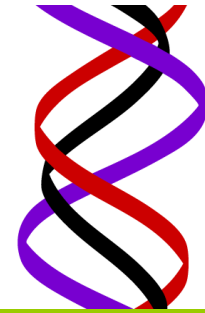


FP7 Regions of Knowledge

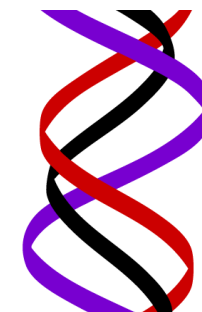


THE ISSUE.

Traffic– Health– Environment.
Intelligent Solutions Sustaining
Urban Economies.

Professor Alan Wells,
Project Scientific Adviser.

2010 Call Regions of Knowledge



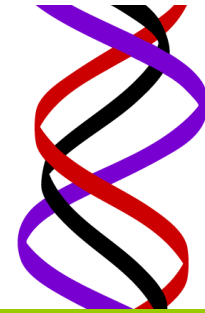
**Call for:
Cooperation between regional research-driven clusters.**

**Co-ordinated action to support economic sustainable
development by boosting the competitiveness of
transport-related economies.**

**Regional “Triple Helix “ clusters from 3 or more trans-national
regions.**

THE ISSUE

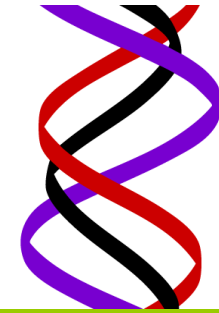
Proposal Timeline



Call Open, July 2010
Proposal Submission, December 2010.
THE ISSUE Selected, April 2011
Contract Negotiation, June-Nov 2011.
Start, January 1 2012
Duration, 3 years
Value 2.7M€

Regions of Knowledge

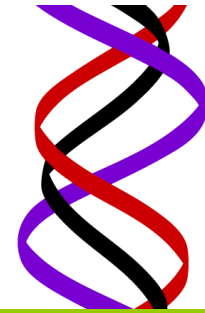
Targeted Development Areas



- **Intelligent Transport Systems**
- **Transport impacts on urban mobility.**
- **Transport greening.**
- **Intermodal regional transport**
- **Associated economic, health and environmental impacts.**
- **Safety and security of citizens.**

THE ISSUE

Project Aims



Coordination of Research and Technology Development (RTD) programmes in transport-related areas across partner regions .

Policy impacts of innovative transport technology on regional & urban economies .

Co-operation between research-driven clusters in areas relating to Traffic, Health and Environment.

Wider application of space and ICT technologies (especially GMES and GNSS) in the transport sector.

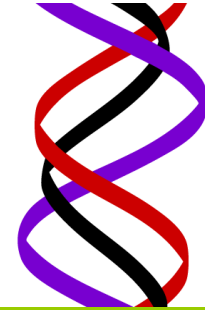
THE ISSUE Consortium



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Partner experience and links with space technologies. (Traffic)



Intelligent Traffic Systems (ITS).
Urban and regional transport and
infrastructure planning.

**Management and safety of transport
infrastructure.**

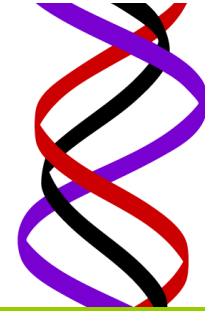
**Computer intelligence solutions and
real-time satellite navigation data
integrated into existing operational
traffic management systems.**



**Real-time journey planning for public
transport users.**

Mobile phone services linked to ITS.

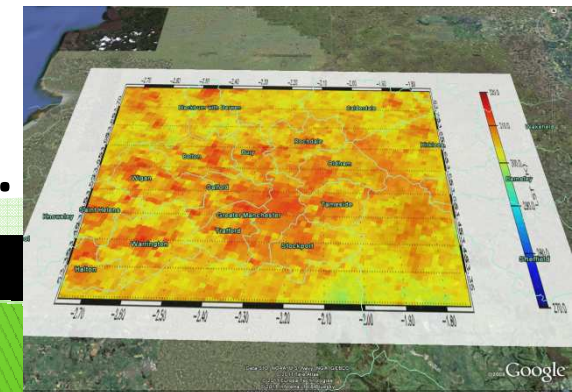
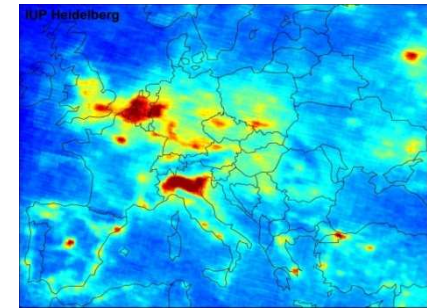
Partner experience and links with space technologies. (Health)



