

EU policy for sustainable urban mobility

Piotr Rapacz

07/12/2016

The starting point

Transport provides vital functions to EU cities, enabling economic growth and access to jobs

At the same time, urban mobility is still focused on conventionally-fuelled passenger cars, leading to:

- **Congestion**: estimated €110 bln lost each year in the EU
- **Climate change impact**: urban transport accounts for 23% of CO₂ emissions from transport
- **Health impact** related to ambient air quality (NO_x, PM emissions) and lack of physical exercise (estimated over 400 000 premature deaths/year in the EU)
- **Road accidents**; urban areas still account for 40% of all road fatalities (approx. 11,000 per year)
- **Use of space**: motorized vehicles and their infrastructure use space which could otherwise be dedicated to green areas, public space, bike paths, commercial and residential use etc.

What the EU does

- Transport is a shared responsibility between the EU and the Member States
 - The **subsidiarity principle** applies: the EU may not take action unless it is more effective than action taken at national, regional or local level
- Urban mobility is essentially a local responsibility; however local authorities should not be left alone
- That is why there is a long tradition of EU support:
 1. Setting the Policy Framework
 2. Offering funding and financing
 3. Facilitating the exchange of experience and best practice
 4. Raising awareness

What has been done so far?

A decade of EU support to cities

- **Clear goals**
- **EU laws with impact on urban mobility:**
air quality, CO2 emissions limits, alternative fuels infrastructure, clean vehicle procurement
- **Platforms for exchange:**
CIVITAS, SUMP, C-ITS Platform,
MS Expert Group Urban Mobility – call for Member States' action to support cities
- **Partnerships:** Smart Cities EIP – **scaling up innovation**
- **Guidelines:** SUMP

Setting the Policy Framework

Transport White Paper (2011) – in progress

2 out of the 10 goals are urban:

- *Halve the use of conventionally fuelled cars in urban areas by 2030, phase them out by 2050*
- *Achieve CO2-free city logistics in major urban centres by 2030*
- *(+ one related on safety: By 2050, move close to zero fatalities in road transport. In line with this goal, the EU aims at halving road casualties by 2020.)*

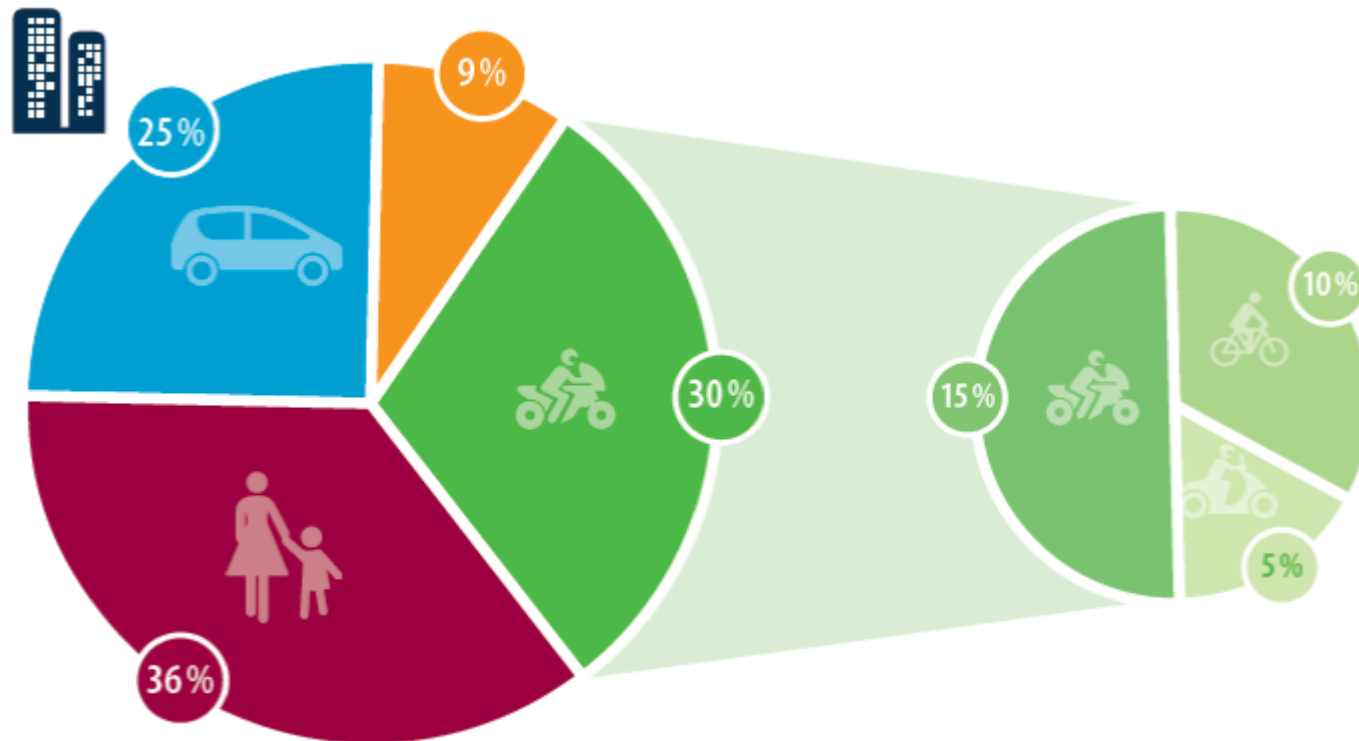
Cities to decide on the best mix of measures: walking, cycling, public/shared transport, cargo-bikes, cleaner, alternatively fuelled cars/buses etc.

