



SPACE4Cities Call for Tenders Results & Phase 1

Ari Kaukiainen
18.6.2025



This project has received funding from the European Union for the Space Programme Agency (EUSPA) via the Horizon Europe research and innovation programme under grant agreement No. 101131955.

SPACE4Cities in Short

Pre-Commercial Procurement project, funded by Horizon Europe

- Method for public sector procurers to buy R&D from several suppliers.
- Budget 5.2 M€, **incl. 2.87M€ budget for SMEs/suppliers**

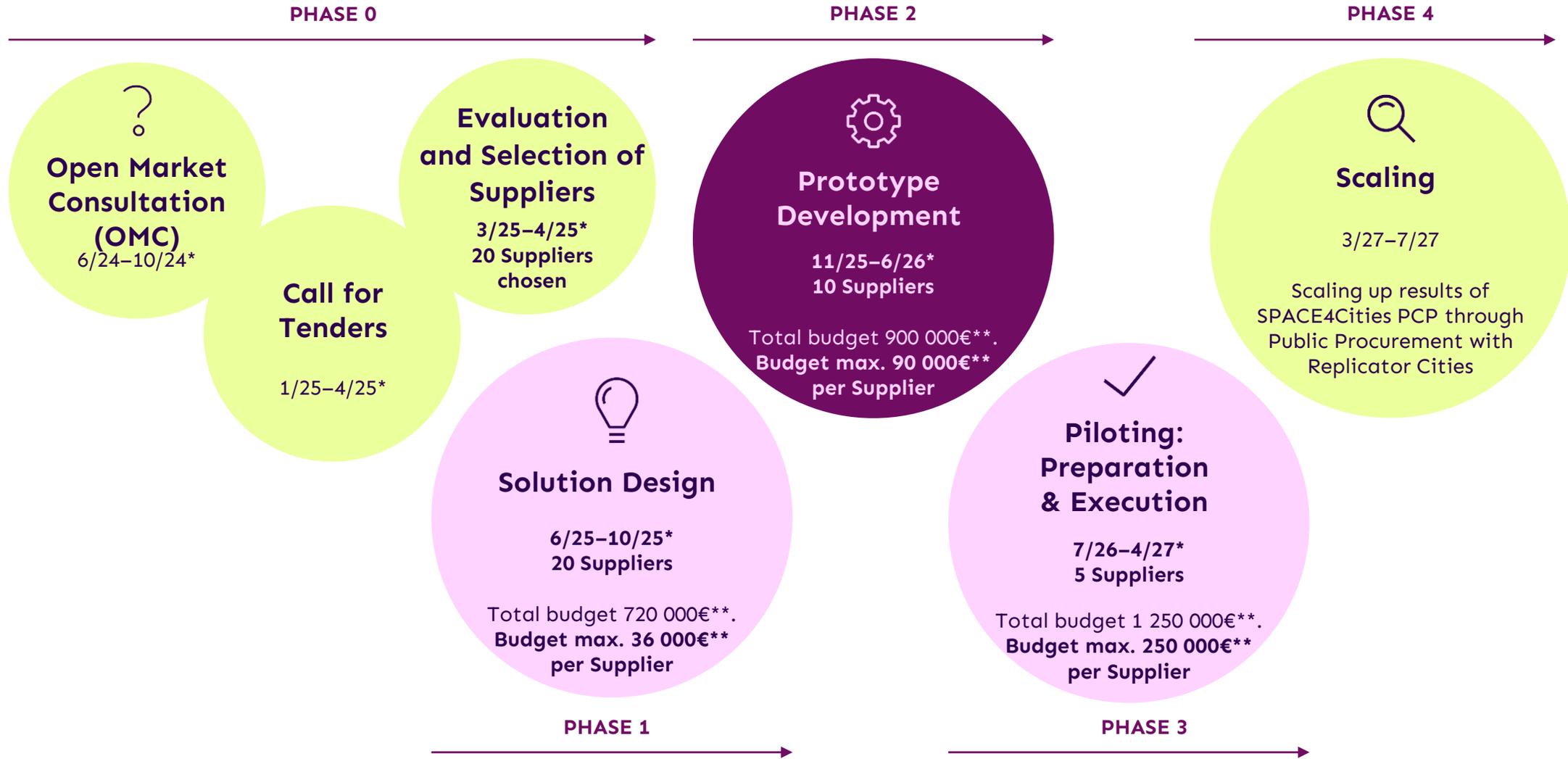
Timeline 42 months: February '24 to July '27

Piloting by the Buyers Group in '26 and '27

- In 5 partner cities around Europe
- Smaller pilots in up to 10 replicator cities chosen by OASC

Name & Role	Location
Forum Virium Helsinki Coordinator, Buyers' group	Helsinki, Finland
Aerospace Valley Expert partner	Toulouse, France
Municipality of Amsterdam Part of the Buyers' group	Amsterdam, Netherlands
Regional Development Fund of Attica Part of the Buyers' group	Athens, Greece
District09 Part of the Buyers' group	Ghent, Belgium
Municipality of Guimarães Part of the Buyers' group	Guimarães, Portugal
Open & Agile Smart Cities Part of the Buyers' group	Brussels, Belgium

Pre-Commercial Procurement Process



(*) Dates, number of suppliers and budget are indicative until the Call for Tenders is published.

(**) Financial figures are VAT 0%. Total maximum budget per supplier 376 000€.

Three SPACE4Cities Challenges

Objective of solving presented Challenges is enabling European cities to manage urban spaces dynamically over time utilising satellite data.

Suppliers are required to use Copernicus EO and/or Galileo GNSS data/services as part of their proposed solutions.

Buyers' Group cities offer local & national open data sources to be used by Suppliers. More specific satellite data from ESA and EUSPA (Copernicus Contributing Missions data) being negotiated.

Sustainable mobility

- Active Mobility
- Public Transportation
- Public space and logistics management
- Accessibility of infrastructure
- Drones in urban environments

Climate Resilience

- Climate Resilience
- Environmental Risk Modelling & Prediction
- Dynamic Emissions & Air Quality Management
- Energy Transition
- Green Cities

