

Cities and Regions for Transport Innovation

Karen Vancluysen, Polis Secretary General





European network

**78 members
from small towns
to big regions**



Peer-to-peer exchange

Policy

Research

Innovation

78 Cities & regions

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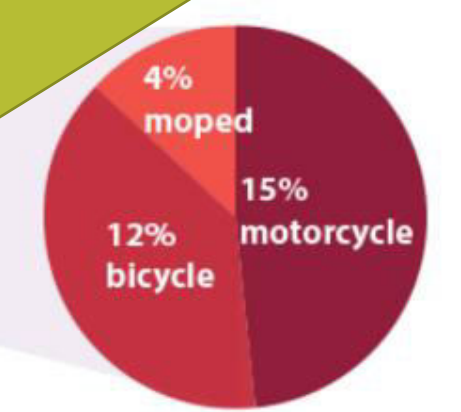
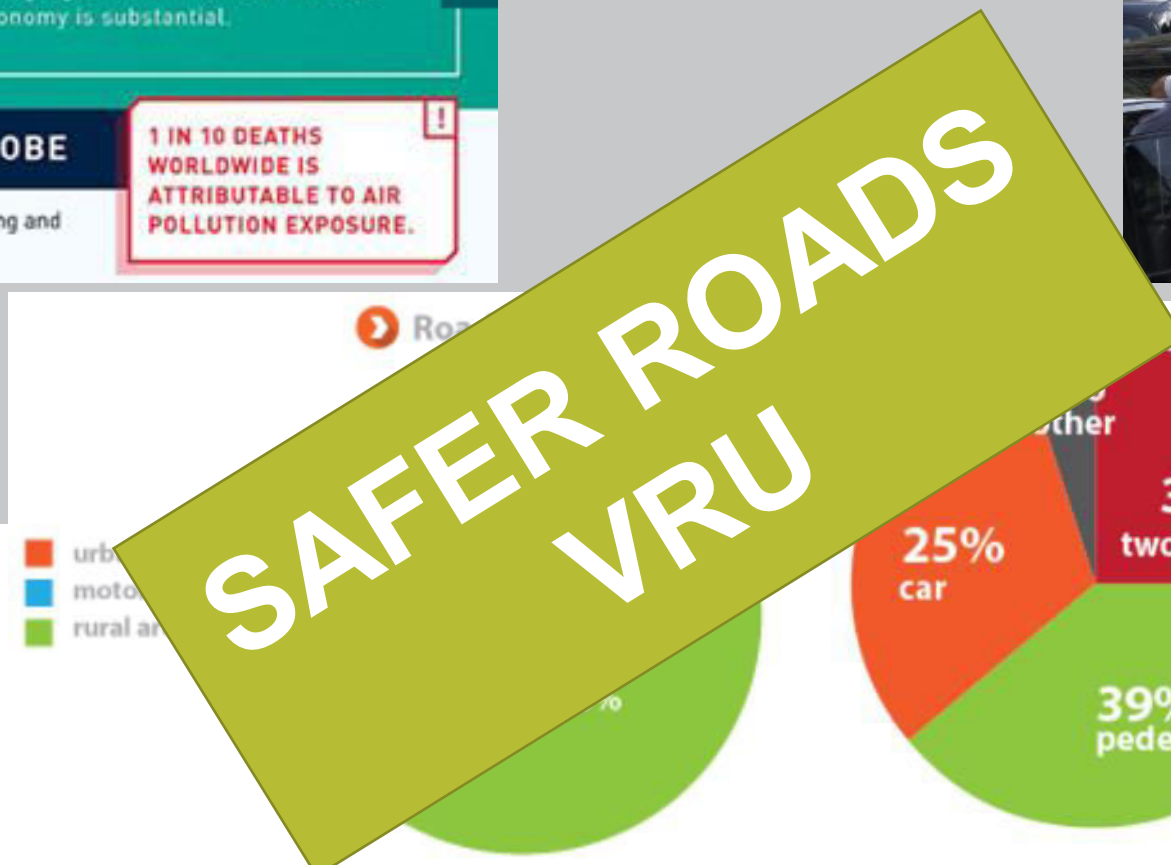
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POLIS
CITIES AND REGIONS FOR TRANSPORT INNOVATION



