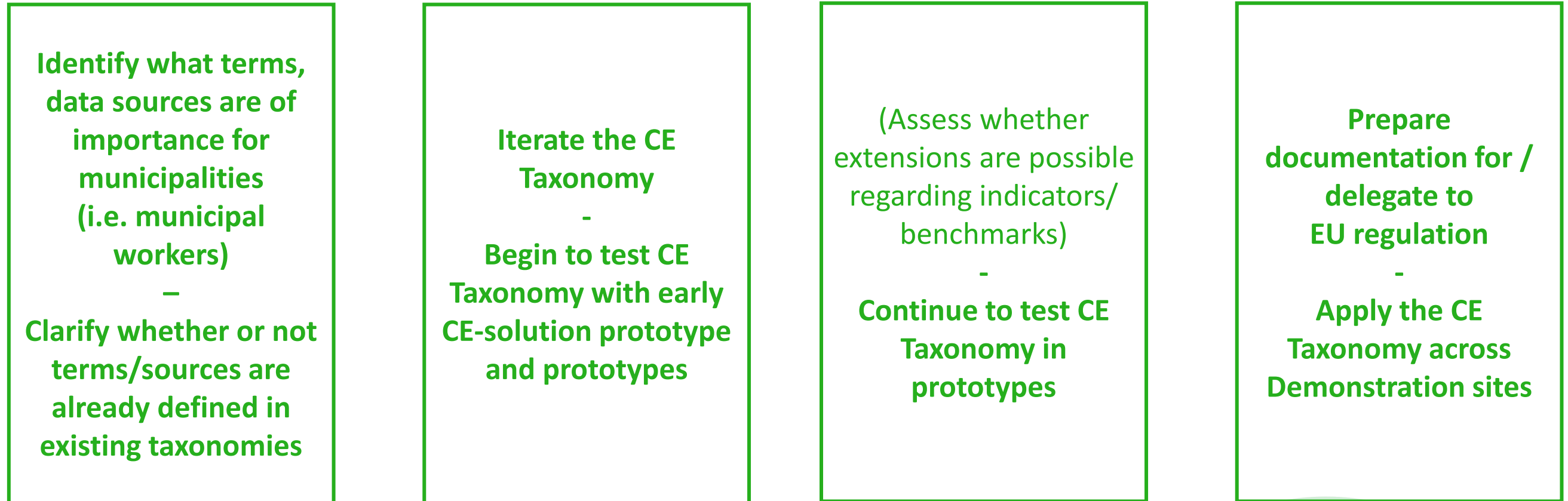
## MISSION AND ROADMAP

- ▶ Mission
  - **Define core terminology** (i.e. Taxonomy) to ensure different artificial intelligences (AIs) do not increase confusion about circular economy but lead to more clarity.
  - **Identify a set of core data sources** for AIs to ensure that the learning does cover all relevant circularity areas in a city instead of being dominated by the most advanced value chain or region etc.
  - **Document a core set of data standards and protocols** to ensure the intended scalable solutions are fit for purpose to operate in a field with diverse IT ecosystems.
  
- ▶ Status and planning
  - Kick-off and initial state of content as
    - Orientation for Suppliers
    - Encouragement to provide more / better
  - Before and during each Phase:
    - Update of White Paper including annex of working files to be used by supplier AI
    - Working Group Meeting to explain status, uncertainties and gaps
    - Further iteration of files
  - Resulting in
    - Policy Paper(s) to EC for regulation
    - Brief(s) to ongoing standardisation efforts



