



AI-InnoScEnCE

# CE-Ecosystem Mapping Tool

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Co-funded by the  
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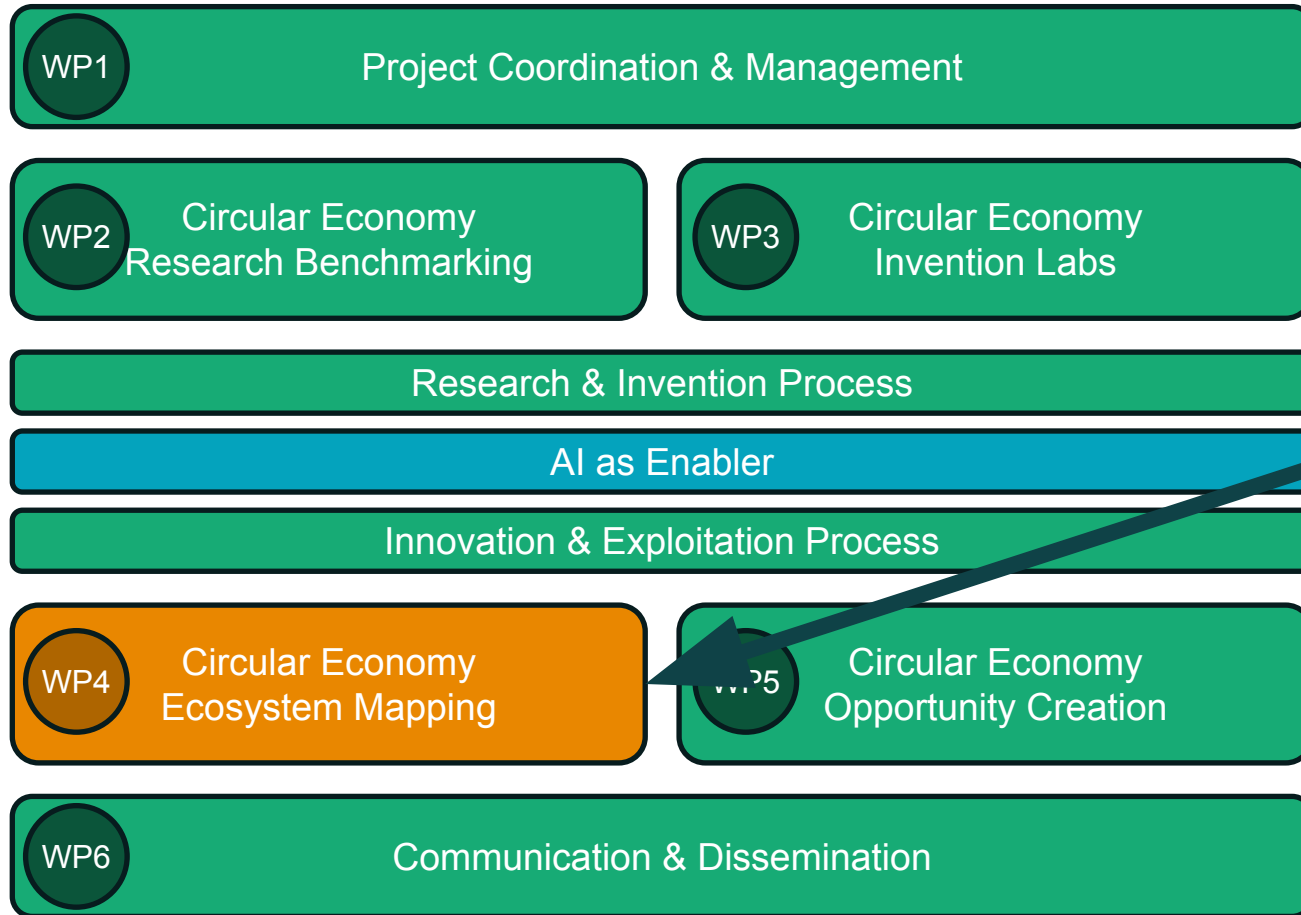


# Agenda

1. Where does the tool fit into the project?
2. What do we want the mapping tool to be?
3. How did we construct the map?
4. The CE Taxonomy\*
5. What did we extract?
6. Live Demo
7. What do we need from you?

\*as used in our project

# Where does the tool fit into the project?

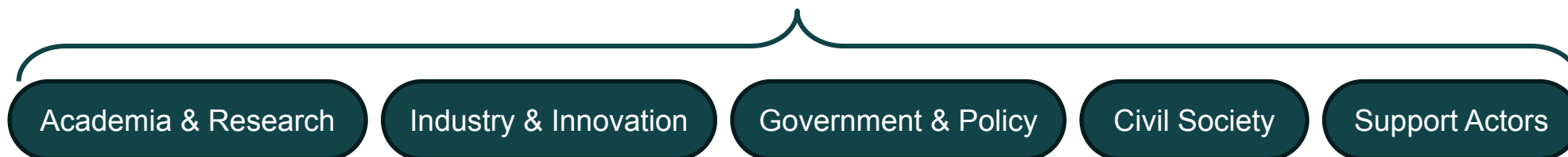


## Circular Economy Ecosystem Mapping

- Kick-Off in Hamburg (May 2025) with Stakeholder Identification & Stakeholder Registry (WP4.1)
- Construction/Work on the CE-Ecosystem Mapping Tool (Second Half of 2025) (WP4.2)
- Workshops with you! (May 2026) (WP4.3)

