Get Ready: AI4Cities Bootcamp

Info Webinar 3.9.

AI4CITIES

Get Ready: AI4Cities Bootcamp Info Webinar

09:00   Webinar starts
→   Agenda and practicalities
→   AI4Cities project introduction
◆   *Kaisa Sibelius, Forum Virium*
→   Get Ready: AI4Cities Bootcamp Introduction
◆   *Hannu Latva-Rasku & Satu Huotari, Industryhack*
→   Q&A
11:00   Webinar ends (at the latest)

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Bootcamp timetable

24.8.-11.9.	Accepting requests to participate
3.9.	Bootcamp Info Webinar
8.9.	Bootcamp Matchmaking
Week 38	Announcing participants
23.9.	Co-creation day: Mobility
24.9.	Co-creation day: Energy
December	PCP Matchmaking (after the PCP application period opens)
January	Coaching Webinar (during the PCP application period)

All Bootcamp events will be organized online

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Matchmaking

09:00 CET   Start of session, introduction
- Pitching starts

10:30 CET   Pitching ends at latest
- next steps

Reserve time for talks with potential partners and filling common request to participate.

For who: If you are interested in participating in the Bootcamp, but don't have a team, you can participate in the Matchmaking event. Only for those looking for a team.

What: In the event anyone interested can pitch who they are, what relevant skills and knowledge they have and what are they lacking. Also the preliminary approach to the challenges can be relevant in forming teams. Everyone will have 2-3 minutes for their pitch depending on the number of participants

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Co-creation days

08:00 CET	Welcome session
08:15 CET	Mentoring starts
12:00 CET	Lunch break
15:30 CET	Mentoring ends
15:50 CET	Ending session

Mobility 23.9., Energy 24.9.

Exact times TBC

For who: Selected participant teams, who have send their request to participate from before deadline. Those interested to get feedback on their solution proposal.

What: Teams will have 1-on-1 sessions with selected city mentors and AI experts, with whom they can discuss and develop their proposed solution.

Day will include short welcome and ending sessions, lunch break and short breaks between mentoring sessions. Exact timetable will be sent to selected participating teams.

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Co-creation day timetable

DRAFT

	09:20-10:00	10:10-10:50	11:00-11:40	Lunch	13:00-13:40	13:50-14:30	14:40-15:20	15:30-16:10
Team 1	AI							
Team 2								
Team 3	City							
Team 4								
Team 5	City							
Team 6	City							
Team 7								
Team 8	AI		City		City		City	
Team 9		AI			City	City		City
Team 10	City		AI			City	City	
Team 11		City			AI		City	City
Team 12	City		City		AI			City

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Feedback

After the mentoring sessions, all teams are expected to fill out a feedback form about their experiences so far.

If teams choose to submit their **solution draft at the same time, they will receive written feedback of it.**

Feedback and co-creation coaching is strictly confidential and results of the work belong to you.

PCP Matchmaking

Similar event as the Bootcamp Matchmaking, but during the PCP application period. You can look for partners with whom to apply for the PCP process.

Complementary to the matchmaking on ai4cities.eu website.

PCP Matchmaking will be held in December (TBC).

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Coaching Webinar

Coaching webinar will be held during the actual PCP application period. This webinar will be targeted more on tips and tricks in writing a good application for the PCP process.

Coaching webinar will be held in mid January (TBC).

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Bootcamp request to participate

Main selection criteria:

- Key capabilities
- Initial idea/solution
- Motivation to participate, commitment

We look to involve those teams whose solutions look promising and who would most benefit from coaching. This can mean that teams, who are seen as ready for the actual PCP, can be left out.

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Q&A

AI4Cities has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 871914.

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AI4Cities
Info Webinar, Get Ready - bootcamp

3.9.2020   - Project Coordinator Kaisa Sibelius

AI4Cities - AI accelerating Cities transition to carbon neutrality

I.   **AI4Cities project**
II. **PCP - Pre-commercial Procurement**

This webinar is part of the Open Market Consultation phase.

