THE ISSUE

Traffic Health Environment

Intelligent Solutions for Sustaining Urban Economies

THE ISSUE

Traffic-Health-Environment:

Intelligent Solutions Sustaining Urban Economies

IGiK

ABOUT THE ISSUE

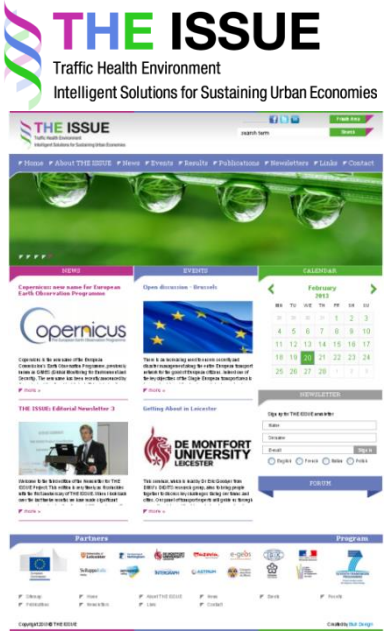
THE ISSUE: TRAFFIC HEALTH ENVIRONMENT INTELLIGENT SOLUTIONS FOR SUSTAINING URBAN ECONOMIES

7th FRAMEWORK PROGRAMME - Regions of Knowledge

PROJECT DURATION : 36 months (01/12/11 - 30/11/14)

TOTAL VALUE : 2.75 millions euros

13 PARTNERS



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Intelligent Solutions for Sustaining Urban Economies

Overarching Objective:

"Co-ordinated action to support sustainable economic development by boosting the competitiveness of transport-related economies of Cities and Regions in Europe"

Leicester City Council · University of Leicester · De Montfort University Leicester · The University of Nottingham · Astrium · Intergraph · Liberté • Égalité • Fraternité République Française

IGiK · Mazovia heart of Poland · Università degli Studi del Molise · SviluppoItalia Molise · e-geos an ASI/Telespazio company · aerospace valley · Centre d'Études Techniques de l'Équipement Sud-Ouest

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Mission Statement:

*"To identify innovative technological solutions, through the application of **ICT and Downstream Space Data Products and Services**, to address key transport and urban mobility challenges impacting on the economy, environment and people's health in cities and regions across Europe"*

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Key Outcome:

*"A Roadmap for the development of **new RTD Traffic, Health and Environment Applications** to tackle key transport and urban mobility challenges in urban and regional economies across Europe"*

THE ISSUE CONSORTIUM

4 Core Triple Helix Clusters and 8 Associate Regions

East Midlands (UK)

Northern Ireland (UK)

Basque Country (SP)

Midi-Pyrénées – Aquitaine (FR)

Uusimaa (FIN)

Mazovia (POL)

North-West Region (ROM)

Primorje-Gorskie (Croatia)

Molise (IT)

Andalucia (SP)

Calabria (IT)

Attica (GRE)

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THE PROJECT'S AIM

COORDINATE IN EUROPEAN REGIONS

RESEARCH AND TECHNOLOGIC DEVELOPMENT

NEEDS OF PUBLIC AUTHORITIES AND ACTORS INVOLVED IN TRANSPORT STRATEGIES

IN THE FOLLOWING THEMES

- INTELLIGENT TRANSPORT SYSTEMS
- TRANSPORT IMPACTS ON URBAN MOBILITY
- TRANSPORT GREENING
- INTERMODAL LOCAL AND REGIONAL TRANSPORT
- SAFETY AND SECURITY OF CITIZENS
- ASSOCIATED ECONOMIC, HEALTH AND ENVIRONMENTAL IMPACTS

THE ISSUE “TRIPLE HELIX ”

TRIPLE
HELIX
OF ACTORS

TRIPLE
HELIX
OF THEMES

Roadmap for New RTD Traffic, Health and Environment Applications

Identifying RTD capabilities in ICT and Downstream Space Data Products and Services of businesses, universities and research centres in each regional cluster in THE ISSUE Consortium

Analysing the transport and urban mobility challenges impacting on the economy, environment and people's health in European cities and regions

Mapping the priority transport and urban mobility challenges facing cities and regions against the RTD capabilities within THE ISSUE Consortium

Publishing a Model Programme of 20 priority RTD actions to deliver new, innovative and viable Traffic, Health and Environment Applications to help urban and transport planners address 6 key Societal Challenges

Delivering the Model Programme 2014-2020:

