



# ***Moving towards a more sustainable urban mobility: Overview of EU strategy & action***

**Isabelle Maës, European Commission  
Breakfast at Sustainability's, 16.03.2016**

## 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**
- **Climate change impact:** urban transport accounts for 23% of CO<sub>2</sub> emissions from transport
- **Health impact** related to ambient air quality (NO<sub>x</sub>, PM emissions) and lack of physical exercise
- **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

# 1. Setting the Policy Framework

1. Action Plan on Urban Mobility (2009) – implemented
2. Transport White Paper (2011) – in progress
  - 2 out of the 10 goals are urban:
    - ***Halve the use of conventionally fuelled vehicles in urban areas by 2030, phase them out by 2050***
    - ***Achieve CO2-free city logistics in major urban centers by 2030***
3. Urban Mobility Package (Dec 2013) – in progress

# 1. Setting the Policy Framework

## 4. Vehicles and Fuels specific legislation

### ➤ **Renewable Energy Directive 2009/28**

Member States need to reach a 10% share of renewable energy sources in transport fuels by 2020 (NB: overall target all sectors together is 20%)

### ➤ **Fuel Quality Directive 2009/30**

Fuels sold in the EU must achieve a 6% reduction of their CO<sub>2</sub> intensity by 2020

### ➤ **Regulation of pollutant emissions of vehicles through EURO standards**

### ➤ **Regulation of CO<sub>2</sub> emissions of vehicles**

- Passenger cars: 130g/km by 2015 and 95g/km by 2020
- Light Duty Vehicles: 175g/km by 2017

# 1. Setting the Policy Framework

## ➤ Clean Vehicles Directive 2009/33

Public procurers of vehicles have to take into account energy consumption, CO<sub>2</sub> and pollutants emissions (NO<sub>x</sub>, NMHC, PM) through:

1. Technical specifications
2. Energy and environmental impacts as award criteria
3. Monetization of the operational lifetime costs, e.g.:

Vehicle type		Bus (lifetime 800.000 km)		Diesel Car (lifetime 200.000 km)		Petrol Car (lifetime 200.000 km)	
<b>Vehicle price</b>		<b>150.000 €</b>	<b>100%</b>	<b>17.000 €</b>	<b>100%</b>	<b>15.000 €</b>	<b>100%</b>
Lifetime costs	Fuel	282.150 €	188%	6.188 €	36%	7.700 €	51%
	CO <sub>2</sub>	24.168 €	16%	530 €	3%	669 €	4,5%
	NO <sub>x</sub>	70.224 €	47%	220 €	1%	70 €	0,5%
	NMHC	2.098 €	1%	10 €	0,1%	20 €	0,1%
	Particulate matter	7.934 €	5%	435 €	3%	87 €	1%
<b>Vehicle price + lifetime costs</b>		<b>536.574 €</b>	<b>358%</b>	<b>24.383 €</b>	<b>143%</b>	<b>23.547 €</b>	<b>157%</b>

The Directive is currently being evaluated with input from stakeholders

# 1. Setting the Policy Framework

## ➤ Directive 2014/94 on the deployment of alternative fuels infrastructure

- Part of the Clean Power for Transport Package of Jan 2013, presenting a strategy for the gradual substitution of oil in all transport modes
- Adopted in Oct 2014
- Now being implemented:
  - ✓ Member States are preparing their corresponding national policy framework by Nov 2016
  - ✓ TEN-T urban nodes are areas of predilection to start deployment

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

# 1. 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:

*"The Commission will take further action to create the right market conditions for an increased deployment of alternative fuels and to further promote procurement of clean vehicles. This will be delivered through a mix of national, regional and local measures, supported by the EU."*



# 1. Setting the Policy Framework

## The 2013 Urban Mobility Package

[http://ec.europa.eu/transport/themes/urban/ump\\_en.htm](http://ec.europa.eu/transport/themes/urban/ump_en.htm)

- Calls for action from the Member States
- Commits to reinforce EU support
- 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

# 1. Setting the Policy Framework

## Help for cities to develop SUMP

- 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 SUMP (content, process) based on experiences from across the EU
- The Commission commits to setting up a Platform on SUMP to coordinate EU action and provide a one-stop-shop portal ([www.eltis.eu](http://www.eltis.eu))