Duration: 36 months
(1.1.2020 – 31.12.2022)

Funding instrument:
Pre-commercial procurement
(PCP)

PCP Budget:
4.670.000€
Total Budget:
6.600.000€

City of Stavanger

Forum Virium
Helsinki
(City of Helsinki)

City of Tallinn

City of Copenhagen

Buyers Group

Expert
partner

Preferred
partners

City of Amsterdam

Cap Digital (Paris Region)

ICLEI – Local Governments for Sustainability

The City Partners are all committed to becoming Carbon neutral

Average emission sources in the cities (example City of Helsinki*)

15% Electricity

56% Heating

24% Trans-portation

5% Other

Copenhagen

Helsinki

Stavanger

Tallinn

Paris Region

Amsterdam (95%)

2020   2025   2030   2035   2040   2045   2050
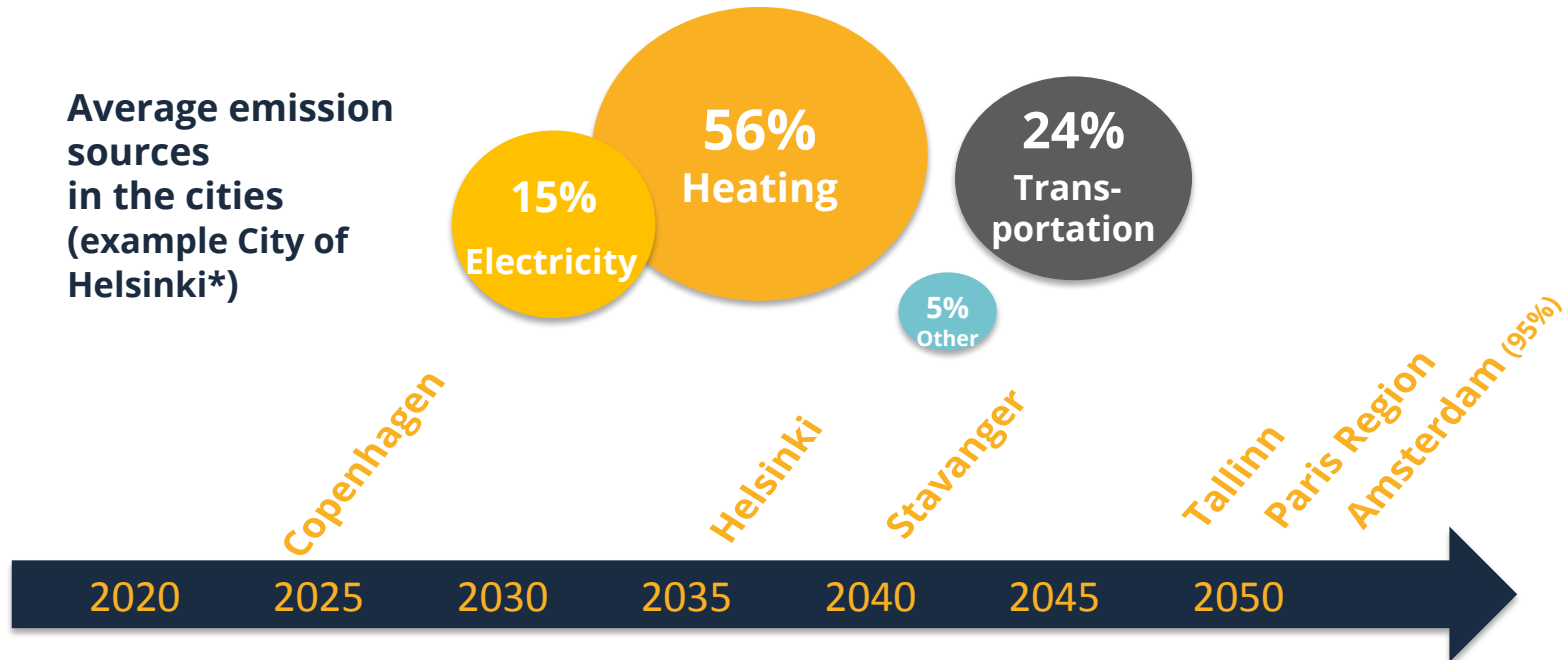
*) Source: Helsinki Region Environmental Services Authority HSY, 2019

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Accelerating CO2 reduction of the cities

Cities' visions of the carbon neutrality

Amsterdam

Stavanger

Paris region

Tallinn

Copenhagen

Helsinki

Mobility (Lot 1)

Energy (Lot 2)

What do we look for?

Unique and innovative digital solutions utilizing AI to able
to help Cities to reduce their CO2 emissions
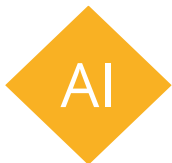in two domains: energy and mobility via a challenge-based PCP competition.

AI4Cities challenges build on **highly innovative and not market-ready technologies**
to bring **added value** for cities' management and decision making.

