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.

Fields of science

social sciences  >  social geography  >  transport  >  freight transport
natural sciences  >  computer and information sciences  >  data science  >  big data
engineering and technology  >  environmental engineering  >  air pollution engineering
engineering and technology  >  electrical engineering, electronic engineering, information engineering  >  electronic engineering  >  sensors
social sciences  >  social geography  >  transport  >  public transport

Programme(s)

H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Topic(s)

MG-7.1-2014 - Connectivity and information sharing for intelligent mobility
Call for proposal

H2020-MG-2014-2015

See other projects for this call

Sub call

H2020-MG-2014_TwoStages

Funding Scheme

RIA - Research and Innovation action

Coordinator

NETCOMPANY - INTRASOFT

Net EU contribution

€ 182 500,00

Address

Place du champ de mars 5/10
1050 Bruxelles / brussel
Belgium

Region

Région de Bruxelles-Capitale/Brussels Hoofdstedelijk Gewest > Région de Bruxelles-Capitale/ Brussels Hoofdstedelijk Gewest > Arr. de Bruxelles-Capitale/Arr. Brussel-Hoofdstad

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

Participants (18)
EREVNITIKO PANEPISTIMIAKO INSTITUTO SYSTIMATON EPIKOINONION KAI YPOLOGISTON

Greece
Net EU contribution
€ 484 750,00
Address
Patision 42
106 82 Athina
Region
Αττική > Αττική > Κεντρικός Τομέας Αθηνών
Activity type
Research Organisations

UNINOVA-INSTITUTO DE DESENVOLVIMENTO DE NOVAS TECNOLOGIAS-ASSOCIACAO

Portugal
Net EU contribution
€ 373 500,00
Address
Campus da caparica quinta da torre
2829-516 Caparica
Region
Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa
Activity type
Research Organisations
INSTITUT JOZEF STEFAN

Slovenia

Net EU contribution
€ 475 000,00

Address
Jamova 39
1000 Ljubljana

Region
Slovenija > Zahodna Slovenija > Osrednjeslovenska

Activity type
Research Organisations

Links
Contact the organisation  Website  Participation in EU R&I programmes

Other funding
€ 0,00

PRIVREDNO DRUSTVO ZA PRUZANJE USLUGA ISTRUŽIVANJE I RAZVOJ
NISSATECH INNOVATION CENTRE DOO

Serbia

Net EU contribution
€ 387 687,50

Address
Cara dusana 58 office 303
18000 Nis

SME  Yes

Region
Србија - југ > Регион Јужне и Источне Србије > Нишавска област
Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

FLUIDTIME DATA SERVICES GMBH

Austria

Net EU contribution

€ 341 000,00

Address

Neubaugasse 12-14/25
1070 Vienna

SME

Yes

Region

Österr""erreich > Wien > Wien

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding

€ 0,00

AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH

Austria

Net EU contribution

€ 584 131,00

Address
**KAPSCH TrafficCom AG**

*Address*
Am europlatz 2  
1120 Wien

*Region*
Ostösterreich > Wien > Wien

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

*Other funding*
€ 0,00

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**UNIVERSITY OF WOLVERHAMPTON**

*Address*

*Region*

*Activity type*

*Other funding*

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EU contribution:

€ 510 375,00

Address
Wulfruna street
WV1 1LY Wolverhampton

Region
West Midlands (England) > West Midlands > Wolverhampton

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 0,00

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PANEPISTIMIO AIGAIOU

Greece
Net EU contribution
€ 354 125,00

Address
Lofos panepistimiou
81100 Mytilini

Region
Πησιά Αιγαίου > Βόρειο Αιγαίο > Λέσβος

Activity type
Higher or Secondary Education Establishments

Links
Contact the organisation  Website  Participation in EU R&I programmes  HORIZON collaboration network

Other funding
€ 0,00

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TIS PT, CONSULTORES EM TRANSPORTES, INOVACAO E SISTEMAS, SA

Portugal
Net EU contribution
€ 312 500,00

Address
Avenida marques de tomar 35-6d
1050-153 Lisbon

SME
Yes

Region
Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

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DIEVROPAIKI ETAIRIA SYMBOULON METAFOREN ANAPTIXIS KAI
PLIROFORIKIS AE

Greece

Net EU contribution
€ 202 680,00

Address
Vrioulon 78c kai k. karamanli 40 78c
55132 Kalamaria - thessaloniki

SME
Yes

Region
Βόρεια Ελλάδα > Κεντρική Μακεδονία > Θεσσαλονίκη

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

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network
REGIONAL ENVIRONMENTAL CENTER FOR CENTRAL AND EASTERN EUROPE -REC
Hungary
Net EU contribution
€ 171 750,00
Address
Ady endre ut 9-11
2000 Szentendre
Region
Közép-Magyarország > Pest > Pest
Activity type
Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)
Links
Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network
Other funding
€ 0,00

INFRAESTRUTURAS DE PORTUGAL SA
Portugal
Net EU contribution
€ 145 875,00
Address
Praca da portagem
2809 013 Lisboa
Region
Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
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<th>Country</th>
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<th>Address</th>
<th>Region</th>
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<td>Slovenia</td>
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<td>€ 140 250,00</td>
<td>Celovska cesta 160, 1000 Ljubljana</td>
<td>Slovenia › Zahodna Slovenija › Osrednjeslovenska</td>
</tr>
</tbody>
</table>
**BIRMINGHAM CITY COUNCIL**

United Kingdom

Net EU contribution

€ 177 125,00

Address

Council house, victoria square

B1 1BB Birmingham

Region

West Midlands (England) > West Midlands > Birmingham

Activity type

Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)

Links

Contact the organisation Website Participation in EU R&I programmes HORIZON collaboration network

Other funding

€ 0,00

---

**LUIS SIMOES LOGISTICA INTEGRADA SA**

Portugal

Net EU contribution

€ 75 625,00

Address
Moninhos apartado 41
2670 501 Loures lisboa

Region
Continente > Área Metropolitana de Lisboa > Área Metropolitana de Lisboa

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

Links
Contact the organisation
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

NETCOMPANY-INTRASOFT SA
Luxembourg
Net EU contribution
€ 424 750,00

Address
Rue nicolas bove 2b
1253 Luxembourg

Region
Luxembourg > Luxembourg > Luxembourg

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

Links
Contact the organisation
Website
Participation in EU R&I programmes
HORIZON collaboration network

Other funding
€ 0,00

Last update: 5 April 2023

Permalink: https://cordis.europa.eu/project/id/636160