

CIRCULAR



CircularPSP Pitch Deck

Last update: May 2025

Procurers



Supported by



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

Contents / Agenda

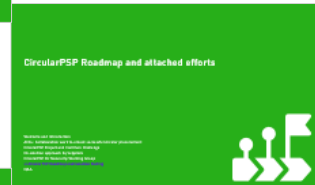
1. Common Challenge



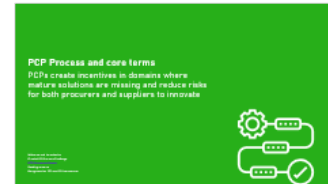
2. CE-solution



3. CircularPSP Roadmap and attached efforts



4. PCP Process



5. Background on PCP and PPI Instruments



CircularPSP Common Challenge

Common challenges of cities to transition to
Circular Economy



Project

Leading Circular Cities are tackling a common challenge together



Istanbul, Turkey

Guimarães, Portugal

8 Procurers – 8 Countries
Representing 45 million citizens

CircularBerlin, Germany

City Network Sweden

**Including leading circular cities and metropolises,
as well as nationwide city networks**

Helsinki, Finland

City Network Slovenia

Invest €5.64 million in R&D
As part of a 3-phase pre-commercial competition

Sandyford, Ireland

ReLondon, UK¹

**We co-developed the
common challenge with
city staff, validated by
experts and industry
stakeholders**

**A wide-reaching Follower Network
which will continue to grow**



**Challenge
Brief**



Circular Economy (CE) is stalling

Circular economy is systemically complex and public organisations need new tools to leverage the potential

**Circularity declined from 9.1%
in 2018 to 7.2% in 2023¹**

**85% share of GDP in urban
areas³**

**Cities account for 75%
resource consumption²**

**EU: €2 trillion yearly in public
procurement (14% of GDP)⁴**

250,000 public organisations⁴

**221+ definitions of CE⁶
and more indicators⁷**

75 million employees⁵

**Progress in vertical solutions
with thousands available⁸**

Known benefits for sustainability, economy and resilience

**According to
OECD, only 10%
of cities have
advanced on
circular
transition and
urban policies⁹**

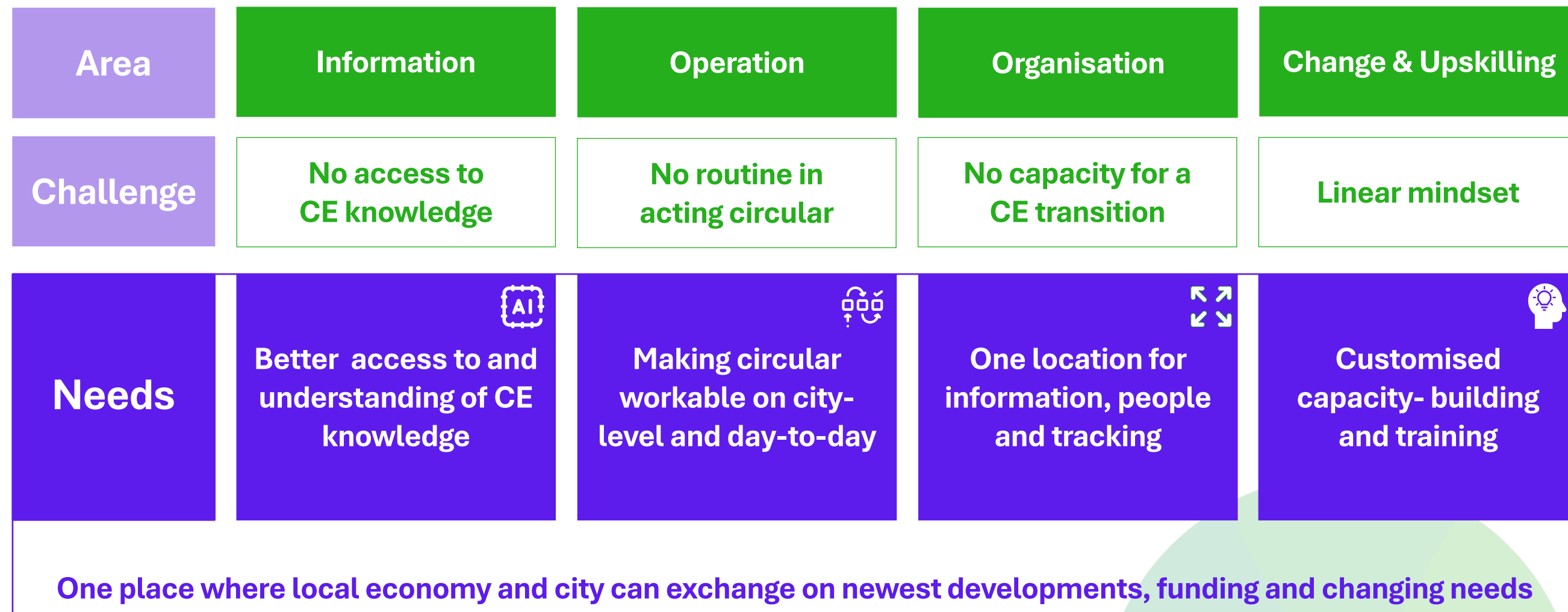
**Europe needs
new tools to
leverage the
potential and
advance the
transition
towards a
Circular
Economy**

CIRCULAR



Challenges to be resolved

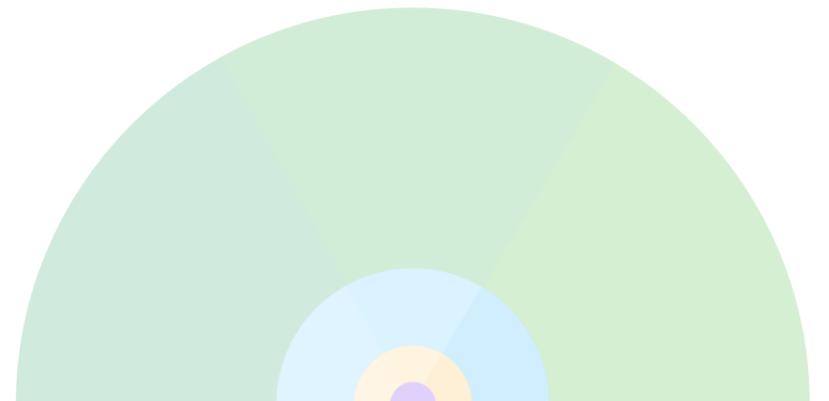
CircularPSP identified four critical challenges areas cities cannot solve alone