Urban Planning & Management

- Digital City Models & Data Inventories
- Policy simulation



SPACE4Cities Call for Tenders Results

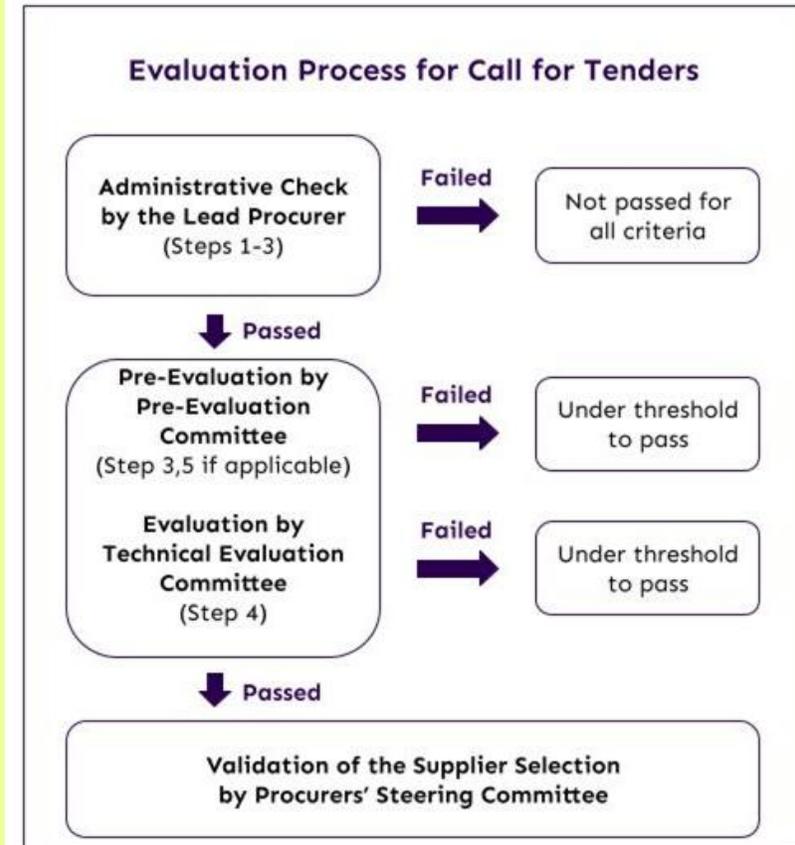
15.1. - 9.4.2025



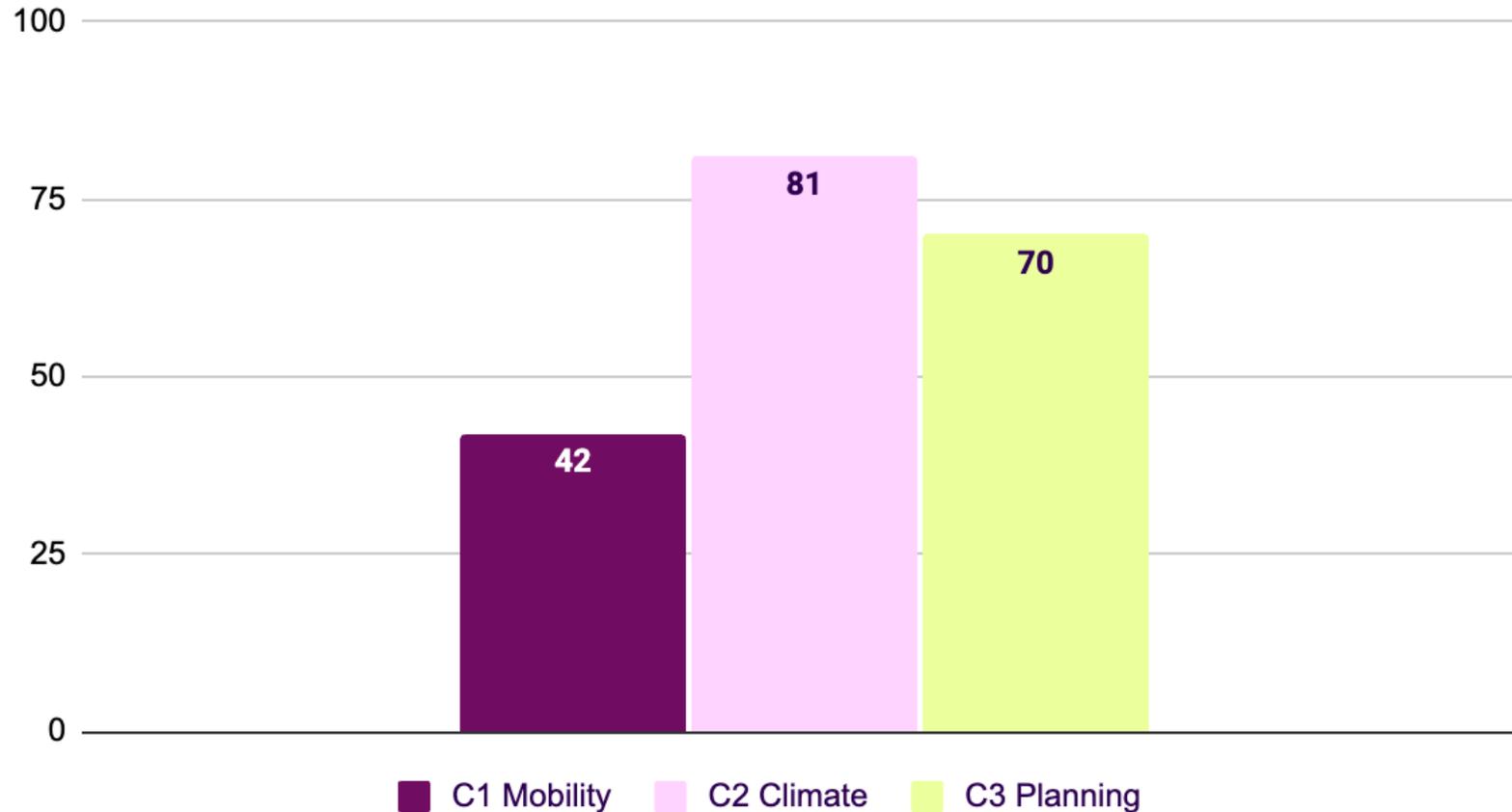
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SPACE4Cities Call for Tenders 15.1.-9.4.2025

- 141 Tenders received, 5 rejected in Admin Check
- Pre-Evaluation was held to reduce 136 Tenders to 60 for Technical Evaluation.
- Top-20 Tenders from Technical Evaluation were awarded with contracts.
- Anonymous evaluation. Evaluators did not evaluate Tenders from their countries.
- Innovation Catalogue and Report on Evaluation and Selection published as deliverables.