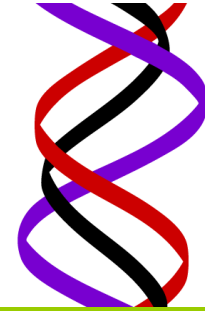
Space and in-situ measurements of urban air quality.

Mitigate risk to citizens' health from traffic-induced air pollution and other environmental risks.

Planning considerations and Urban Heat Islands.



Partner experience and links with space technologies. (Environment)

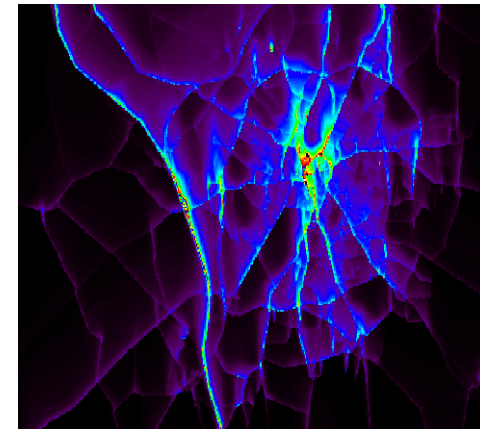


**GIS and database developments for
transport and infrastructure planning
supporting regional authorities.**

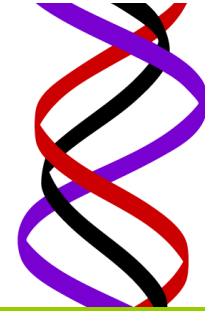
**Economic and social considerations of
congestion charging.**

**Green technology hydrogen powered
vehicles .**

**Technology demonstration and
pre-operational trials in the urban
environment.**



Region of Knowledge Triple Helix Concept



Regional or Local Authority

Academic Institution

Industry

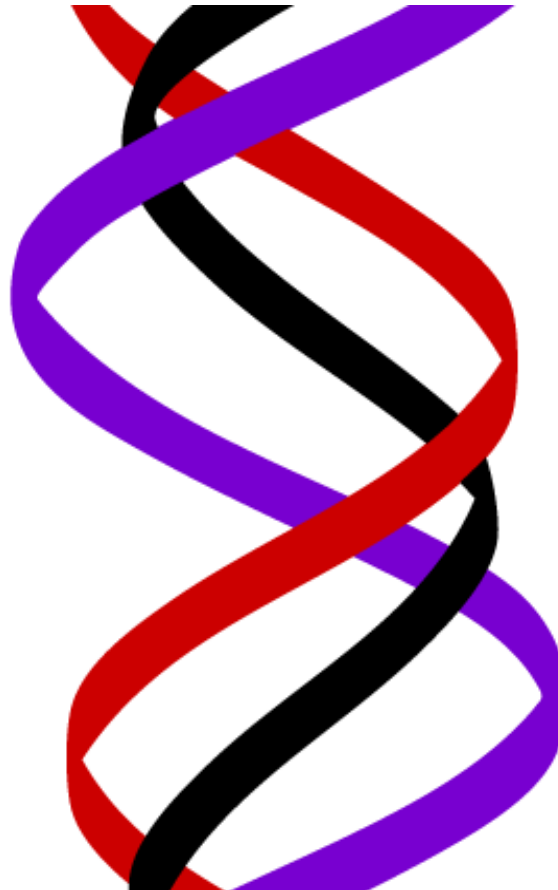
**Working together through research-driven
regional clusters.**

DNA of Triple Helix Structures

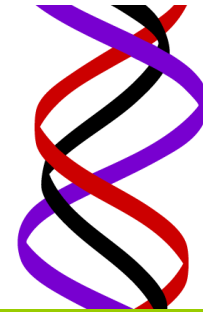
Knowledge Exchange and Coordination



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THE ISSUE Tasks



Audit and coordinate R&D activities (in THE) in partner regions.