## 2. Offering funding (grants)



## 1. European Structural and Investment Funds (ERDF, ESF, Cohesion Fund) - continued

- €13.7 billion planned for urban mobility including walking & cycling over 2014-2020, compared to €8.8 billion over 2007-2013 (+56%)
- 24 Member States are covered, including all 15 cohesion countries
- Commission and Member States signed Partnership Agreements on national level and Operational Programmes on regional level
- Cities can spend directly 5% of the funds on urban development
- **Review the operational programmes for your country and contact the managing authorities in your country to propose projects**
- Principles for sound delivery of projects:
  - ✓ Make use of technical assistance programmes
  - ✓ Leverage peer-to-peer exchanges (e.g. Covenant of Mayors, CIVITAS)
  - ✓ Work across administrative boundaries and national borders
  - ✓ Use a Sustainable urban Mobility Plan to set a strategic frame to projects

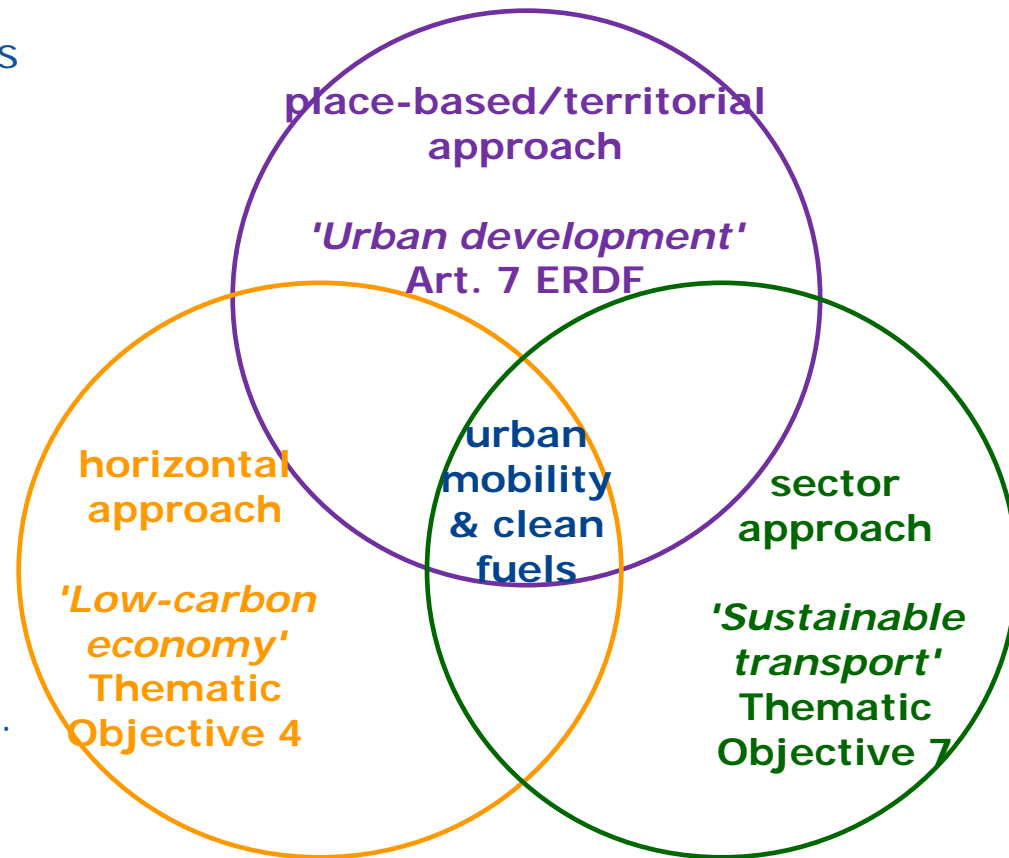
[http://ec.europa.eu/regional\\_policy/index\\_en.cfm](http://ec.europa.eu/regional_policy/index_en.cfm)

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# 1. European Structural and Investment Funds (ERDF, ESF, Cohesion Fund)