Ralf, 45

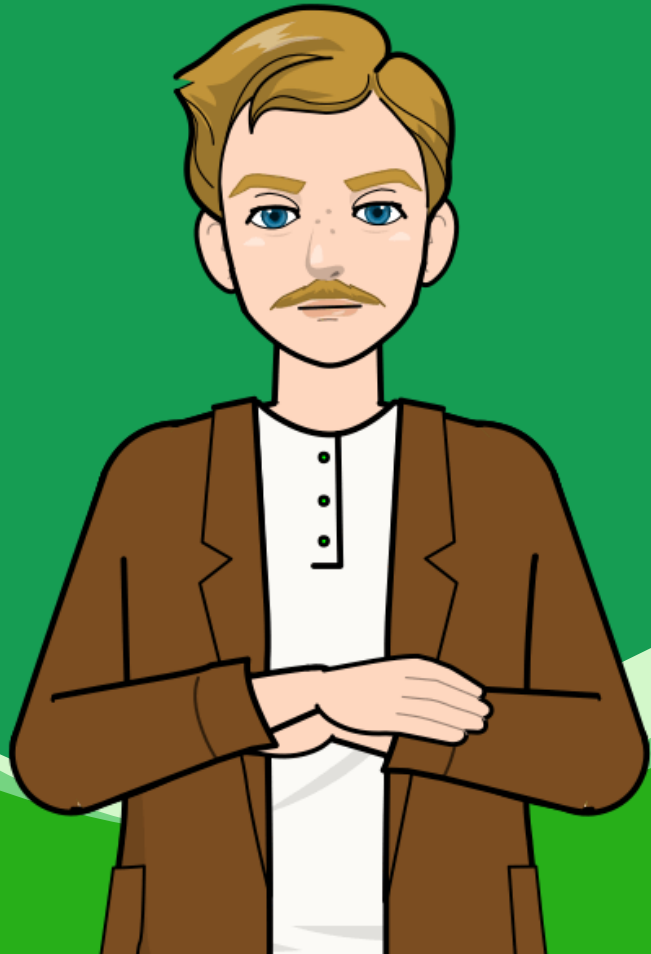
Little experience with
Circular Economy
(municipal worker)



CHALLENGE 1: INFORMATION



I don't have time to search for possible solutions in dozens of languages!



CHALLENGE 1: INFORMATION



**A specialised AI finds relevant
solutions for me and summarises them
in my language**



CHALLENGE 2: OPERATION

I've never done this before... how am I supposed to implement it?



CHALLENGE 2: OPERATION

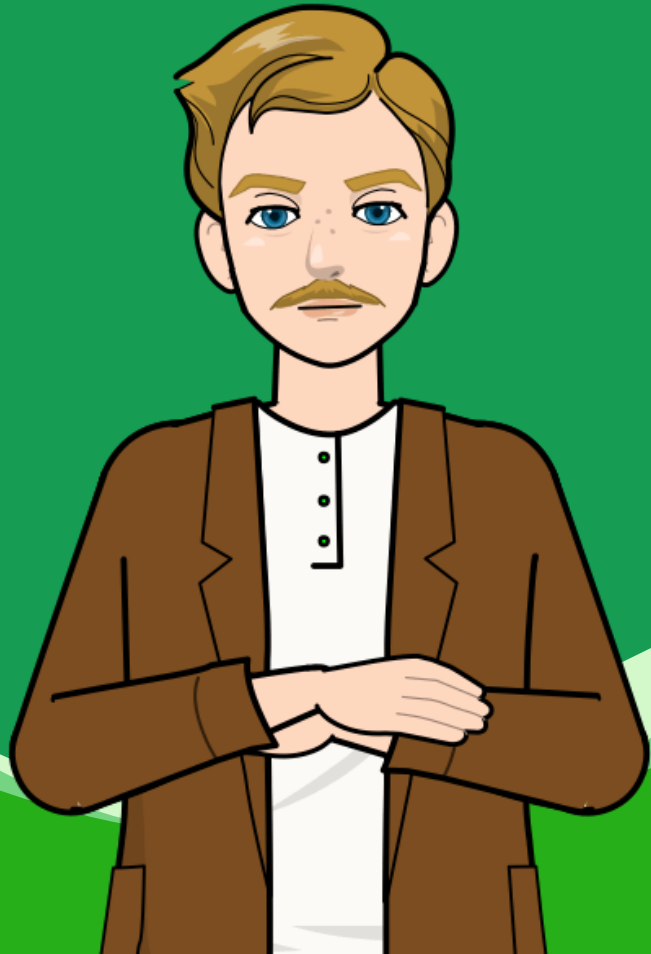
The platform provides a concrete step-by-step Workflow, including templates



CHALLENGE 3: TRAINING



**I'm not familiar with this concept at all,
and why should I?**



CHALLENGE 3: TRAINING

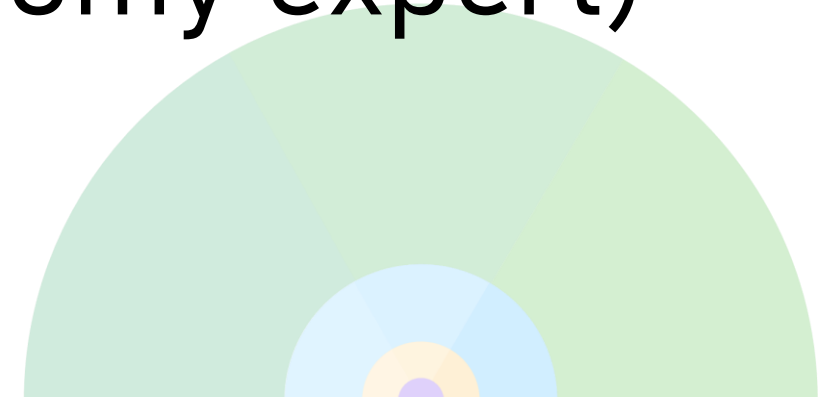


The Workflow includes targeted training materials based on my personal experience

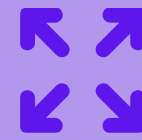




Anna, 38,
A lot of experience
with Circular Economy
in Cities (Circular
Economy expert)