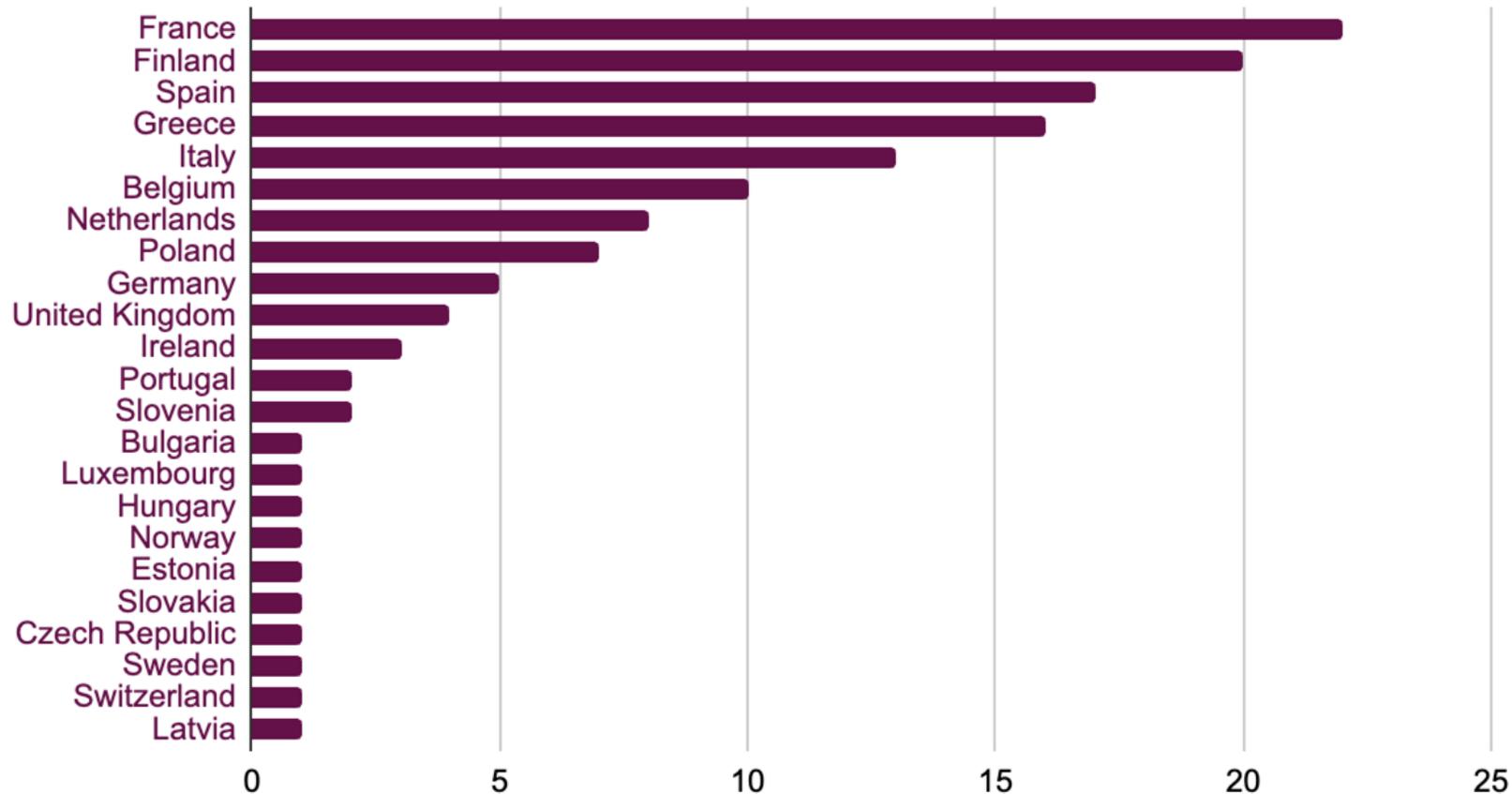


Challenges addressed by Tenderers



Tenderers were not limited to addressing a single Challenge.

Number of Tenders (136) received per country

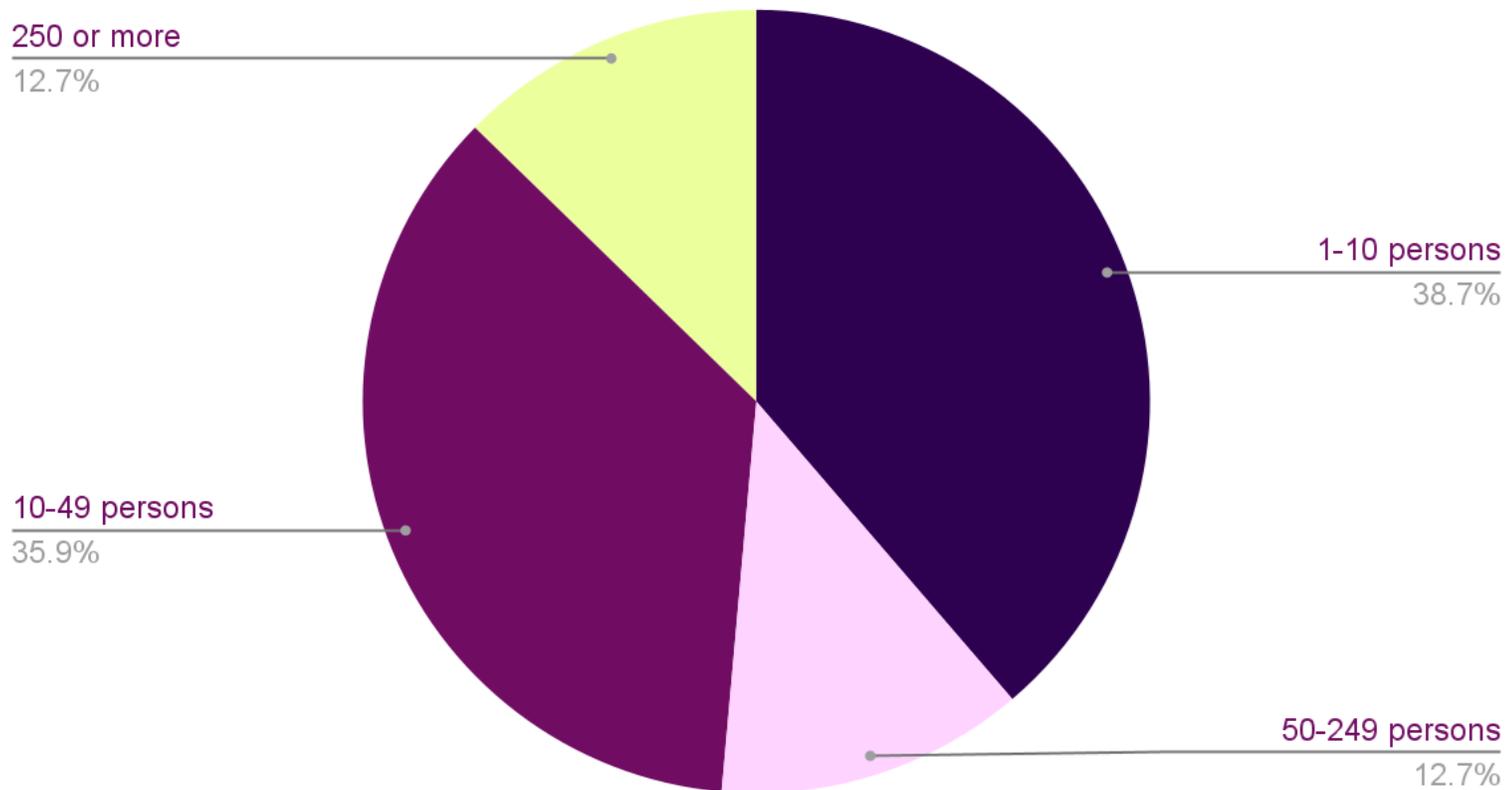


Based on country of Lead Tenderer.

LT countries of origin correlate strongly with country-specific OMC participation levels.

