SUGAR: Discussion on future EU funded experiences in city logistics

Good Practice Round Table
Brussels, 4th May 2011
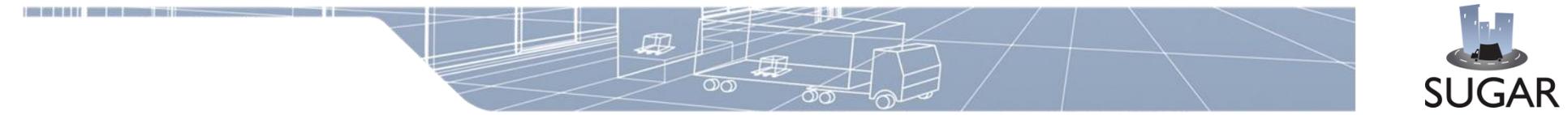
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Brussels *03rd – 06th May 2011*

- ➤ **EU funded good practices in city logistics**
  - ➤ From enforcement to co-projecting city logistics rules
  - ➤ Tools for modelling urban freight distribution
  - ➤ The value of mapping and exchanging experiences in city logistics
  - ➤ ITS developments for city logistics

➤**Discussion on future EU funded experiences in city logistics**
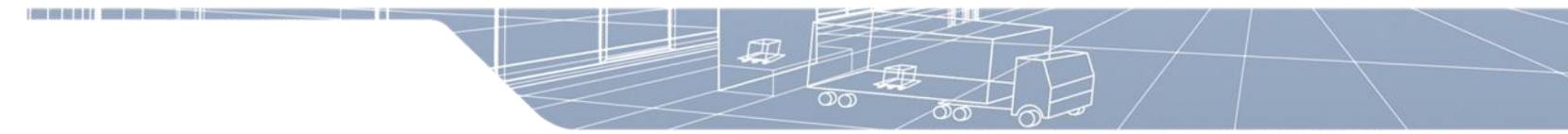
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Public funds supporting city logistics activities:

➢ funds of local authorities

➢ funds of national government

➢ **EU R&D Framework Programme funds**

  ➢ **7th (8th) Framework Programme**

    » CIVITAS, …

  ➢ **European Territorial Cooperation Objective** (programmes co-funded by the European Regional Development Fund)

    » 52 cross-border cooperation programmes

    » 13 transnational cooperation programmes

    » The interregional cooperation programme (INTERREG IVC) and 3 networking programmes (Urbact II, Interact II and ESPON) cover all 27 Member States of the EU.

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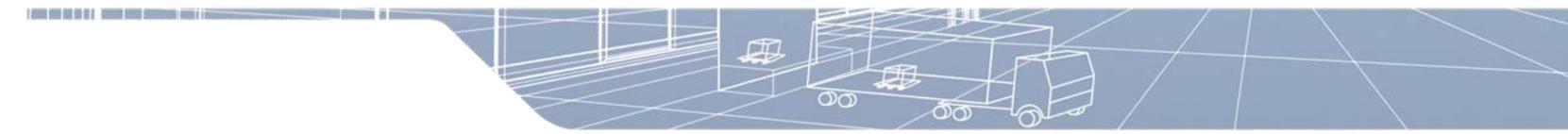
- ➤ **7th Framework Programme** **four specific programmes :**

  - ➤ **People** (supporting researcher mobility and career development in all fields of scientific research)

  - ➤ **Capacities** (aims to enhance research and innovation capacities throughout Europe)

  - ➤ **Ideas** (aims to reinforce excellence, dynamism and creativity in European research)

  - ➤ **Cooperation** (the core programme of FP7, total budget of €32.4 billion) divided into 10 themes:
    - » Health
    - » Food, Agriculture and Fisheries and Biotechnology
    - » Information and Communication Technologies
    - » Nanosciences, Nanotechnologies, Materials and new Production Technologies
    - » Energy
    - » Environment (Including Climate Change)
    - » **Transport (including Aeronautics)**
    - » Socio-economic Sciences and Humanities
    - » Space
    - » Security

