



2015 ANNUAL POLIS CONFERENCE

**Global cooperation on sustainable urban mobility:
examples from the SOLUTIONS project**

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This project is funded by the Seventh Framework Programme (FP7)
of the European Commission.

SOLUTIONS: The project and team

- Funded under the Seventh Framework Programme (FP7) of the European Commission.
- Consortium Partners: 27 Partners from 18 countries in Europe, Asia, Latin America and Africa
- Duration: May 2013 – April 2016
- Regional focus: Europe, Asia, Latin America, Mediterranean Partner Countries





SOLUTIONS - objectives

Cities in the world have proven successes in implementing sustainable urban mobility measures, which could be taken up by cities elsewhere.

SOLUTIONS aims to foster knowledge exchange and boost the uptake of innovative sustainable urban mobility solutions between and in cities from Europe, Asia, Latin America and the Mediterranean.





SOLUTIONS - key actions

- Deployment of innovative sustainable transport solutions
 - Feasibility studies
 - Knowledge sharing events
 - Development of project proposals
- Transfer to innovative transport solutions
 - Identify key innovations and examine transferability
- Dialogue among policy makers and practitioners
- Fostering thematic dialogues and capacity building
- Promoting innovative platforms for knowledge exchange between European cities and cities across the world.



1. Stocktake and **transferability assessment** on successful sustainable urban mobility solutions in Europe, Asia and Latin America
1. Assessment of the **uptake potential** in Europe, Asia, Latin America and the Mediterranean region
1. Foster the **implementation** in take-up cities through **feasibility studies**
2. Guidelines on the uptake of policies and technologies in Europe, Asia, Latin America and the Mediterranean
3. Recommendations to the European Commission on future research and cooperation opportunities





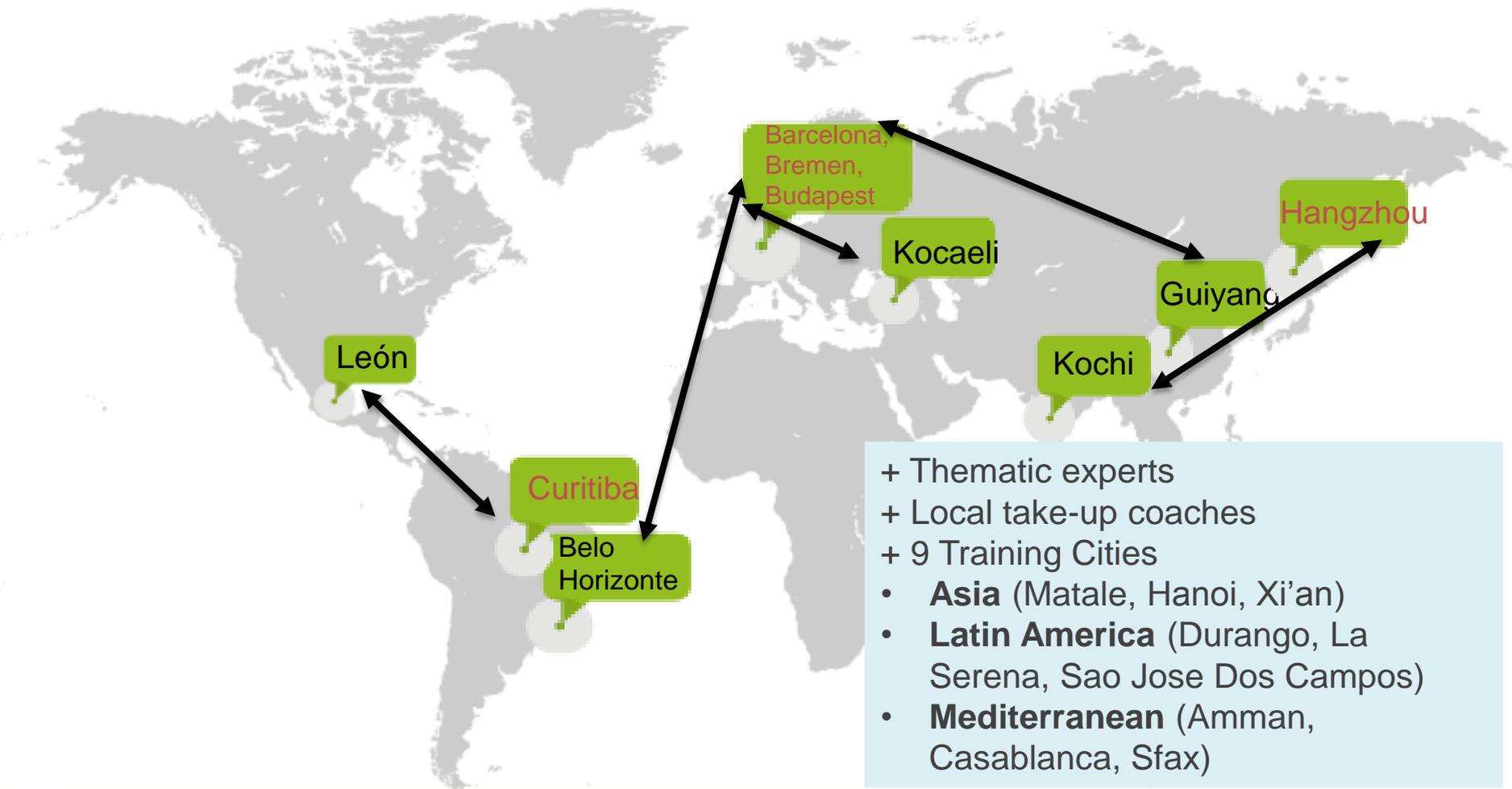
Thematic clusters and identified solutions