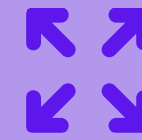
CHALLENGE 4: ORGANISATION



**I wrote the circular strategy, but I have
no way to help my colleagues**



CHALLENGE 4: ORGANISATION



Help requests, ongoing workflows, and indicators are centrally accessible



CE-solution

CircularPSP deploys AI and platform to
transition to CE



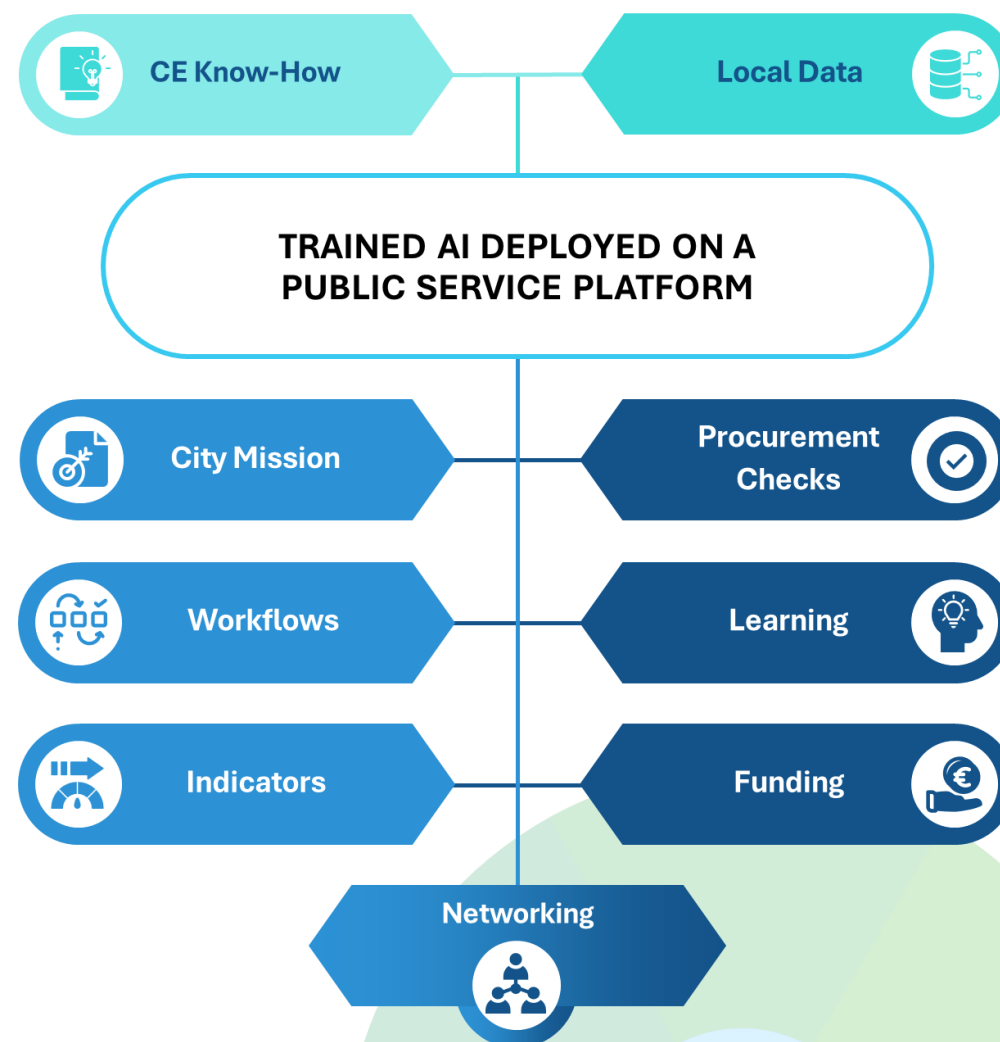
Innovation Procurement of AI and PSP

New solutions are needed to empower cities and municipal organisation to take the first circular step and then the next ...

