Interreg Europe Policy Learning Platform: urban challenges for sustainable mobility

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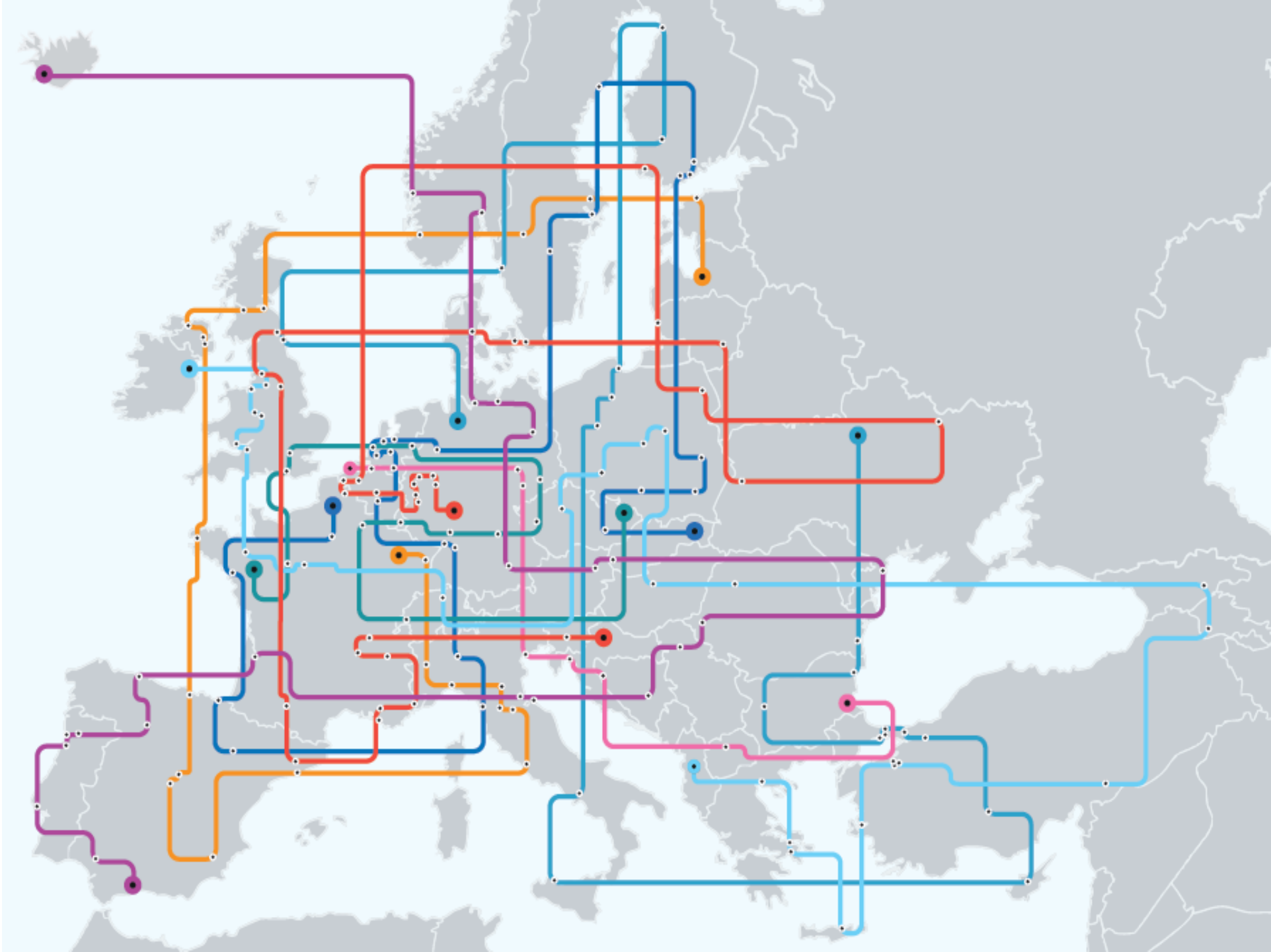
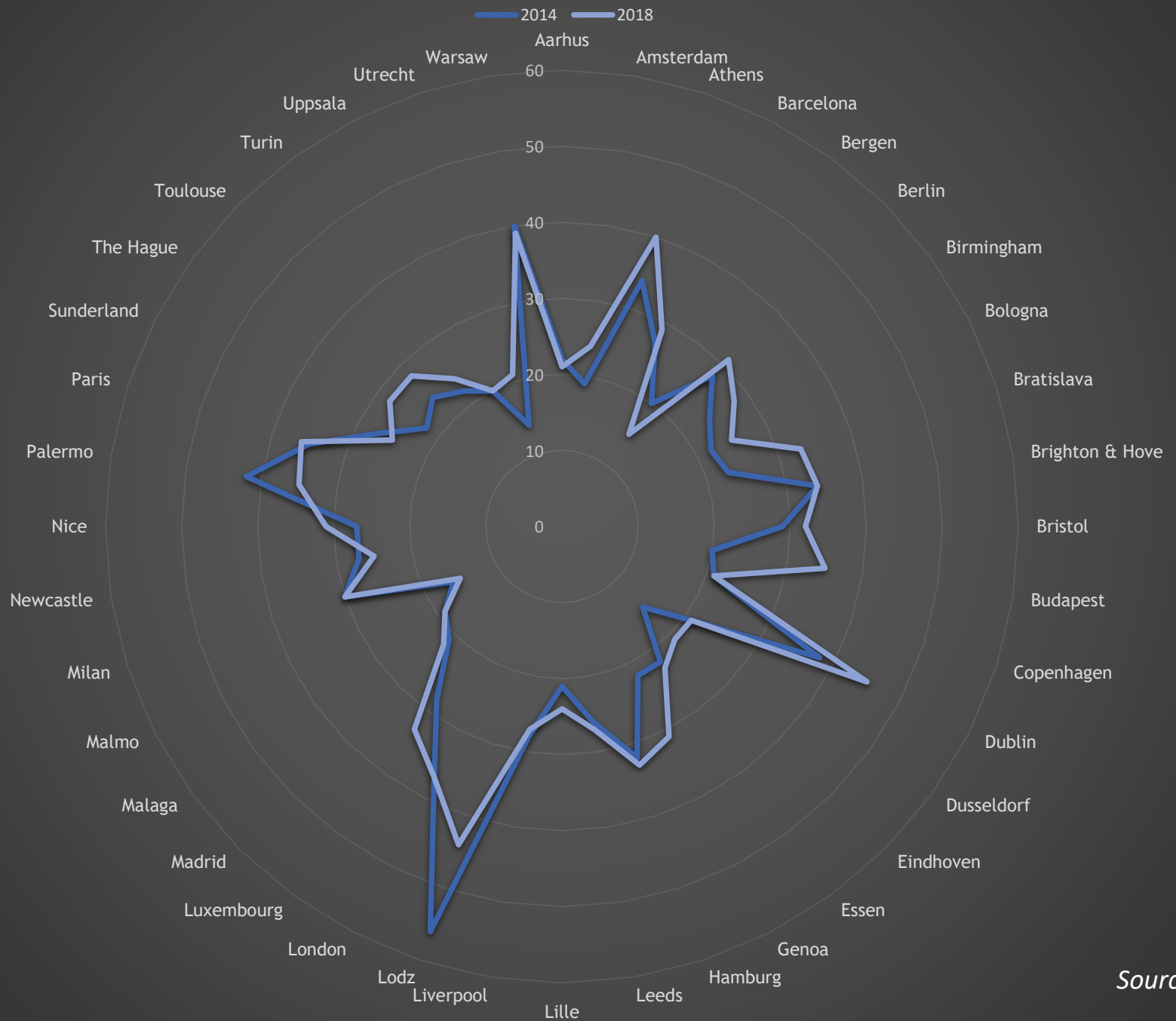
EUROCITIES