| Cluster 1: public transport | Cluster 2: Transport infrastructure | Cluster 3: City logistics | Cluster 4: Integrated planning/SUMP | Cluster 5: Network and mobility management | Cluster 6: Clean vehicles |
|---------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------|-------------------------------------------------------|---------------------------------------------------|-------------------------------------------------------|
| BRT system construction and operation with high service level | Dedicated bus lanes | Urban deliveries with cargo-cycles | General preparation of SUMP | Parking management | Registration restrictions/number plate auctions |
| Trolley bus systems | Intermodal interchanges | Forums, portals, labels and training programs | Vision building for future sustainable urban mobility | Access restriction | Management of electric two-wheelers |
| Metro systems | Pedestrian infrastructure | Promotion of out-of-hour deliveries | Stakeholder participation and citizen engagement | Traffic management | Fuel economy/CO ₂ standards |
| Use and operation of clean vehicles (CNG, LPG, LNG) in public transport systems | Improving non-motorised infrastructure – public space and urban road designs for cycling and walking | Networks of pick up points | Participatory budgeting in SUMP context | Multimodal journey planning | Fuel switch in taxi fleets to electric vehicles (EVs) |



SOLUTIONS Twinning

These cities will work in pairs on common/related problems and those solutions identified by the project as priorities.



- + Thematic experts
- + Local take-up coaches
- + 9 Training Cities
 - **Asia** (Matale, Hanoi, Xi'an)
 - **Latin America** (Durango, La Serena, Sao Jose Dos Campos)
 - **Mediterranean** (Amman, Casablanca, Sfax)

SOLUTIONS - City exchange



Leading Cities

- Provide measures and solutions for the Take-up cities

Feasibility Studies

Final Outputs

- Documentation of the process
- Develop policy recommendations
- Develop the future cooperation agenda

Solutions / Measures

- SUMP
- Public Transport
- Infrastructure
- City Logistics
- Clean Vehicles

Implementing measures a collaborative work between Leading and Take-up Cities

- Support through the project cycle period
- Receive continuous capacitation and assistance during the process
- Monitoring and evaluation of the implementation process
- identify new measures that can fit cities needs and expertise

Take-up Cities

- Evaluate current situation



- Envision where do they want to go: Needs and expected solutions



- Select measures and solutions



- Develop a Transferability Plan with Leading Cities

Belo Horizonte supported by Bremen

- Belo Horizonte
 - Population: 2.4 million (5.7 metropolitan area)
 - Increase in private motorised transport
 - Local air pollution

- Planned measures and support:
 - NMT infrastructure – Zone 30 (Bremen)
 - Municipal policy on urban logistics (IFSTTAR)
 - PlanMob-BH review (RC,LNEC)
 - Network and mobility management (AustriaTech)