Urban Mobility Package (Dec 2013) – in progress

e.g. guidelines on city logistics and urban vehicles access regulation

Pedestrians and cyclists constituted 42% of all fatal victims of road accidents in the EU in 2015.

Cyclist, pedestrians and motorcyclists account for 2/3 of fatalities in urban areas.



Setting the Policy Framework

Climate and Energy Policy Framework 2030

For **transport**, it asks for a comprehensive and technology neutral approach for the promotion of emissions reduction and energy efficiency in transport, for electric transportation and for renewable energy sources in transport also after 2020

Energy Union Package (Feb. 2015)

For **transport**, it asks for a gradual transformation of the entire transport system + increased development and deployment of alternative fuels with infrastructure, vehicles and fuels being rolled out together.

COP21 Agreement (Paris) and a Strategy for low-emission mobility

Strategy adopted by COM in July 2016; transport is taking bigger shares in greenhouse gas emissions so we need to accelerate our efforts to decarbonise it. In line with Paris commitments (December 2015) and mutually reinforcing with other initiatives on urban mobility and clean fuels.

President Juncker: *"... decarbonisation will not happen in high-level negotiations, but on the ground, in cities, where most people live, work and consume energy".*



- 20% CO₂ emissions from transport by 2030

- Global solutions to reduce emissions (IMO, ICAO)
- Polluter pays principle
- Modal shift

DECARBONISATION



INNOVATION



GLOBAL LEADERSHIP



INVESTMENT

- Innovative financing mechanisms (EFSI)
- Infrastructure investment (CEF)
- Strategic Research and Innovation

CEF €24 bn for 2014-2020



deployment of connected vehicles on European roads by 2019



- Intelligent Transport Systems (ERTMS, SESAR, VTMS, RIS)
- Collaborative Economy
- Drones

DIGITALISATION

PEOPLE

- Safety and Security
- Passenger Rights
- Jobs

Halving road deaths by 2020



The 2013 Urban Mobility Package

http://ec.europa.eu/transport/themes/urban/ump_en.htm

- Provide a **basis for a continued debate** about urban mobility: across the EU and in the Member States
- Calls for action from the Member States
- Commits to **reinforced EU support** for local action on urban mobility (2014-2020 financial programming period)
- Gives help for cities to develop Sustainable Urban Mobility Plans
- Gives recommendations for **coordinated action** in: Urban logistics, Urban access regulations, ITS deployment in urban areas, Urban road safety

The 2013 Urban Mobility Package

Help for cities to develop SUMPs

- Member States are invited to assess their current urban mobility and develop an approach that ensures coordinated action at national, regional and local level
- The Commission proposes a concept for SUMPs (content, process) based on experiences from across the EU
- The Commission set up a Platform on SUMPs to coordinate EU action and provide a one-stop-shop portal (www.eltis.eu)

EXAMPLE: How to promote clean public transport in cities?

How to match cities'/transport authorities' demand with industry's offer?