Key Requirements for the technology

Mobility (Lot 1)   **Energy (Lot 2)**

AI

- Improved effectiveness of the city management through better information
- Benefits from open data provided by the cities
- Economical feasibility and benefiality through optimisation and decreased energy consumption
- Possibility for the integrations to existing city systems if needed (such as public transport, energy network etc).

Who are we addressing?

Companies, developers and consortiums with innovative ideas for innovative or disruptive new digital-based solutions, based on AI & other Emerging Technologies.

Cities and other public procurement organisations, interested in potential take up of the solutions developed within the PCP process.

Others with an interest in promoting entrepreneurship, climate change, reduction of greenhouse gas emissions, etc.

The Pre-Commercial Procurement process

Innovation Procurement in H2020

Through innovation procurement the public sector can drive innovation from the demand side.

- [Pre-Commercial Procurement (PCP)](#) addresses the development and testing of innovative solutions

- [Public Procurement of Innovative solutions (PPI)](#) focuses on the deployment of innovative solutions

Innovation Procurement in H2020

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Pre-commercial procurement

Pre-Commercial Procurement (PCP) **challenges industry from the demand side to develop innovative solutions for public sector needs** and it provides a first customer reference that enables companies to create competitive advantage on the market.

PCP enables public procurers **to compare alternative potential solution approaches** and filter out the best possible solutions that the market can deliver to address the public need.

Focus on Innovation: R&D is at least 50% of the total contract value
Tool to foster EU competitiveness: at least 50% in EU Member States and/or Associated Countries to Horizon 2020

PCP vs. Traditional Public Procurement

| PCP	Traditional procurement
Joint procurement tool: a Buyers group launches the RfT	**Individual procurement tool** - RfT is launched normally by a single department or unit inside the a City
High risk: high degree of innovation and R&D effort required	**Low risk:** Low degree of innovation focused on solutions on (or close to) the market
Functional specifications for prototypes development - focus on medium-/long-term	**Technical specifications for mature product/ service -** addresses immediate/ short-term needs
Competitive development with several contracts to several suppliers	**Single contract: 1 contract to 1 supplier** awarded
IPR – Risk/Benefit-sharing	**IPR** generated
Exemption for R&D services under EU Directives and WTO rules: special legal framework (H2020)	Tendering procedures and legal framework: **national public procurement** rules apply
Development in **multiple phases**	Development in **1 phase**