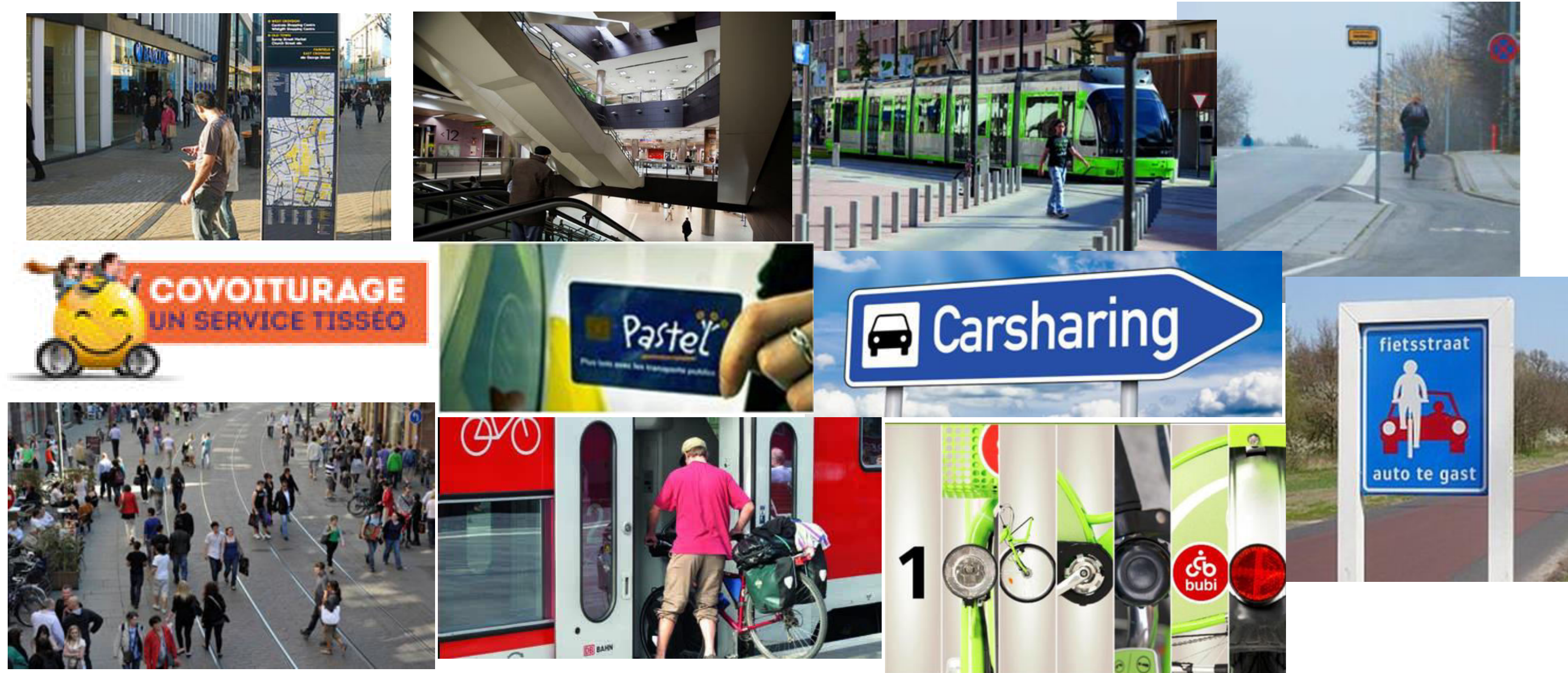
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Urban mobility: Main policy challenges & goals



