

Smart Cities and Communities - WP Transport 2016-2017

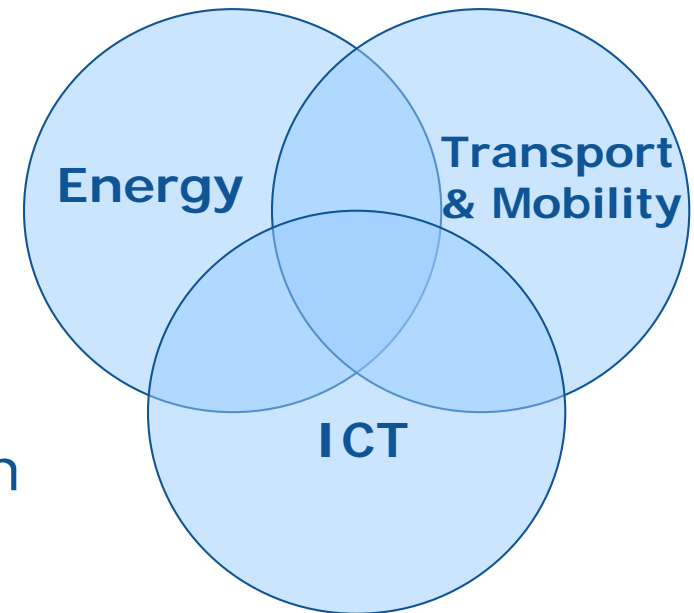
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Strategic orientations for Smart Cities at EU level

- **Communication (2012)4701**
- **Integrated approach to complement sectoral policies**
 - Energy, Transport and ICT
 - Focus on intersections
 - Water and Waste ICT integration
- **EU Targets: energy-efficiency & low-carbon development as drivers**
- **Roll-out of mature innovative technologies at large scale**
- **Key roles for cities and industries**



Key support actions for Smart Cities at EU level



Mobilising & partnering stakeholders

The European Innovation Partnership on Smart Cities and Communities



Seed funding for demonstration & market uptake

Horizon 2020

- Smart Cities and Communities Focus Area

Complemented by: Smart Urban Mobility, IoT Pilots, EeB PPP.



Legislative & non-legislative levers

e.g.

- EEB Directive, ...
- CPT Directive / Sustainable Mobility Plans etc.
- Big Data / Cyber-security / Spectrum / Broadband

Other funds

e.g.

- European Structural Investment Funds
- EIB Funds
- European Fund for Strategic Investments

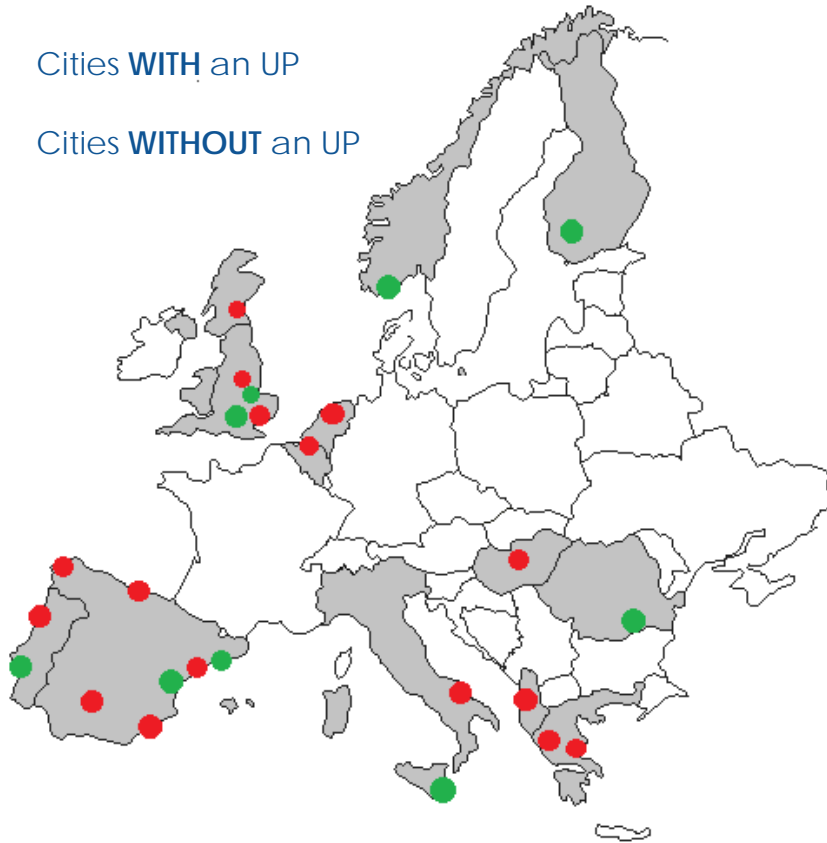
EIP on Smart Cities and Communities



City Survey on Urban Platforms

Cities **WITH** an UP

Cities **WITHOUT** an UP



Cities with **28** million inhabitants in total

12
Countries

29
Cities

Insight

More than 2/3rds of cities have *not* as yet acted on an Urban Platform

Why?

- Cities strapped for cash
- Poor knowledge of the landscape / lack of confidence in cities
- Can't get the silos to work together



Memorandum of Understanding Platforms

Towards Open Urban Platforms for Smart Cities and Communities

City needs led approach to address the fragmented market. The key challenges facing this market include:

- Interoperability and common open standards – so that cities can mix and match offerings from a range of different vendors;
- To date the market has been supply-led – with the norm being proprietary and custom-built offerings;
- Many cities have reservations about Urban Platform(s) – including limited understanding of their costs & benefits.

