



European Union
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Municipality of Lamia in FABULOS PCP

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FABULOS Project

Project summary

- The FABULOS (Future Automated Bus Urban Level Operation Systems) project focuses on how cities can use automated buses in a systematic way.
- Novel transport solutions will be developed and acquired by utilizing a Pre-Commercial Procurement (PCP), which allows the Procuring Partners to share the risks and benefits with the suppliers.
- Funded under Horizon 2020 Framework Programme
- Topic: ICT-27-2017 - System abilities, SME & benchmarking actions, safety certification
- Total Budget: 7.775.001€ (90% EC funding)
- PCP Budget: 5.442.500€ (90% EC funding)
- **From 2018-01-01 to 2020-12-31**

FABULOS Consortium

Procuring partners

- Forum Virium Helsinki, Finland (Coordinator and Lead procurer)
- Ministry of Economic Affairs and Communications, Estonia
- Municipality of Gjesdal, Norway
- Municipality of Helmond, Netherlands
- **Municipality of Lamia, Greece**
- Public transport service provider in the Metropolitan area of Porto (STCP), Portugal

Technical partner

- Helsinki Metropolia University of Applied Sciences, Finland

Intelligent Traffic Systems

State of the Art

- The number of autonomous shuttle pilots have increased rapidly over the past years.
- In Europe, the autonomous shuttle pilots aim mostly to integrate themselves into the public transportation system.
- Outside of Europe the pilots are still mostly about testing the technology.
- Current open issues:
 - Driving speed
 - Driving in mixed traffic
 - Extreme weather conditions
 - Legislation

FABULOS Objectives

The common challenge of the FABULOS PCP is the design, development and testing of smart systems that are capable of operating a fleet of self-driving minibuses in urban environments

- A public transport solution that can drive in regular speeds, without an operator or steward on board, in mixed traffic in cities, while dealing with unexpected obstacles, in all weather conditions.
- A “one-stop-shop” or “off-the-shelf” solution for Cities, Public Transport Authorities or other entities procuring public transport services for the future.
- A solution that will make last-mile public transport more flexible, clean and efficient.
- A solution that can easily be fully integrated into any public transportation ecosystem.
- A solution that is easily scalable.

Lamia and FABULOS

Municipality of Lamia goals

- Investing in technology, innovation and knowledge economy
- Supporting the vision of smart city
- Dealing with issues of traditional bus lines
- Enhancing the quality of provided services
- Supporting the Municipal policy of minimizing the number of private cars moving within the city center

The line will be connecting city center with intercity bus station and sports centers

Competences required in different stages

Among others, the following represent the most fundamental skills and competences, which the Municipality had to demonstrate in the first two phases of the project:

- Clear Vision
- Market Knowledge
- Legislation and Regulation
- Capacity Building
- Innovation Culture

Clear Vision

Having a clear vision and strategy

- A clear policy vision provided at political level is the first step to innovation procurement.
- Accompanied by a clear communication campaign and supported by a long-term budgetary commitment, the policy vision has greater chances to succeed.
- Designing a successful project involving innovation could even be organized from the bottom up, by starting to focus on simple, practical problems.
 - Addressing an arising and existing need.
 - Delivering higher quality and modernized public services.

Legislation and Regulation

Knowing the legislative and regulative background

- Translating ambitions into actions and commitments requires an excellent knowledge of the underlying legislative and regulative context.
- Tentative identification and exploration of existing manuals, guidance materials, template documents, draft evaluation criteria or measurement methodologies is required.

Capacity Building

Building capacity of people involved

- Capacity building needs:

Basic skills:

- relevant legal framework
- negotiation
- contract management

Innovation specific skills:

- risk assessment
 - intellectual property rights (IPR) management
 - policy entrepreneurship
- Capacity can be built through internal training, targeted recruitment, by relying on external experts and consultants or pooling expertise with other public buyers.
 - Such as in the FABULOS case, cooperative procurement makes it easier to engage professional staff with the proper expertise.

Market Knowledge

Having clear market knowledge

- Good market knowledge is essential when targeting higher quality products on an optimal budget.
- Procuring partners need to be realistic on their demands and compatible with the current state of the art.
- Tentative care should be placed on the definition of procurement requirements, both from a content and a procedural view. Poor requirements generate poor proposals.
- Open Market Consultation refers to a great tool for involving potential suppliers, technology companies and consortia from early on.

Innovation Culture

Infusing and fostering innovation culture

- Public scrutiny and pressure on public finances make public buyers understandably risk-averse.
- It is essential that the decision to buy innovation bring clear benefits to the public buyer, on the basis of clear targets' definition, measurement and accountability.
- Innovation procurement requires a cultural shift not only among the public buyers themselves, but also in the entire ecosystem: political authorities, review bodies, auditors, and even the press.
- A clear policy statement is essential to address risk aversion and possible additional costs arising from blocking innovation.
- The statement has to make clear that innovation is both a key driver of sustainable growth, and an important means of enhancing value for money of public services.



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Thank you!

Questions welcome



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