SOLUTION - VIDEO

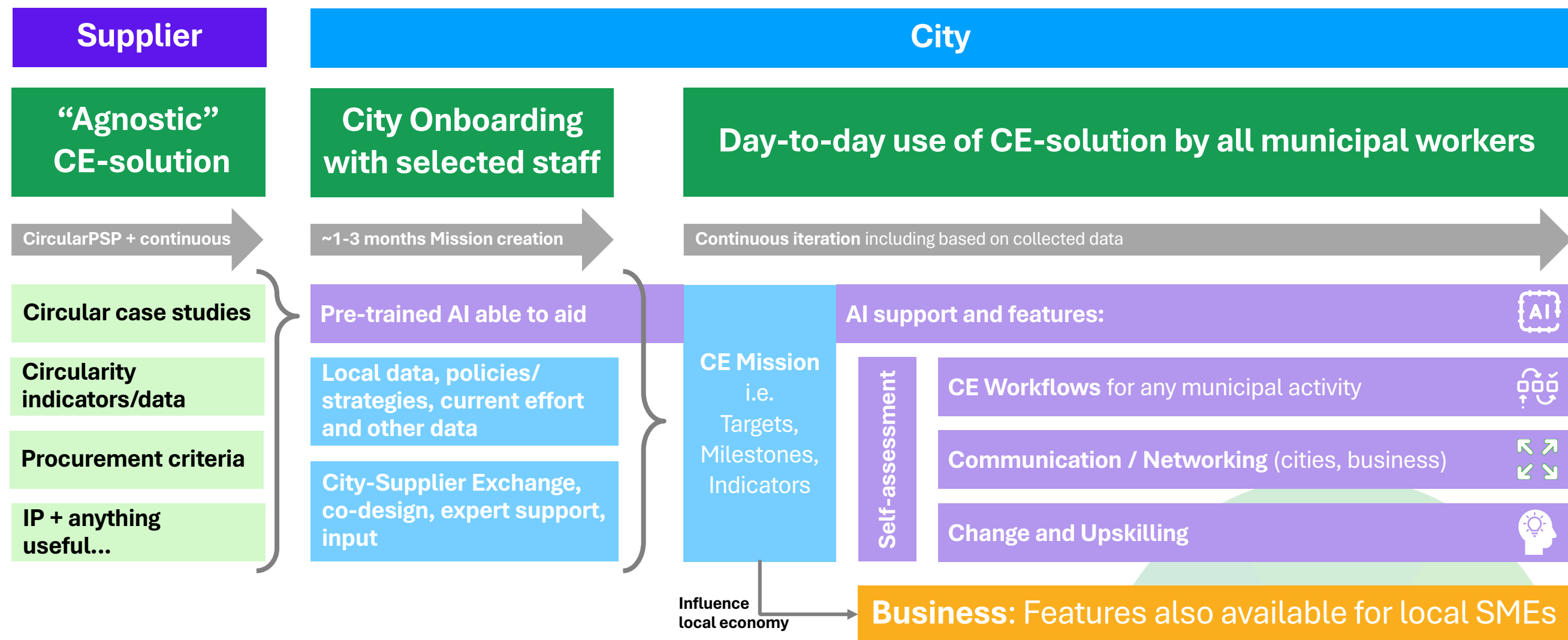


THE SOLUTION STRUCTURE



Journey of solution implementation

A CE Mission is created during City Onboarding and afterwards implemented through e.g. Targets and Workflows



CE Taxonomy / Know-How – Open Access

The CE-solution is trained on our open access CE taxonomy, which collects sources and recommends core terminology

OPEN

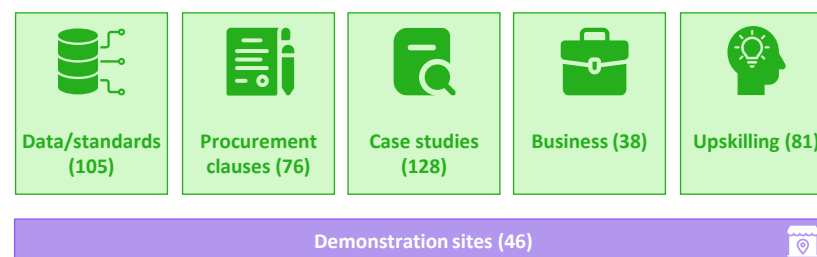
- ▶ Iterative co-development process
- ▶ Open access
- ▶ Contributions welcome with many coming from competing Suppliers



OUTPUT: DATA SOURCES

Extensive collection of data sources for AI training from websites, repositories etc.

- ▶ Includes 470+ sources
- ▶ Continuously maintained and extended
- ▶ Sources are categorised in:



OUTPUT: WHITE / POLICY PAPER

Prioritisation of external sources

- ▶ Reference to standardised terminology (e.g. ISO 59000, ISO 24000, CSRD)
- ▶ Mandatory functional term / specific taxonomies (e.g. TED Data CPV, NUTS)
- ▶ Additional sources in local context (e.g. German Waste hierarchy)

Outlines gaps in existing documentation and suggests harmonised and expanded terminology (where no standard exists)

- ▶ User and role definitions
- ▶ CE strategy definitions refined and ranked for R-level, based on UNEP circularity platform and ISO 59004

emp.onl/ce-taxo



emp.onl/ce-data



emp.onl/ce-paper



Testing and evaluation framework

Testing and evaluation is being conducted by three tester groups along two dimensions

TESTING GROUPS

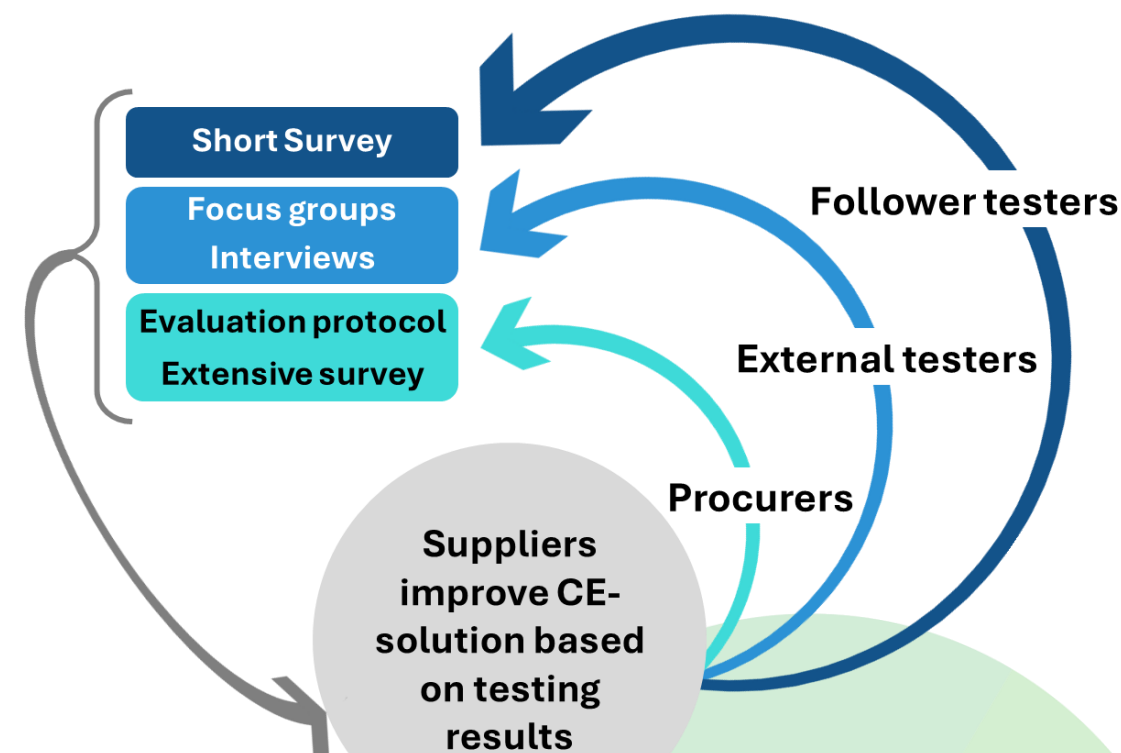
Three tester groups:

- ▶ Procurers
 - CircularPSP project testers
- ▶ External testers
 - Municipal departments and municipal-owned organisations
- ▶ Follower testers
 - Cities, ministries and other (governmental) organisations – from autumn onwards

Evaluation framework dimensions:

- ▶ User satisfaction
 - E.g. clarity, usability, accessibility
- ▶ Systemic impact
 - Ex ante: Viability, consistency and (local) relevance
 - Ex post: Pre-defined indicators like emission and waste reductions