## What do we want the mapping tool to be?

- A visual representation of the CE ecosystem in Hamburg, Novi Sad, and Cahul
- A shared vocabulary — common stakeholder types and a CE activity taxonomy

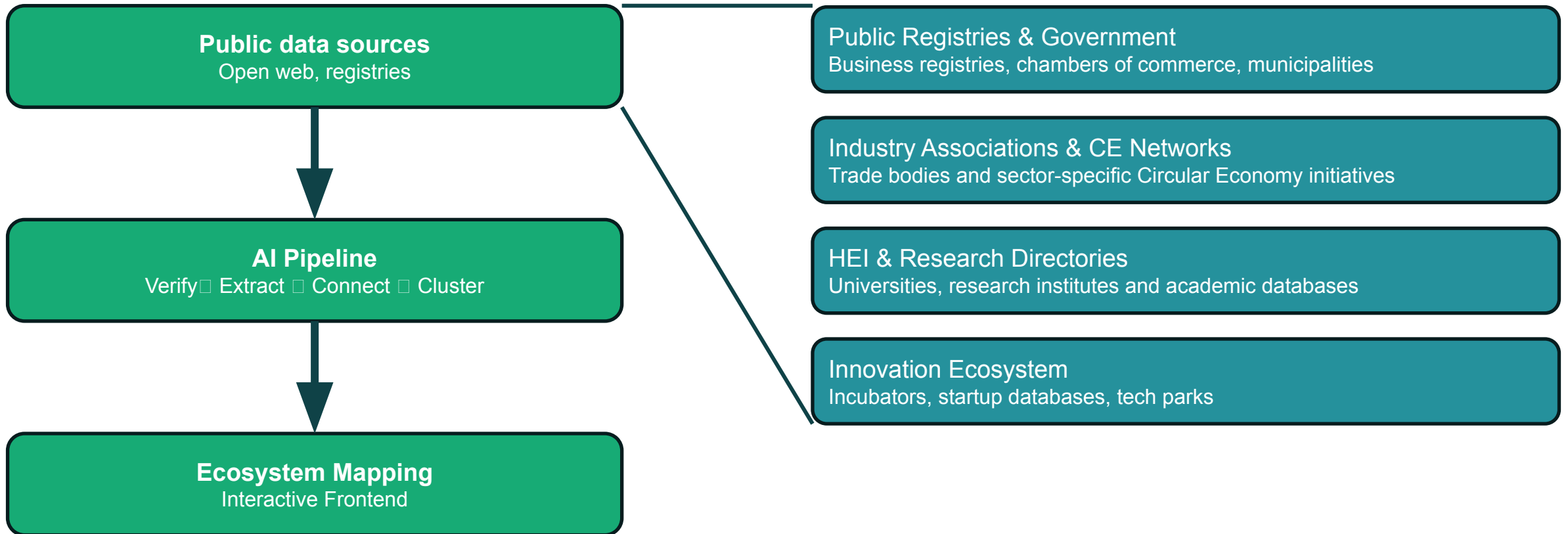


- A navigable entry point into the vast circular economy landscape
- An openly accessible tool for all of you!

## What it should not do

- Replace your knowledge of your own region — the tool is a starting point for conversation, not the source of truth

# How did we construct the map?



# The Circular Economy Taxonomy

## Product Lifecycle

### Design & Production

Durable, modular, repairable products

### Use & Consumption

Sharing, repair, reuse, service models

### Collection & Logistics

Gathering, sorting, transporting waste

### Recycling & Processing

Waste into secondary raw materials

### Resource Recovery

Energy, water, nutrients from waste

## Cross-cutting Enablers

### Industrial Symbiosis

Sharing by-products between industries

### Digital & Technology

AI, IoT, blockchain for traceability

### Policy & Governance

Laws, standards and strategies for CE

### Education & Research

Research, training, awareness programs

### Finance & Business Models

Funding and economics of circularity

Based on the Ellen MacArthur Foundation CE framework, the EU Circular Economy Action Plan (2020), and the ReSOLVE framework.

AI-InnoScEnCE – Stakeholder Engagement Workshop

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# What did we extract?

## Entity Information

- Entity Name
- Brief Description  created by LLM based on About Us Information
- Ecosystem Role  inferred by LLM
- Address

## CE-related Information

- Activities\* related to CE  inferred based on free text
  - Capabilities offered  inferred based on Services, Expertise, What we do segments
  - Needs to be fulfilled  inferred from mentioned gaps and goals
- \*mapped to the CE taxonomy

## Connections

- Mentioned Partnerships
- Mentioned other entities  further entities to explore for the CE ecosystem

This is all done by a locally hosted Large Language Model

# Let's look at the tool

<https://tuhhstartupengineers.github.io/ai-innocence-wp4-frontend-react/>



# What do we need from you?

- **Corrections** — is anything about your organisation wrong, outdated, or missing?
- **Missing actors** — who *should* be on this map that isn't?
- **Synergies** – who on this map should be talking to whom but isn't?
- **Tool feedback** – what would make this more useful to you in your work?



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# Thank you for your Attention!

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