Currently: **Clean Vehicle Directive 2009/33/EC**

Aimed at creating favourable market conditions

Lifetime impacts for purchase decisions:

- Energy consumption; CO₂ emissions;
- Pollutant emissions (NO_x, NMHC, PM)

- **Review announced in the Energy Union for 2017**
- Impact assessment process to start in 2016

EXAMPLE: Directive 2014/94/EU **on the deployment of alternative fuels infrastructure**

- Adopted Oct 2014
- **Urban areas:** appropriate coverage of electric recharging stations and CNG refuelling stations by end 2020
- Member States national policy frameworks
Nov 2016
- European Alternative Fuels Observatory
March 2016

DEPLOYMENT OF ALTERNATIVE FUELS INFRASTRUCTURE	DATE
Electric vehicles recharging points – Urban agglomerations	2020
CNG - Urban agglomerations	2020
CNG - TEN-T Core Network	2025
Hydrogen	2025
LNG - Heavy duty vehicles	2025
LNG - Maritime ports	2025
LNG - Inland Waterways	2030
Shore-side electricity	2025

Attracting public & private investment Reinforced EU financial support

- European Structural and Investment Funds
 - €13.7 billion for urban mobility 2014-2020 (**56% more** than 2007-2013)
 - Cities can spend directly 5% of funds on urban development
 - Urban Innovative Action (UIA) calls for transport: €50 million/year
- Funding for research and innovation – HORIZON 2020
 - "Smart, Green and Integrated Transport" - 2016/17 topics pre-published
- Connecting Europe Facility funds for TEN-T projects
 - Since 2014, "urban nodes"
 - 2016 calls on innovation and urban nodes

Urban mobility innovative actions

- *Aim: rapid, safe, efficient, environmental-friendly transport system in urban areas -> innovation at system level*
- *Tests new approaches to the challenges faced by cities via pilot projects*
- *Projects are selected through calls for proposals;*
- *Follow up calls related to urban mobility and clean air*
<http://www.uia-initiative.eu>
- **Topics for 2016 call:**
 - Promotion of innovative solutions for cycling including e-bikes and cargo bikes
 - Implementation and development of SUMP
 - Multi-modal hubs – new concepts for better multi-modal transfer
 - Logistic hubs – urban consolidation centres with eg. electric last mile delivery solutions
 - Innovative business models in the sharing economy – shared mobility solutions such as car-pooling or bicycle sharing schemes
 - Intelligent Transport Systems, such as in connecting better vehicles and infrastructures, multi-modal routing, ticketing etc.
 - Alternative fuels and infrastructure – organisational innovation for large scale roll out

Attracting public & private investment Financing opportunities (loans and guarantees)

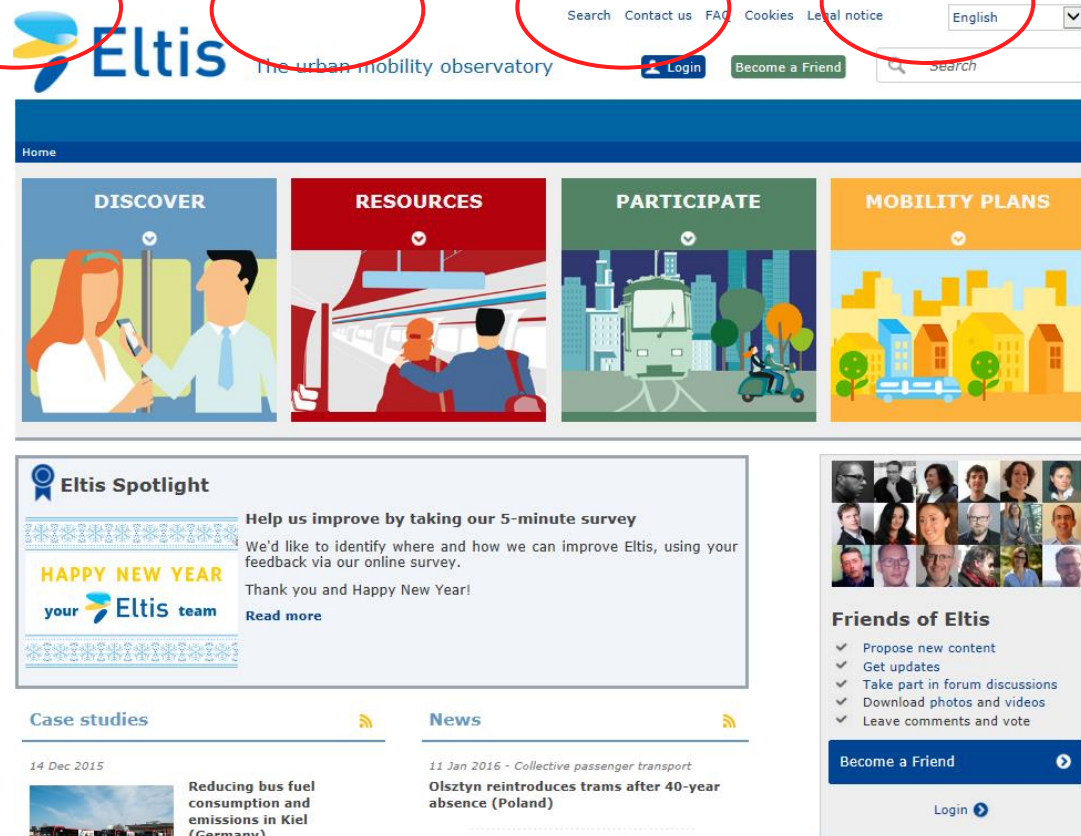
- **European Investment Bank loans and guarantees**
 - Direct loans and guarantees for large-scale projects (>€25 million)
 - Intermediated loans and guarantees for small and medium-scale projects: national and regional intermediary banks
- **The European Fund for Strategic Investments (EFSI)**
 - Juncker Investment Plan
 - €21 billion guarantee from Commission and EIB
 - Increase EIB's lending capacity for more risky projects
 - Assurance to public and private investors
 - Total extra investment capacity in the EU economy: €315 billion
 - EFSI can finance fleets and equipment
- **ELENA and JESSICA technical assistance/advisory services**