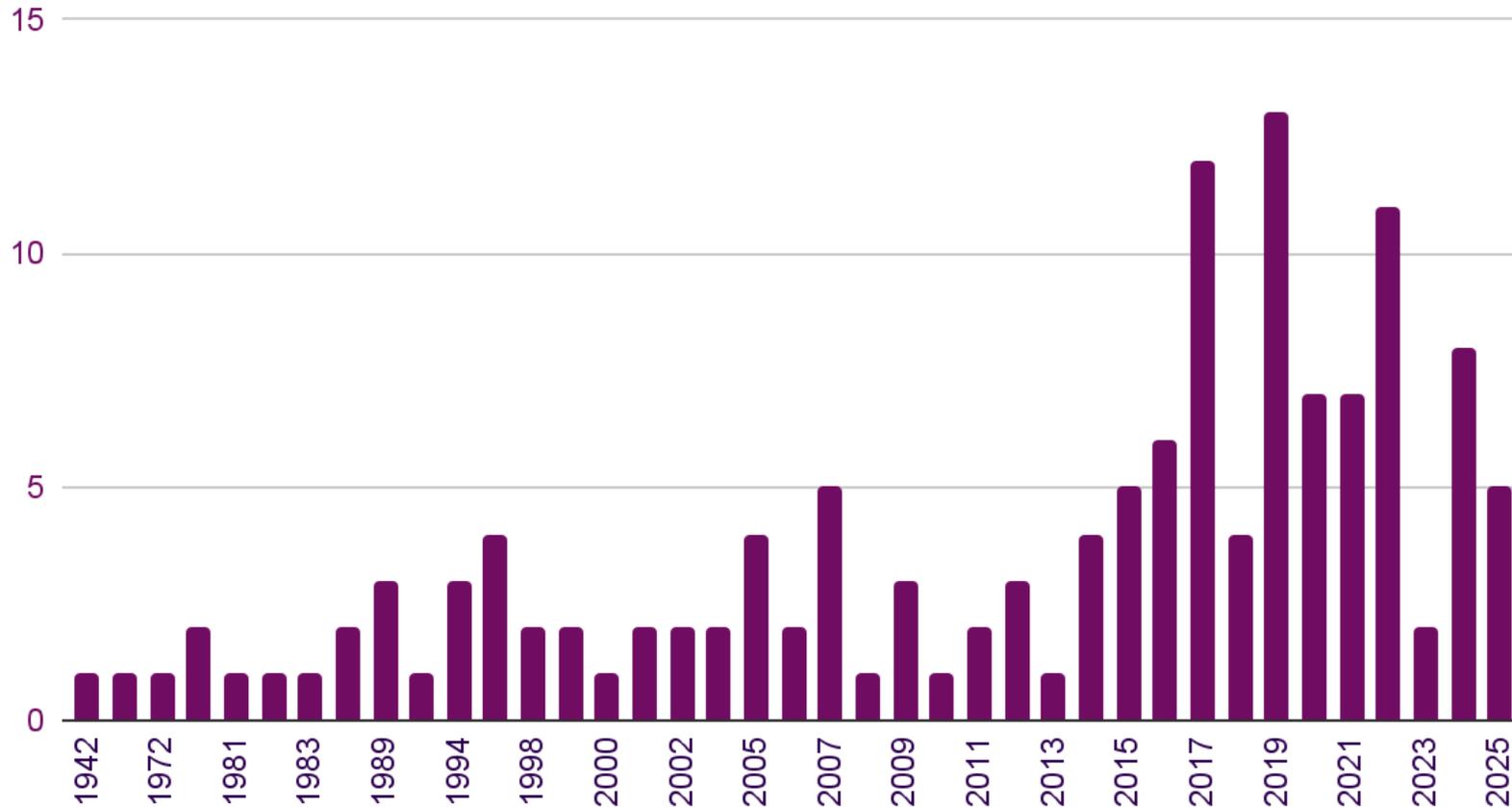
Sizes of Tendering organisations

Size of tenderer organisations



SMEs and micro-sized companies make up 74,6% of Tenderers.

Founding year of Lead Tenderer organisation (136)





SPACE4Cities Top-20 Tenders

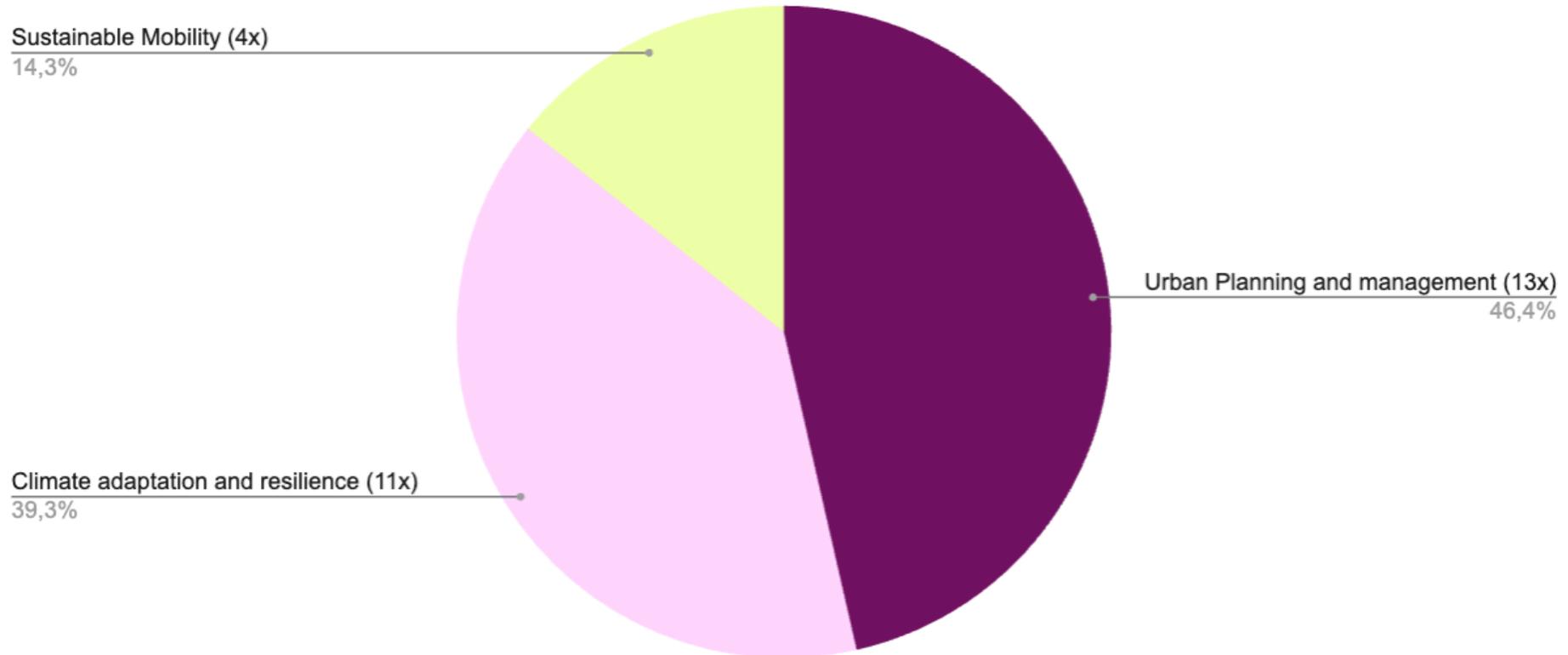


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Top-20 Tenders awarded with Phase 1 contracts

