



Jūrmala

Interreg Baltic Sea Region Programme 2014-2020

Innovative smart parking solution to reduce vehicle emissions, improve city environment and traffic/ "Smart Parking"

Concept description / 06.01.2016

Goal: To reduce motor vehicle CO2 emissions, to improve city environment by increased air quality and reduced traffic congestion, to change everyday behaviour of inhabitants in field of air pollution reduction.

Target group: Municipalities, city transport planners, local inhabitants and tourists.

Potential project partners: Municipalities, technology suppliers, NGOs, scientific institutions, science and technology parks.

Project description: Cities in the Baltic Sea region have similar needs in the field of air pollution reduction. Countries in the region are of the same opinion when it comes to promoting environmentally-friendly and attractive living conditions.

The project includes development and installation of innovative solutions that can detect occupancy of car parking spaces along city streets and navigate visitors to free car spots for fast and efficient parking. Solution technology includes sensors and other equipment that can identify if specific parking spot is available for parking. Availability data are sent to the parking management software and central data base, which is accessible by mobile application on visitor device (smartphone) and serves as a navigation tool to lead to the closest available parking place. This solution will support users when selecting their means of transportation. For example, before setting off on his journey, a user can find out about the current parking situation at his destination or about the walking distance from a potentially free parking space to the place where he needs to be.

Benefit from participating in the project: This project would create a solution for smart parking and allow searching for available free car parking spaces in the city for tourists and locals, making car parking more convenient. Project is considered very important, because as a result of the project emissions will be reduced in the cities as well as the time that is spent searching for free parking spaces will be reduced. Smart parking system will support the appropriate use of municipal resources as well as provide a path to technology standardization across the region. Improved behaviour and habits for local residents to promote efficient driving and parking will be reached as a result of the project.

Project results:

Less congestion in city.

Reduced CO2 emissions.

Cost – effective management of traffic.

As the result of the project the system of sensors will be placed in the cities – participants in the project. As part of the project, two software solutions will be created – a specific information system will be developed which will serve as a central platform for parking sensor data collection, data analysis and logical processing. Project involves research of various sensor technologies and central software solutions available on the market, comparison and selection of the most suitable solution for the project partner cities. Such kind of system may be used by other cities thus the results may be multiplied and other cities may benefit by using such technology.

Project partners:

Jurmala City Council (Latvia)
 Ventspils Digital Centre (Latvia)
 Riga Technical University (Latvia)
 Elva municipality (Estonia)
 Technology Research Center of University of Turku (Finland)

Project budget indication: TBD

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