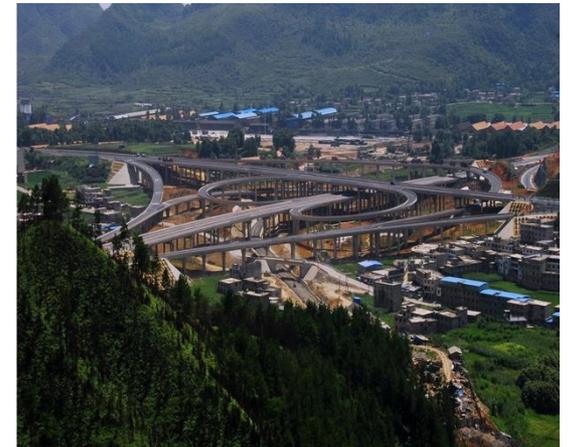
- Specific expertise Bremen
 - Walking and cycling
 - 30k Zone
 - Car sharing

- Local take-up coach: EMBARQ Brasil



Guiyang supported by Barcelona

- Guiyang
 - Population: 4.4 million
 - Increase in private motorisation rates
 - Severe congestion
- Planned measures:
 - Extension of the PT network
 - Network management
 - Clean vehicles (CNG / electric)
- Specific expertise Barcelona
 - Bus network
 - Electric vehicles
 - Walking & cycling and public spaces
- Local take-up coach: CATS



Kocaeli supported by Budapest

- Kocaeli
 - Population: 1.7 million
 - Low quality public transport
 - Road based public transport

- Planned measures:
 - Optimisation of the bus fleet's operational and management system
 - Construction of PT railway (LRT or tram)

- Specific expertise Budapest (BKK)
 - Public transport organisation and management
 - Public transport planning

- Local take-up coach: EMBARQ Turkey





Leon supported by Curitiba

- Leon
 - Population: 1.4 million
 - Increase in private motorised transport
 - Urban sprawl / density loss
 - Low quality PT
 - Local air pollution
- Planned measures:
 - Governance models of public transport
 - Financing alternatives of public transport.
 - Regulation of parking on public streets.
- Specific expertise Curitiba
 - Public transport (BRT)
 - High density development
- Local take-up coach: EMBARQ MX



Kochi supported by Hangzhou

- Kochi
 - Population: 0.6 million (2.5 metropolitan area)
 - Increase in private motorised transport
 - Local air pollution
- Planned measures and support:
 - Modal integration with the metro (in construction)
 - Transport governance and institutional integration
- Specific expertise Hangzhou
 - Cycle sharing and infrastructure
 - Modal integration with water transport and metro
- Local take-up coach: ICLEI South Asia



Knowledge sharing and training events

04/2015

City Engagement Kick-off:

- Thematic cluster session
- Twinning session

Brussels

02/2015

SUMP Training event (SOLUTIONS/TIDE/CH4ALLENGE)
EV-workshop (UEMI/SOLUTIONS)

Barcelona

Chengdu

Mexico City

CITS – 10/2015

Trainings:

- City logistics
 - Integrated Transport Systems / Public Biking Systems
 - Public Transport
- City expertise:
- Budapest
 - Curitiba

Istanbul

CODATU - 02/2015

Trainings:

- Clean vehicles
- SUMP
- City logistics

Michelin Challenge Bibendum - 11/2014

Trainings:

- Network Management
 - Clean Vehicles
 - Public Transport
- City expertise:
- Budapest
 - Curitiba
 - Hangzhou
 - Barcelona

Casablanca

CIVITAS Forum – 09/2015

Trainings:

- Transport infrastructure
- SUMP
- Public Transport





SOLUTIONS E-learning programme

- **Free e-learning courses** for transport professionals led by SOLUTIONS partners
- Interactive concept focused on input from participants
 - moderated discussion by SOLUTIONS thematic experts
 - weekly tasks for participants
- First series of courses in early 2015 was attended by 400+ people
- New courses will start in September 2015

| E-learning course | Dates |
|----------------------------------|-----------------------|
| Sustainable Urban Mobility Plans | 7 Sept – 9 Oct 2015 |
| Network and Mobility Management | 21 Sept – 23 Oct 2015 |
| Clean Vehicles | 5 Oct – 6 Nov 2015 |
| City Logistics | 19 Oct – 20 Nov 2015 |
| Cycling Infrastructure | 2 Nov – 4 Dec 2015 |
| Sustainable Public Transport | 16 Nov – 18 Dec 2015 |



Urban Electric Mobility Initiative (UEMI)

