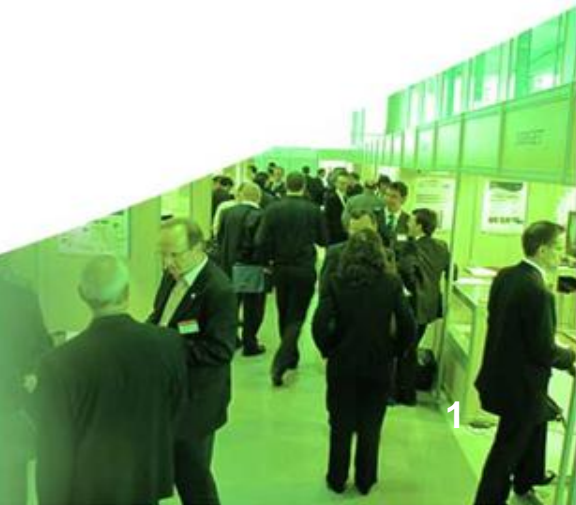Celtic-Plus Event
28-29 April 2016, Stockholm

Pitch of the Project Proposal
PARKSense

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alpineon))

Teaser

Objectives

– To provide a *robust* **street parking** management solution based on IoT **real-time** parking occupancy data.

– To reduce hassles and time lost in searching for a free parking space in smart urban environments.

– To enable faster traffic flows & emission reduction.

Organisation Profile

alpineon))

– SME from Ljubljana, Slovenia
– Main areas: sensor development – vehicle recognition, speech and image processing
– Participation in nationational & international projects: coordination of Eureka projects S-Verify, TESTED, iTEMA
– Ambassador of privacy award in 2015 for the SmartPARK privacy enhanced technology
– Winner of ICB 2013 international biometric competition on speaker and face recognition in adverse mobile environments

Proposal Introduction (1)

Vision

– reliable smart parking guidance solution based on real-time occupancy data

Content & challenges

– sensor node development for low-energy, reliable vehicle detection, robust to adverse environmental conditions, easy installation & maintenance
– integration of the sensor nodes into IoT – based parking guidance solution

Proposal Introduction (2)

Outcome

– complete cost-efficient street parking solution ready for large-scale deployments in smart cities

Impacts

– reduced travel times, energy consumption, polution reduction

Schedule: submission for the autumn 2016 call

Partners

Existing consortium

– sensor node development: Alpineon (Slovenia)

– end-user: municipality (Slovenia, tbc)

Partner expertise sought

– control & power supply unit development for the sensor node system

– IoT client framework facilitating secure edge device to sensor communication

– handling & processing of IoT data traffic efficiently throughout the network, from centralised clouds to distributed network edges

– GIS-based service facilitating sensor setup, calibration, testing, visualisation and automatic sensor-location markup

– real-time parking guidance application development for smartphones and in-car navigation systems

Contact Info

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