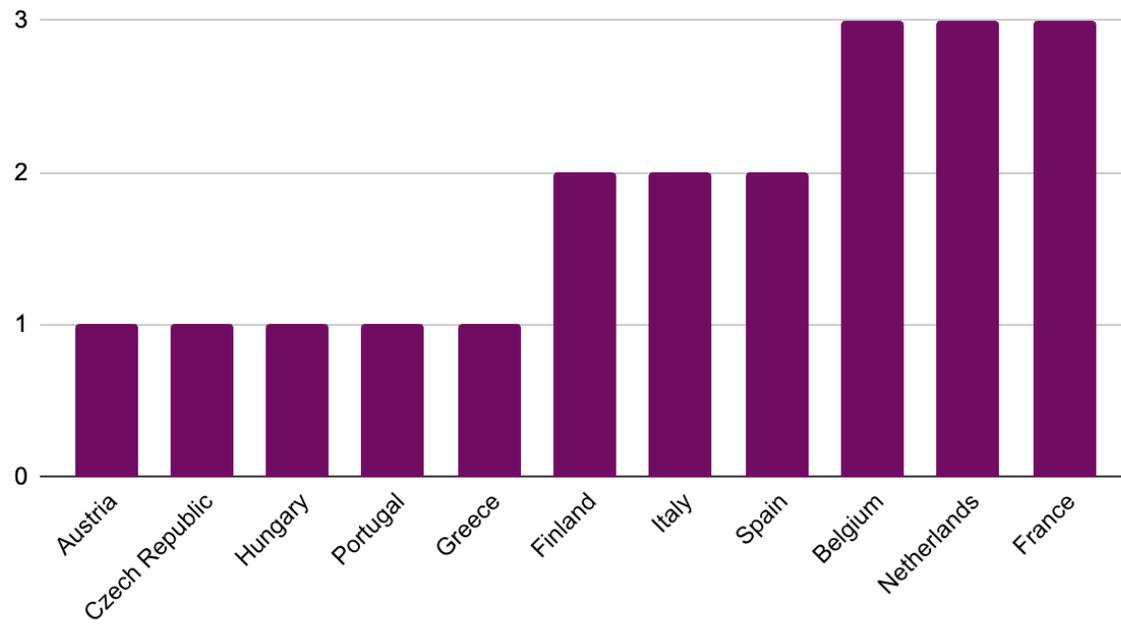
Rank	Name	LT Country
1	GeoRisk Manager	The Netherlands
2	Urban Energy Scan	Hungary
3	DYNAMO-SM	France
4	UMIS	Belgium
5	CLIMAPS	Italy
6	CityMotion	Spain
7	VISTA	Belgium
8	AI-WUIFIRE	Spain
9	ZIM - Zoning Impact Mapper	Finland
10	CIRUS	Austria
11	UrbanROOTS	Portugal
12	FLOODGUARD	Greece
13	CGI Nederland B.V.	The Netherlands
14	Flow DT	Belgium
15	City Elevation Monitor	The Netherlands
16	CHERISH	France
17	OPTIM.AIZE	France
18	URBAN LENS	Italy
19	FUSECITY	Finland
20	CICADA	Czech Republic