Key requirements and guidelines

- **Joint Procurement Agreement** between group of Procurers/Buyers
- **Risks and Benefits** of the R&D are **shared between the procurers and the Suppliers**
  - **IPR** retained by suppliers - must be exploited after PCP completion
  - Procurers can **use the solutions royalties free and exploit learnings**
- **Focus on Innovation**: R&D is at least 50% of the total contract value
- **Tool to foster EU competitiveness**: at least 50% in EU Member States and/or Associated Countries to Horizon 2020.
- **Increase Cities capacity** in leading the market to create impact based and innovative solutions
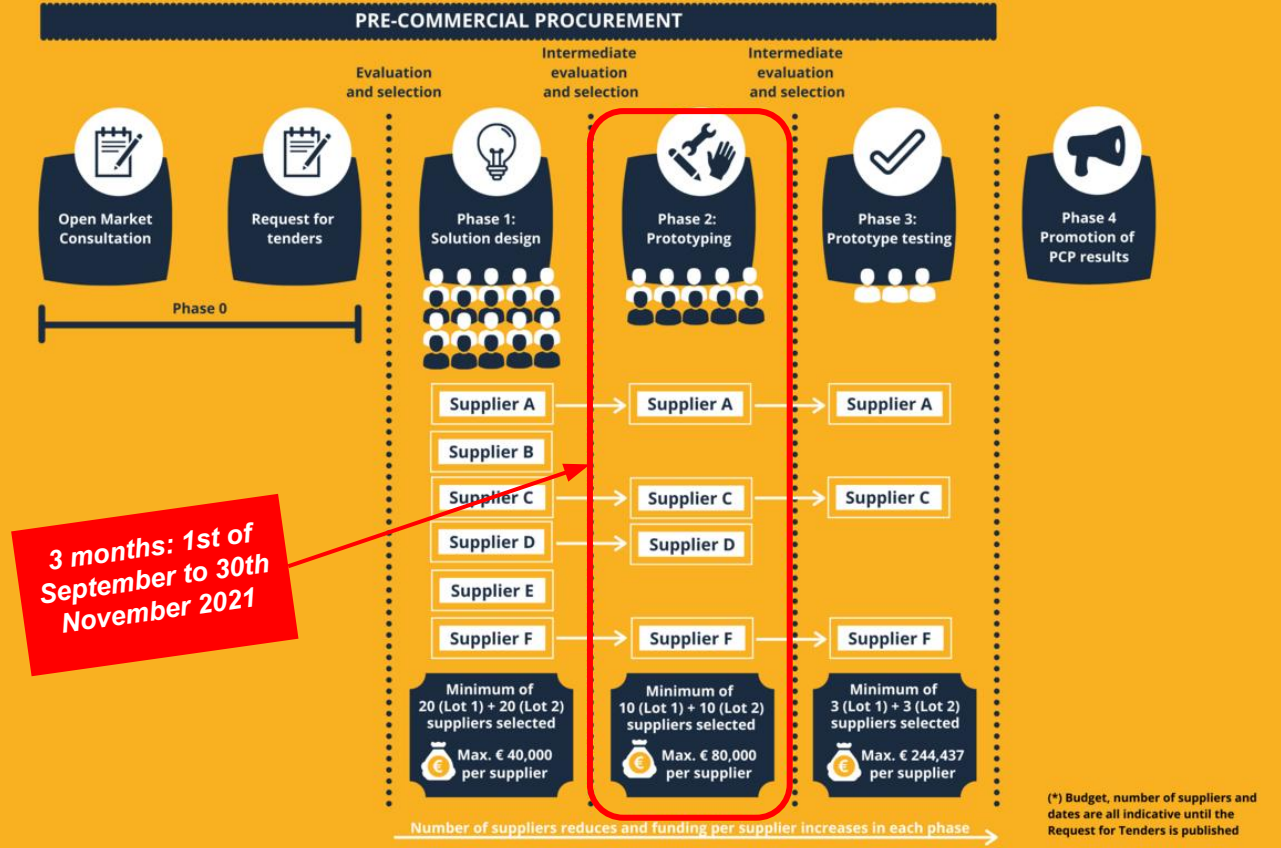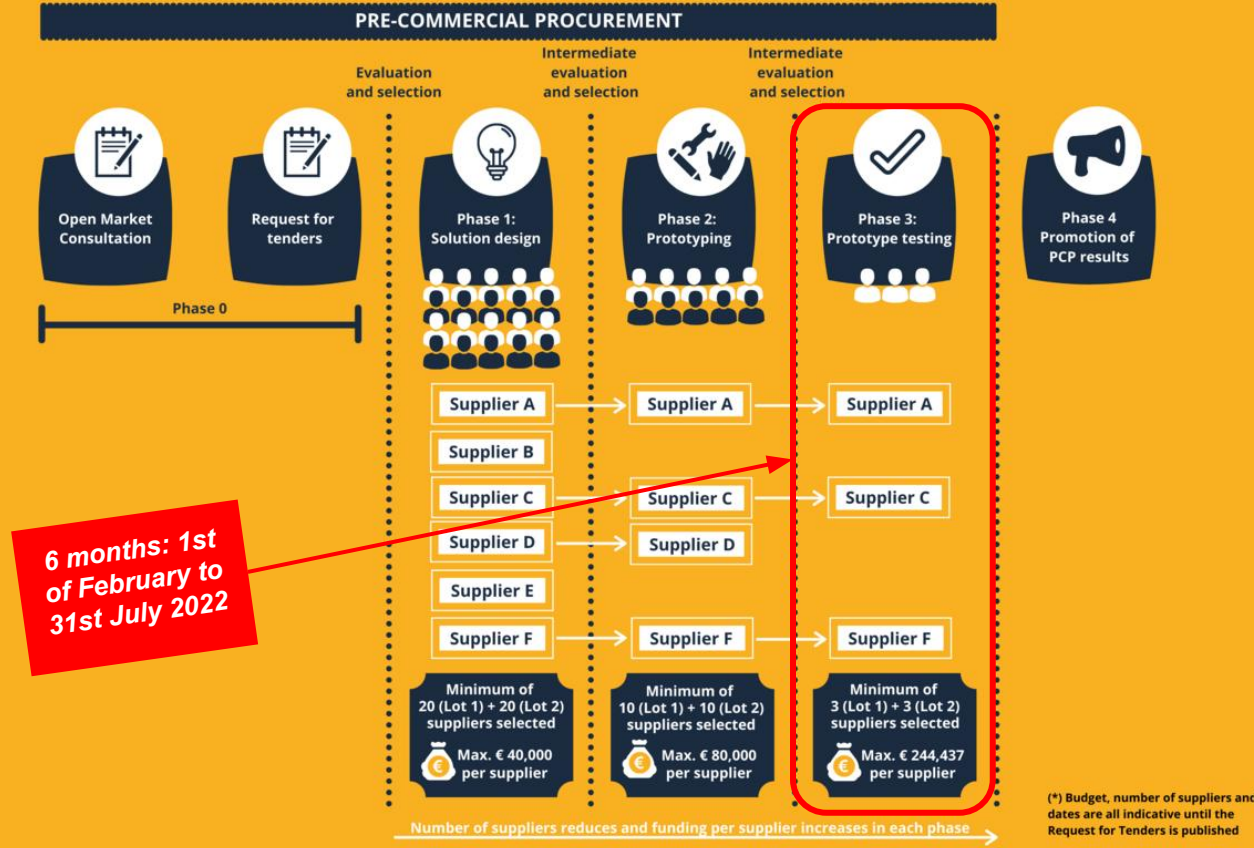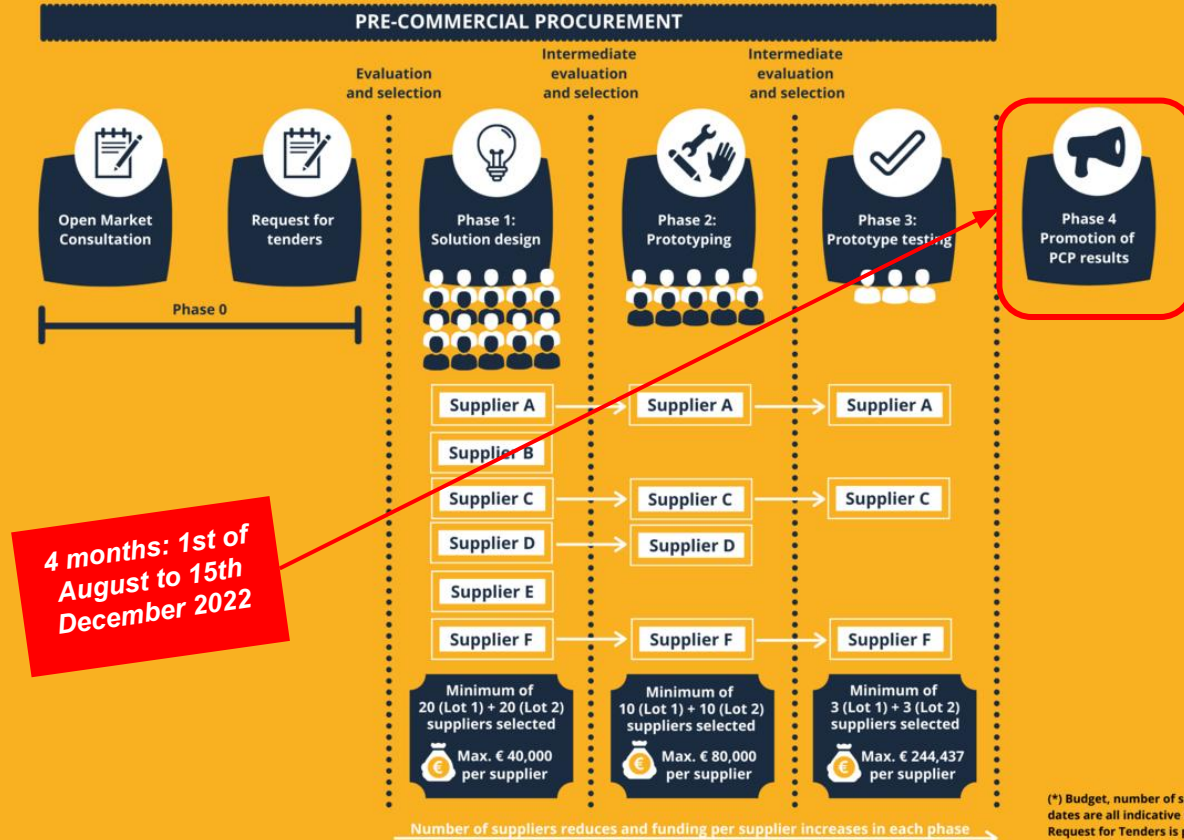