Initiated by UN Habitat and SOLUTIONS the **Urban Electric Mobility Vehicles Initiative (UEMI)** aims to:

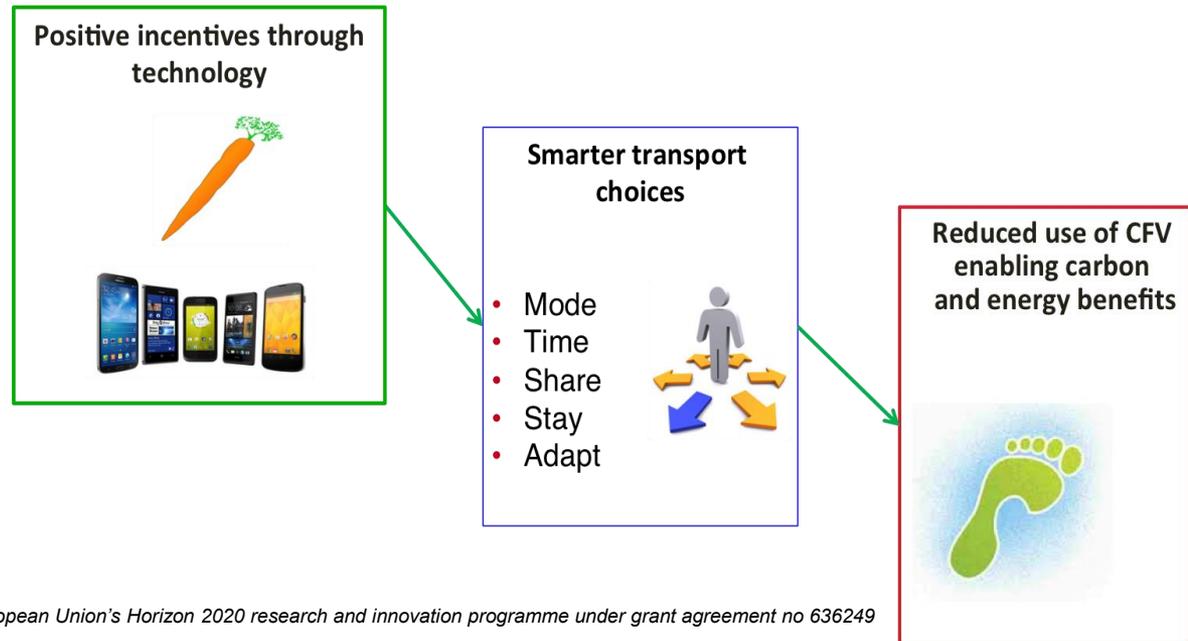
- Decreasing urban CO₂ emissions by increasing the market share of electric vehicles in cities to 30% of annual vehicle sales (incl. LDV and motorized 2-3 wheelers)
- Integrate electric mobility into a wider concept of sustainable urban transport that achieves a 30% reduction of GHG emissions in urban areas by 2030
- The UEMI was launched at the UN Climate Summit in New York in September 2014
- Join the initiative: <http://www.uemi.net/join-the-uemi.html>





EMPOWER – The project

- Mission: **reduce the use of conventionally fuelled vehicles** in cities by changing the mobility behaviour
- 4 Living labs (Manchester, Helsinki, Gothenburg and Enschede) trial instruments and tools based on **innovative mobility services**





Joint the team as Take-up or Follower

EMPOWER will:

1. Cooperate with seven **Take-Up** cities/organisations/communities to work together on further large-scale real-life implementations of the tools that are tested in the living labs
→ Combine your activities with EMPOWER to create an even bigger impact
2. Create a network of **Follower** cities/organisations to generate input and share tools and results in workshops and exchange meetings



What we offer to assist take-up

- Evidence based knowledge (on incentives, running a living lab, evaluation methodology, business models)
- Evidence based tools (ICT based, web and app)
- Help (in actually implementing knowledge and tools)
- Financial support (up to € 100.000)
- Experiences arising from the Take-Up city/organisation implementations will be fed back into the EMPOWER toolkit.

Interested? Competition is running till 11 December:

Email: info@empowerproject.eu

Project website: <http://empowerproject.eu/>

Do you want to learn more about SOLUTIONS?

Stay in touch:

info@urban-mobility-solutions.eu

www.urban-mobility-solutions.eu



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SOLUTIONSproject



YouTube