



EUROPEAN CITIES AND REGIONS NETWORKING
FOR INNOVATIVE TRANSPORT SOLUTIONS

Towards more efficient urban transport systems

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executive director

UNECE Workshop on urban transport and mobility

What is Polis

Network

Exchange of experiences

65 European cities & regions

European Projects

Innovation

European Institutions

Sustainable urban mobility



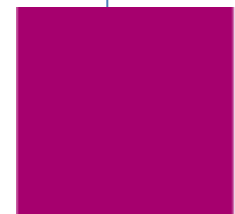
environment
& health



mobility
& traffic efficiency



safety
& security



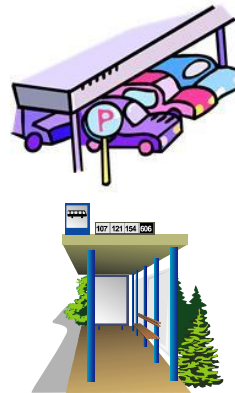
economic
& social aspects

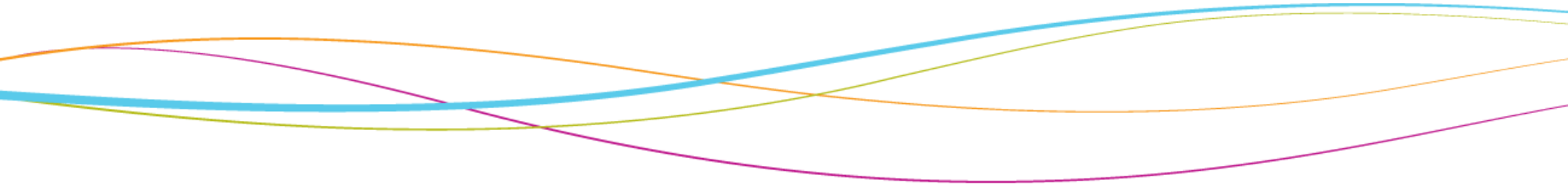


Enabling the movement of persons and goods



Integrated urban traffic and travel information
Integrated urban network management
Integrated charging policy and ticketing
Integration of the infrastructure





mobility & traffic efficiency



Smart Mobility - POSSE



mobility
& traffic efficiency

- **Polis brought together UTMC (UK) and OTS (D) initiatives on open ITS systems in Oct. 2012**
- **Reading BC (UK), Burgos (ES), Pisa (IT), NPRA (NO), CDV (CZ), La Spezia (IT), Klaipeda (LT), UTMC Ltd (UK), OCA e.V (D) and Polis (B)**
- **Objective: to promote concept of open ITS systems around Europe**
- **Key project outputs**
 - Report on study of usage of UTMC and OCIT/OTS specifications
 - Good practice guide to implementation of open ITS systems and standards
 - Open ITS systems and standards guidelines
 - Implementation plans for lead and follower partners



Smart Mobility – CONDUITS



mobility
& traffic efficiency

- Evaluating the impact of Intelligent Transport Systems in urban areas by defining a set of Key Performance Indicators (KPIs) to help city authorities identify where ITS can improve performance
- KPIs developed and tested in four cities in relation to traffic efficiency, transport safety, social integration and land use.
- Decision support tool developed for pollution reduction = predicting impact of ITS on pollution reduction based on KPI
- EC project ended in June 2011, but extended thanks to sponsoring of Kapsch.
- <http://www.conduits.eu/>

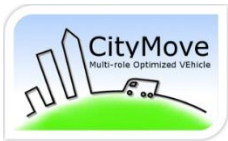
kapsch >>>

Automated vehicles



Improving the efficiency of urban freight delivery

- Improved efficiency of urban logistics
- Improved efficiency of the urban mobility system: less congestion, greater safety
- Cleaner urban logistics



Vehicles

**Urban network
management/ logistic
profile**

**Urban
logistics/delivery
solutions**

Planning strategies, consultation processes, labelling schemes



Barcelona urban freight policy



Trial for multi use lane and night time delivery

Extension of the schemes, further technological developments, improvement of measurements methods and technical knowledge

Further technological innovation, supporting wider scale deployment of the trialed solutions with new vehicle technologies