Challenges addressed by the Top-20

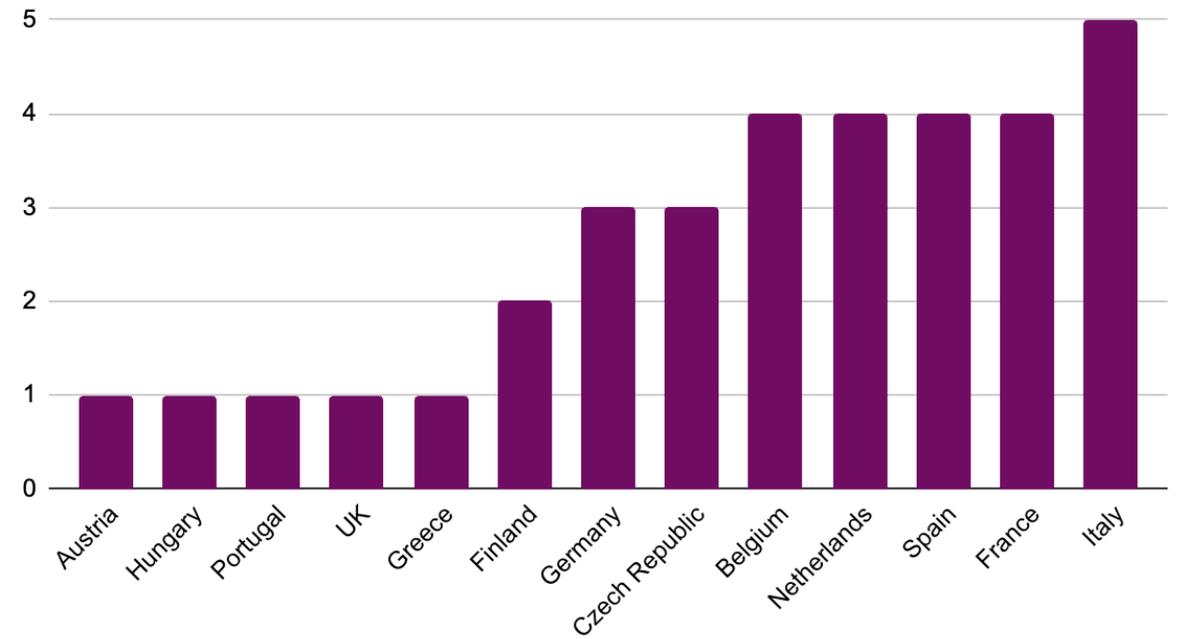


The Top-20 categorised by countries

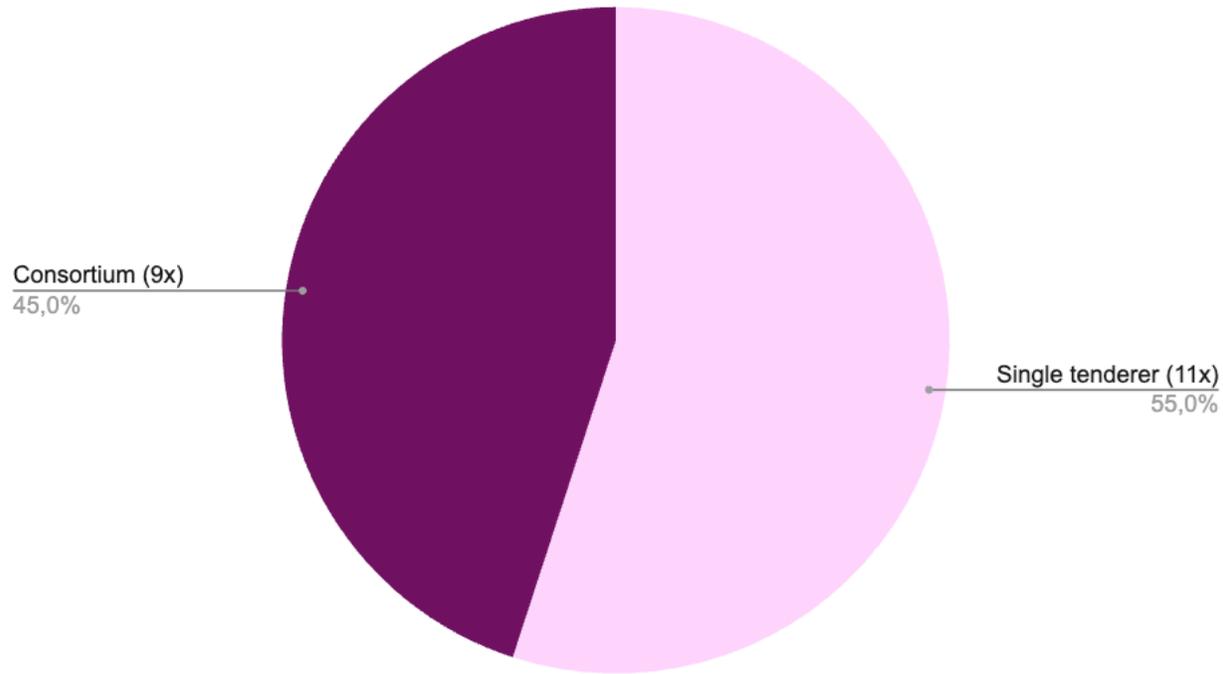
Countries Lead Tenderers



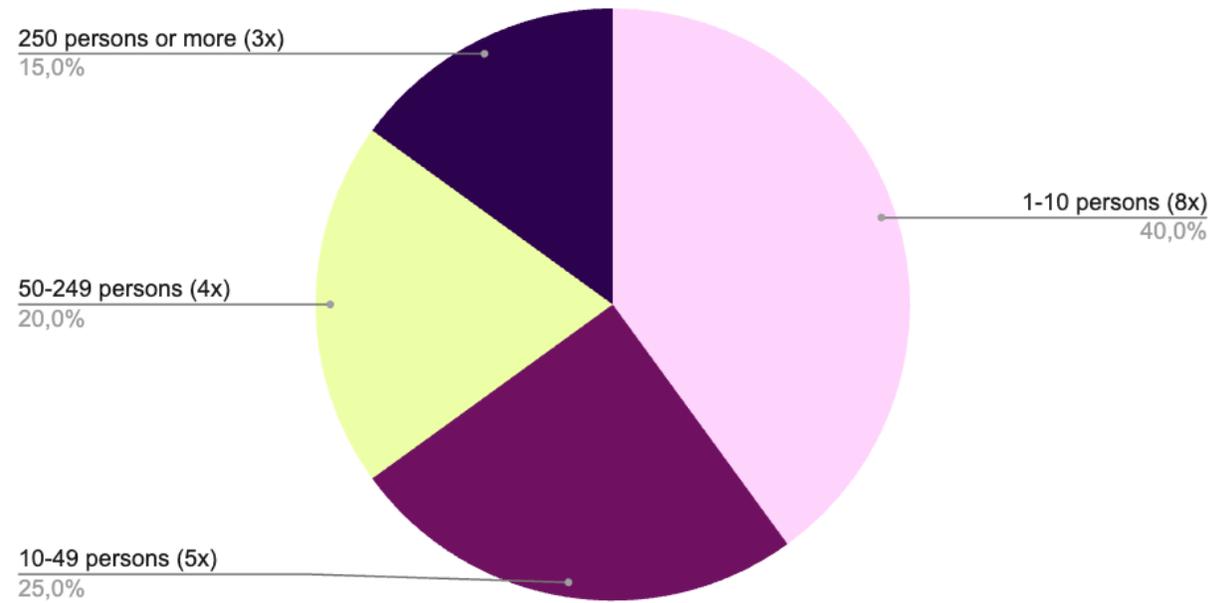
Countries of all 38 involved companies (incl Lead Tenderers)



The Top-20: Consortia/Single tenderer + Sizes



Number of staff Lead Tenderers



Supplier Feedback

- The main reasons for not submitting a Tender were SPACE4Cities budget sizes and the scope being outside of prospective Tenderers' core business.
- The tendering process was found to be somewhat easy, with improvement suggestions being mainly on making tender documentation less heavy.
- Out of the supportive resources, webinars were found to be most helpful. Q&A and interactions with questions@space4cities.eu were received mainly positively with some improvement suggestions.
- Matchmaking support and LinkedIn community had only limited value for Tenderers. Two consortia were reported (based on responses) to have formed through S4C matchmaking.



Finnish Tenders awarded with Phase 1 contracts



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Zoning Impact Mapper

Avoïn Map Oy

1-10 persons, founded 2020

ZIM is the first platform to integrate Copernicus data and AI-assisted zoning impact modelling in one open-source tool. It enables 70-year CO₂e forecasts, biodiversity metrics, and public health indicators from zoning data. Modular, transparent, and scalable across national contexts, it supports Digital Twin integration.

Space data and services used in the solution:

Galileo Open Service

Copernicus Sentinel-1 and -2 data

Copernicus Climate Change Service (C3S)

Copernicus Emergency Monitoring Service (CEMS)

Copernicus Atmosphere Monitoring Service (CAMS)

Challenges addressed:

3. Urban Planning & Management

FUSECITY

Zero Gravity Oy

1-10 persons, founded 2019

Partner: Hybrid-Airplane
Technologies GmbH (Germany)

EO data from Zero Gravity's UrbanAI platform identifies urban heat islands and emission hotspots. TEDAT balloons from Hybrid-Airplane Technologies GmbH then collect high-resolution, altitude-specific data—such as temperature, humidity, noise, and 5–50 cm thermal imagery—over identified hotspots. This data is fused into 3D microclimate models for use in climate adaptation, urban planning, and traffic management. The system is modular, mobile, EO-triggered, and easily integrated into city dashboards—empowering smarter, greener, and more responsive urban governance across Europe.

Space data and services used in the solution:

Copernicus Sentinel-3, -5, and 5P data

Copernicus Atmosphere Monitoring Service (CAMS)

Challenges addressed:

1. Climate Adaptation &
Resilience



SPACE4Cities Phase 1 - Solution Design

June - October 2025



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Phase 1 Activities

Suppliers will perform research to elaborate and refine your solution design and determine the approach to develop the new solution.

Main goal is to demonstrate the technical, financial and commercial feasibility of the proposed concepts and approach to meet the procurement need.

- The main development work will be conducted in Phase 2.
- Monitoring teams consisting of Buyers' Group members assist Suppliers in their work.
- In-person meeting in Amsterdam on 2.-3.9. Suppliers present their End-of-Phase report and submit Phase 2 offers for evaluation.



Capacity-Building Webinars in June 2025

Theme	Date	Time
Infrastructure and Ground Monitoring	Wed 25th June	12:00–13.30 EEST
Green Spaces Management	Wed 25th June	14:30–16:00 EEST
Climate Risks in Public Spaces	Thu 26th June	12:00–13.30 EEST
Mobility and Emissions	Thu 26th June	14:30–16.00 EEST

SPACE4Cities organises Capacity-building webinars with Supplier and cities in June 2025. These sessions will showcase five of the twenty solution concepts developed with support from the SPACE4Cities project. Each solution is designed to address urban challenges using satellite and geospatial data.

Participants will have the opportunity to engage with the innovators, ask questions, and offer feedback—helping to shape the relevance and impact of these tools for European cities and communities.

Register to the webinars on space4cities.eu!



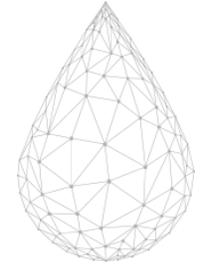
Thank you!



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PCP WISE



Harnessing Earth Observation Technology for European Climate Resilience

Meri Vainio



This project has received funding from the Horizon Europe Framework Programme (HORIZON) under grant agreement N° 101182917

29/04/2025



PCP WISE

- EU-funded project via Horizon Europe Programme
- Builds on the preparatory action from PROTECT project
- 26 partners covering 9 countries
- 12 Public buyers and 14 support partners
- Duration: 36 months
- Overall budget: €19M
- Project coordination: Barrabés
- Lead buyer: hetWaterschapshuis





Climate Change on Water Resilience

- Climate Change in the last decades has a huge impact on our daily lives and forces us to **be better prepared** or resilient for extreme events as a result of this.
- Climate resilience could be defined as the **ability to anticipate, prepare for, and respond to hazardous events**, trends, or disturbances related to climate.
- A relevant portion of hazards in Europe is **water related**. To be more precise they are related to non regular water availability & spatial water distribution.
- In this presentation the **PCP WISE programme is positioned to support local actors** to build and work on climate change related water resilience



PCP-WISE in a nutshell

PCP-WISE is an innovative project aimed at **developing cutting-edge solutions (up to TRL 8) for water management** and climate resilience across Europe using the **Pre-Commercial Procurement (PCP) instrument**. By leveraging **space technology and Environmental observation data**, PCP-WISE seeks to address critical challenges related to **floods, fires, and infrastructure impacts both in rural and urban areas**. This collaborative effort brings together public buyers, research institutions, and industry experts to create and implement advanced climate services that will **enhance Europe's ability to adapt to and mitigate the effects of climate change**.