Source: EC – 2015 statistics

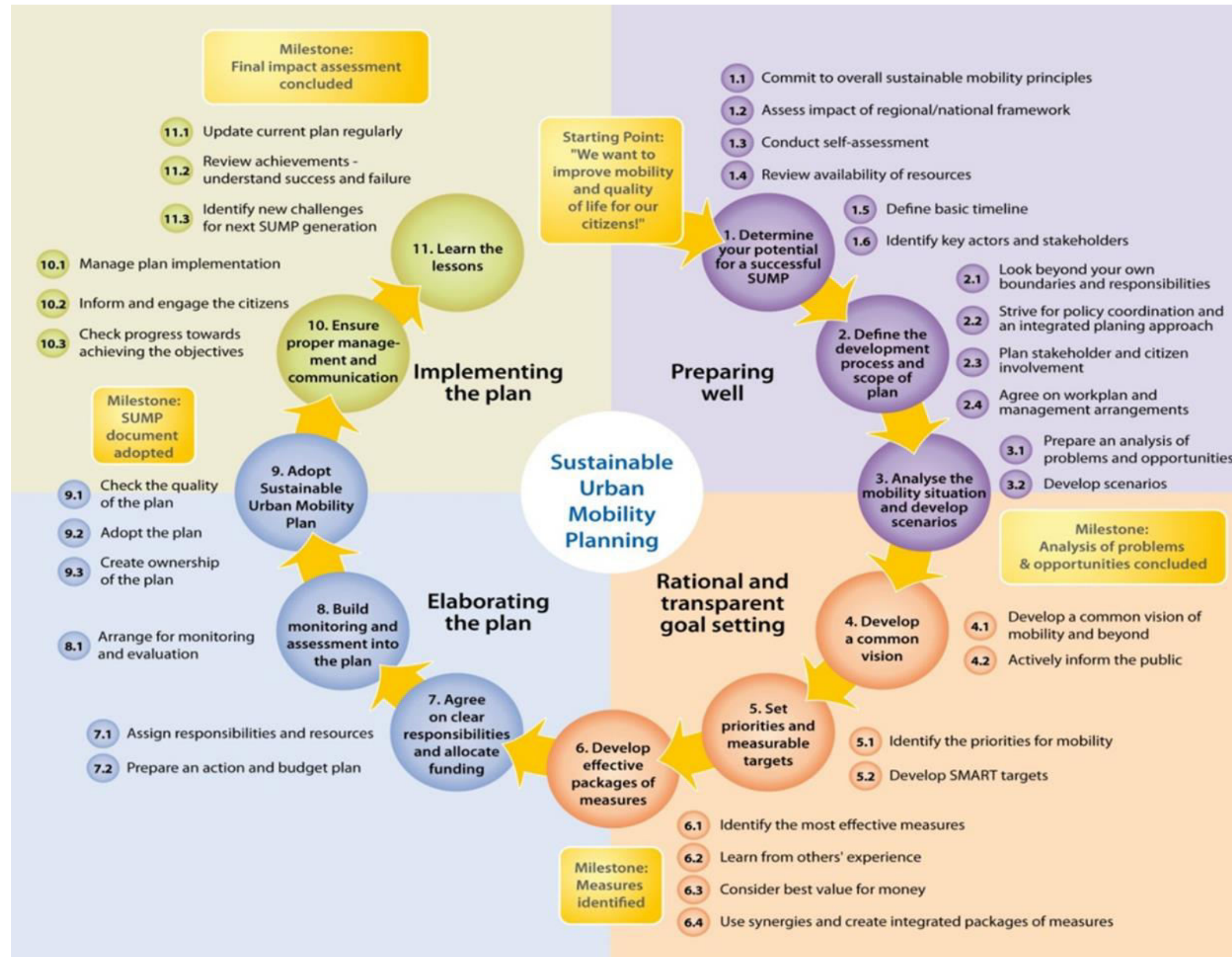
Sustainable Urban Mobility Policy



Multimodal – Intermodal – Clean – Safe – Flexible – Affordable – Connected – User-centric – Inclusive – Shared – Healthy – Seamless ...