Example and Best Practice

2002

2006

2008

2012

Mobility pact



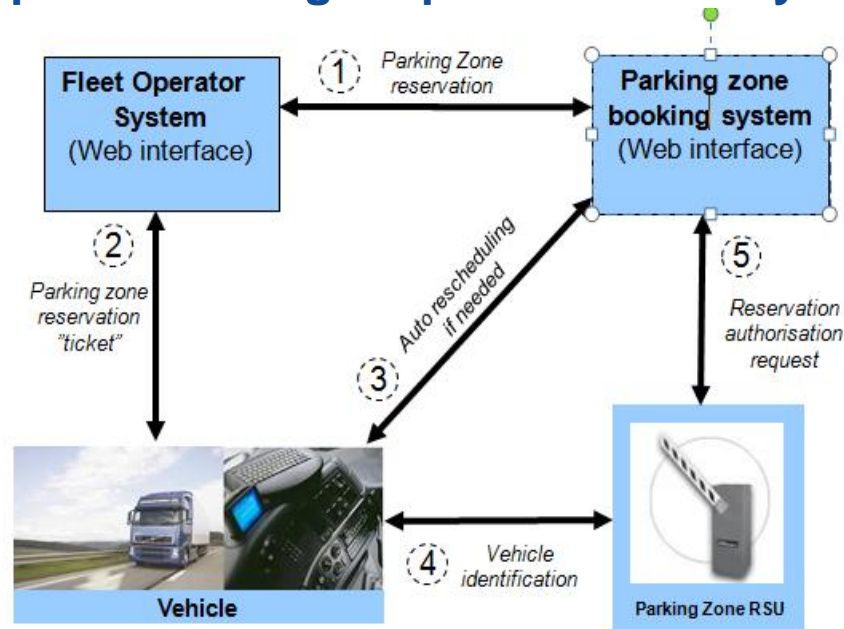
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www.polisnetwork.eu

Bilbao in Freilot - www.freilot.eu

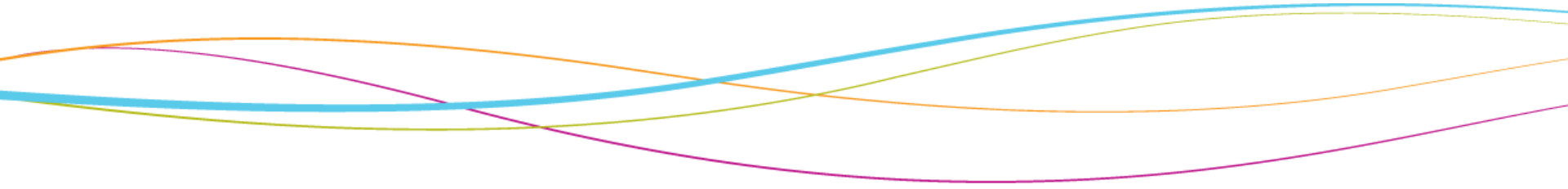


- Booking of delivery places in advance
Relying upon cooperative systems
- Once trialled, the scheme has now been extended
- * The partnership with the feight operators is a key factor for success



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environment & health



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Lille organic recovery centre & biogas bus fleet

from 1994

- Methane fuel Production trials using biogas. This supplies 4 buses.

1999

- decision to replace the diesel bus fleet with gas and biogas-powered buses.

2004

- decision to choose methane fuel for recovering biogas produced by biowaste digestion.

2005

- Selective collection of biowaste involves 500,000 inhabitants.
- Organic recovery centre commissioned. Biogas Production equivalent to 4.5 million litres of diesel/year

2007

- Construction of Organic Recovery Centre (Loos/Sequedin) to treat 100,000 tonnes of biowaste /year. Construction of gas/biogas bus depot in Sequedin.
- 100 of the 150 buses stationed there are supplied with biogas from the Organic Recovery Centre.



Electromobility - LIVE in Barcelona

Ajuntament de Barcelona Castellano :: Català

Live

FAQ :: To find out more :: Users' area :: Contact

NEWS

17/02/2012
Barcelona es converteix en la capital europea de la mobilitat elèctrica amb la celebració de Green eMotion
+INFO

27/01/2012
Barcelona entra al "top 10" de ciutats intel·ligents gràcies a projectes com la plataforma Live
+INFO
See more news

To take care of our planet

WHAT IS LIVE?

HOW DOES AN ELECTRIC VEHICLE WORK?