Project Objectives

1

Innovative Solutions

Develop and test state-of-the-art technologies for climate adaptation using space and Earth observation data

2

Cross-Border

Collaboration

Foster cooperation between regional water management, cities, communities, and crisis organisations across EU Member States

3

Enhanced Information

System

Create common operational information products on local and regional water, soil, and climate systems to improve decision-making

4

Demand-driven

Approach

Establish an active user network for exchange, validation, and continuous improvement of climate services through the PCP approach



Earth Observation and Climate Services

Satellite Data Integration

PCP-WISE leverages data from Earth observation satellites to monitor key environmental variables such as soil moisture, temperature, and precipitation patterns.

Hydrological Modeling

Advanced hydrological models combine satellite data with ground measurements to provide accurate assessments of water balance and predict potential risks.

Climate Scenarios

The project incorporates climate change scenarios to simulate and improve threshold criteria for water-related risks, enhancing long-term planning capabilities.

User-Friendly Interfaces

Climate services developed through PCP-WISE will feature intuitive dashboards and tools, making complex data accessible to decision-makers and stakeholders.



Expected impacts



Scientific Impact

Advanced soil-water balance insights based on space information

Long-term event forecasting for water and crisis management

Contribution to Earth observation systems and climate science

Economic Impact

Cost savings through improved risk prevention and mitigation

New business opportunities in climate services sector

More efficient resource allocation in water management

Societal Impact

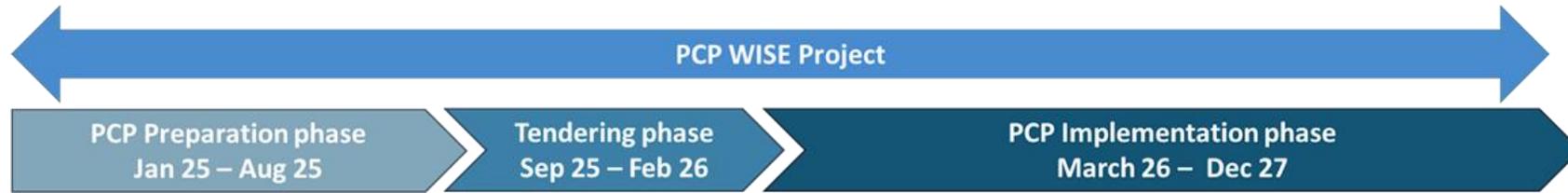
Enhanced climate change preparedness for communities

Increased resilience of urban and rural areas to climate risks

Improved public safety through better crisis response

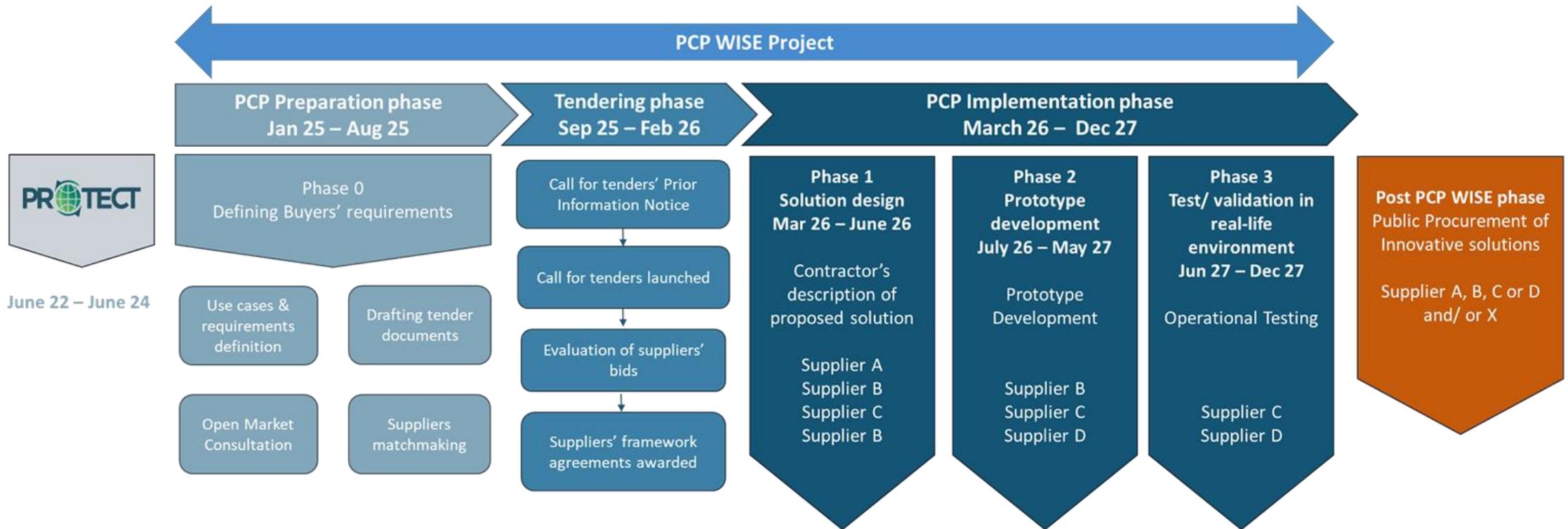


Project Timeline & PCP process





Project Timeline & PCP process





Climate challenges & Hydrology

1 FLOODS CHALLENGE

Rapid mapping, predicting, preventing different types of floods and improving coordination efforts, relevant to marine and coastal environments, sustainable cities and civil protection and security agencies.



2 FIRES CHALLENGE

Predicting, preventing fires, tracking and tracing causality (causers) in different scenarios (waste, forest/nature, other), relevant to environmental agencies, sustainable cities, agriculture, forestry and land use, as well as for civil protection and security agencies.



3 WATER CHALLENGE

Climate resilient solutions for predicting, connecting data, planning, supply-demand, relevant to the application domains marine and coastal environments, energy and utilities, sustainable cities, agriculture, forestry and land use, as well as for civil protection and security agencies.



4 INFRASTRUCTURE CHALLENGE

Sustainable and resilient re-development, restoring & adaptation of existing neighbourhoods, relevant to sustainable cities and regions, energy and utilities and civil protection and security agencies.



The overarching challenge is to control & manage our

'soil-water-vegetation'
system

to prevent extremes &
improve water distribution

What can PCP WISE do for you?

Instruments for enhanced climate resilience

The Challenge

Water-related crises fueled by climate change (flooding, wildfires, droughts, degraded water quality, soil subsidence) are calling for urgent governments' response.

The Levers

Pre-Commercial Procurement Environmental Observation data Climate adaptation policies and strategies

The Solution

A smart, versatile and cross-border soil-water-vegetation intelligence warning, management and monitoring systems for both rural and urban areas tailored to end-users' needs.