- Addressing barriers to exploitation of technologies
- Accessing new enabling and cross-cutting technologies
- Bringing to bear innovative research and blue skies thinking
- Securing funding: Horizon2020, European Structural and Investment Funds, National and Regional Funds

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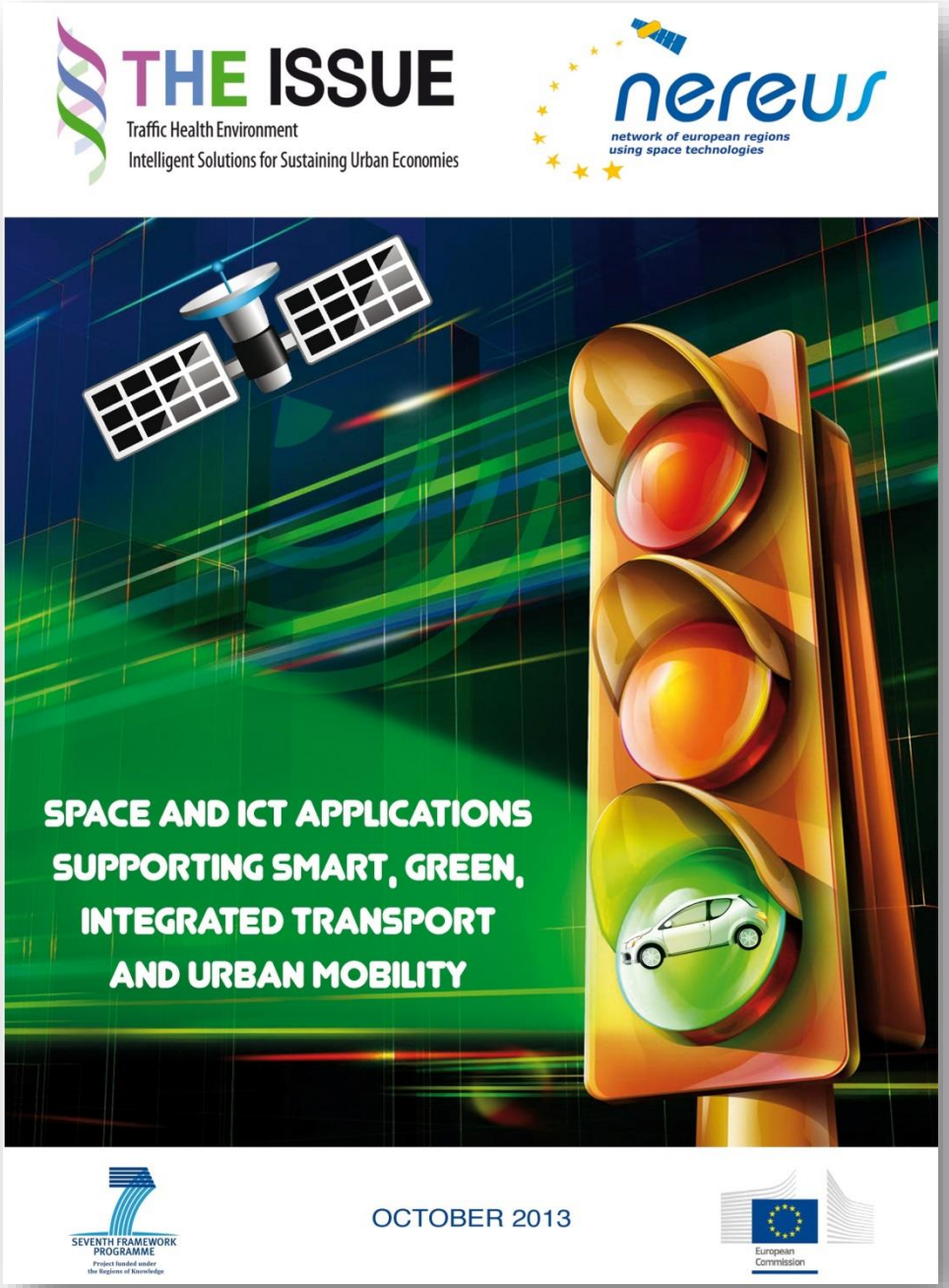