10 REASONS FOR THE ELECTRIC VEHICLE

GET AROUND BARCELONA WITH AN ELECTRIC VEHICLE

234 Current charging points

Ajuntament de Barcelona | Generalitat de Catalunya Institut Català d'Energia | IDAE | endesa | SEAT | SIEMENS

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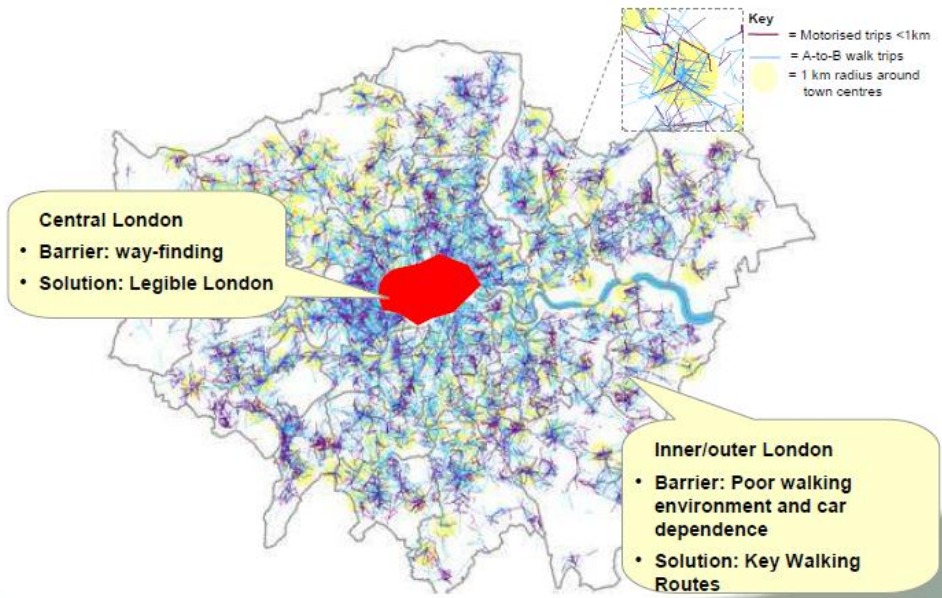


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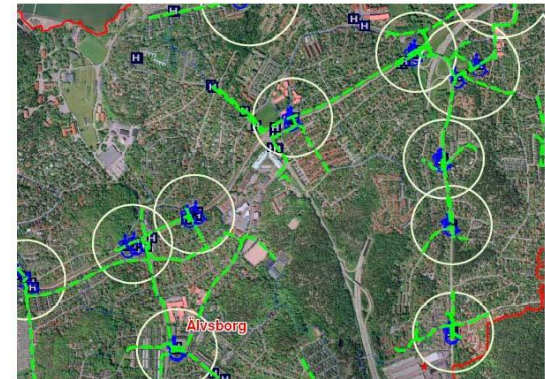
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Active travel – London and Gothenborg walking strategy

Barriers to Walking in London



INVENTORY OF FOOTPATHS



Goal: At least one accessible footpath to each bus / tramstop

Ex: "Majorna" - 700 obstacles – cost 200 000 Euro



Best Practice for Local Walking Schemes

Prepared for all London Boroughs and Sub-regional Partnerships



Transport for London



MAYOR OF LONDON

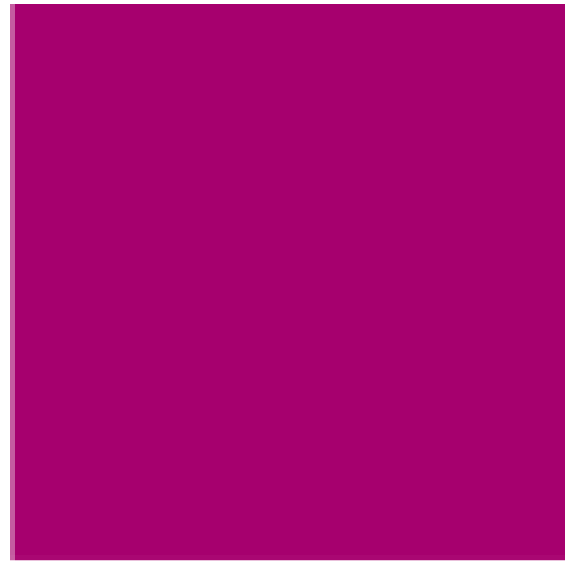
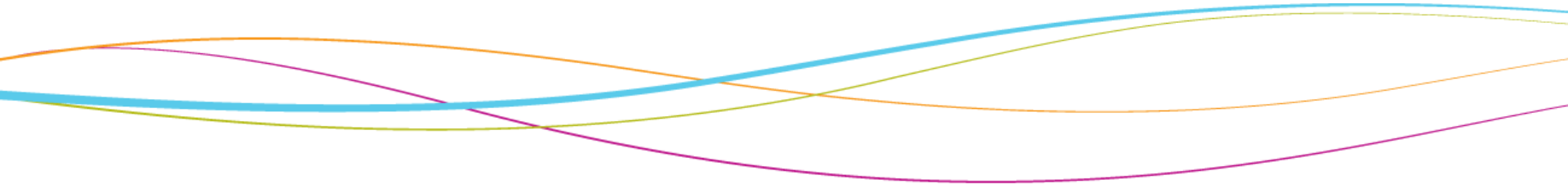