Sustainable Urban Mobility Plans





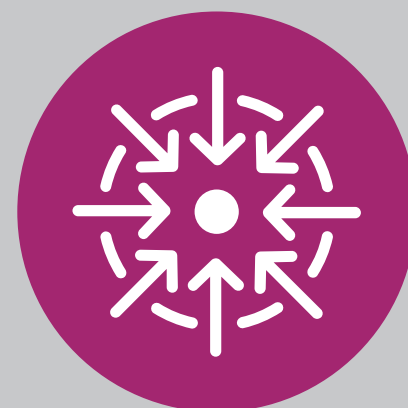
Polis Pillars



Environment
& Health



Traffic
Efficiency



Access



Road Safety
& Security



Governance
& Integration



Activities



**Peer-to-Peer
Exchange**



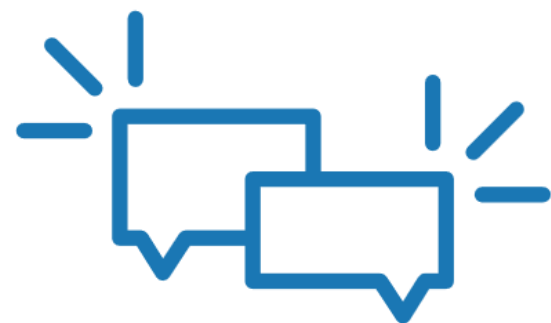
**Research &
Innovation**



Policy & Advocacy



Peer-to-peer exchange



Working Groups



- **Active Travel & Health**
- **Clean Vehicles & Air Quality**



Traffic Efficiency:

ITS, traffic management, automation, MaaS, data,...



- **Governance & Integration**
- **Small and medium sized cities platform**
- **Urban Freight**



Road Safety:

VRUs, data collection, vehicles and ISA, ...



- **Economic & Social Access**
- **Parking**



Research & Innovation



Environment & Health

EUROPEAN MOBILITY WEEK
16-22 SEPTEMBER 2019



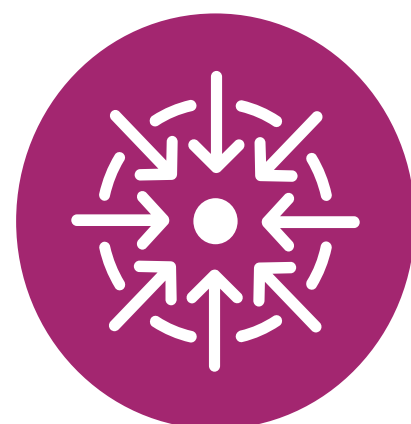
Traffic Efficiency

CoEXist



levitate

MOMENTUM



Access



inclusion



REVEAL



Road Safety & Security



levitate

i-DREAMS



Governance



EUROPEAN MOBILITY WEEK
16-22 SEPTEMBER 2019





Policy & Advocacy

75%
EU legislation is
implemented locally



European Council
Council of the European Union



European Parliament



European
Commission

The voice of cities and regions

- Meetings with local politicians
- Polis position papers & policy documents
- Polis represents local/regional authorities during EC consultations, towards EP, EC, EESC, CoR
- Polis leads the ERTRAC Urban Mobility Working Group which defines research priorities on sustainable urban mobility for EC funding programmes





POLIS Position & Discussion papers

- Local opportunities for digital parking
- Road Vehicle Automation
- Mobility as a Service
- The role of transport in Smart Cities
- Securing the health benefits of active travel
- Open data
- Coming up next: Regulating micromobility



EUROPEAN CITIES AND REGIONS NETWORKING
FOR INNOVATIVE TRANSPORT SOLUTIONS

ROAD VEHICLE AUTOMATION AND CITIES AND REGIONS



This discussion paper offers the perspective of
Polis member cities and regions on road vehicle
automation.

23 January 2018

Editor: Suzanne Hoadley on behalf of the Polis
Traffic Efficiency & Mobility Working Group

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www.polisnetwork.eu



Regulate to innovate!

Anticipate

Build understanding of possible impacts

Identify where innovation can deliver positive outcomes and where there are risks

Talk & cooperate – ppp's

Define measures - policy, financial, regulatory - to maximise opportunities and minimise disbenefit

Carrots & sticks

Lead by example

Need for public sector oversight

Cities should be in the driver's seat!