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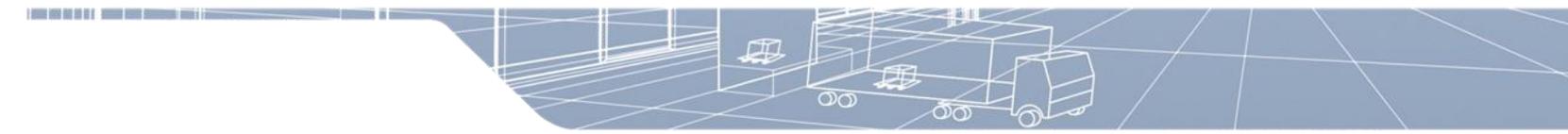
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> ## 7th Framework Programme

>> ### Cooperation programme

>>> » **Transport (including Aeronautics)**

Budget: **€ 4.16 billion** over the duration of FP7.

Objective is to **develop safer, greener and smarter transport systems** for Europe that will benefit citizens, respect the environment, and increase the competitiveness of European industries in the global market

Why: to **mitigate the negative impacts and consequences of increased mobility** in relation to the environment, energy usage, safety and security and public health.

Between the activities emphasized:
> reducing the impact of transport on climate change,
> inter-modal regional and national transport,
> clean and safe vehicles,

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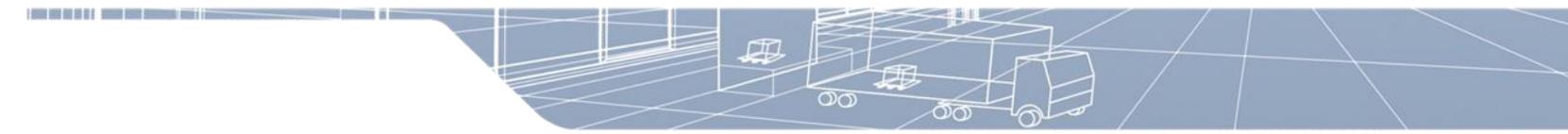
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> **7th Framework Programme**
>> ICT Work Programme 2011-12

Budget: **€ 9.1 billion** over the duration of FP7.

ICTs have a catalytic impact in three key areas:
> productivity and innovation, by facilitating creativity and management;
> **modernisation of public services, such as health, education and transport**;
> advances in science and technology, by supporting cooperation and access to information.

Between the challenges:
> **Challenge 6: ICT for a low carbon economy**
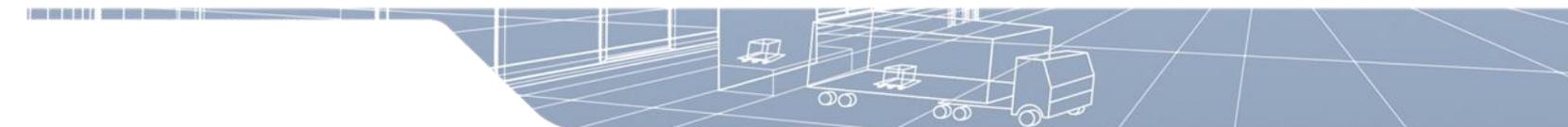
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- **7th Framework Programme**
  - ICT Work Programme 2011-12
    - » **Challenge 6: ICT for a low carbon economy**

- ICT for low-carbon multi-modal freight and logistics covering technologies and services for multi-modal freight and logistics as well as ICT for clean and efficient multi-modal mobility for further improving energy efficiency and reducing CO2 emissions in all modes of transport for passengers and goods;
- Cooperative Systems for low-carbon multi-modal mobility covering cooperative applications and services for energy efficiency and eco-friendly mobility as well as a European Wide Service Platform (EWSP) for services leveraging those cooperative systems;
- ICT for fully electric vehicles advancing the development and integration of major building blocks of the Full Electric Vehicle (FEV), and integrating the FEV with infrastructures. Projects supported under this objective will contribute to the European Green Cars Initiative, a Public-Private-Partnership launched in 2008 as part of the European Economic Recovery Plan.
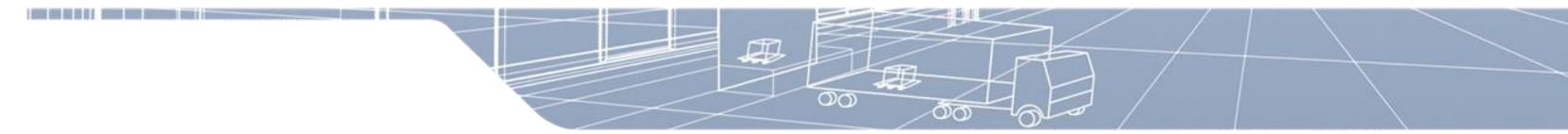
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- **7th Framework Programme**
  - ICT Work Programme 2011-12
    - » Challenge 6: ICT for a low carbon economy
      - ▪ **Objective ICT-2011.6.6 Low carbon multi-modal mobility and freight transport**