➤ Urban mobility and alternative fuels are covered in the Ops under either:

1. Thematic Objective 7 "Sustainable transport": aims at promoting sustainable transport and removing bottlenecks by investing in TEN-T, environment-friendly and low-carbon transport systems and interoperable railway systems
2. Thematic Objective 4 "Low-carbon economy": aims at supporting a shift towards a low-carbon economy by promoting low-carbon strategies, incl. sustainable urban mobility
3. Article 7 of the ERDF regulation: foresees support to sustainable urban development through strategies for integrated action



## 2. JASPERS & FI-Compass

- The JASPERS programme gives **technical assistance** to prepare high quality projects to be financed by the European Structural and Investment Funds in the new Member States\*
  - focus on big projects with total eligible costs exceeding €75 million
  - assistance may cover project preparation, independent quality review, capacity building including a Competence Centre, and implementation

<http://www.jaspers-europa-info.org/>

\*Bulgaria, Croatia, Cyprus, Czech Republic, Estonia, Greece, Latvia, Lithuania, Hungary, Malta, Poland, Romania, Slovenia, and Slovakia

- FI-Compass gives **advisory services** on financial instruments under the European Structural and Investment Funds (and on microfinance under the Programme for Employment and Social Innovation)

<https://www.fi-compass.eu/>

### 3. INTERREG Europe 2014-2020

- Co-finances projects where public authorities from different regions work together for 3 to 5 years on a shared policy issue
- Also co-finances thematic platforms where public authorities can find information to help implement their policies in the four themes of the programme, including low-carbon and resource-efficiency
- **Regular calls are launched – follow them**

<http://www.interreg4c.eu/interreg-europe>

### 4. URBACT III

- Co-finances the creation of networks of cities from different regions to develop integrated solutions to common urban challenges, by learning from one another
- The first call for the creation of up to 20 Action Planning Networks was open in 2015
- **Other calls will be open in the coming years – follow them**

<http://www.urbact.eu>

<http://www.urbact.eu/open-calls-networks>

## 5. Innovative actions in sustainable urban development

- Tests new approaches to the challenges faced by cities via pilot projects
- Projects are selected through calls for proposals; the first call is open until 31 March for topics 1) Energy transition, 2) Integration of migrants and refugees, 3) Jobs and skills in the local economy and 4) Urban poverty
- **Follow up future calls related to urban mobility and clean air**  
<http://www.uia-initiative.eu/>

## 6. LIFE programme

- Is the EU funding instrument for environment and climate action
- The 2014-2017 work programme includes a Thematic priority on "Air quality and emissions, including the urban environment"
- **Calls are published regularly – follow them**  
<http://ec.europa.eu/environment/life/about/>  
<http://ec.europa.eu/environment/life/funding/life.htm>



## 7. European Energy Efficiency Fund

- Investment fund focusing on energy efficiency, small-scale renewable energy, and clean urban transport projects
- Targeting municipal, local and regional authorities and public and private entities acting on behalf of those authorities
- **Contact the fund directly with your project**

<http://www.eeef.eu/home.html>

## 8. Fuel Cell and Hydrogen Joint Undertaking

- The European Commission, the Industry and the Research institutions finance the development of hydrogen as a transport fuel and a source of energy
- **Calls are published regularly – follow them**

<http://www.fch.europa.eu/>

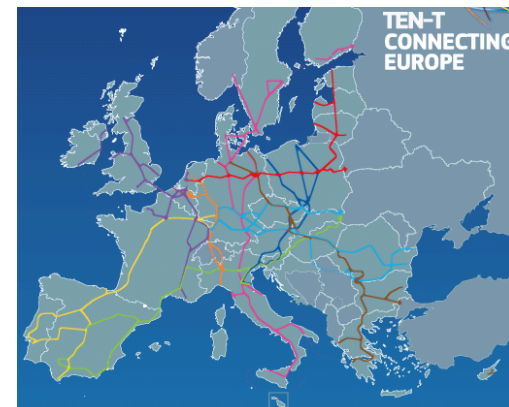
## 9. Connecting Europe Facility (CEF) funds for TEN-T projects