Trending topics

New and shared mobility services

Multimodal traffic management

Health impacts of active travel

Clean city logistics

Electromobility

Dynamic kerbside management

MaaS

Automation

Innovation in SMCs

Urban vehicle access regulations

Data

Potential MaaS benefits

- Promoting sustainable travel, especially giving up the car
- Improving efficiency of existing transport services and public resources
- Leveraging personalized approach to develop inclusive systems
- Enhancing access to transport services
- Offering choices to users



Risks of a purely commercial MaaS approach:

- Dis-incentivising sustainable trips
- Higher costs for user or transport provider and unequal services
- Creating a disconnect between the user, transport provider and transport authority

Public sector oversight



AVs: Possible outcomes for cities

Travel behaviour

- Reduction in private car ownership
- More motorised trips

Spatial

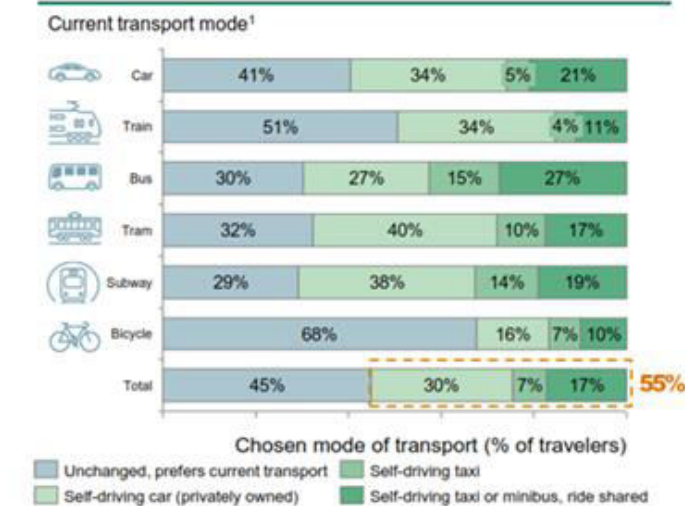
- More public space created by redundancy of parking
- Urban sprawl and longer commuting

Social

- Enhance transport provision to persons with limited transport access
- Increased social division and inequality

Survey indicates that ~55% of all car, public transport and bicycle users prefers a form of SDV in scenario 3

Question: Which mode of transport would you choose if self-driving vehicles were available today?



~55% of travelers already indicates that they would switch to a SDV

More than half of travelers indicate that they would switch to a form of self-driving vehicle

- Among car users, this figure is ~60%
- Among rail passengers, this figure is ~50%
- Among bus, tram and subway users, this figure is ~70%
- Among cyclists, this figure is ~30%

The preference of self-driving vehicles is about 50% for a privately owned self-driving car, and 50% for some form of vehicle-sharing or ride-sharing

These conversion rates are more probably an underestimate than an overestimate, because conversions to new technologies are often underestimated by consumers

- We took this into account when drafting the various scenarios

Impact of self-driving vehicles on the city of Amsterdam, Study commissioned by the city of Amsterdam

AVs: Possible outcomes for cities

Road safety

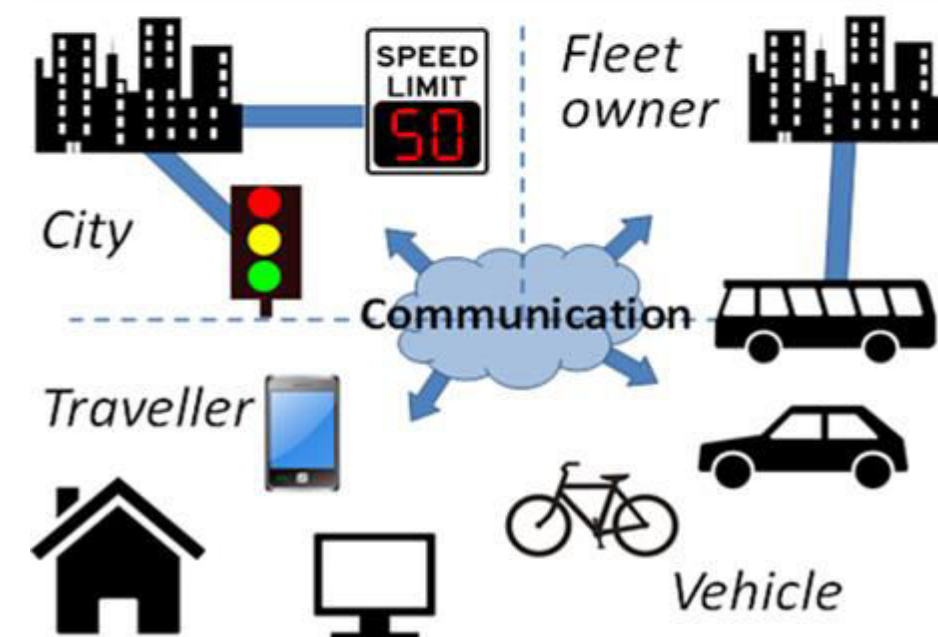
- (i) driver distraction reduction; (ii) road rules compliance
- (i) Interaction with VRUs; (ii) technology infallibility

