

HUPMOBILE

ITS Network and Mini-Pilots

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INTELLIGENT TRANSPORT SYSTEMS

- **1. ITS competence network** that brings Lead: Maarja Rannama, ITL
- 2. ITS minipilots Lead: Ralf-Martin Soe, ITL
- **3.** Adaptive traffic lights Lead: Liivar Luts, City of Tallinn







1. ITS NETWORK

- This action focuses on developing ITS competence network among public and private sector parties through different local and international actions and events:
- At least five international webinars and seminars facing concrete urban mobility challenges (e.g. ensuring better use of transport data, shift towards self-driving and connected transportation, increasing the use of alternative transportation modes etc.) sharing best practices and working out new solutions. ITS Eindhoven 2019; 18.12 webinar; Tartu 13.2; Riga, 4-5 June); 1 left (Finland?/ LA ITS World?
- **5.11.2019 conference** about smart urban mobility (introducing also the outcomes of the pilots worked out in the current WP).



2. Adaptive traffic lights

- This action analyses how to increase the mobility flows using the electronic solutions and promoting the switch towards public and green transport. Specifically the aim is to:
- Work out the **pre-feasibility study of adaptive traffic lights** in the case of one city (Tallinn) with aggregated simulation applicable for all Baltic Sea cities;
- **Investigate various adaptive traffic lights market solutions** ,especially ones provided by SMEs and startups;
- **Develop specific hot-spots (might be merged by minipilots)** to validate technologies
- **Involvement** DIRECTLY TALLINN, AALTO AND ITL DIGITAL INDIRECTLY: ALL PARTNERS



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3. Experimental policy-making via minipilots

- In this action, cities of Tallinn, Hamburg, Turku and Riga will develop at **ITS minipilots** with a real policy roadmap how and why to make it a real pilot or service. After mini-pilots, policy and technology suggestions will be made for all BSR cities. The potential themes of minipilots are:
 - Better use of mobility data in BSR cities
 - Artificial intelligence in BSR cities
 - Using Mobility platform economy
- Based on experiments, **a policy roadmap for all BSR cities** on applying ITS solutions will be developed in order to deal with urbanisation-driven increased mobility and environment challenges
- Involvement
 - DIRECTLY TALLINN, HAMBURG, RIGA, TURKU AND ITL DIGITAL
 - INDIRECTLY: ALL PARTNERS





Types of innovation procurements

- Pre-commercial procurement
- Alliance model
- Innovation partnership
- Negotiated model, competitive negotiated model
- Fast trials/experiments -> procurement





Agile Pilots as small procurements

- Probing the market by giving away small money to answer the pilot's challenges with
- Concept or prototype
- Very limited trial (e.g. 1-2 weeks)
- Test with real people & stakeholders
- Also promote and prepare companies to the real pilots!
- Give positive agile, participatory approach to the project start
- A way to do a bit more open & engaging market consultation, ensure newest innovations, startup participation





How minipilots can be chosen?

CRITERIA FOR THE EVALUATION	Evaluated in scale of 1-5				
Innovativeness of the pilot	 a genuinely new service idea or product the experiment generates new practices/solutions/aspects to a specific challenge 				
Potential for a scalable service	 ✓ usability of the service ✓ the functionality of the business model ✓ potential for long term solution ✓ can be put in practice in Helsinki and Tallinn capital regions area 				
Teams and resources	 ✓ Skills and know-how of the executive team ✓ other resources of the executive team (e.g. funding, collaboration) ✓ potential to continue developing the service after experiment ✓ executed by a consortium of more than one organisation or company 				
Smart, agile and user- driven	 ✓ service/product utilizes ICT-technology or data ✓ use of agile development methods ✓ service responds to the needs of users 				



Open competition: joint marketing

Contact person name *

Contact person full name, title, telephone number, and other contact details

Contact person Email *

Email will be the main form of communication with the proposers

Organisation name *

Organisation business ID

Name or topic of the fast innovation trial *

Brief description of the fast innovation trial: How would you use the money?

Maximum 2 paragraphs of text describing your proposal, Please note that we are procuring fast innovation trials: a limited-time service, or a service prototype or a service concept, what with we can better understand the implications of emerging new technologies and business models. Describe your ambition in trial in the maturity levels do you expect to deliver a concept (PPT), prototype (service testable by our project experts in lab or in field), or a real service with real end-users for limited time. For the last option, mention limitations (for example "2 weeks" or "max 10 users").

Who would execute the trial in your organisation?

Team members and their roles in the trial. Add in a web-link to a prior reference for the persons, if you think this helps us evaluate better. No CV is necessary.

Your proposed price of the trial (in EUR, including VAT) Total budget including VAT (note: a fixed sum between 2000E and 15.000E). Only fixed cost trials are allowed.

What are the tasks and deliverables, and their schedule

Maximum one line of test per task and per deliverable. Mention delivery month of the deliverable, and the IPRs for each deliverable. The default will be that all of the IPR ownerable of all deliverables remains with you - we buy service trials limited in time. But we will require to have free, open usage rights for any general insights we learned regarding the technology or the business model, as well as a public presentation material about the trial.

How do you think your proposal would help us plan better smart mobility solutions?

Does it give any insight in the future procurement of smart mobility solution? Does it give us new ways to think about mobility planning or management? Are the proposed technologies or business models innovative enough?

What would you need from us in order to execute the trial?

Do you expect us, or someone else than you, participate in the execution or planning of the trial? How, when, and how much? What else would you expect? Have you identified critical external interfaces you need in order to deliver the trial?



Do you give us right to use the deliverables in the project next stage planning and promotion? *

I give my permission to use our pilot and project results as a reference material in communication of FinEst Smart Mobility project.

0 Yes

0 No

Public two paragraph text presentation of your trial

The public introduction of the innovation trial will be published in the project page. Maximum 500 characters.



Minipilot 1a





Minipilot 1b





BLE beacons and installation



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In Nepal, Sherpas are highly regarded as elite mountaineers and experts in their local area. Successfully managed open ecosystems enable new and existing companies to act as Sherpas combining existing services to create better service levels for FinEst passengers as well as motivating them to reduce external costs of their transportation. The aim of the **FinEst Sherpa challenge** is to look at new service models, project the benefits to different stakeholders and find a way to enable the ecosystem. (FLOU Solutions Ltd)









EUROPEAN UNION

EUROPEAN REGIONAL DEVELOPMENT FUND

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See also: Paper 1 Paper 2