- The trans-European transport network forms the backbone of the European transport system with nine corridors
- Since 2014, there is specific coverage of nodes including urban nodes i.e. cities on the network; up to €200 million will be spent in total on urban nodes over 2014-20
- Funding is also available for Innovation and new technologies, of which alternative fuels. Pilot projects are co-financed at up to 50% and mobile equipment is also covered in the limit of 10% of the project's budget
- Co-financing rates are higher for the 15 cohesion countries 😊
- **Follow the nodes calls and the innovation calls**
- CEF debt instrument is developing financial schemes for the deployment of alternative fuels (contact EIB directly)

<http://ec.europa.eu/transport/themes/infrastructure/>

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

\* Bulgaria, Croatia, Cyprus, the Czech Republic, Estonia, Greece, Hungary, Latvia, Lithuania, Malta, Poland, Portugal, Romania, Slovakia and Slovenia



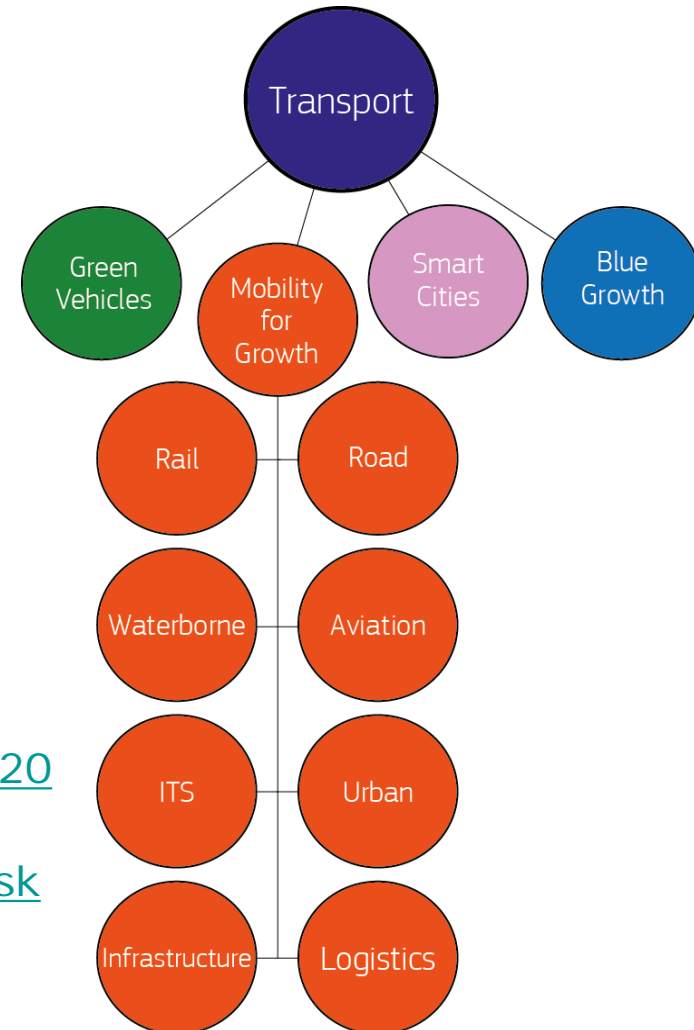
## 10. Horizon 2020 "Smart, Green and Integrated Transport"

- Projects require coop. between min 3 countries
- Mobility For Growth are the CIVITAS projects and also covers alternative fuels
- Calls for 2017 will include: **follow them**
  - MG4.1-2017 Increasing the take-up and scale-up of innovative solutions
  - MG4.2-2017 Supporting smart electric mobility
  - MG4.3-2017 Innovative approaches for integrating urban nodes
- InnovFin is available to support with a set of financial instruments covering innovative SMEs, mid-caps and large corporate

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/smart-green-and-integrated-transport>

<http://ec.europa.eu/research/participants/portal/desktop/en/opportunities/h2020>

<http://www.eib.org/products/blending/innovfin/>



## 2. Offering financing (loans and guarantees)

## 11. 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, via national and regional intermediary banks
- **Contact EIB or your national or regional bank directly with your project**