TESTING AND EVALUATION LOOPS



CircularPSP Roadmap and attached efforts

Welcome and Introduction

ACR+: Collaborative work to unlock successful circular procurement

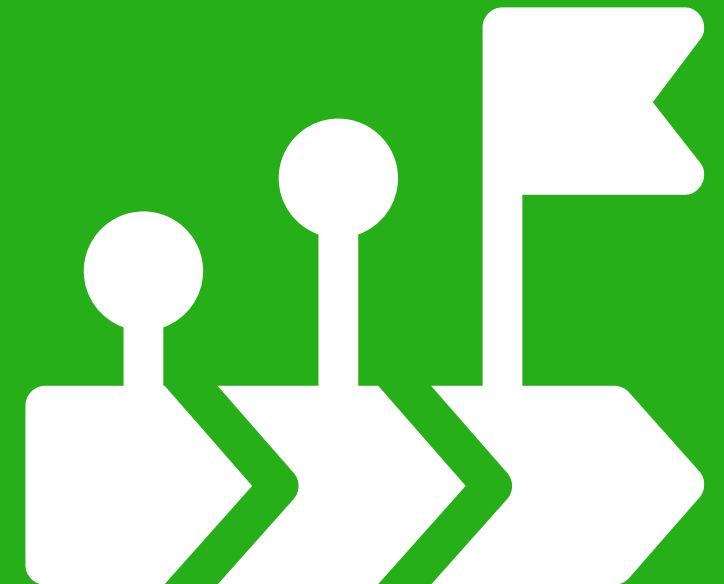
CircularPSP Project and Common Challenge

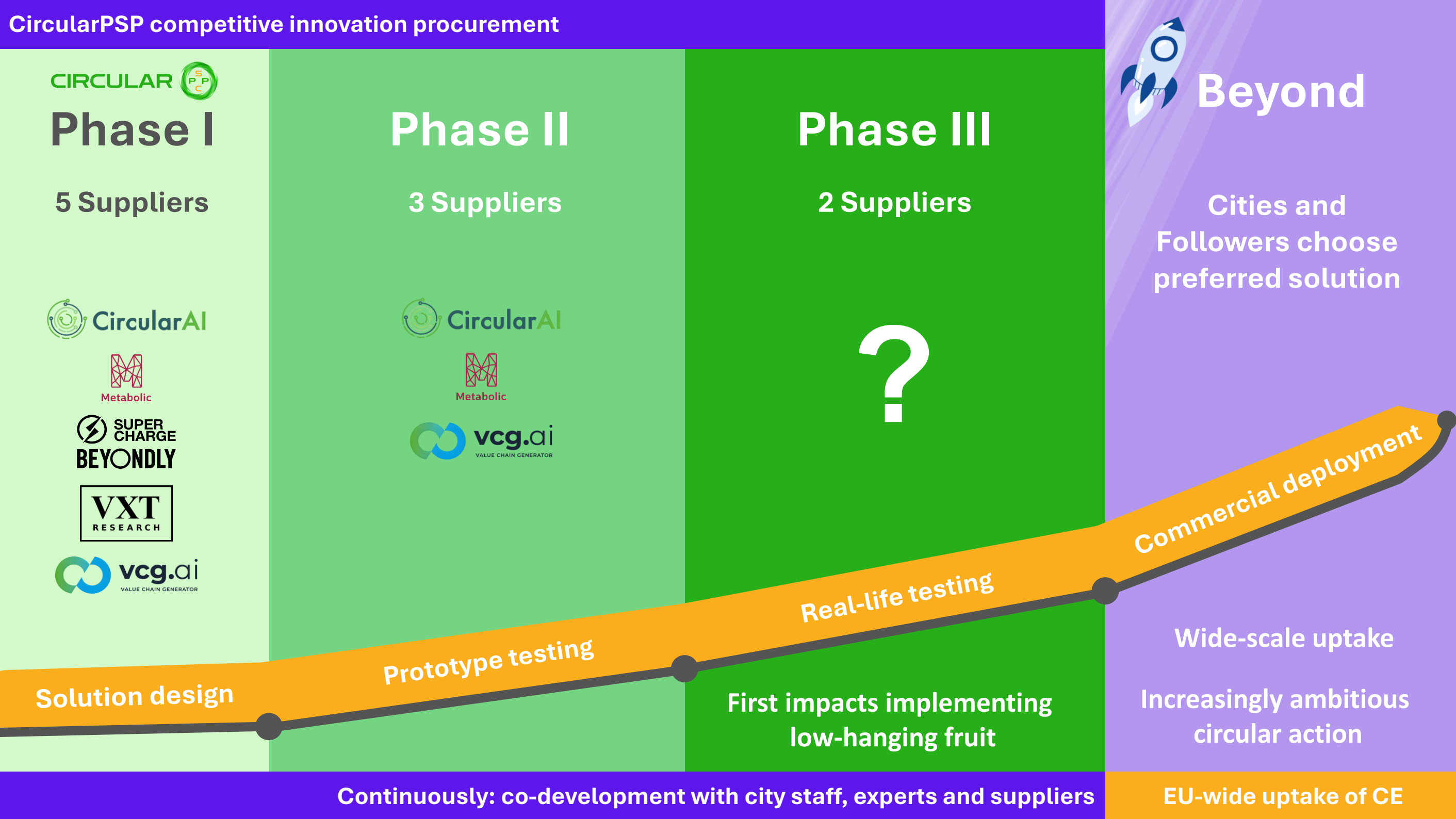
CE-solution approach by Suppliers

CircularPSP CE Taxonomy Working Group

>>CircularPSP Roadmap and Solution Testing

Q&A





CircularPSP Follower Network

We have attracted 93 Followers, ranging from cities, ministries, projects to universities

Individual Cities & Regions



City Collectives & other CE-initiatives



HOW TO JOIN

Just enter your organisation's details on our [website](https://emp.onl/circular-join), we follow up

emp.onl/circular-join

Join our Follower Network

Leave your contact details!

Name *

Email *

Organisation *

Website URL, for Organisation *

WHAT TO EXPECT



- Common Challenge Brief can be downloaded from our website
- Ongoing CE Taxonomy working group on terminology and data sources (Join any time!)