Target Outcome (1/2)

- **ICT for low-carbon multi-modal freight and logistics covering technologies and services for multi-modal freight and logistics, and using new technologies such as RFID, wireless sensor networks and common platforms and architectures. The focus is on:**
  - Integration of different transport modes (road, rail, air and sea transport), following Europe's transport policy principle of co-modality, in particular between road transport and other modes
  - Intermodal interoperable logistics management and tracking systems and Intelligent Cargo systems which support the decarbonisation of transport by providing real-time process and status information on cargo and its movements to users, for increased transport efficiency and timeliness and the integration of the intelligent cargo systems into the multi-modal transport data infrastructures.
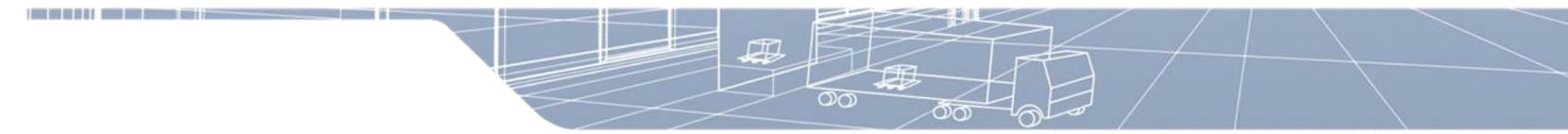
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- **7th Framework Programme**
  - ICT Work Programme 2011-12
    - » Challenge 6: ICT for a low carbon economy
      - ▪ **Objective ICT-2011.6.6 Low carbon multi-modal mobility and freight transport**

Target Outcome (2/2)

- **ICT for clean and efficient multi-modal mobility for further improving energy efficiency and reducing CO_2 emissions in all modes of transport for passengers and goods:**
  - New tools, systems and services supporting energy-efficient driving and driver behavior adaptation
  - Environmentally aware route and access planning, intelligent road infrastructures, definition of digital map attributes for eco-routing and advanced multi-modal travel and traffic advice and information systems for individual and collective transport
  - Methodologies for assessing the impact of advanced ICT in energy efficiency and CO_2 reduction, and in instantaneous emission models which take into account driver behaviour.

- **Coordination and Support Actions**
  - In the framework of the Intelligent Car Initiative, support to the eSafety Forum activities such as stakeholder consultations, road mapping and organising events and dissemination.
  - Support to research agendas for energy efficiency, international cooperation, user awareness raising and dissemination of research results, international standardisation and harmonisation.
  - Support the establishment of European large scale actions spanning research, innovation and deployment of service infrastructures for sustainable mobility and transport.
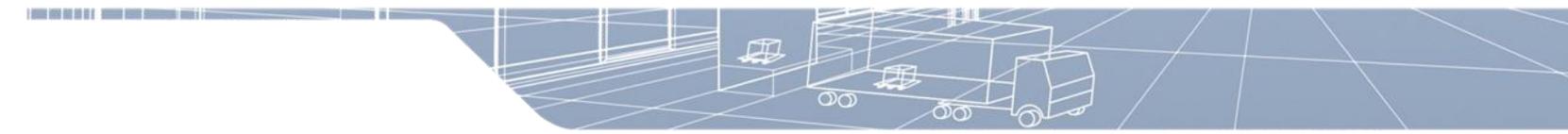
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➢ **7th Framework Programme**

  ➢ ICT Work Programme 2011-12

    » Challenge 6: ICT for a low carbon economy

      ▪ **Objective ICT-2011.6.6 Low carbon multi-modal mobility and freight transport**

Expected Impact

➢ **Strengthened position of Europe's logistics and freight industries in the marketplace for low-carbon products and services**