MAYOR OF LONDON

Active travel and health



- **Position paper released in March 2012:**
“Securing the benefits of active travel in Europe”
- **A shift to active mobility and public transport combined with improved land use can yield immediate health benefits, much greater than those achievable by focusing only on improving air quality and the local environment through greater fuel and vehicle efficiencies.**
- **More walking and cycling, for all trip purposes – to work, education, shopping, social and leisure trips – can generate important economic benefits through large public health gains (which are not offset by accident costs) in addition to reduced pollution and congestion.**
- Physical activity deficiency is one of the leading risk factors for ill-health in the 53 Member States in the World Health Organization (WHO) European Region, where nearly 1 million deaths/year are estimated to be attributable to physical inactivity.
- **Calls upon European institutions and other European actors:**
to take action to ensure that the promotion of health benefits of active travel is maximised in all relevant European policies and programmes



economic & social aspects



Parking

- **Key component of a demand management policy**
- **One minute fraction tariffs in Barcelona**
- **Mobile parking payment**



Financing – the northern line extension in London



NLE Potential Funding and Financing Sources

- Funding – developer contribution
- Community Infrastructure Levy (CIL), tax on planning permission by boroughs
- Section 106 contributions (S106)
- Business rates supplement (BRS)
- Tax increment financing (TIF)
- Finance - borrowing
 - Private sector borrowing – more expensive option
 - Public sector borrowing – less expensive option

The major challenges are not technological !

Key success factors include:

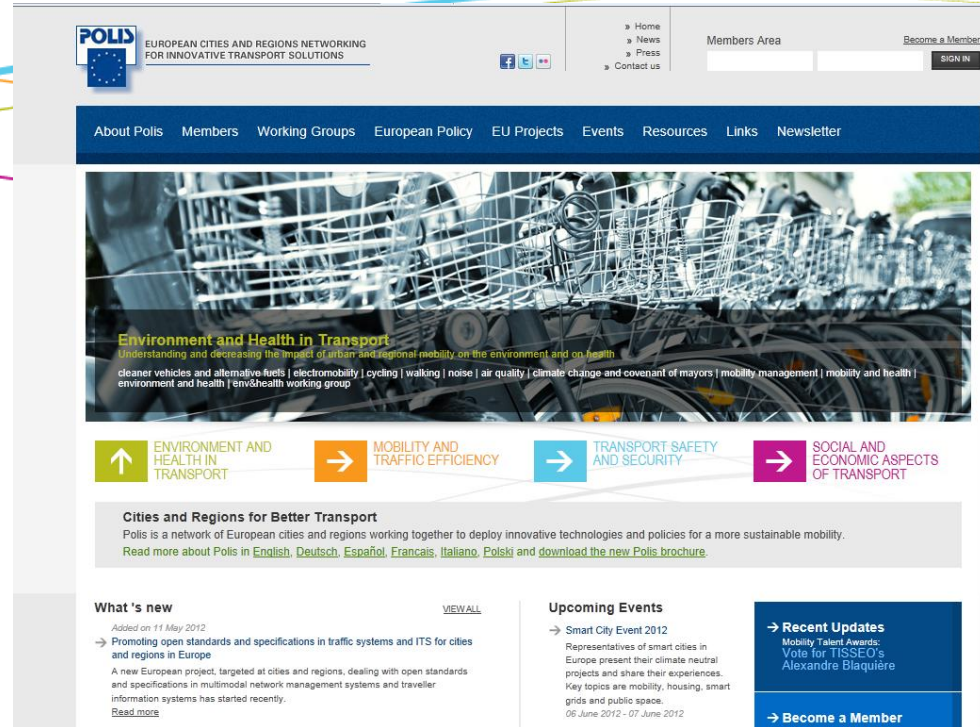
- **Efficient governance structure**
- **Sustainable urban mobility planning, inclusive of all !**