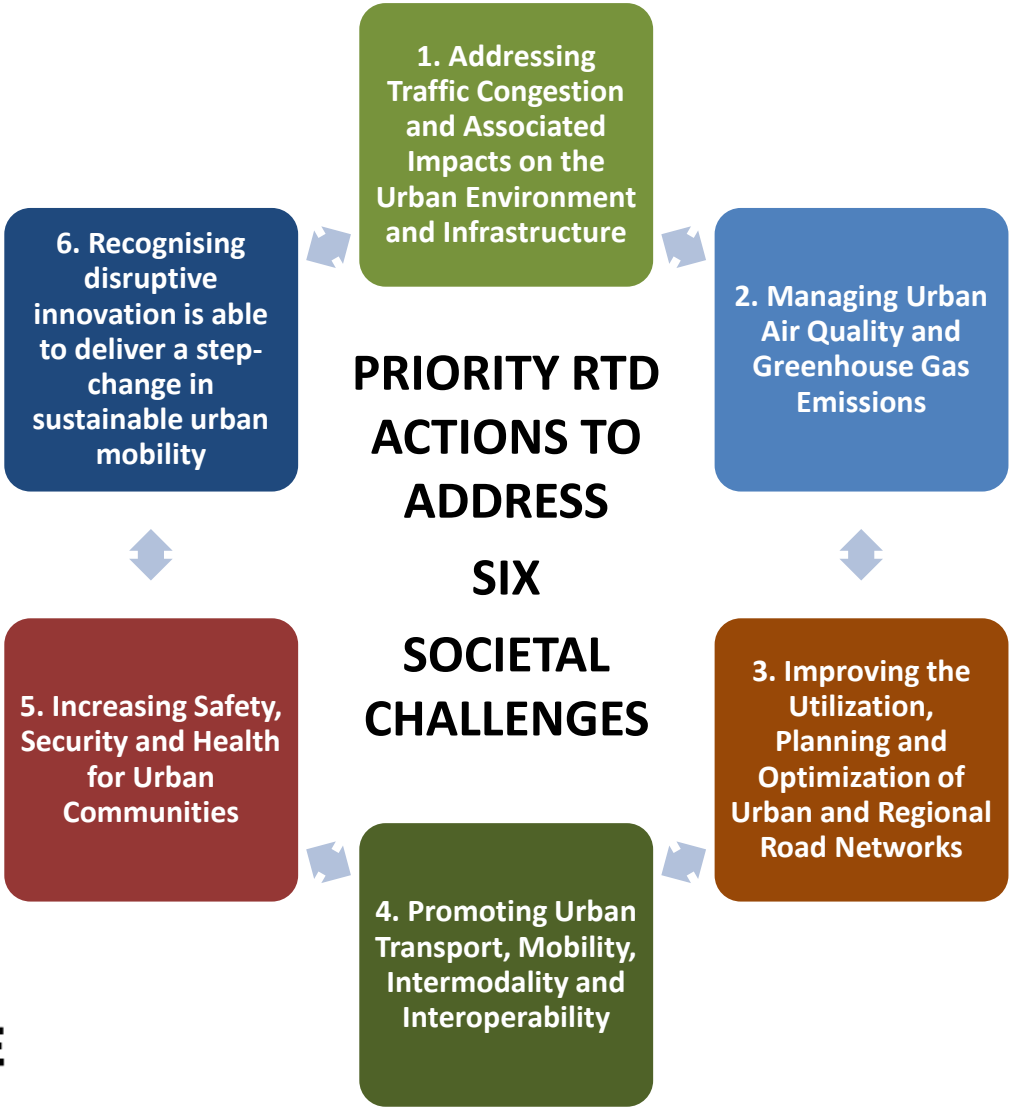
THE ISSUE Project:
"Triple Helix" Regional Academic/ Industry/Public Authority Partnerships.

R&D base with 300 RTD projects identified across THE ISSUE Consortium.

50% relevant to sustainable transport development objectives of Local and Regional Authorities.

40 Case Studies of applications of Space and ICT technologies. Over 50% are university or university/academic collaborative projects. Most are TRL 3+

THE ISSUE: Model Programme



CHALLENGE 1: Priority Actions

THE ISSUE Priority RTD Actions:

- **Advanced Urban Traffic Management and Control systems.**
- **Intelligent Traffic Systems for safety and incident management.**
- **Intelligent Traffic Systems for use in transport planning.**