MOBILITY CHALLENGE (Lot 1) & ENERGY CHALLENGE (Lot 2)
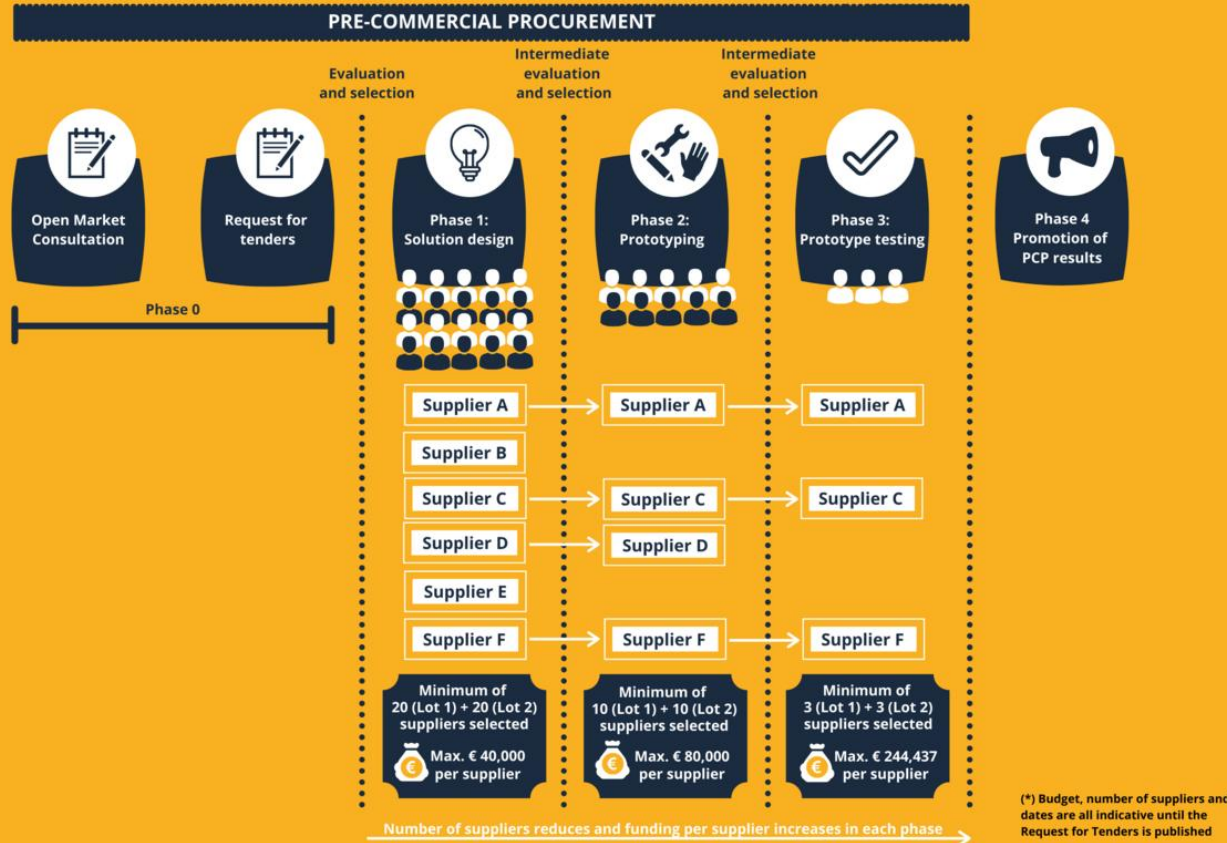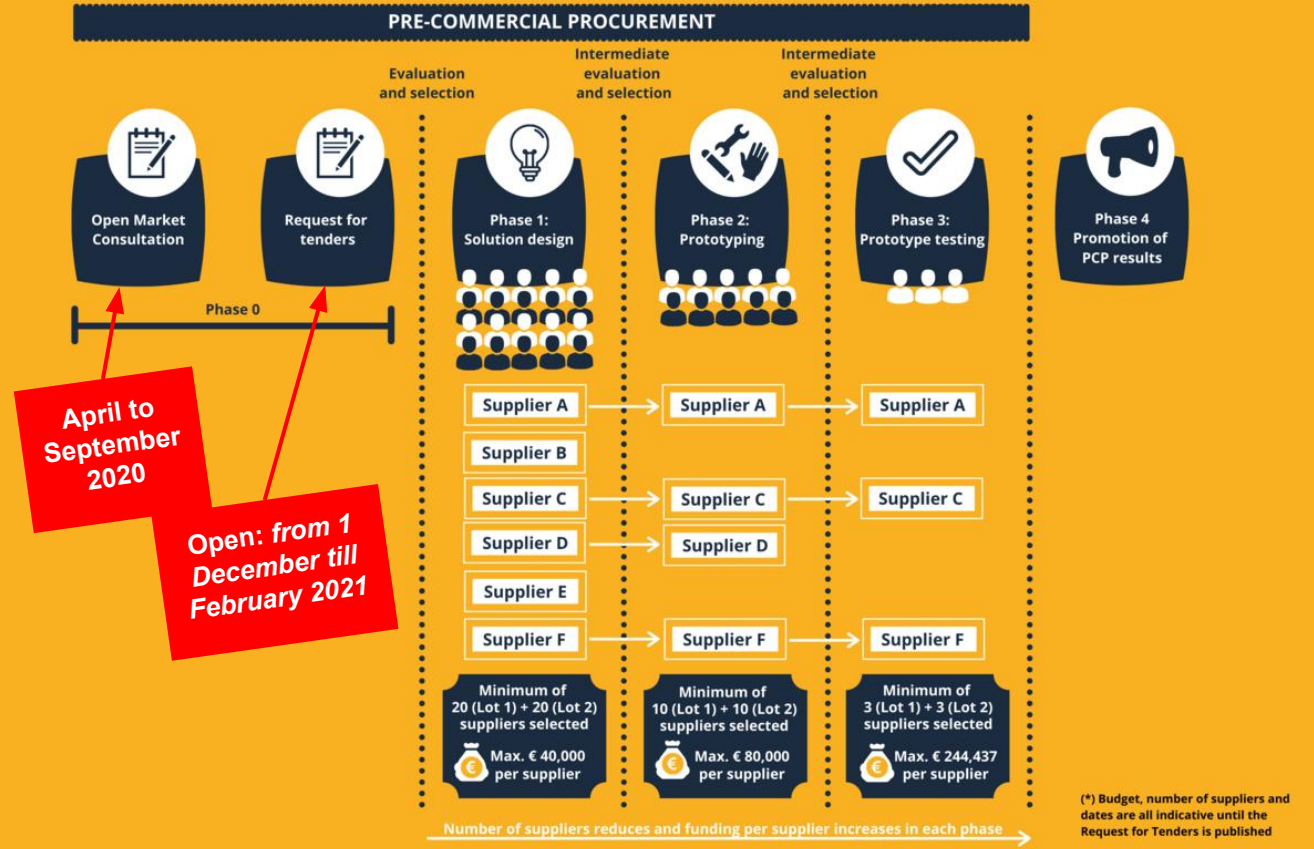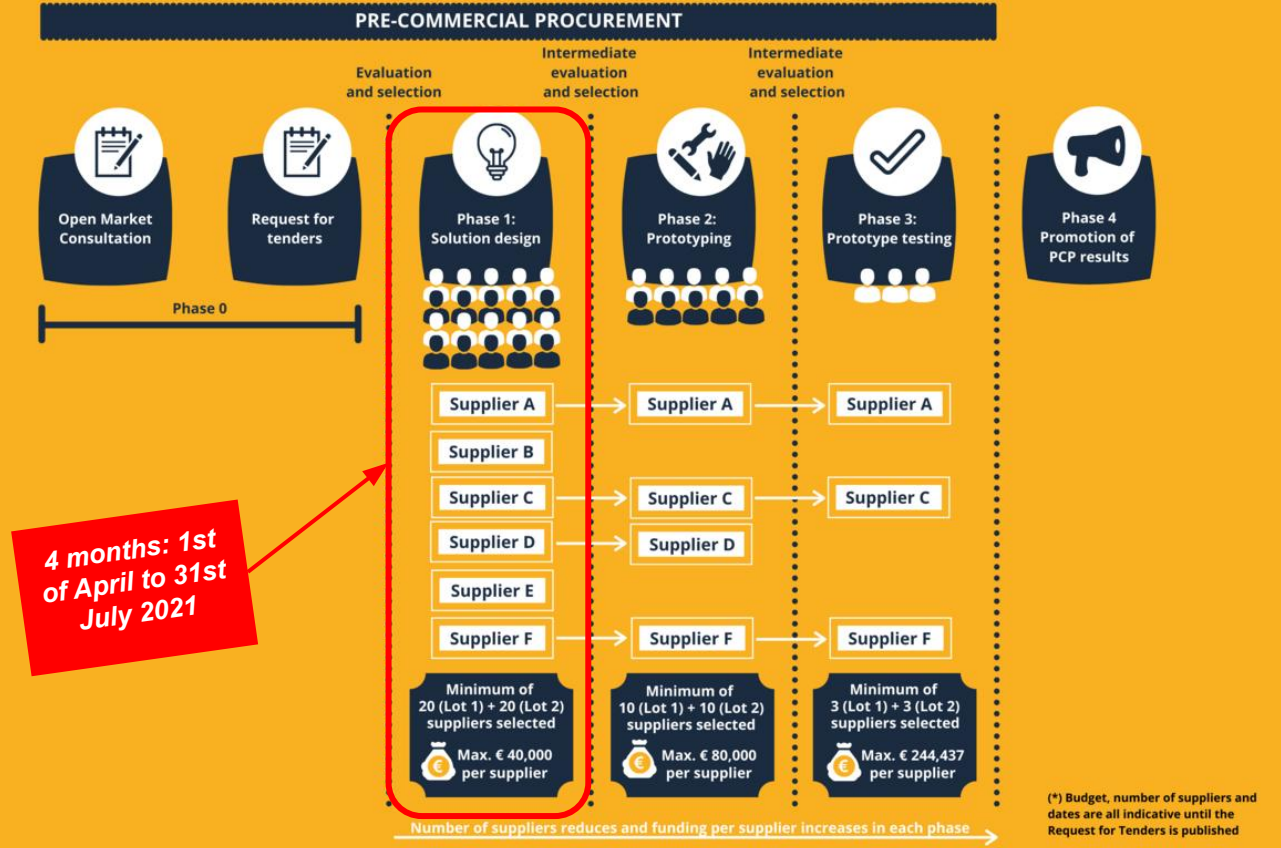
MOBILITY CHALLENGE (Lot 1) & ENERGY CHALLENGE (Lot 2)