More information

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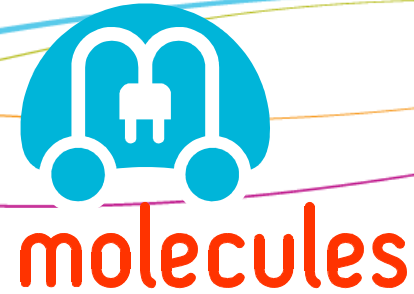
The screenshot shows the Polis website homepage. At the top left is the Polis logo with the text "EUROPEAN CITIES AND REGIONS NETWORKING FOR INNOVATIVE TRANSPORT SOLUTIONS". To the right are social media icons and a navigation menu with links for Home, News, Press, and Contact us. Below this is a dark blue navigation bar with links for About Polis, Members, Working Groups, European Policy, EU Projects, Events, Resources, Links, and Newsletter. The main content area features a large image of bicycles with a text overlay titled "Environment and Health in Transport" and a list of topics: cleaner vehicles and alternative fuels, electromobility, cycling, walking, noise, air quality, climate change, and covenant of mayors. Below this is a horizontal menu with four categories: Environment and Health in Transport, Mobility and Traffic Efficiency, Transport Safety and Security, and Social and Economic Aspects of Transport. A section titled "Cities and Regions for Better Transport" describes Polis as a network of European cities and regions working together. At the bottom, there are sections for "What's new" (dated 11 May 2012) and "Upcoming Events" (Smart City Event 2012, dated 06 June 2012 - 07 June 2012). A blue button in the bottom right corner says "Become a Member".

Other European initiatives offering case studies on innovative urban transport solutions:

NICHES & NICHES + : www.niches-transport.org;

CIVITAS, ELTIS, SUGAR & BESTFACT, Covenant of Mayors, etc.

Electromobility



MOLECULES

- ICT Policy Support Programme
- Develop & demonstrate ICT applications to promote integrated uptake of smart connected electromobility
- Reference Group Meeting: 26 June Paris



PTP · Personal Trip Planner
Multimodal solution integrating electric car sharing and carpooling schemas. Will allow the user to book the electric part of the trip.

ESS: EV Sharpooling Support
Combines carsharing with carpooling services at better prices.

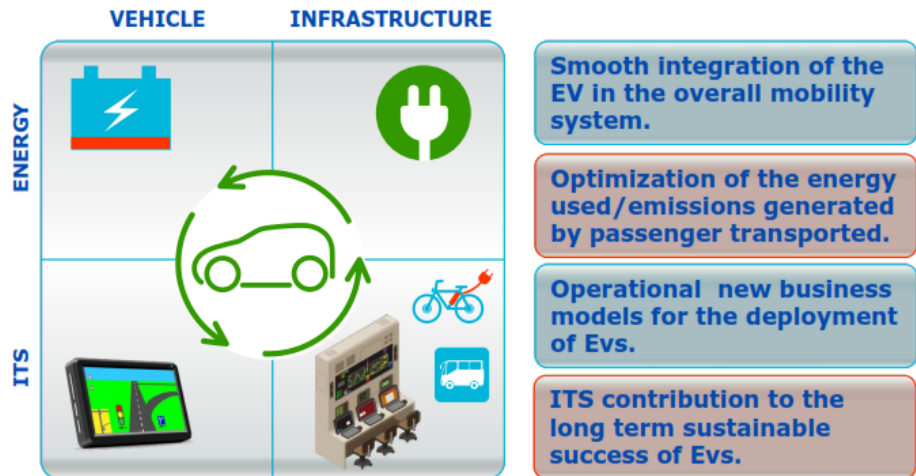
EBIS: Electromobility Billing Support
Integrates seamless ticket and billing facilities for electro-mobility.

PECA: Personal Carbon Footprint Advisor
Registers the user carbon footprint based on his/her behavior when using MOLECULES, and gives advice to enhance it.

