Multi-source Big Data Fusion Driven Proactivity for Intelligent Mobility

From 2015-05-01 to 2018-08-31 | OPTIMUM Website

Project details

| Total cost: | EUR 5 966 186,25 |
| Topic(s): | MG-7.1-2014 - Connectivity and information sharing for intelligent mobility |
| **EU contribution:** | EUR 5 966 186 |
| Call for proposal: | H2020-MG-2014_TwoStages |
| Coordinated in: | Belgium |
| Funding scheme: | RIA - Research and Innovation action |

Objective

Transportation sector undergoes a considerable transformation as it enters a new landscape where connectivity is seamless and mobility options and related business models are constantly increasing. Modern transportation systems and services have to mitigate problems emerging from complex mobility environments and intensive use of transport networks including excessive CO2 emissions, high congestion levels and reduced quality of life. Due to the saturation of most urban networks, innovative solutions to the above problems need to be underpinned by collecting, processing and broadcasting an abundance of data from various sensors, systems and service providers. Furthermore, such novel transport systems have to foresee situations in near real time and provide the means for proactive decisions, which in turn will deter problems before they even emerge. Our vision is to provide the required interoperability, adaptability and dynamicity in modern transport systems for a proactive and problem-free transportation system. OPTIMUM will establish a largely scalable, distributed architecture for the management and processing of multisource big-data, enabling continuous monitoring of transportation systems needs and proposing proactive decisions and actions in an (semi-) automatic way. OPTIMUM follows a cognitive approach based on the Observe, Orient, Decide, Act loop of the big data supply chain for continuous situational awareness. OPTIMUM's goals will be achieved by incorporating and advancing state of the art in transport and traffic modeling, travel behavior analysis, sentiment analysis, big data processing, predictive analysis and real-time event-based processing, persuasive technologies and proactive recommenders. The proposed solution will be deployed in real-life pilots in order to realise challenging use cases in the domains of proactive improvement of transport systems quality and efficiency, proactive charging for freight transport and Car2X communication integration.

Related information

Report Summaries

Periodic Reporting for period 2 - OPTIMUM (Multi-source Big Data Fusion Driven Proactivity for Intelligent Mobility)
Coordinator

INTRASOFT INTERNATIONAL
PLACE DU CHAMP DE MARS 5/10
1050 BRUXELLES
Belgium
EU contribution: EUR 182 500

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation

Participants

INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS
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EU contribution: EUR 484 750

Activity type: Research Organisations
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UNINOVA-INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS-ASSOCIACAO
CAMPUS DA CAPARICA QUINTA DA TORRE
2829-516 CAPARICA
Portugal
EU contribution: EUR 373 500

Activity type: Higher or Secondary Education Establishments
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INSTITUT JOZEF STEFAN
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1000 LJUBLJANA
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EU contribution: EUR 475 000

Activity type: Research Organisations
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PRIVREDNO DRUSTVO ZA PRUZANJE USLUGA ISTRUZIVANJE I RAZVOJ NISSATECH INNOVATION
CENTRE DOO
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EU contribution: EUR 387 687.50

Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
Contact the organisation
FLUIDTIME DATA SERVICES GMBH
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EU contribution: EUR 341 000
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH
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EU contribution: EUR 584 131
Activity type: Research Organisations
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KAPSCH TrafficCom AG
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EU contribution: EUR 451 687,50
Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)
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REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC  
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Activity type: Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)  
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INFRAESTRUTURAS DE PORTUGAL SA  
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Activity type: Private for-profit entities (excluding Higher or Secondary Education Establishments)  
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8000 NOVO MESTO
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

**EU contribution:** EUR 170 875

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CELOVSKA CESTA 160
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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**EU contribution:** EUR 140 250

BIRMINGHAM CITY COUNCIL
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**Activity type:** Higher or Secondary Education Establishments

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**EU contribution:** EUR 177 125

LUIS SIMOES LOGISTICA INTEGRADA SA
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2670 501 LOURES LISBOA
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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

Contact the organisation

**EU contribution:** EUR 75 625

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**Activity type:** Private for-profit entities (excluding Higher or Secondary Education Establishments)

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**EU contribution:** EUR 424 750

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