➢ **Significant improvements in efficiency and environmental friendliness of mobility and transport in Europe; target: 25% reduction in GHG emissions in transport**

➢ **Full integration of intelligent cargo items into the multi-modal transport infrastructure, with special emphasis on urban multi-modal logistics**

➢ **Widening the market for new ICT-based mobility and transport services in Europe and worldwide.**
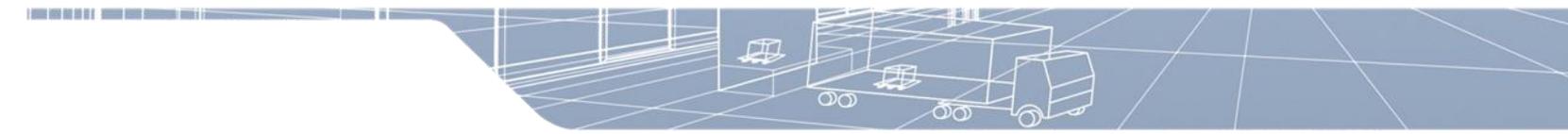
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- ## 7th Framework Programme
  - ### ICT Work Programme 2011-12
    - » Challenge 6: ICT for a low carbon economy
      - ▪ **Objective ICT-2011.6.7 Cooperative Systems for energy efficient and sustainable mobility**

Target Outcome (1/2)

- **Cooperative Systems for low-carbon multi-modal mobility covering cooperative applications and services for energy efficiency and eco-friendly mobility based on the harmonised European Communications Architecture31 and bidirectional vehicle-to-vehicle (V2V), road-to-vehicle (R2V) and vehicle-to-infrastructure (V2I) communication technologies:**
  - Design, development and testing of new cooperative and pro-active traffic and travel management and control strategies based on the availability of reliable real-time systemwide data, including handling of special events and recovery after incidents.
  - Addressing the interaction between the driver, the vehicle and the infrastructure, user acceptance and deployment of cooperative energy efficiency services, taking into account the needs of Fully Electric Vehicles such as integration with charging networks.
  - Liability, privacy, reliability, security and Human Machine Interaction should be addressed as well. The focus should be on road transport, as this sector presents the largest challenges. Projects could also address all transport modes according to the principle of comodality, and include smart urban mobility.
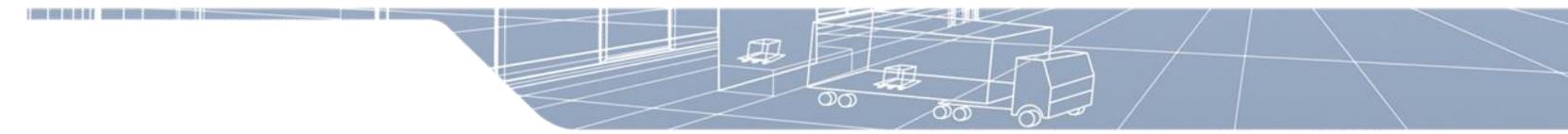
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- ➢ **7th Framework Programme**
  - ➢ ICT Work Programme 2011-12
    - » Challenge 6: ICT for a low carbon economy
      - ▪ **Objective ICT-2011.6.7 Cooperative Systems for energy efficient and sustainable mobility**

Target Outcome (2/2)
- ➢ **European Wide Service Platform (EWSP) for cooperative system enabled services, aiming at providing to the drivers and other users a large variety of energy efficiency, mobility, comfort and safety related services:**
  - ➢ - Intelligent combination of wireless communication technologies, development of network and transport communication protocols and security and control mechanisms, and support to their standardisation.
  - ➢ - Development of the necessary EWSP subsystems for service development, discovery, provision and administrative operations
  - ➢ - Development of interoperable innovative services for the EWSP, based on Future Internet technologies and in coordination with activities under the Future Internet PPP of Challenge 1.
- ➢ **Coordination and support actions**
  - ➢ - Dissemination of results, user awareness campaigns, assessments of socio-economic impact and training.
  - ➢ - In accordance with the specific cooperation agreements with Japan and the USA: active exchange of information and results, and international standardisation and harmonisation.
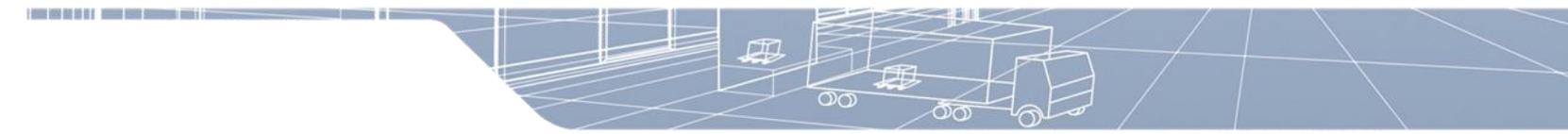
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  - ➢ ICT Work Programme 2011-12
    - » Challenge 6: ICT for a low carbon economy
      - ▪ **Objective ICT-2011.6.7 Cooperative Systems for energy efficient and sustainable mobility**