MOBILITY CHALLENGE (Lot 1) & ENERGY CHALLENGE (Lot 2)

MOBILITY CHALLENGE (Lot 1) & ENERGY CHALLENGE (Lot 2)

PCP Budget[*]

Expected number of suppliers (Lot 1 & Lot 2)	Max budget per supplier (inc. VAT)	Total available budget per phase (inc. VAT)	Duration of each phase
Phase 1: 40 (20+20)	40.000€	1.600.000€	4 months
Phase 2: 20 (10+10)	80.000€	1.600.000€	3 months
Phase 3: 6 (3+3)	244.437€	1.466.622€	6 months
Totals	**364.437€**	**4.666.622€**	

[*]**the budget breakdown and number of suppliers are indicative until the Request for Tenders is published.**

Contract procedure

- **One Joint Request for Tenders** published on *1.12.2020 (tentative date)*
  - **Note** - each lot (Mobility and Energy) must be **applied separately!**

- **Lead procurer** (Forum Virium Helsinki) **awarding all contracts** acting **on behalf of all procurers in the Buyers Group**
  - **Single Framework Agreement** per winning tenderer covering all PCP phases, plus a
  - **Specific Phase contract** per PCP phase (depending on subsequent evaluations and offers).
  - **Payments done per phase** upon **satisfactory phase completion**

Reference websites for information on PCP

- [European Commission framework on Innovation Procurement](#)
- [EU policy initiatives on Innovation Procurement](#)
- [EU funded projects implementing PCPs or PPIs](#) [Innovation Procurement Platform](#)
- [Procurement forum](#)

See 'What is a PCP' tutorial from our "*older sister*" [SELECT4CITIES.EU](#) project: [https://www.select4cities.eu/what-is-pcp](#)

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Preparation phase (Phase 0)

| February '20 | March | April | May | June/July/August | September | October | November | December | January '21 |

OMC starts at 17.4.

Global webinar 28.5.

- 8.9. Matchmaking
- Bootcamp application DL 11.8.
- 23.9. Mobility Bootcamp
- 24.9. Energy Bootcamp

OMC ends

RfT launch 1.12.2020

RfT ends 28.2.2021

Dialogue with Suppliers
- Global awareness and information campaign
- **Interactive sessions**: webinars, hackathon
- **Local events**: cities insights!
- OMC Survey (to be published 29.5.)

Refining challenges with stakeholders
- Mapping open and other available data sources, APIs
- Local workshops, roundtables, meetings
- Documentation of feedback and comments

Finalizing Challenges' Functional requirements

Preparation of Request for Tenders (RfT)

KEEP IN TOUCH!

Project Coordinator: Kaisa Sibelius, Forum Virium Helsinki

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