Traffic management/efficiency

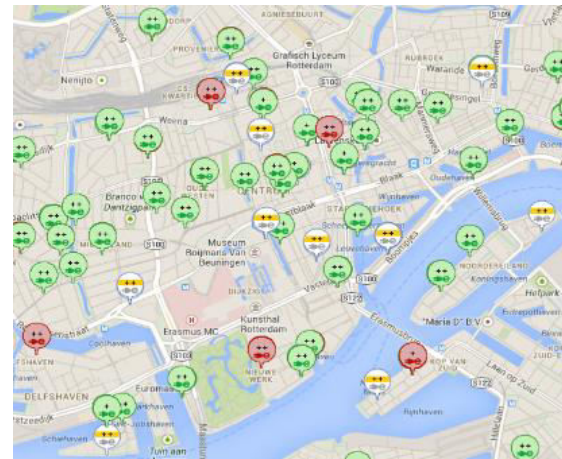
- C-ITS: richer data for traffic and asset management; improved vehicle control
- Improved traffic efficiency leads to more vehicles

Infrastructure

- If significant investments: new business models

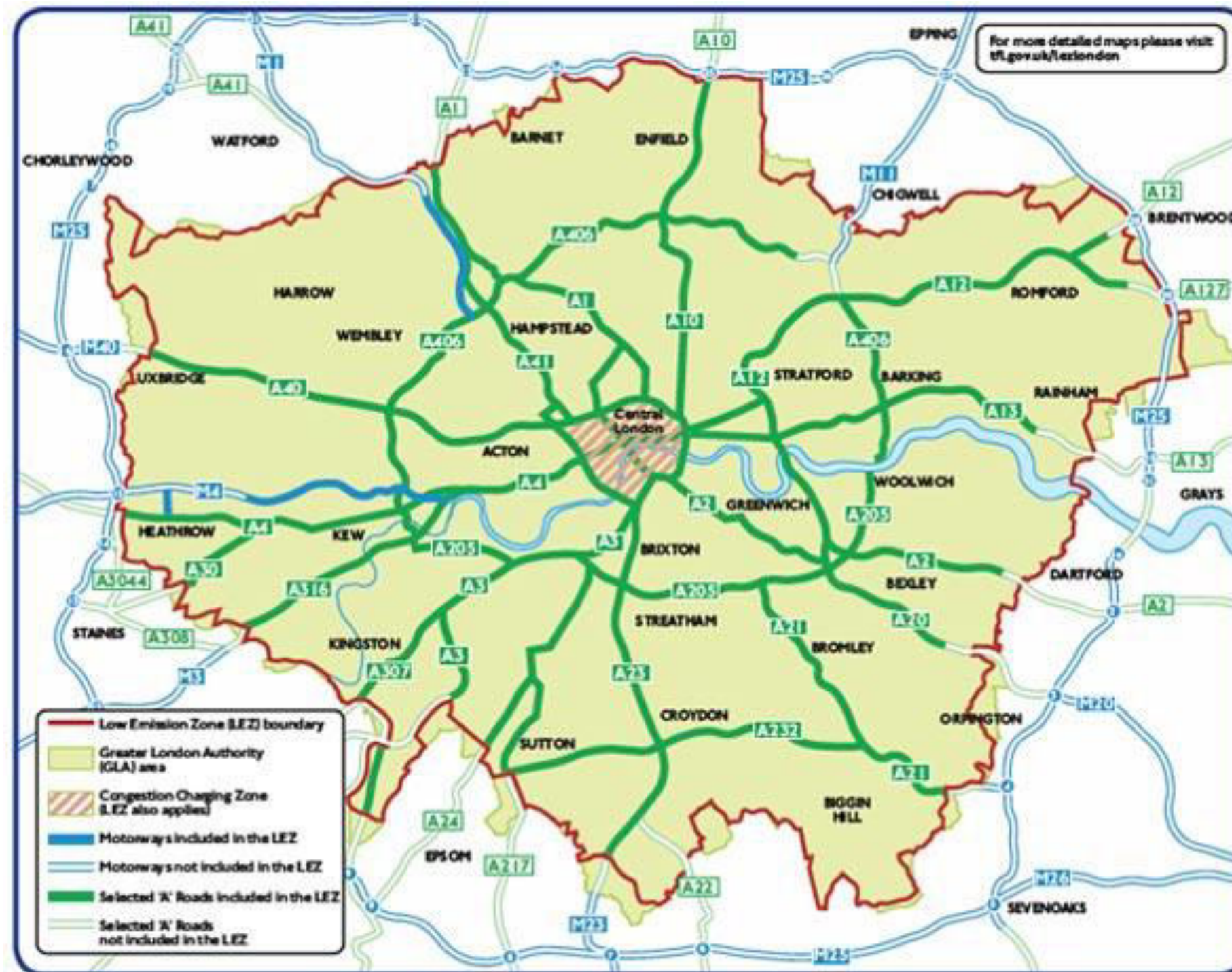
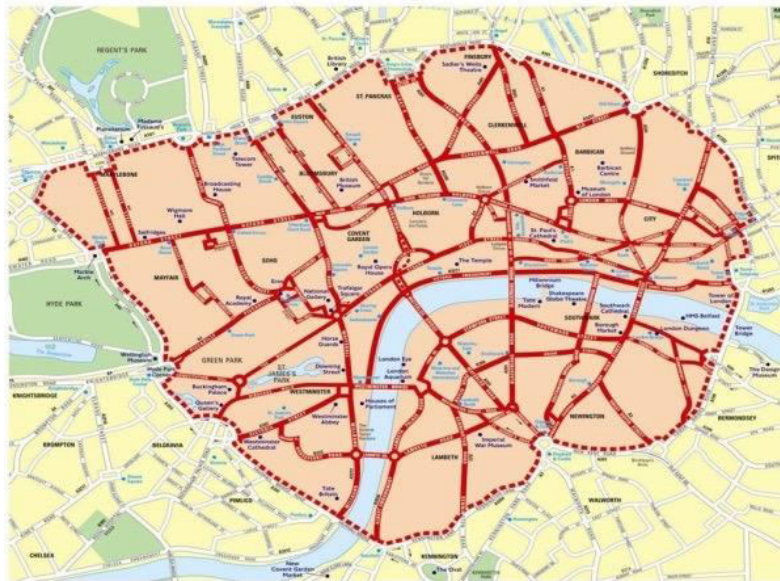


Electromobility: Multi-faceted transition





Regulating access



Micromobility

- Electromobility
- Modal shift
- Environmental impact
- Active travel
- Urban space
- Data
- Governance and regulation



The public authority as urban space manager

Land use planning -
densification

Prioritising modes
through space
reallocation

Pricing space

Parking

Dynamic kerbside
management





SMC Platform

Small and Medium-sized Cities

- discuss mobility governance issues specific to their size and shape
- living laboratories for innovation
 - due to their size, SMCs offer an ideal ground for testing and implementing new transport technologies and services that are crucial to solve the most pressing mobility challenges
- attract industry and new mobility services





Thank you!



Want to join Polis? 😊

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www.polisnetwork.eu