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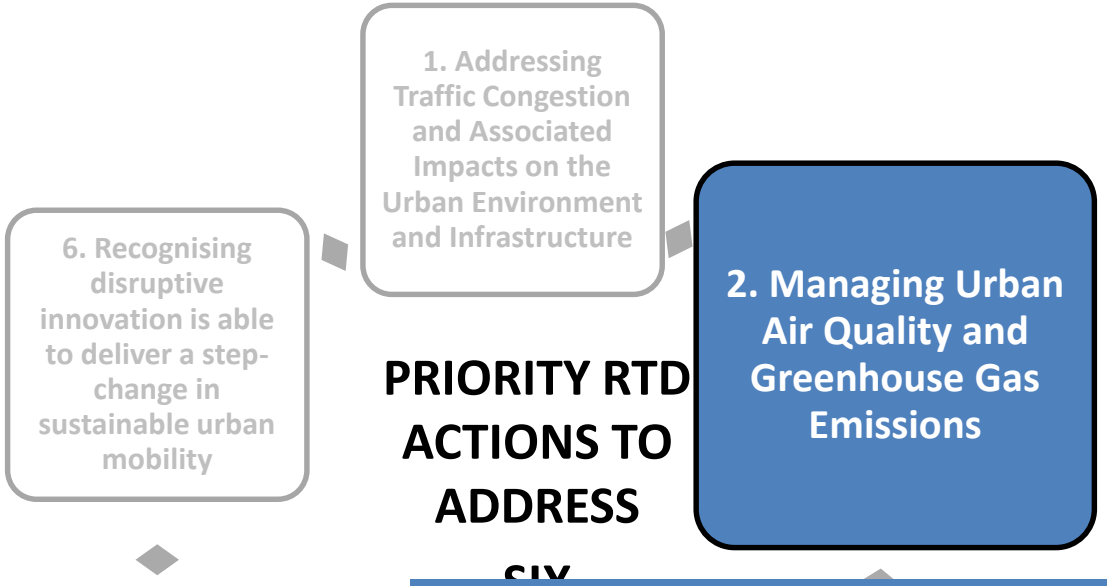
CHALLENGE 2: Priority Actions



THE ISSUE Priority RTD Actions:

- New integrated systems using space, airborne and in situ sensors to monitor air quality & identify sources of emissions in urban areas.
- New tools to support the regulation of emission levels.
- Satellite technology to determine greenhouse gas emissions.
- Advanced sensor monitoring and model forecasting of emission levels.

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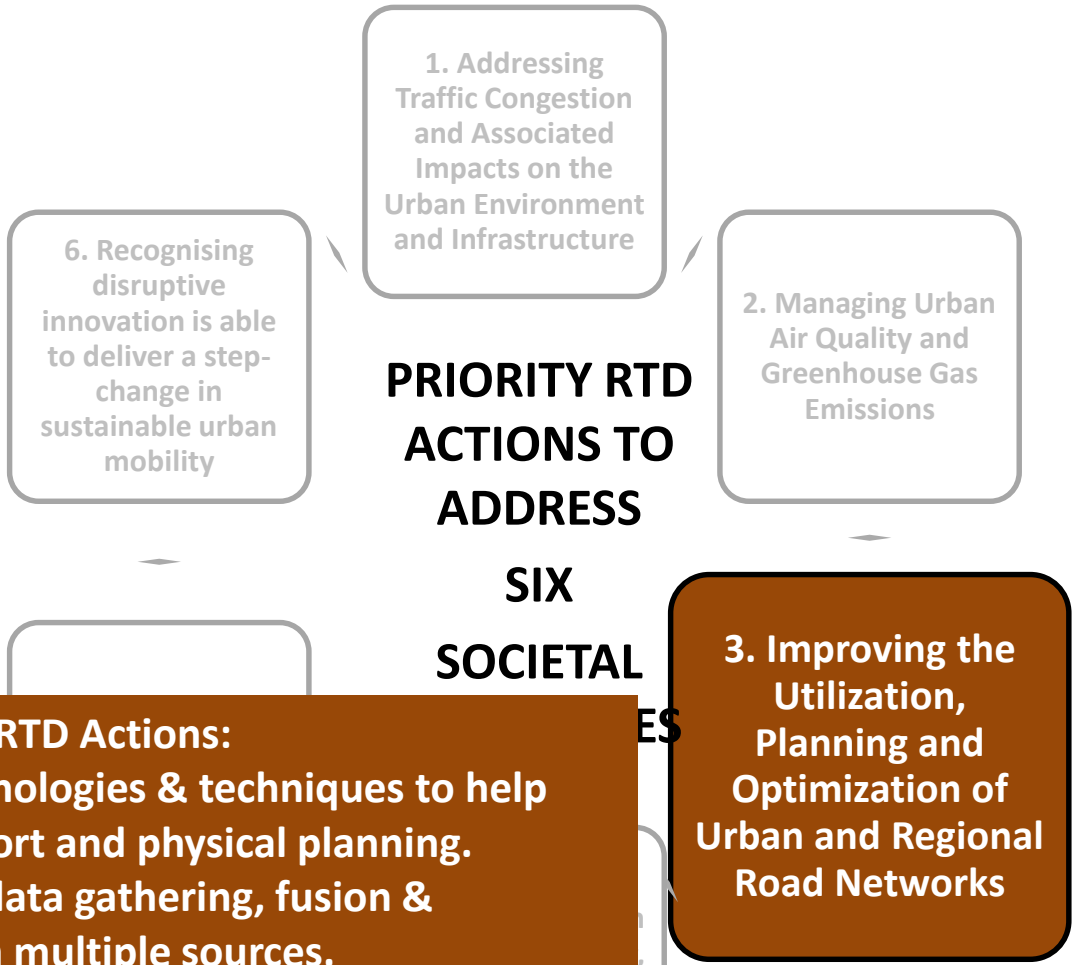
CHALLENGE 3: Priority Actions