- Presentation of CE-solution concepts and five winning Suppliers
- Insights into procurement clauses for AI

- **First prototypes of AI** from the remaining three Suppliers
- Update of **CE Taxonomy** & insights into AI procurement clauses

- Suppliers release pilot systems for **real-life testing**
- Get access and tutorial to test **two AIs and hosting platforms**

- Final event at which Suppliers **showcase the platform**
- CE Taxonomy Policy Paper (based on White Paper)

- **Share information** or events across the network via CircularPSP
- Organise **bilateral meeting** to discuss CE transition challenges

- **EMAIL US:** follower@circularpsp.eu; OR
- **NO commitment. NO fees. Open to ANY organisation!**

SCAN



In autumn, we open public testing to Followers

BECOME A FOLLOWER!

- **EMAIL:** follower@circularpssp.eu
- **NO commitment. NO fees. Open to public organisations!**



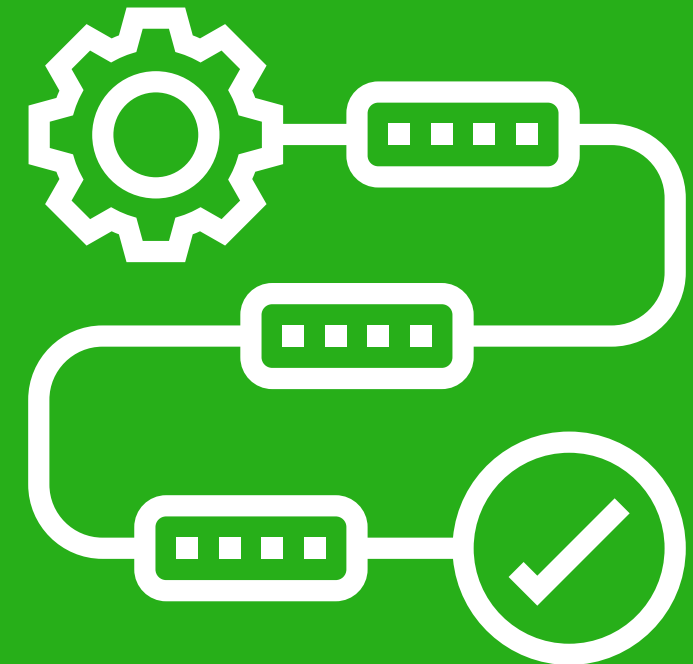
 Project
 Follower



PCP Process and core terms

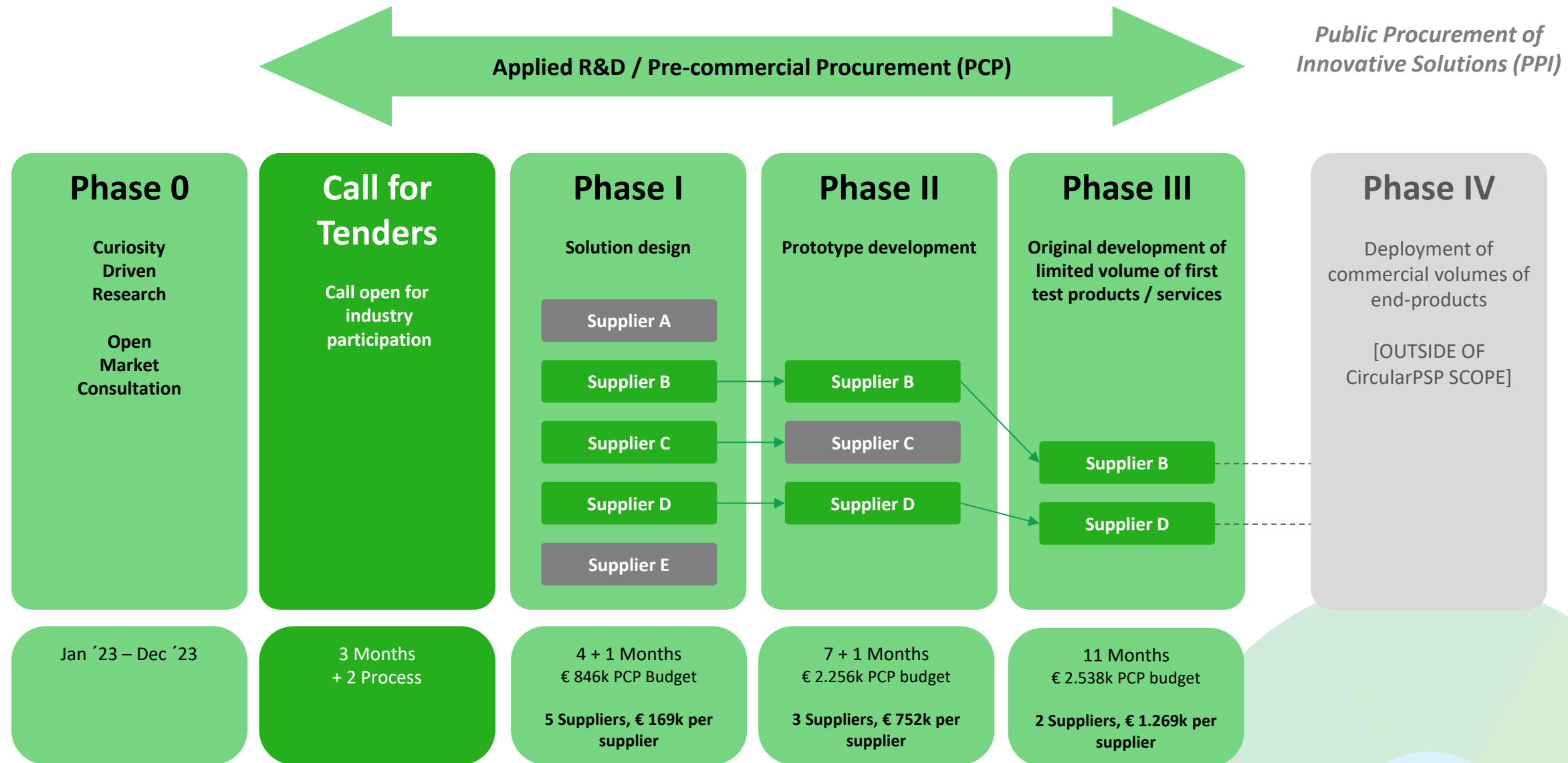
PCPs create incentives in domains where mature solutions are missing and reduce risks for both procurers and suppliers to innovate

Welcome and Introduction
CircularPSP Common Challenge
PCP Process and terms
Reading remarks
Background on PCP and PPI Instruments



PCP Structure

PCPs follow a multi-staged process to select the most suitable and promising innovation; R&D services are funded at all stages



Funding principles

A PCP is a tender, not a grant

Financial offers are requested for each phase (up to the ceiling) – Note: no VAT applies

The offer has to include all costs (including taxes if applicable)

The payment is made based on the offered price ...