Expected Impact

- ➢ **Decarbonisation of transport significant improvements in energy efficiency and environmental friendliness of transport and mobility in Europe**
- ➢ **Improving the competitiveness of the European transport industry as a whole, and enabling them to continue to address global markets successfully. World leadership of Europe's automotive industry in the area of Cooperative Systems.**
- ➢ **Opening new markets for mobility, safety, energy efficiency and comfort services in Europe. Ensuring market leadership by Europe's industry in green products and services.**
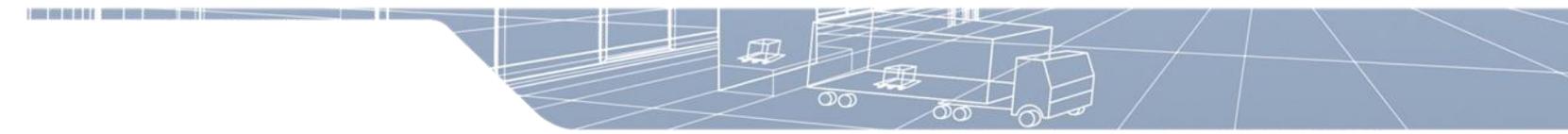
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➢ 7th Framework Programme

➢ ICT Work Programme 2011-12

» Challenge 6: ICT for a low carbon economy

▪ **Objective GC-ICT-2011.6.8 ICT for fully electric vehicles**

Target Outcome

➢ Energy/Power Storage Systems

➢ Architectures for Energy, Communication and Thermal Management

➢ Vehicle-to-grid Interface (V2G)

➢ Vehicle Stability Control

➢ Electric Drive and Electronic Components

➢ **Integration of the FEV in the cooperative transport infrastructure**

➢ Functional Safety and Durability of the FEV

➢ **Coordination and Support Action "FEV made in Europe"**

…….. The agenda should also investigate new usages for the FEV (e.g. last mile delivery …..); it should cover standardisation measures; it should propose measures for harmonisation of national research policy measures and programmes, and also propose actions for international collaboration. The action should involve relevant electrical vehicle stakeholders.
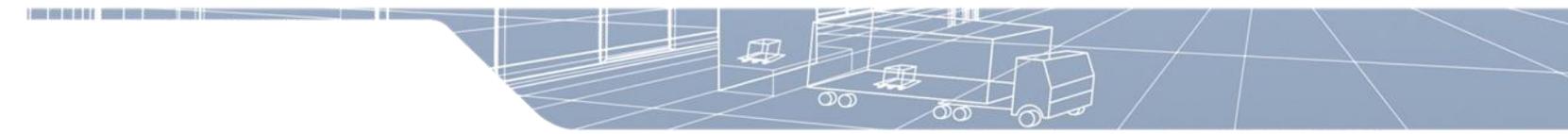
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> ## 7th Framework Programme

>> ## ICT Work Programme 2011-12

>>> » Challenge 6: ICT for a low carbon economy

>>>> ▪ **Objective GC-ICT-2011.6.8 ICT for fully electric vehicles**

Expected Impact
- **Improved energy efficiency and extended driving range of the FEV**
- **Reduced costs of the electronic components and the overall FEV at increased performance**
- **Mitigated constrains for the user of the FEV versus the Internal Combustion Engine Vehicle**
- **The FEV seamlessly implemented in the smart grids and existing infrastructure**
- **Significant improvement of FEV's safety, comfort and new information and comfort services for FEV users.**
- **Strengthened global competitiveness of the European automobile, ICT and battery sectors.**
- **Market penetration of key components of FEVs.**