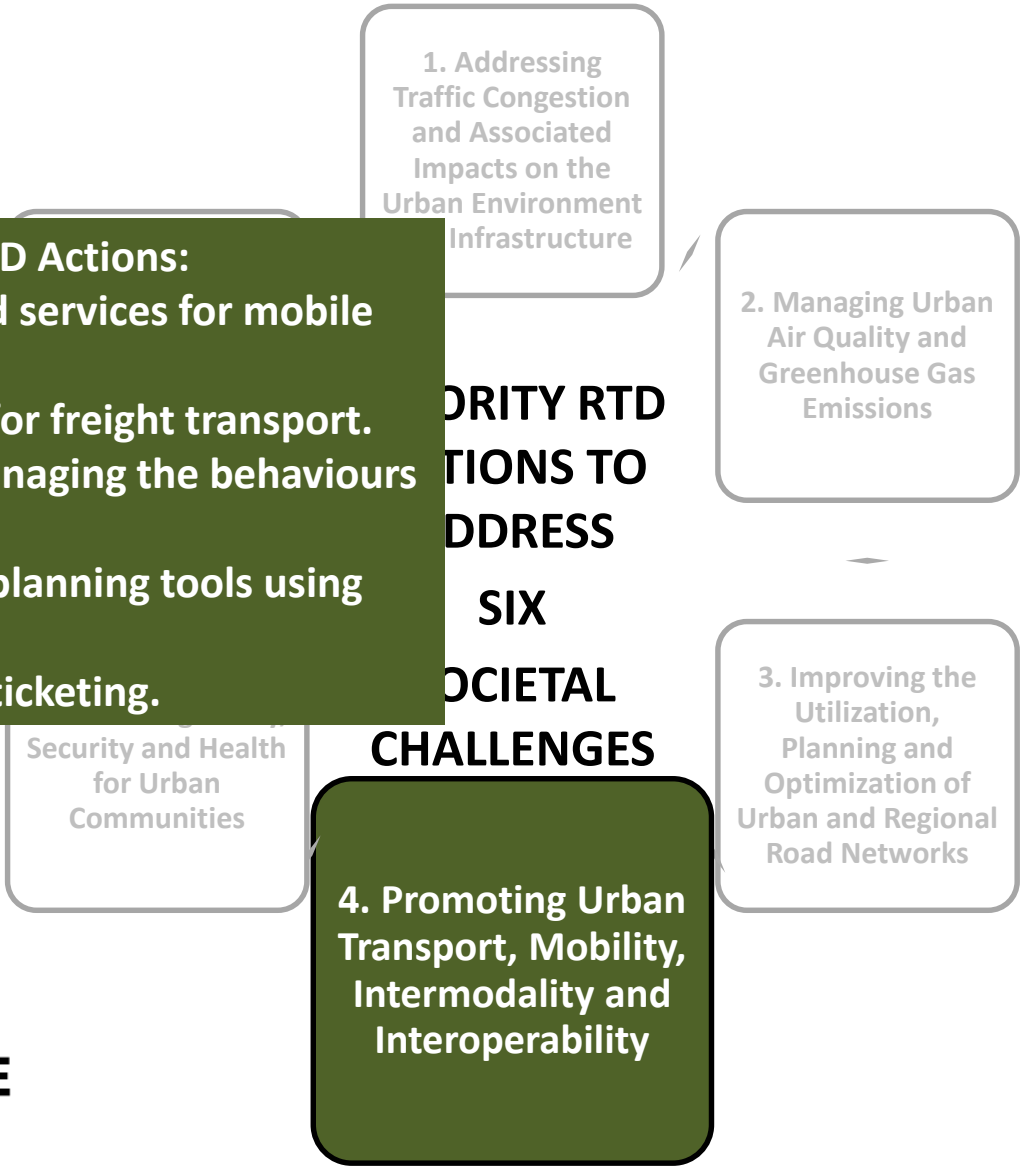
THE ISSUE Priority RTD Actions:

- **Integrated technologies & techniques to help improve transport and physical planning.**
- **Innovations in data gathering, fusion & processing from multiple sources.**
- **Satellite and airborne-based technologies and Open Source GIS for transport and physical planning.**

CHALLENGE 4: Priority Actions

THE ISSUE Priority RTD Actions:

- **Localization-based services for mobile citizens.**
- **Tracking services for freight transport.**
- **Predicting and managing the behaviours of crowds.**
- **Innovative travel planning tools using GIS Technologies.**
- **Smart integrated ticketing.**



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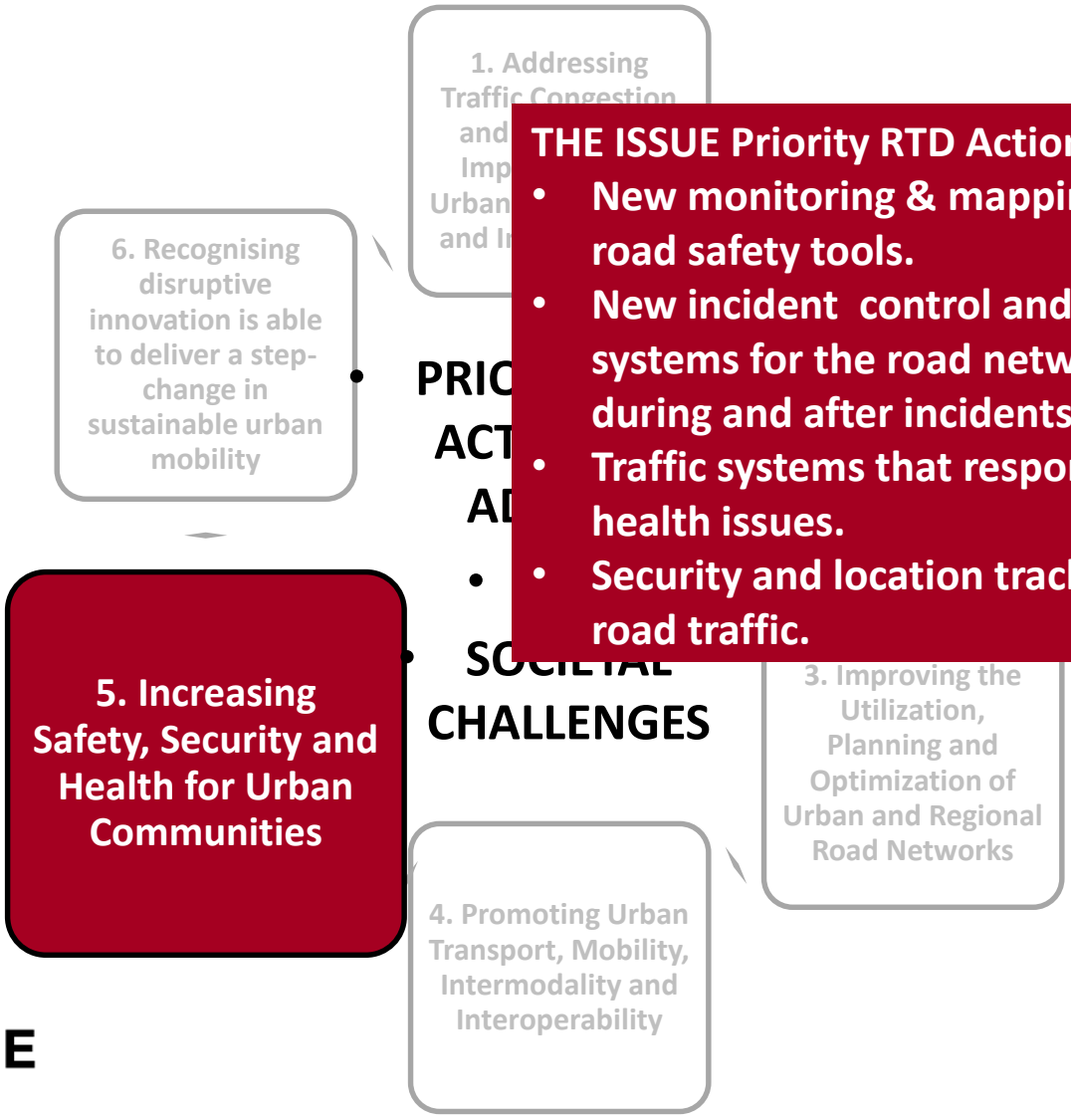
CHALLENGE 5: Priority Actions