Facilitating exchange of info and best practice

www.eltis.org

The urban mobility observatory: facilitates the exchange of information, knowledge and experiences in the field of sustainable urban mobility in Europe

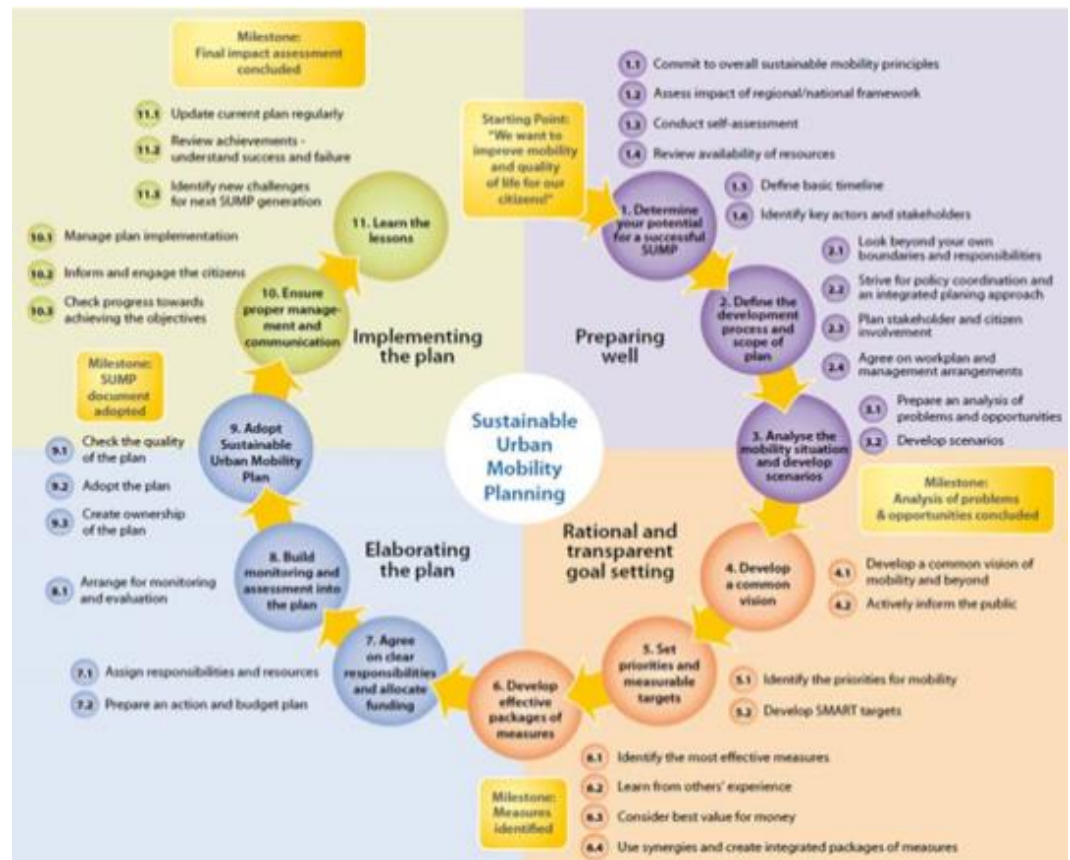
1. Discover: case studies, EU legislation & policies
2. Resources: EU funding, pictures, videos
3. Participate: events
4. Mobility plans: everything related to SUMPs!