... after receipt of invoice and approval of work

PCP Tendering | Core requirements for Suppliers

All core requirements are derived from the EU directive on competition

ELIGIBILITY CRITERIA

- ▶ Tender is restricted to entities **established in EU Member States and Horizon Europe Associated Countries***
 - A minimum of 50% of the project R&D activities/budget must take place in the EU or Horizon Europe Associated Countries*
- ▶ Tender is open to all **types of operators** (companies or other type of legal entities), regardless of their size or governance structure
- ▶ Both **single entity** or **joint tender offers** and subcontracting (consortia) are possible
- ▶ On-off award criteria can be considered as extension of selection criteria, if you are not able, you need a partner
- ▶ Participation in the open market consultation or this event is not a condition for submitting a tender

GENERAL REQUIREMENTS

Electronic Submission via e-mail

Submission deadline: 1 April 2024 – Istanbul Time(!)

Official language is English

IPR sharing, if suppliers do not exploit results

*List of HE Associated Countries: https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/common/guidance/list-3rd-country-participation_horizon-euratom_en.pdf

Contract award | Project

For each of the three phases the same rules on contract, monitoring, payments and IPR apply

One Lead Procurer

All contracts, invoices and payments go through the lead procurer who acts on behalf of all procurers

Contracting

Framework agreement with specific contracts in each phase

Monitoring

During each phase, contract implementation is **monitored periodically** and reviewed **against the expected outcomes**

Completion criteria

Satisfactory completion of milestones and deliverables: requirement for payment --- **Successful completion** permits entering next Phase

Intellectual property rights (IPRs)

Suppliers **keep ownership of the IPRs** attached to the results generated during the PCP implementation, but must exploit

Framework Agreement (TD8) includes AI Clauses

We/you are one of the first users of AI Act compliant 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*
- ▶ 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.

Tender documents overview

We did our best to make it transparent and avoid duplication, however, it is a large contract and will be some effort

Phase	Description	Documents	
Tender	Central documents on conditions, content and challenge	TD1 Call for Tender (current document) TD2 Challenge Brief (includes Annexes)	Sufficient for interested parties.
Proposal to be submitted	Administrative Forms to be filled by tenderers	TD3a Declaration of Honour - Exclusion Criteria TD3b Declaration of Honour – On/off Award Criteria TD4 Power of Attorney	It should be extensively streamlined but if you have questions or ideas, please let us know
	Application Templates to be filled by tenderers	TD5 Tender Application Template – Administrative TD6 Tender Application Template – Technical TD7 Tender Application Template – Financial	
	Application Submission	TZ1 Tender submission zip-archive	
Project	Contract Templates to be signed by successful contractors	TD8 PCP Framework Agreement TD9 PCP Specific contract for Phase I-II-III	Though TD1 contains key terms, there is more detail here

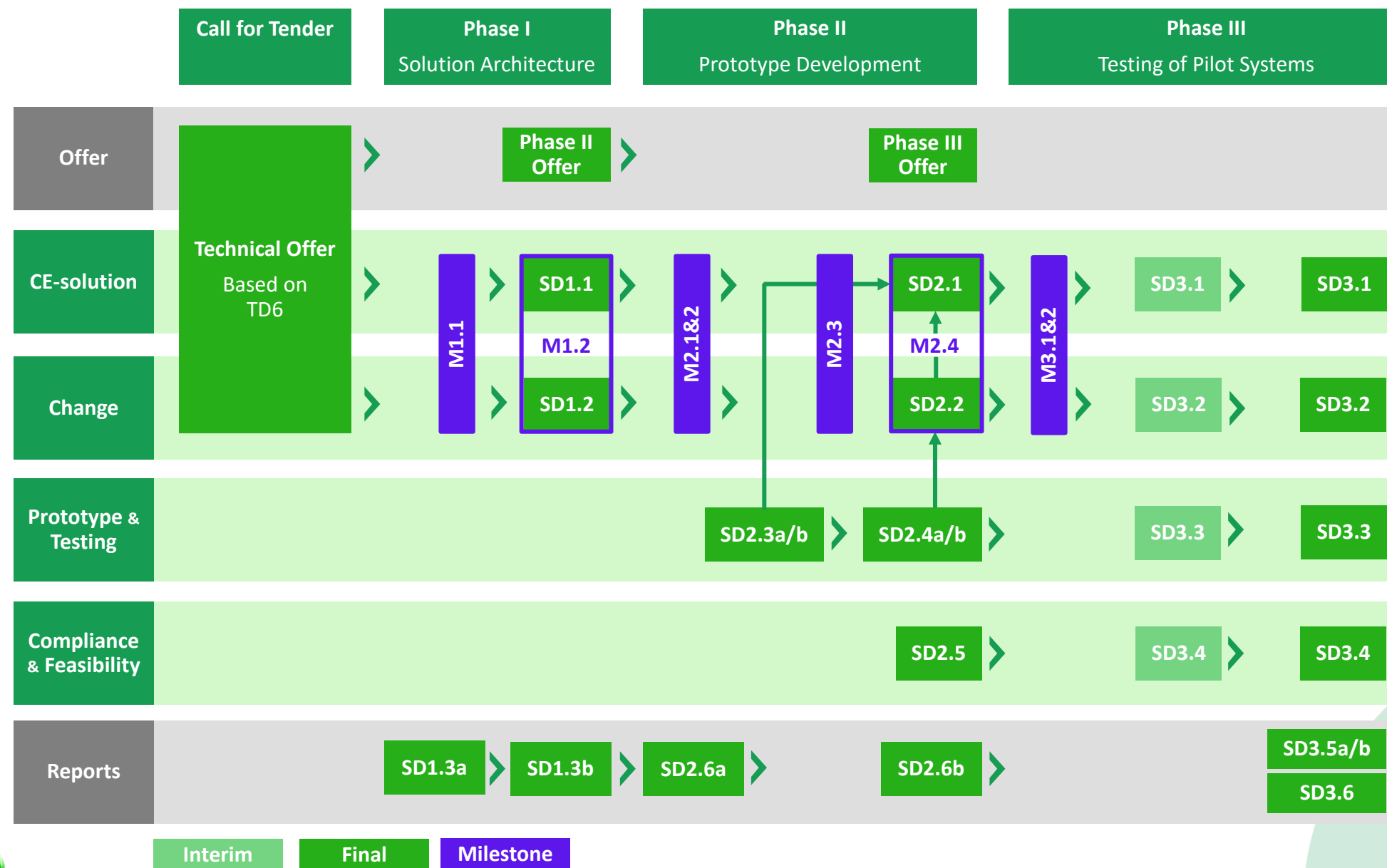
The Challenge = tender: TD2

The Challenge is structured along the Award Criteria as is the tender/proposal you are going to write