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➢ 7th Framework Programme

➢ CIVITAS PLUS

The EC aims to generate a decisive breakthrough by supporting and evaluating the implementation of **ambitious integrated sustainable urban transport strategies** that should make a real difference for the welfare of the European citizen.
CIVITAS call is has closed in April

Objectives:
➢to promote and implement **sustainable, clean and (energy) efficient urban transport measures**
➢to implement integrated packages of **technology and policy measures in the field of energy and transport** in 8 categories of measures
➢to build up **critical mass and markets for innovation**

Horizontal projects support the CIVITAS demonstration projects & cities by :
➢Cross-site evaluation and Europe wide dissemination in co-operation with the demonstration projects
➢The organisation of the annual meeting of CIVITAS Forum members
➢Providing the Secretariat for the Political Advisory Committee (PAC)
➢Development of policy recommendations for a long-term multiplier effect of CIVITAS

Key elements of CIVITAS
➢CIVITAS is co-ordinated by cities: it is a programme "of cities for cities"
➢Cities are in the heart of local public private partnerships
➢Political commitment is a basic requirement
➢Cities are living 'Laboratories' for learning and evaluating

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➢ 7th Framework Programme

➢ CIVITAS

» **CIVITAS Activity Fund**

The CIVITAS Initiative seeks to inspire **cities and towns interested in achieving more sustainable, clean and energy efficient urban transport systems**, by implementing and showcasing ambitious sets of **technology and policy based measures**.

In doing so, CIVITAS does not only fund large-scale demonstration activities (i.e. the CIVITAS I, II and PLUS projects) but **also small-scale projects** that are meant to stimulate the exchange of ideas, expertise and concrete actions in the field of urban sustainable mobility.

Funding opportunities for small-scale projects is made available through a dedicated CIVITAS Activity Fund. The fund seeks to enable the exchange and/or transfer of experiences between the CIVITAS cities and other cities interested in CIVITAS' integrated approach to sustainable mobility

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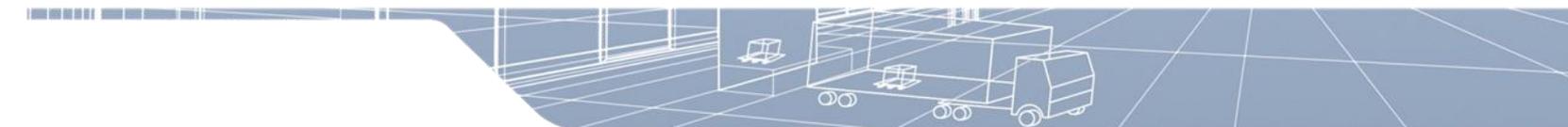
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➢ 8th Framework Programme

On 9th February 2011, the European Commission published a Green Paper which proposes major changes to EU research and innovation funding to make participation easier, increase scientific and economic impact and provide better value for money. The changes, to be introduced in the next EU budget after 2013, would bring together the current Framework Programme for Research, the Competitiveness and Innovation Programme, and the European Institute of Innovation and Technology.

The Commission is now seeking the views of all interested individuals and organisations on these proposed changes and on the 27 specific questions set out in the Green Paper. The deadline for contribution is Friday 20th May 2011.

There are a number of ways you can contribute:

➢ Via an online questionnaire;

➢Submission of written response;

➢Via an interactive blog;

➢Participation in Information Events, which are being organised by Member States and organisations during the consultation period.

The responses received will be analysed carefully be the Commission services. They will be used to design the proposals, to be presented by the Commission by the end of 2011, for a legislative decision of the Council and Parliament on the Common Strategic Framework.
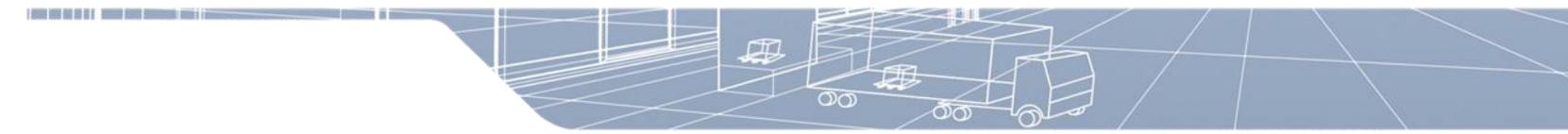
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➢ **European Territorial Cooperation Objective (programmes co-funded by the European Regional Development Fund)**

» The interregional cooperation programme (INTERREG IVC) and 3 networking programmes (Urbact II, Interact II and ESPON) cover all 27 Member States of the EU.