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

<http://www.eib.org/infocentre/publications/all/eib-transport-lending-policy.htm>

## 12. The European Fund for Strategic Investments (EFSI)

- Is one of the tool set up by the "Juncker Investment Plan":  
<http://www.eib.org/efsi/what-is-efsi/index.htm>
- Consists in a €21 billion guarantee from the Commission and the EIB
  - Allows to increase EIB's lending capacity with €60 billion for more risky projects
  - Give extra assurance to other public and private investors, resulting in an extra financing capacity of €255 billion

⇒ Total extra investment capacity in the EU economy is thus €315 billion
- EFSI can finance fleets and equipment
- **Cities and projects promoters should engage with the EIB and the National Promotional Banks to benefit from the EFSI**
- An Advisory Hub has been created and regional hubs are likely to be created in the future: <http://www.eib.org/eiah/index.htm>
- A European web portal will be set up in Q1 2016 to match projects and investors
- Blending CEF grants with EFSI financial instruments is also possible

## 13. ELENA

- Is a **technical assistance** programme covering up to 90% of the technical support costs to prepare large energy efficiency and renewables projects
- Helps get financing especially from private investors
- The Commission is giving ELENA €15 million for the transport sector over 2016-2020

<http://www.eib.org/products/advising/elena/index.htm>

## 14. JESSICA

- Is an **advisory service** which supports sustainable urban development with financial engineering mechanisms
- **Member States** can choose to invest some of their EU structural fund allocations in revolving funds
- Contributions from the European Regional Development Fund (ERDF) are then allocated to Urban Development Funds (UDFs) which invest them in public-private partnerships or other projects

[http://ec.europa.eu/regional\\_policy/en/funding/special-support-instruments/jessica/](http://ec.europa.eu/regional_policy/en/funding/special-support-instruments/jessica/)

## 15. COSME

- Europe's programme for SMEs
- provides equity, loans and guarantees for SMEs
- also helps SMEs access markets in the EU and beyond via the Enterprise Europe Network that helps them find business partners and understand EU legislation, the Your Europe Business portal that provides practical information on doing business within Europe and the SME Internationalisation Portal for companies who want to develop their activities outside Europe
- **Calls are published regularly – follow them**

<https://ec.europa.eu/easme/en/cosme>



# 3. Facilitating exchange of info and best practice

[www.eltis.org](http://www.eltis.org)

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



The screenshot shows the Eltis website homepage. At the top, there is a navigation bar with the Eltis logo, the tagline 'The urban mobility observatory', and links for 'Search', 'Contact us', 'FAQ', 'Cookies', and 'Legal notice'. There is also a language selector set to 'English' and buttons for 'Login' and 'Become a Friend'. Below the navigation bar is a main menu with four categories: 'DISCOVER', 'RESOURCES', 'PARTICIPATE', and 'MOBILITY PLANS', each with a dropdown arrow. The 'DISCOVER' category is circled in red. Below the main menu is an 'Eltis Spotlight' section with a 'HAPPY NEW YEAR' message and a call to action to take a 5-minute survey. To the right 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 an article titled 'Reducing bus fuel consumption and emissions in Kiel (Germany)' dated 14 Dec 2015. The 'News' section features an article titled 'Olsztyn reintroduces trams after 40-year absence (Poland)' dated 11 Jan 2016. A 'Become a Friend' button and a 'Login' button are located at the bottom right of the page.



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### 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 >



- News** Funding opportunities
- 3rd European Conference on Sustainable Urban Mobility Plans  
This is the principal annual event for all those involved in turning the...
- Presentations of 3rd DYN@MO Summer University now available  
Insights were given by different experts to the state of the art of big data...
- Three new City Forum Members  
The CIVITAS Initiative has the pleasure welcoming three new members. The cities...