The screenshot shows the Eltis website homepage. At the top, there is a navigation bar with links for Search, Contact us, FAQ, Cookies, and Legal notice. Below this is the Eltis logo and the tagline 'The urban mobility observatory'. The main content area is divided into four sections: DISCOVER, RESOURCES, PARTICIPATE, and MOBILITY PLANS. Each section has a corresponding illustration. Below these sections, there is an 'Eltis Spotlight' section with a 'HAPPY NEW YEAR' message and a link to a survey. To the right, there is a 'Friends of Eltis' section with a grid of user avatars and a list of actions: Propose new content, Get updates, Take part in forum discussions, Download photos and videos, and Leave comments and vote. At the bottom, there are sections for 'Case studies' and 'News'. The 'Case studies' section features a link to 'Reducing bus fuel consumption and emissions in Kiel (Germany)' dated 14 Dec 2015. The 'News' section features a link to 'Olsztyn reintroduces trams after 40-year absence (Poland)' dated 11 Jan 2016.

www.eltis.org

➤ *An extensive SUMP guide with a well-detailed process:*



www.eltis.org

➤ *A new **SUMP** self-assessment tool:*



The urban mobility observatory

[Search](#) [Contact us](#) [FAQ](#) [Cookies](#) [Legal notice](#)

English

Login

Become a Friend

Search

Home > Mobility Plans

Home

Discover

Resources

Participate

Mobility plans

European Platform on Sustainable Urban Mobility Plans

Supporting the transition towards competitive and resource-efficient mobility systems in Europe's cities.

More about the Platform



Mobility Plan case studies

23 Nov 2015 - 17:24:45



Budapest's BMT: a framework for sustainable urban mobility planning (Hungary)

Mobility Plan tools

CIVITAS Policy Note - Gender equality and mobility: mind the gap!

This CIVITAS Policy Note focuses on the topic of gender-sensitive mobility...



SUMP Guidelines

Online SUMP Guidelines

SUMP Glossary

SUMP Self-Assessment Tool



CIVITAS (www.civitas.eu):

City, Vitality and Sustainability. Initiative launched in 2002 to redefine transport measures and policies in order to create cleaner, better transport in cities

- Join Us: for cities to become members of the CIVITAS network (free)
- Mobility solutions: CIVITAS demonstration measures in different areas or urban mobility (public transport, clean fuels etc.)
- Services: CIVITAS Knowledge Base and documents
- Policy Notes

The screenshot shows the CIVITAS website homepage. At the top, there is a navigation bar with the CIVITAS logo, the European Union flag, and the text 'THE CIVITAS INITIATIVE IS CO-FINANCED BY THE EUROPEAN UNION'. To the right of the logo, there are links for 'LOGIN', 'CIVITAS INTERACTIVE', and 'CIVITAS EXCHANGE HUB'. A search bar is located on the far right with the placeholder text 'Enter terms to search the knowledge base...'. Below the navigation bar, there is a main banner area. On the left, a red circle highlights the 'MOBILITY SOLUTIONS' link in the navigation bar. The banner itself features a large image of a city waterfront with the text 'The FORUM CITY HOST 2016 is GDYNIA!' and a 'Read more' button. On the right, another red circle highlights the 'JOIN US' link in the navigation bar. Below the banner, there are three columns of content. The first column, 'Upcoming Events', lists several events with dates. The second column, 'Services', lists 'Knowledge Base', 'CIVITAS Interactive', and 'Trainings'. The third column, 'Info kick', lists 'CIVITAS leaflet', 'CIVITAS newsletters', 'CIVITAS Plus II factsheet', 'CIVITAS slide show', and 'CIVITAS Policy Notes'. A red circle highlights the 'CIVITAS slide show' and 'CIVITAS Policy Notes' links in this column.