## What do we aim to achieve (here)?

### Scope CE Taxonomy Working Group



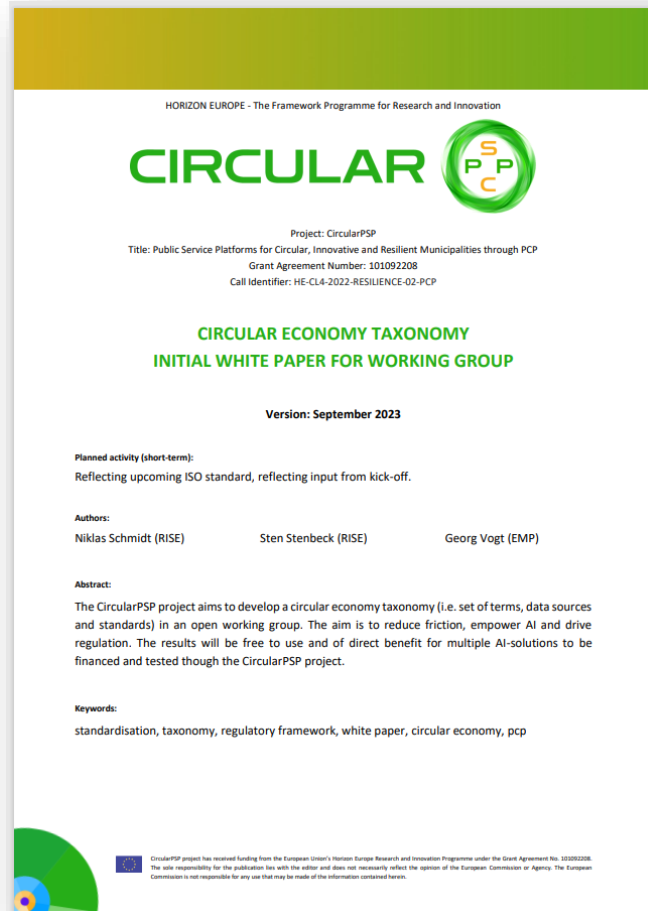
Specialised groups may emerge from the wider group and will receive support / infrastructure

# How to contribute?

All work will be public with intermediate results curated by the CircularPSP consortium

## BACKGROUND

- ▶ To achieve a common understanding of taxonomies, an initial White Paper was developed by RISE and empirica in September



## FOLLOWER CONTRIBUTIONS

We work in two living documents

WORD  
-  
CE Terminology &  
Standards

EXCEL  
-  
CE Data Sources



# CircularPSP and CE Taxonomy Timelines

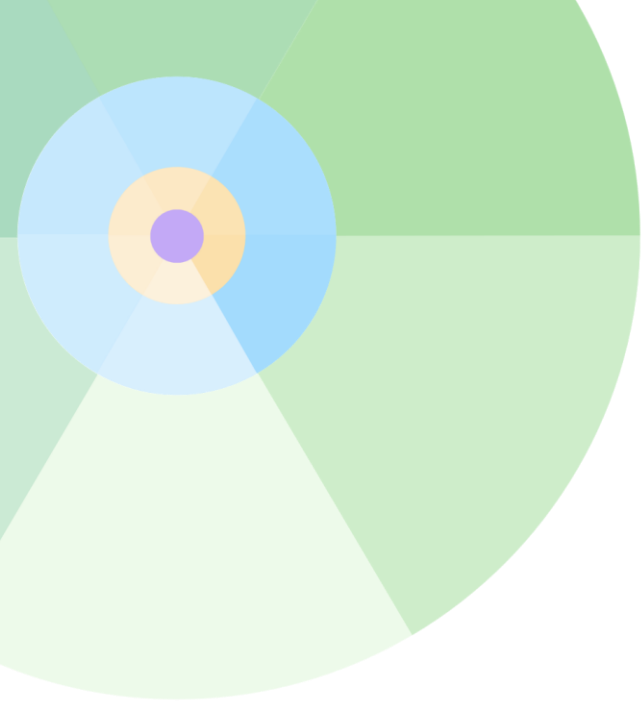
Working group activities are in sync with the PCP



# Q&A

- Welcome and Introduction
- Circular Cities Declaration
- CircularPSP Common Challenge
- CircularPSP Envisaged CE-solution
- AI Procurement Clauses
- CircularPSP CE Taxonomy Working Group
- >>Q&A**





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