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#### 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

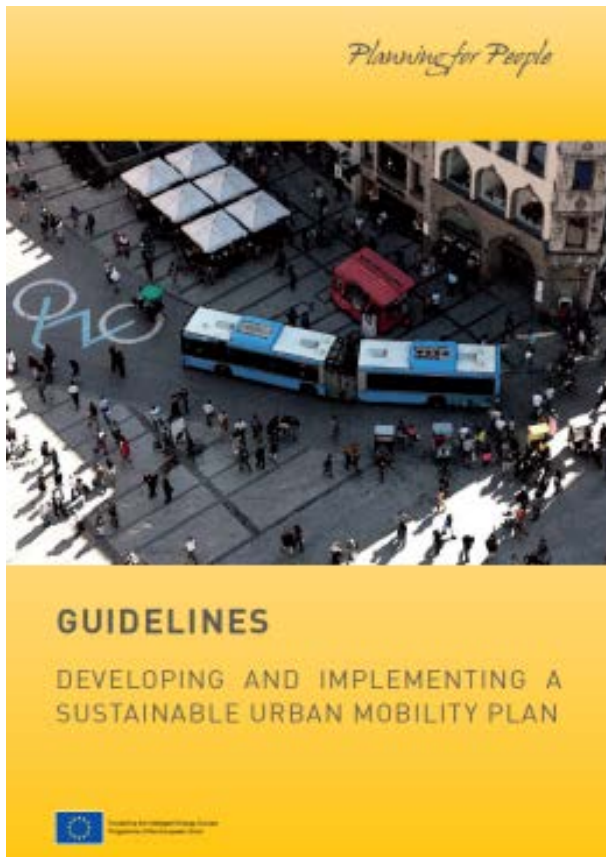
- >> CIVITAS leaflet  
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- >> CIVITAS newsletters
- >> CIVITAS Plus II factsheet
- >> CIVITAS slide show
- >> CIVITAS Policy Notes

## www.civitas.eu

- 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

[www.eltis.org](http://www.eltis.org)

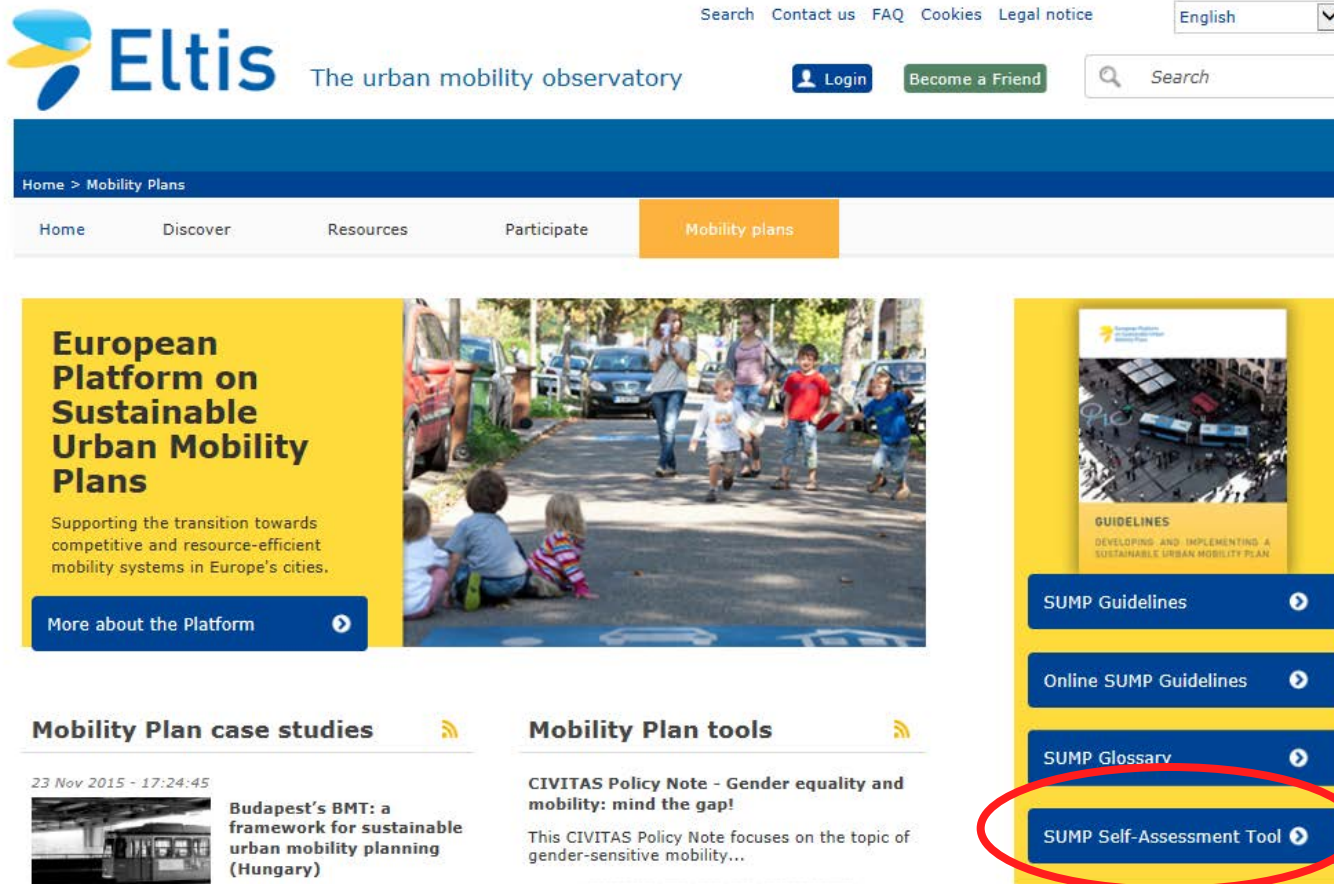
➤ *An extensive SUMP guide with a well-detailed process:*