21 organisations signed (energy, transport, telco, software, research, city)
open for new signatories shortly

More information on Smart Cities and Communities EIP:

<http://ec.europa.eu/eip/smartcities/>

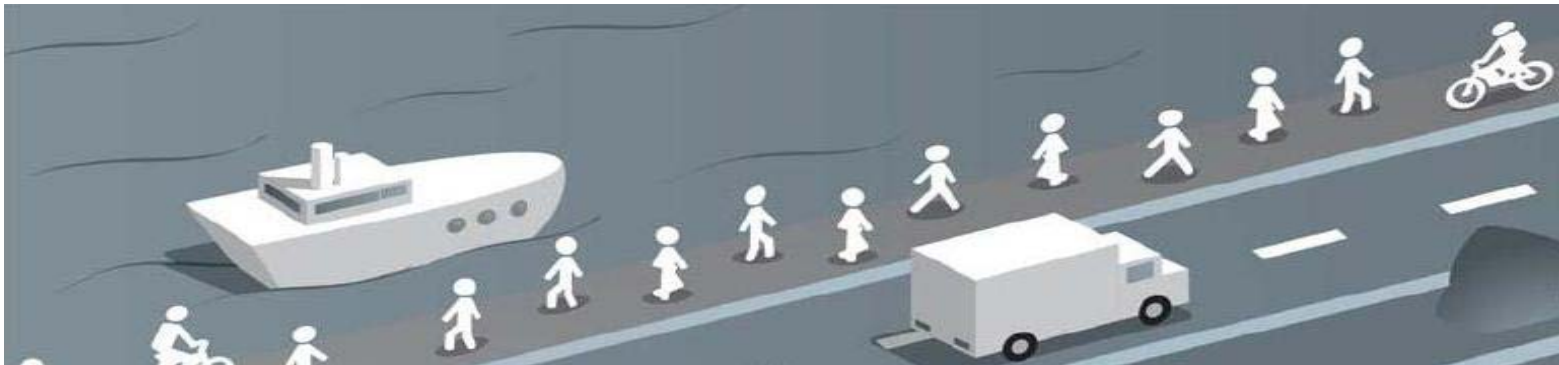
<https://eu-smartcities.eu/>



Transport

Approach for 2016-17

- **Automation of road transport as a priority**
- **Contribution of ICT**
 - Automated road transport
 - Intelligent Transport Systems
 - Logistics
 - Green vehicle





Transport

Approach for 2016-17

- **Contribution of ICT**
 - Direct involvement in 6 topics
+ potential contribution of ICT in about 8-9 other topics (out of 55)
- **Three calls in SC4**
 - **Mobility for growth** (436 M€ overall)
 - Innovative ICT solutions for future logistics operations
 - Intelligent Transport Systems (**3 topics**)
 - Increasing the take up and scale-up of innovative solutions to achieve sustainable mobility in urban areas
 - **Automated road transport** (114 M€ overall)
 - ICT infrastructure to enable the transition towards road transport automation
 - **European green vehicle initiative** (206 M€ overall)
 - Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system

Call planning

Smart, green and integrated transport

Mobility for growth

4. Urban mobility

MG-4.1-2017	Increasing the take up and scale-up of innovative solutions to achieve sustainable mobility in urban areas	N/A	20/09/16		26/01/17 19/10/17
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5. Logistics

MG-5.2-2017	Innovative ICT solutions for future logistics operations	N/A	20/09/16		26/01/17 19/10/17
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6. Intelligent transport systems

MG-6.1-2016	Innovative concepts, systems and services towards 'mobility as a service'	25.0	15/10/15	20/01/16	
MG-6.2-2016	Large-scale demonstration(s) of cooperative ITS			29/09/16	
MG-6.3-2016	Roadmap, new business models, awareness raising, support and incentives for the roll-out of ITS	5.0	15/10/15	26/01/16	

8. Socio-economic and behavioural research and forward looking activities for policy making

MG-8.2-2017	Big data in Transport: Research opportunities, challenges and limitations	2.0	20/09/16		01/02/17
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Automated road transport

ART-01-2017	ICT infrastructure to enable the transition towards road transport automation	N/A	20/09/16		26/01/17 27/09/17
ART-06-2016	Coordination of activities in support of road automation	3.0	15/10/15	26/01/16	

Green vehicles

GV-10-2017	Demonstration (pilots) for integration of electrified L-category vehicles in the urban transport system	N/A	04/10/16		01/02/17
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SOCIETAL CHALLENGE 4, Work Programme Scribes (1/2)

Mobility for Growth:

Air transport:	Ivan Konaktchiev (RTD.H.3)
Waterborne:	Ronald Vopel and Joost De Bock (RTD.H.2)
Safety:	Air: Ivan Konaktchiev (RTD.H.3); Infrastructure: Cristina Marolda (MOVE.C.2) Road: William Bird (RTD.H.2) Inco: Alessandro Damiani (RTD.H.1)
Urban:	Henriette Van Eijl (MOVE.C.2)
Logistics:	Geert Van der Linden (MOVE.C.2)
ITS:	Maria Carbone (MOVE.C.2)
Infrastructure:	Cristina Marolda (MOVE.C.2)
Socio-economics:	Artemios Kourtesis (RTD.H.1)



SOCIETAL CHALLENGE 4, Work Programme Scribes (2/2)

Automated Road Transport:

Ludger Rogge (RTD.H.2)

Myriam Coulon Cantuer (CNECT.H.5)

European Green Vehicle Initiative:

Maurizio Maggiore, Fred Sgarbi (RTD.H.2)

Nino Zambara (CNECT.H.5)

Workprogramm SC4-Transport 2016-2017

Detailed list of calls and topics Available on H2020 website (**soon**)

→ <https://ec.europa.eu/programmes/horizon2020/en/draft-work-programmes-2016-17>



THANK YOU FOR YOUR ATTENTION