Review and audit regional transport strategies and economic growth plans (in THE) in partner regions.

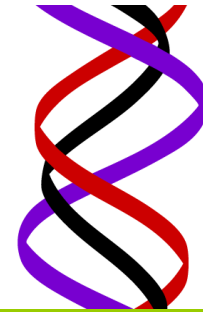
Align future R&D activities to economic and strategic priorities of partner regional authorities.

Establish a Joint Action Plan for future near market R&D (EU Budget 2014-2020).

Open the consortium to affiliated regional partners (e.g. via NEREUS & new regions) to help establish new regional research clusters .

THE ISSUE.

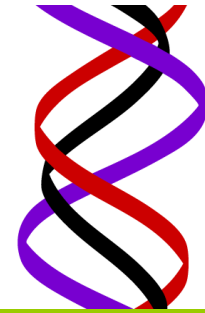
Timeline



- ▶ **Regional R&D and Transport Policy Audit. SWOT Analysis. Coordination and knowledge exchange between on-going R&D projects**
- ▶ **Joint Action Plan for future R&D priorities for regional authorities in THE.**
 - ▶ **Business Plan**
 - ▶ **Future Funding Opportunities, EC, National, Regional.**
- ▶ **Engaging and mentoring new research clusters in affiliated regions.**
 - ▶ **New member regions can apply join THE ISSUE consortium. Target-at least 8 new affiliated regions.**
 - ▶ **Secondments and staff exchanges.**
 - ▶ **Open Conferences.**
- ▶ **Implementation of Joint Action Plan.**
 - ▶ **Pre-project studies**
 - ▶ **Special Interest group**
 - ▶ **Joint Proposals.**

THE ISSUE.

Growth Potential



- ▶ **Economic development between international partners in areas aligned with regional transport, health and environment policies.**
 - **THE ISSUE JOINT ACTION PLAN: Target 25M€-50M€ in new EU and national projects for THE ISSUE partners in 2014-2020 timeframe.**
- ▶ **Region of Knowledge creates favourable opportunities for partners for future R&D, exploitation and delivery programmes.**
- ▶ **8 or more new regions enabled to join THE ISSUE partnership.**
- ▶ **Academic Industry Partnerships meet many national technology innovation strategies**
 - **Intelligent Transport; Space.**

Typical Examples of EC Calls. Relevant for Regional Authority end-use of R&D-led Projects.



NEW TRANSPORT AND MOBILITY CONCEPTS

HIGH QUALITY PUBLIC TRANSPORT

Coordinating innovation for efficient bus systems in the urban environment.

INNOVATIVE STRATEGIES FOR CLEAN URBAN TRANSPORT.

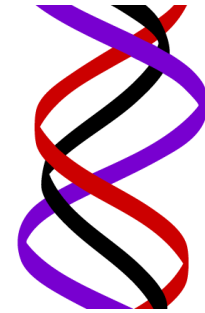
▶ EUROPEAN GREEN CAR INITIATIVES

- *Smart infrastructures and innovative services for electric vehicles in the urban grid and road environment.*

▶ SPACE THEMES

- Urban Air Quality
- Heat Island Impacts.

THE ISSUE as a model for other NEREUS-led inter-regional projects.



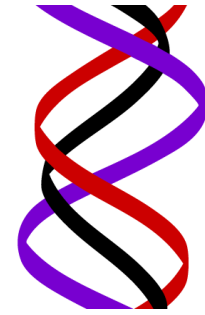
Early consultation with the Commission.

Work with research-driven clusters especially in NEREUS regions.

Identify relevant application of space technologies (e.g. GNSS and GMES).

Use NEREUS working groups to develop contacts for exploring potential for collaboration.

Structure consortium to match needs of the call. (Expertise, geographical spread, cost.). Mentor less developed regions.



Thank you for listening.

I welcome questions.