[www.eltis.org](http://www.eltis.org)

➤ *A new SUMP self-assessment tool:*



The screenshot shows the Eltis website interface. At the top, there is a navigation bar with links for Search, Contact us, FAQ, Cookies, and Legal notice. The Eltis logo is prominently displayed, along with the tagline "The urban mobility observatory". Below the navigation bar, there is a menu with options: Home, Discover, Resources, Participate, and Mobility plans (which is highlighted in orange). The main content area features a large yellow banner for the "European Platform on Sustainable Urban Mobility Plans" with a sub-headline "Supporting the transition towards competitive and resource-efficient mobility systems in Europe's cities." Below this banner, there are two columns of content. The left column is titled "Mobility Plan case studies" and features a sub-heading "Budapest's BMT: a framework for sustainable urban mobility planning (Hungary)". The right column is titled "Mobility Plan tools" and features a sub-heading "CIVITAS Policy Note - Gender equality and mobility: mind the gap!". On the far right, there is a vertical yellow sidebar with a list of links: "SUMP Guidelines", "Online SUMP Guidelines", "SUMP Glossary", and "SUMP Self-Assessment Tool". The "SUMP Self-Assessment Tool" link is circled in red, and a red arrow points to it from the right side of the image.

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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**

## 3. 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>

## 3. Facilitating exchange of info and best practice

### European Innovation Partnership on Smart Cities and Communities

1. Support roll-out of mature replicable technologies
2. Focus on intersections  
→ Energy, Transport and ICT
3. Facilitate match-making of cities and companies
4. Bundle efforts through action clusters





## 3. Facilitating exchange of info and best practice

### SCC Action clusters

#### Smart Electro-mobility initiative (EV4SCC)

- 16 cities and regions and over 40 industry partners will
  - seek 50 other cities to join the platform
  - create 50 new projects by the end of 2017

#### Smart Mobility Services initiative

- 10 cities and regions with their industry partners will:
  - seek to collaborate with at least 50 cities to replicate tested open-data provision of mobility services information
  - create an exchange platform for real time car-pooling in 10-cities

These initiatives have been launched on 28 January 2016. They are open to collaboration. See [www.eu-smartcities.eu](http://www.eu-smartcities.eu)

## 4. Raising awareness

- Do The Right Mix campaign      [dotherightmix.eu/](http://dotherightmix.eu/)
  - Promotes multi-modality
  - Includes the European Mobility Week in Sept with around 2000 local partnerships registered every year and many more active cities      <http://www.mobilityweek.eu/>
- EU-award schemes
  - Civitas Award – in October
  - Mobility Week Award and SUMP Award - in March





**Thank you for your attention!**

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