



Request for Tenders webinar

Beyond the state of the art with the cities10.2.2021



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



Al4Cities - Al accelerating Cities transition to carbon neutrality

Agenda (CET)

14:00 Al4Cities' Request for Tenders in nutshell (<u>https://fvh.io/fvh-youtube</u>)
14:20 City of Amsterdam (10 min presentation + 5 min questions)
14:35 City of Copenhagen
14:50 City of Tallinn
15:05 Paris Region
15:20 City of Stavanger
15:35 City of Helsinki
15:50 Questions





AI4Cities Request for Tenders in Nutshell

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The City Partners are all committed to becoming Carbon neutral



*) Source: Helsinki Region Environmental Services Authority HSY, 2019

AIGSITIES PCP Process and timeline

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





Lot 1 - Mobility Sub-Challenges

Cities present: Amsterdam, Helsinki, Paris, Stavanger, Tallinn

Sub-Challenge 1: Mobility-as-a-service Sub-Challenge 2: Traffic Flow Optimization Sub-Challenge 3: Optimization of Logistics Sub-Challenge 4: Wild Card





Lot 2 - Energy Sub-Challenges

Cities present: Amsterdam, Copenhagen, Helsinki, Paris, Stavanger

Sub-Challenge 1: Flexible Energy Consumption Sub-Challenge 2: Energy Efficiency Sub-Challenge 3: Development of Renewable Energy Sub-Challenge 4: Wild Card





DATA SETS



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Data Sources

Potential suppliers working on Ai4Cities mobility-related solutions can make use of the data sources listed below. This is a non-exhaustive list of the freely avaibale **open source data** in in each Ai4Cities city. The list will be updated throughout the project, as more data becomes available.

For any questions about these data sources, email: tech@ai4cities.eu. Please specify in your email to which city/cities your question relates.





Award criteria (weighted)

Phase 1:

- 1. Functional Criteria (40%)
 - CO2 emission reduction, Use of AI, Technical innovativeness
- 2. Project Management criteria (20%)
 - Project plan, Composition of the project team
- 3. Non-functional criteria (20%)
 - Impacts on city and citizens, Disruptiveness
- 4. Commercial Feasibility (10%)
- 5. Price (10%)

The threshold for each criteria is around 60%.

 \rightarrow A supplier needs to get at least 60% of the points in each criteria to advance to the next Phase.



Selection and Evaluation of Tenders in Phase 1





AIQCITIES

Tender Submission

- Tenders will be submitted electronically via the AI4Cities website <u>https://ai4cities.eu</u>
- Tenderers need to choose for which Lot the tender is submitted
- In the consortiums the Lead Tenderer submits the tender documents and is the main contact point during the PCP
- the documents must be uploaded separately
- NO SCANNED PDFs (because the search function does not work)



QUESTIONS

How many m3 of water do the district heaters (average) heat up daily for households and up to what temperature? In households: what % of hot water accumulators are electric vs. gas?

Amsterdam: District heating is has limited availability now but is the ambition of the city: more infomation can be found here https://www.amsterdam.nl/en/policy/sustainability/policy-phasing-out/
Copenhagen: 99% of the households in Copenhagen is connected to distict heating. Temp. 80 C.
Helsinki: If a household is connected to district heating, domestic hot water is heated with the same energy. Outside district heating network, electricity is used. Gas boilers are, according to my best knowledge, non-existing.
Tallinn: Tallinn is not participating in Energy LOT

What is the role of district heating for your city?

Amsterdam: https://www.amsterdam.nl/en/policy/sustainability/policy-phasing-out/
Copenhagen: Very big! More information www.hofor.dk
Helsinki: You can download comprehensive reports on the Helsinki's district heating system here: https://energychallenge.hel.fi/heating-helsinki-today
Tallinn: Tallinn is not participating in Energy LOT

Are you interesting in Smart Heating for old buildings?

Yes, the cities are interested in to improve energy efficiency of any kind of buildings.



How many real time traffic-camera's does each city have installed? Are there already video analytics projects going on the retrieve more data from these images? Are Al-cities have interested to optimize their traffic management with 'easy to gather' monitoring data?

Amsterdam: it is very difficult to use the images for other purposes than originally intended. The traffic camera's are used for traffic control and crownd monitoring (<u>https://maps.amsterdam.nl/cmsa/?LANG=nl</u>) **Copenhagen:** CPH is not participating in this LOT **Stavanger:** There are not cameras installed for traffic monitoring in Stavanger, but given right project the municipality will have some funds and ambition to test out this type of technology to extend and improve traffic data **Tallinn:** We have 21 intercections covered with smart sensors, over 160 video cams available.

Do you expect also to use Edge AI solutions working on distributed IoT devices and dlt networks to create new data for carbon free achievements rather than using only already cloud available data? The buyers group has not excluded any technical solutions

to Paris: Is being a member of Cap DIgtal a pre requirement? No





Is there a standard data format all the cities share?

There are no overall standars in data formats.

Should our proposal target a specific city or remain city agnostic?

It is better if the solution is city agnostic, but we understand that is not always easy or possible (because of the availability of data etc.).

Will the beneficiary help identity test sites and help manage relationship to stakeholders?

The pilot sites will be determined later during the project together with the cities and the tenderers. You can mention in the proposal if you have spesific wishes or concrete plans regarding the pilot sites.

Are private vehicle / fleets making logistics deliveries trajectory data available?

That should be asked from the private delivery companies. Cities don't have that kind of data.



Will the sub-challenges with already defined topics prevail over the solutions belonging to the "wild card" sub-category?

There is no difference between Pre-defined sub-challenges and wildcard

What is your vision about the openness (open-source, open-APIs) of urban data platforms? Is it an important requirement?

Open source and open APIs are recommended, but they not mandatory

With what criteria are you going to evaluate that the cameras are indeed useful to reduce the carbon footprint?

We evaluate whether the solution reduces CO2 emissions and the overal idea how it reduces them. It doesn't matter whether the solution uses cameras or some other technology to do that (as long as the solution uses AI).



MORE INFORMATION

- Check the QUESTIONS AND ANSWERS page on the web
- <u>https://ai4cities.eu</u>
- Info videos <u>https://fvh.io/fvh-youtube</u>
- A Tendering Guide https://fvh.io/ai4cities-tendering-guide
- Send questions by email
 - o info@ai4cities.eu
 - <u>tech@ai4cities.eu</u>