(Weighted) Award Criteria	Call for tender TD1	Challenge Brief	Challenge brief TD2	Tender Application Template	Tender Application Template TD6
1 Technical criterion		1 Technical criterion		1 Technical criterion	
T1 – Overall approach to CE-solution		T1 – Overall approach to CE-solution		T1 – Overall approach to CE-solution	
T2 – Information		T2 – Information		T2 – Information	
...		
Section 3.4 and 3.5 include: <ul style="list-style-type: none"> ➤ Maximum points ➤ Thresholds & weights ➤ Assessment scheme ➤ Formulas 		Challenge Brief includes: <ul style="list-style-type: none"> ➤ Challenge description for each criterion ➤ Minimum requirements as Must or in bold (in bullet lists) ➤ Aspects relevant for assessment ➤ Annexes 		Tender Application Template includes: <ul style="list-style-type: none"> ➤ Pre-defined sections, sub-headings and some standardised tables ➤ Notes on content expected 	

The project: TD1 Section 2.1

Table 1 (of TD1) describes the progress on R&D documented in the deliverables depicted below



Graphic represents evolution of key documents to be delivered

TD1 Table 1 describes the progress on CE-solution (i.e. AI, Workflows, Platform, Change)

Background on PCP and PPI Instruments

Welcome and Introduction

CircularPSP Common Challenge

PCP Process and terms

Reading remarks

Background on PCP and PPI Instruments



Pre-Commercial Procurement vs. Traditional Public Procurement

Pre-Commercial-Procurements (PCP) create a new, competitive market for Research and Development (R&D) services and development

PRE-COMMERCIAL PROCUREMENT

Joint Procurement (Buyers Group)

High degree of innovation / R&D effort required

Prototype development: medium-/long-term

Competitive development: several suppliers

New IPR – Risk/Benefit-sharing

Special legal framework in H2020/WTO

Development in multiple phases

TRADITIONAL PROCUREMENT

Individual Procurement (single department)

Low degree of solutions' innovation

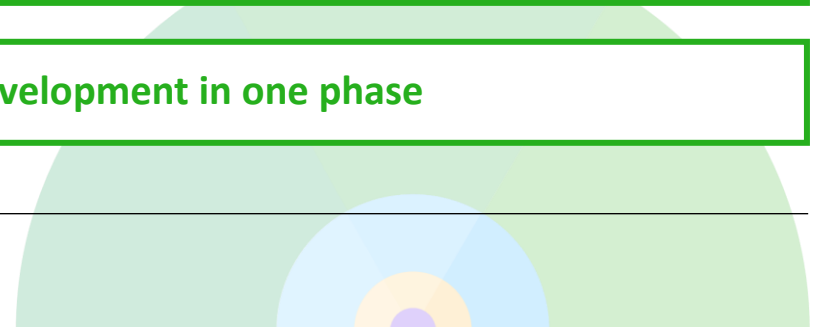
Mature product/service: immediate/short-term

Single contract: one supplier

Often based on existing **IPR**

National public procurement rules apply

Development in one phase



What is a Pre-Commercial Procurement (PCP)?

Core features

WHAT IS A PRE-COMMERCIAL PROCUREMENT (PCP)?

**Instrument for public procurement
of R&D services**



Public procurers act as demanding customers



Tool for innovation
(EC sees the need but no offer on market)



Risk-benefit sharing under market conditions



**Interact closely with eight procurers
operating 21,000 buildings**



WHAT ARE THE BENEFITS FOR SUPPLIERS

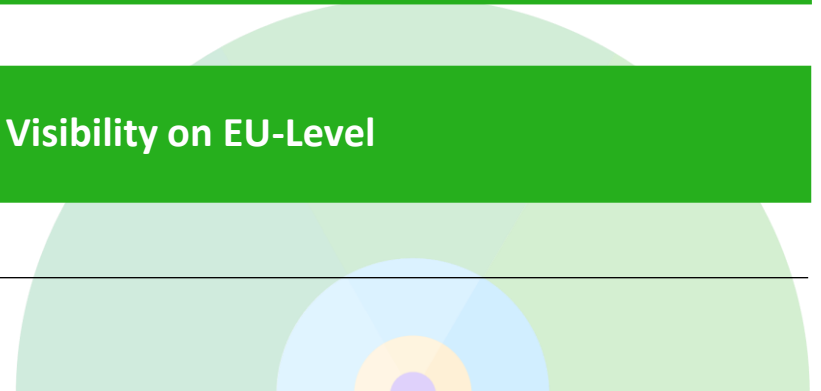
**Create opportunities for companies
to gain leadership in new markets**

Provides a large enough demand to incentivise industry to invest in
wide commercialisation

Development in stages and testing of innovative ideas under **real
world conditions**

Suppliers retain **IPR ownership**,
procurers gains access under limited conditions

Visibility on EU-Level



Further information on PCPs

PCP references (selection)

Modalities and Horizon Annexes

<https://ec.europa.eu/digital-single-market/en/node/69634>

Official EC PCP FAQ

https://ec.europa.eu/newsroom/dae/document.cfm?doc_id=16995

PCP Project List

<https://ec.europa.eu/digital-single-market/en/eu-funded-projects-implementing-pre-commercial-procurements-pcp-or-public-procurement-innovative>

Legal Basis for PCPs

Communication <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A52007DC0799>

Directive 2014/24 <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014L0024>



Georg Vogt



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**Join Follower
Network!**

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