▪ INTERREG IVC (4th call is has closed in April)

It supports cooperation across all 27 EU Member States as well as Norway and Switzerland.

IVC is a "Capitalisation" Programme, meaning that it focuses on the identification, analysis and dissemination of good practices by public authorities to improve the effectiveness of regional and local policies. The Programme supports activities such as:

➢ **Exchange and dissemination of experience** (e.g. thematic seminars, study visits, staff exchanges, web sites, newsletters & good practice guides)

➢ **Transfer of Practices / Development of new approaches** (e.g. regional policy tools, methodologies, software etc.)

➢ **Joint development of new approaches** (sub-projects to improve policies and strategies and mini-programmes).

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➢ **European Territorial Cooperation Objective (programmes co-funded by the European Regional Development Fund)**

» The interregional cooperation programme (INTERREG IVC) and 3 networking programmes (Urbact II, Interact II and ESPON) cover all 27 Member States of the EU.

▪ URBACT II (4th call is has closed in April)

URBACT is a European exchange and learning programme promoting sustainable urban development that help cites to develop pragmatic SOLUTIONS that are new and sustainable, and that integrate economic, social and environmental dimensions.

It enables CITIES to work together to develop solutions to major urban challenges, reaffirming the key role they play in facing increasingly complex societal changes and to SHARE good practices and lessons learned with all professionals involved in urban policy throughout Europe.

Budget: 69M€ (2007-13) - The next call for proposals will be in 2011

9 areas of expertise, amongst which:

➢Low carbon urban environment

➢Metroplitan governance

➢Port cities

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➢ **European Territorial Cooperation Objective (programmes co-funded by the European Regional Development Fund)**

  ➢ 13 transnational cooperation programmes, like

    » Central Europe

      ▪ Innovation

      ▪ **Accessibility**

        • improving Central Europe's interconnectivity;

        • **developing multi-modal logistics cooperation;**

        • **promoting sustainable and safe mobility;**

        • **promoting information and communication technology, as well as alternative solutions for enhancing access.**

      ▪ Environment

      ▪ Competitiveness

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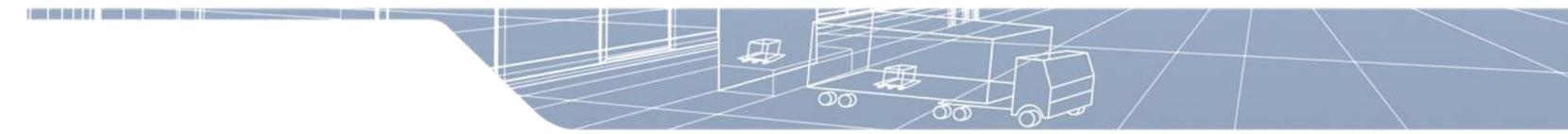
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➢ **Central Europe**

  ➢ Accessibility

    » **Developing multi-modal logistics cooperation**
- establishing cooperation among logistic centres and networks
- developing Information and Communication Technologies (ICT) for cooperation in logistics
- putting cooperation between inter-modal and logistics platforms into practice
- implementing multi-modal logistic solutions

    » **Promoting sustainable and safe mobility**
- sharing experiences on the preparation and implementation of sustainable and safe transport solutions
- supporting the development of advanced technological solutions for traffic-management (e.g. based on the Galileo system)
- promoting the quality and attractiveness of public urban transport
- implementing innovative and sustainable solutions to tackle transport bottlenecks (congestion management, road-pricing, internalising external costs etc.)
- fostering applications, strategies and preparation of policy decision for more safety in transport
- putting strategies to accompany major transport infrastructure systems with sustainability and safety assessments into practice
- applying solutions and strategies for the mitigation of negative impacts of transport projects
- implementing innovative transportation concepts for changing demographic situations
- promoting actions to enhance the quality of transport within cities