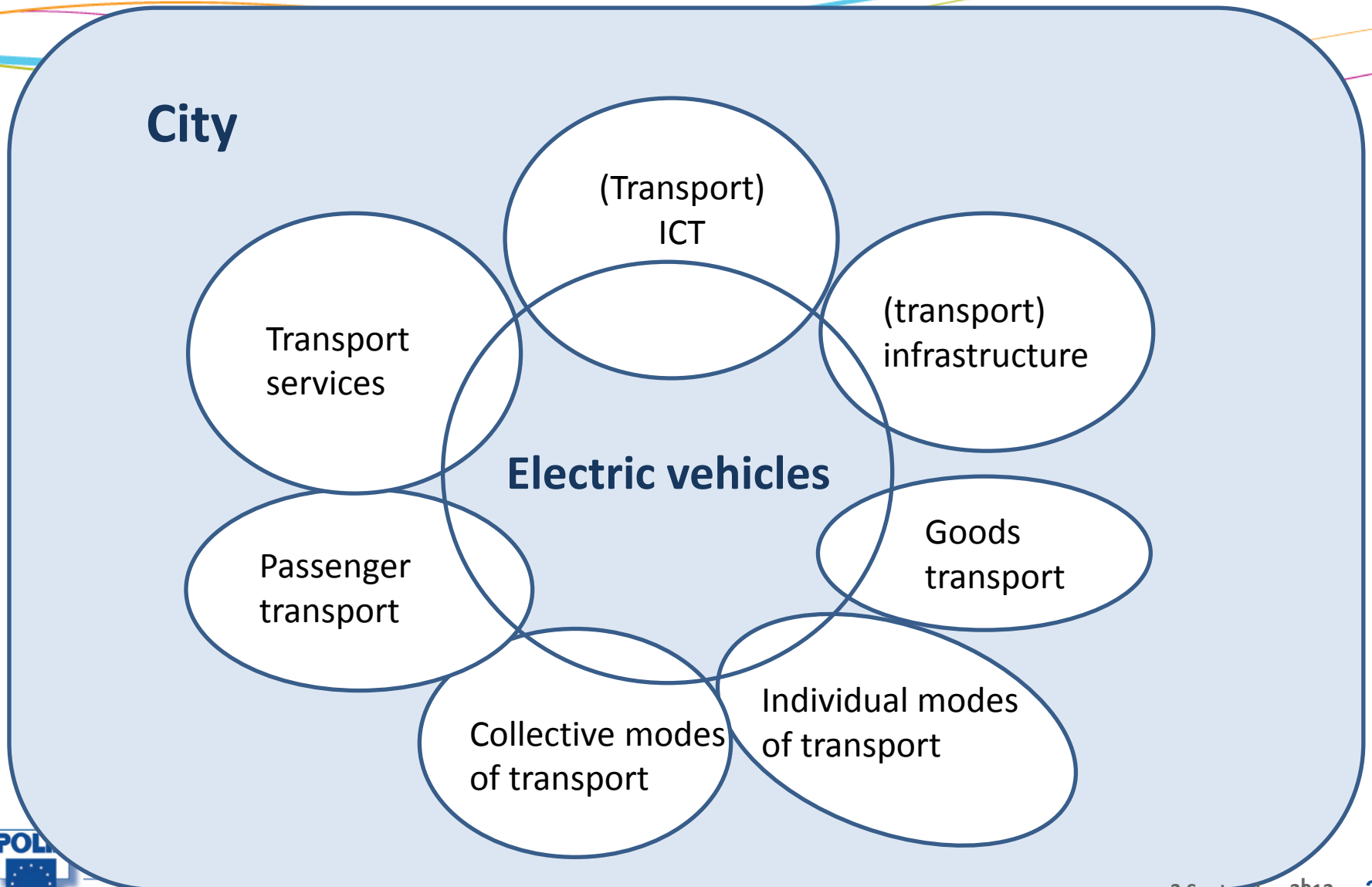
ITEM: Incentives to Electromobility
Will integrate two groups of incentives: (i) those applied to any EV user. (ii) those depending on the user carbon footprint.

PERA: Personal Recharging Advisor
Offers the user advice on the most energy efficient way of recharging according price, origin of electricity, foreseen trips, battery status, etc.

NSE: Network Strategies for Electromobility
Based on the real-time carbon emissions registered, applies traffic and public transport strategies in order to balance emissions and recover the acceptable values



Integrating electromobility in the urban mobility system



- **Subsidies:**
 - **Company cars**
 - **Charging points**
 - **Electricity**
- **Location and real-time availability of Amsterdam charging stations released as open data**