MOBILITY SOLUTIONS CIVITAS NETWORK WORKING GROUPS EVENTS NEWS AND MEDIA SERVICES ABOUT CIVITAS

The FORUM CITY HOST 2016 is GDYNIA!

The seaside city of Gdynia, a model for sustainable urban transport in Poland, will proudly host the CIVITAS FORUM 2016, the date of the Forum will be shortly announced

[Read more](#)

Upcoming Events

- Webinar Safe Routes to School - inspiration from Granada and Malaga
26/01/2016
- Transport for Smart Cities 2016
28/01/2016
- Workshop Electromobility in CIVITAS cities
16/02/2016 to 17/02/2016
- Training: Influencing behaviour through gamification
18/02/2016
- Training: planning for cycling
05/04/2016 to 08/04/2016

Services

- Knowledge Base
- CIVITAS Interactive
- Trainings

Info kick

- CIVITAS leaflet
en | fr | de | es | cs | pl | hr | he | cn
- CIVITAS newsletters
- CIVITAS Plus II factsheet
- CIVITAS slide show
- CIVITAS Policy Notes

Facilitating exchange of info and best practice

- Member States Expert Group on Urban Mobility:
 - Each Member State appointed a representative
 - Met for the first time in Oct 2014 and meets 2x per year
 - Objective is to help MS give more and more effective support to their local authorities to make urban mobility more sustainable
 - List of members, agendas & minutes of meetings accessible from:

Group n° E03165

<http://ec.europa.eu/transparency/regexpert/index.cfm>



European Innovation Partnership on Smart Cities and Communities – building a market place

Intersection between Energy, Transport and ICT

- 1. Support roll-out of mature replicable technologies – foster open collaboration**
- 2. Focus on intersections**
→ Energy, Transport and ICT
- 3. Facilitating match-making of cities and companies**
- 4. Action cluster initiatives to develop collaborative innovation**

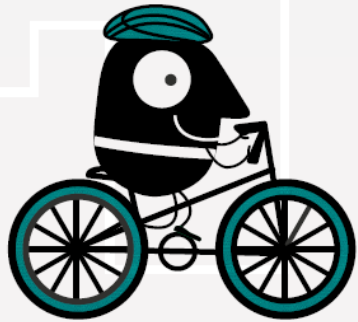


Raising awareness



EUROPEAN **MOBILITY** WEEK

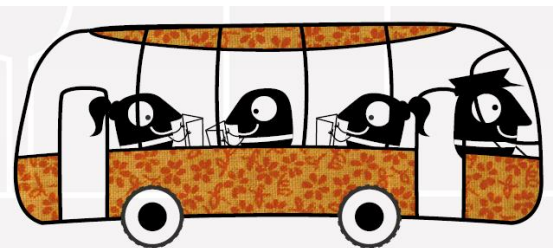
16-22 September every year
(launched in 2002)



- Pan-European campaign culminating in Car-Free Day.
- Aim: to encourage European municipalities to introduce and promote sustainable transport.
- Around 2000 cities register every year, and implement around 8500 measures improving public transport and urban infrastructure.
- 2015 theme multimodality: 'Choose.Change.Combine.'
- 2016 theme: 'Smart mobility. Strong economy'

+ EU-award schemes:

- Civitas Award – in October
- EMW and SUMP Awards - in March



Choose. Change. Combine.

www.dotherightmix.eu

EUROPEAN **MOBILITY** WEEK
16-22 SEPTEMBER



Festivals at the street
Larnaka
Cyprus

Smart mobility. Strong economy.

www.mobilityweek.eu



#mobilityweek



THE EUROPEAN UNION SUPPORTS
SUSTAINABLE URBAN MOBILITY

Useful weblinks

http://ec.europa.eu/transport/themes/urban/urban_mobility/ump_en.htm

<http://www.eltis.org>

http://ec.europa.eu/transport/media/newsletter/index_en.htm

<http://civitas.eu/>

<http://ec.europa.eu/research/participants/portal/desktop/en/home.html>

<http://ec.europa.eu/inea/en/connecting-europe-facility/cef-transport>

<http://www.eib.org/about/invest-eu/>

<http://www.eib.org/index.htm>



Thank you for your attention!

Contact:

Piotr Rapacz

DG MOVE, Unit B4 – *Sustainable & Intelligent transport*

piotr.rapacz@ec.europa.eu