THE ISSUE Priority RTD Actions:

- **New monitoring & mapping systems for road safety tools.**
- **New incident control and management systems for the road network before, during and after incidents.**
- **Traffic systems that respond to community health issues.**
- **Security and location tracking for freight road traffic.**

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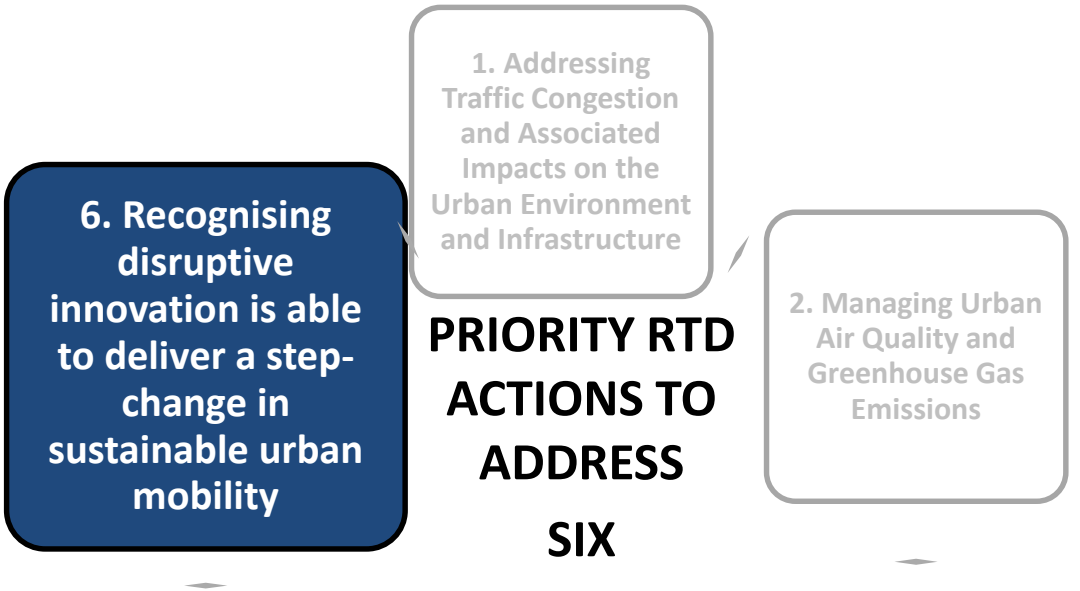
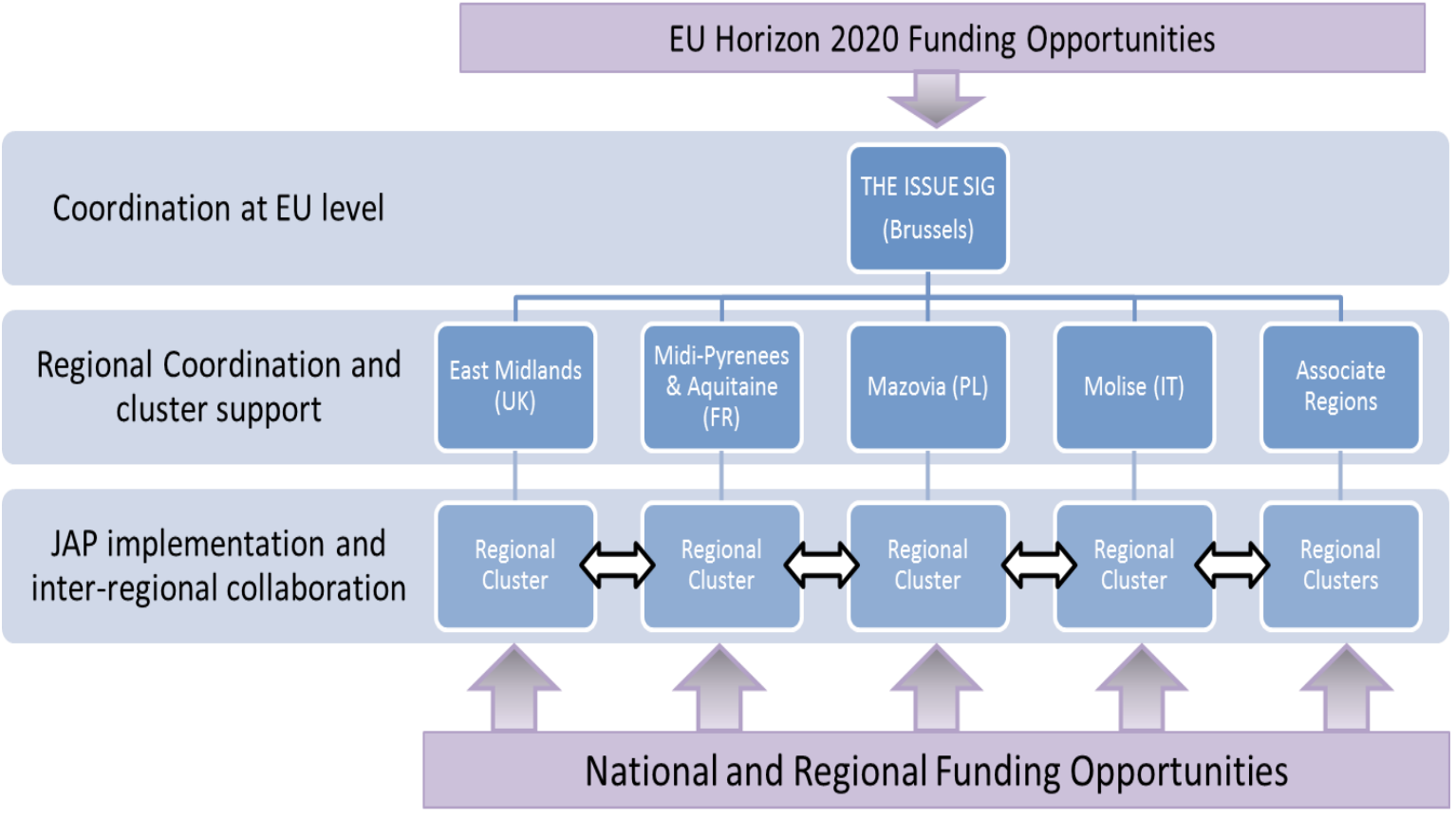
CHALLENGE 6: Priority Actions