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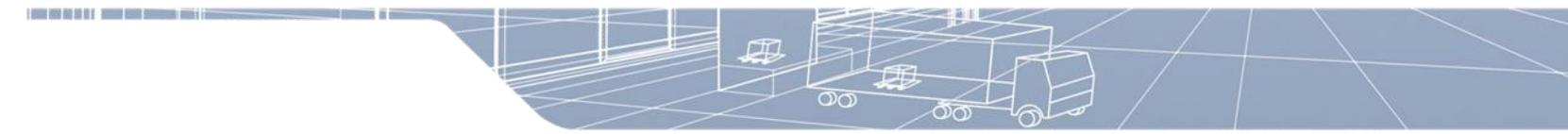
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➢ **Central Europe**

➢ Accessibility

» **Promoting ICT and alternative solutions for enhancing access**

- Traffic volumes in Central Europe are increasing, but the expansion of the traffic network does not automatically increase mobility, as bigger capacities can also induce further increases in volumes.
- Information and Communication Technologies offer opportunities to substitute physical mobility by providing easier access to services and information. Besides technological-based solutions for enhancing efficiency in traffic, also non-technological, alternative solutions (organisational, institutional, and strategic) are capable of enhancing access.
- Specific Objectives
- This Area of Intervention generally seeks to improve accessibility of information and services, while reducing traffic volumes. Better solutions (technological and alternative) for enhanced mobility will be achieved.
- Content
- promoting ICT for access to and provision of public services
- using ICT as an instrument to reduce transnational traffic (e.g. video-conferencing, websites, supply-chain-management…)
- applying ICT to develop efficient traffic management systems and traffic information systems of transnational transport flows
- improving the access to infrastructure and services of general interest with alternative solutions to enhance personal mobility
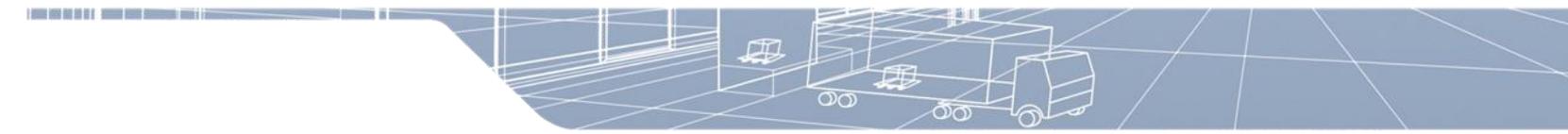
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- **European Territorial Cooperation Objective (programmes co-funded by the European Regional Development Fund)**
  - 13 transnational cooperation programmes, like
    - South East Europe (3rd call now open)

      - Facilitation of innovation and entrepreneurship
      - Protection and improvement of the environment
      - Improvement of the accessibility 3rd call now open: 12M€ available
        - Network of (Hub) cities for an increased access and mobility of people in the SEE region
        - Efficient access to a SEE coordinated multimodal freight network between ports and landlocked countries

      - Development of transnational synergies for sustainable growth areas
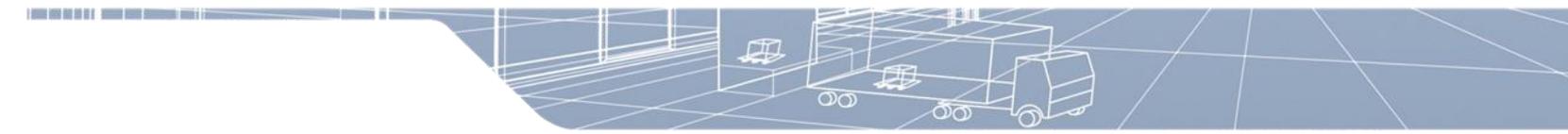
Good Practice Round Table

SUGAR

- **European Territorial Cooperation Objective (programmes co-funded by the European Regional Development Fund)**
  - 13 transnational cooperation programmes, like
    - » South West Europe
    - » Alpine Space
    - » Mediterranean
    - » Baltic sea…

istituto sui trasporti e la logistica fondazione

European Union
European Regional Development Fund

Regione Emilia-Romagna

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