Northwest & Central Europe

Rural Drought



These regions are dealing with rural problems related to extremes in local climate variations (intensive rainfall) and enduring drought periods having impact on seasonal processes in agriculture/nature and excesses like wildfires and production losses or even failure. Here as opposed to South of Europe it is in general not structural lack of water availability but more a distribution problem of water

Northern Europe

Rural Drought & Flooding



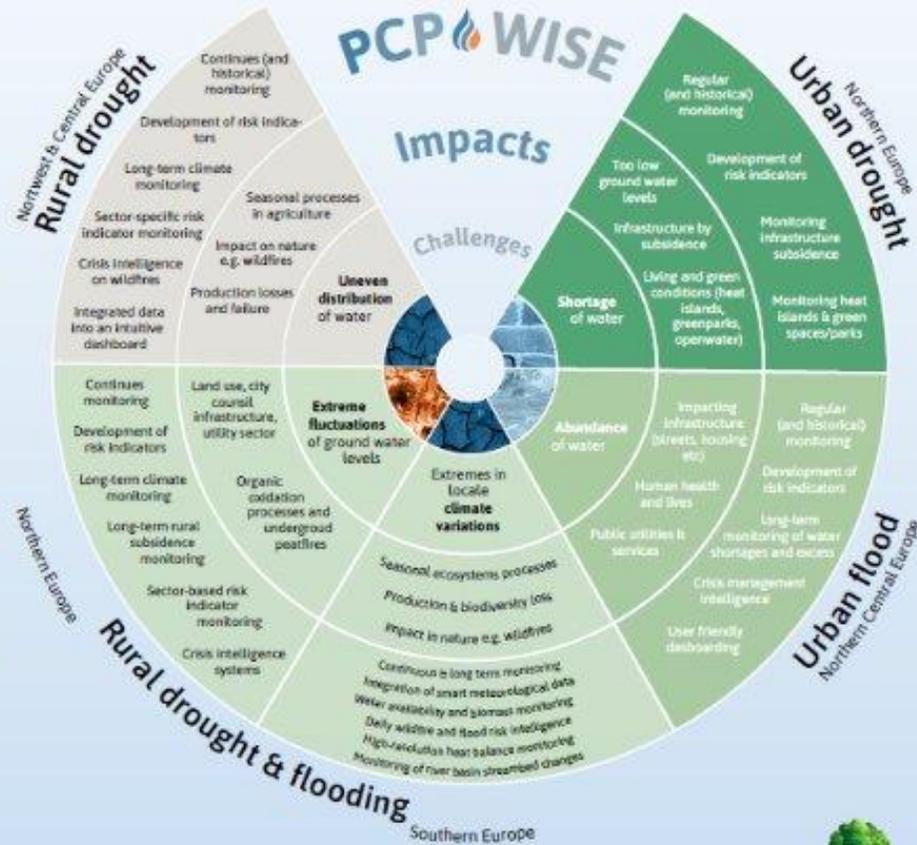
Dealing with rural problems due to extremes in low and high (or so-called shallow) groundwater conditions resulting in all kinds of problems for the land use, city council infrastructures, utility sector. A common issue is that due to subsidence and uprise of the soil surface during the season (high fluctuations in height difference, hysteresis) and over the years/decades (structural lowering of soil surface). These (extreme) soil moisture conditions in particularly peat (combined with clay/sand) profiles can cause organic oxidation processes and even underground peat fires!

Southern Europe

Rural Drought & Flooding



Dealing with rural problems related to extremes in local climate variations (intensive rainfall) and enduring (structural/over the years) drought periods in the Southern European regions having impact on seasonal processes in agriculture/nature and excesses like wildfires and production losses or even failure



Northern Europe

Urban Drought



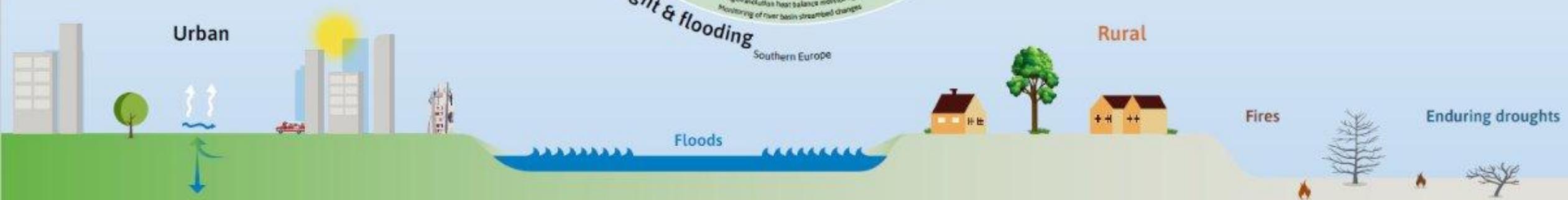
Dealing with Urban problems in the local city context in terms of spatial waterdistribution in the city underground due to all kind of human and external (regional, climate) factors. The focus is on dealing with the shortage of water due to problems of (local) waterstorage, infiltration, evapotranspiration, etc. causing too low groundwater levels, impacting infrastructure by subsidence (streets, housing, critical infrastructure like utility sector, etc) or living and green conditions (heat islands, greenparks, openwater)

Northern Central Europe

Urban Flood



Dealing with Urban problems in the local city context in terms of spatial waterdistribution in the city underground due to all kind of human and external (seepage, sealevel rise, etc) factors. The focus is on dealing with abundance of water due to problems of (local) waterstorage, infiltration, etc. impacting infrastructure (streets, housing, critical infrastructure like utility sector). Mostly the context (riverbasin region) of the city has additional (in)direct impact on the basic city water conditions.





Urban and Rural usecases (Flood & Drought) 5 groups

Urban		Rural	
G1: Helsinki (F)	D & F	G3: Kalmthout (B/NL)	D
Rotterdam (NL)	D & F	Danube Bratislava Area (Sk)	D & F
Haarlem (NL)	D & F	G4: Catalunya (Sp)	D
G2: SK:Bratislava Slovakia (SK)	F	Central Macedonia (G)	D & F
Helsinki (F)	F & D	G5: Lemvig living Lab (Dk)	D
Lemvig, (Dk)	F	HDSR-Utrecht (NL)	D
Lower Saxony (G)	F	Lower Saxony (G)	D



Functional Requirements analysis (General)

- **Urban Regular:** Management/measures: water, infra, green, heat, energy, etc
- **Urban Crisis:** Risk reduction/measures, Risk priorities/crisishandling
- **Urban Climate:** Evaluation/measures (LT), adjustment/hindsight, scenario/forecast

- **Rural Regular:** Management/measures: water-soil, nature, agriculture, etc
- **Rural Crisis:** Risk reduction/measures, Risk priorities/crisishandling
- **Rural Climate:** Evaluation/measures (LT), adjustment/hindsight, scenario/forecast



Call for Tenders

September 2025





PCP phases: number of contractors, duration and budget

PCP Phase	Contractors	Duration	Budget per contractor	Total Budget
Phase 1	5	4 months	300.000,00 €	1.500.000,00 €
Phase 2	3	11 months	2.400.000,00 €	7.200.000,00 €
Phase 3	2	6 months	1.532.669,40 €	3.065.338,80 €
			Total	11.765.338,80 €



Join the PCP WISE Community Platform



- **Stay in the loop:** Get the latest updates with daily digests, event alerts, and curated learning resources.
- **Connect and collaborate:** Schedule meetings or start chats with PCP WISE Buyers and like-minded suppliers from the community.
- **Showcase your strengths:** Create a standout supplier profile to highlight your company, technologies, and innovative solutions — and grow your network.
- **Join the conversation:** Take part in interactive online events and activities to support the scale-up, replication, and uptake of the PCP WISE innovation solutions