THE ISSUE Priority RTD Actions:

- **SMART solutions for sustainable cities, regions and transport networks, including:**
  - **Triple-helix collaborations (industry, universities, public sector) to promote more effective organisational collaborations;**
  - **ITS solutions for changing user behaviour and overcoming barriers to modal shift;**
  - **Measures to overcome existing barriers and improve uptake of Low Carbon Vehicle Technology.**

THE ISSUE Transport Special Interest Group



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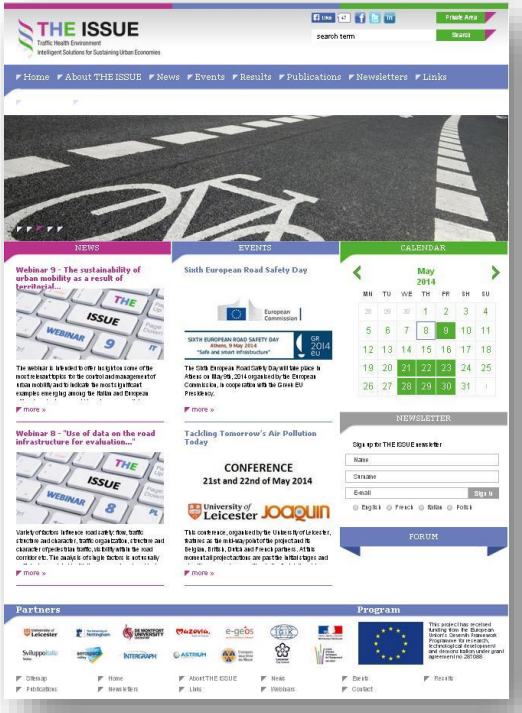
Thank you for your attention!



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