OVER
140 OF
EUROPE'S
MAJOR
39 CITIES
COUNTRIES

1/4 OF EUROPEAN
POPULATION



Evolution of congestion in major European cities 2014-2018



Congestion

Approx. EUR 100bn cost per annum or ~1% of EU's GDP from urban transport

Source: TomTom Congestion Index

Evolution congestion Eastern European cities

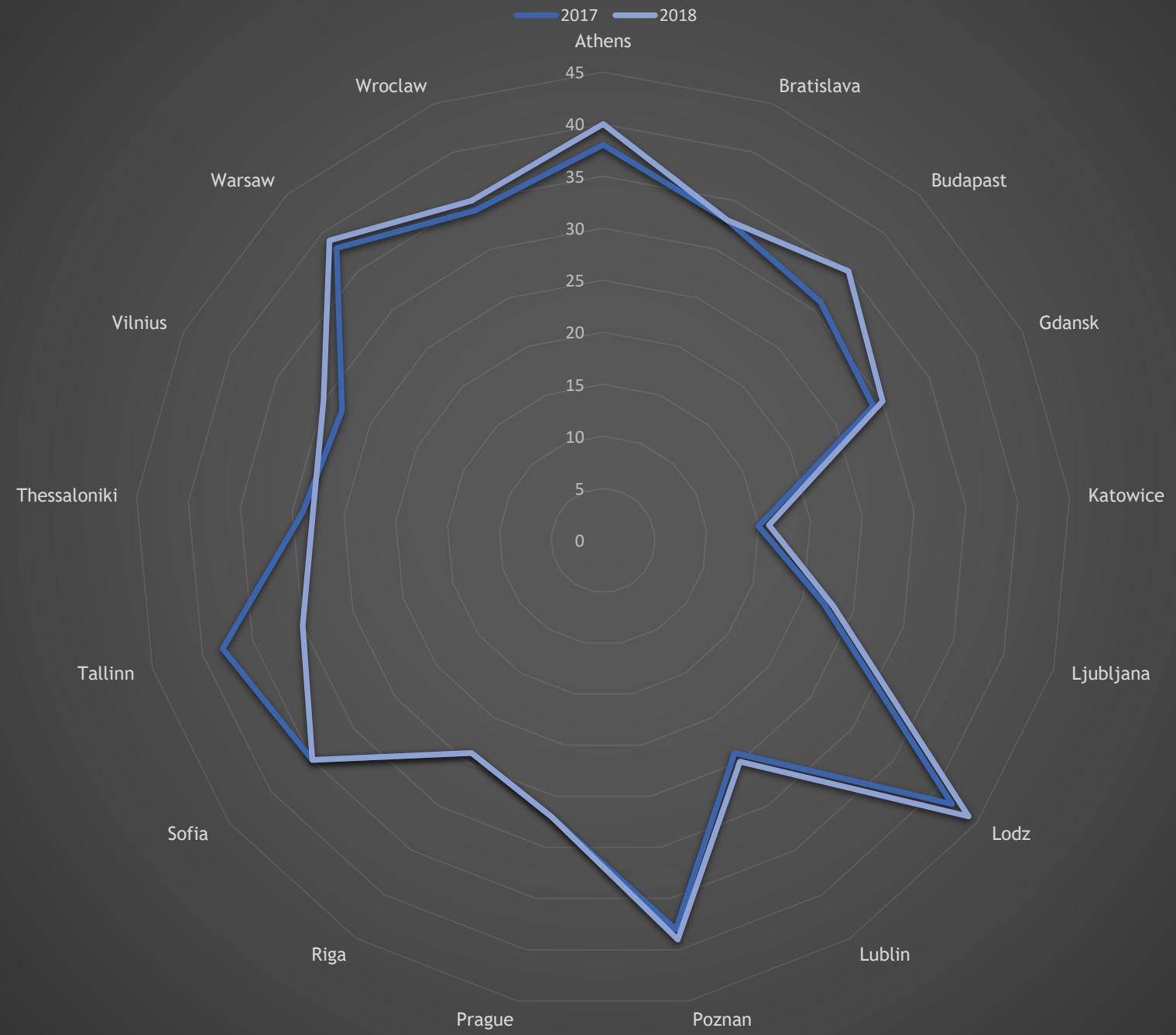
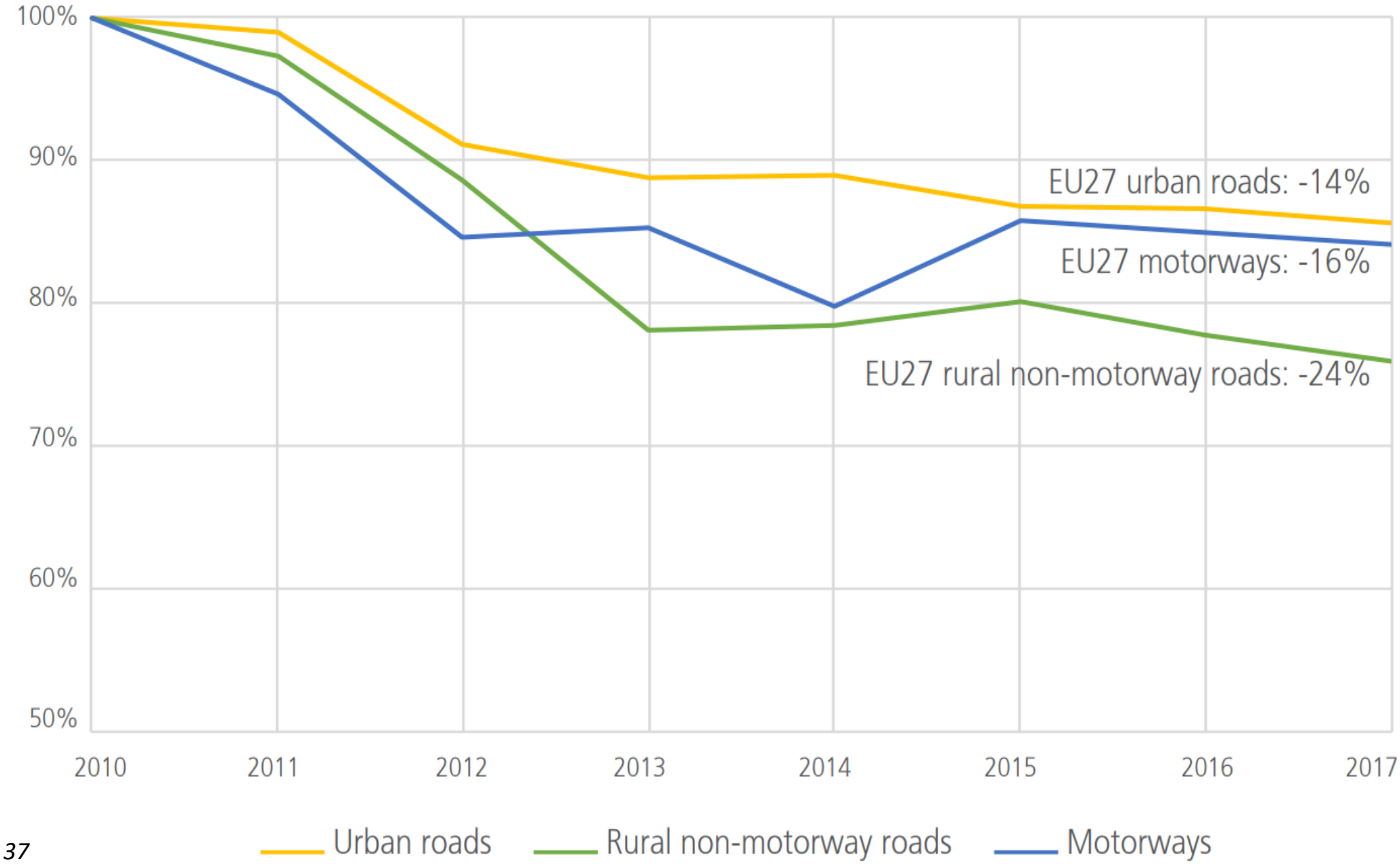


Figure 2. Progress in reducing in the number of reported road deaths on urban roads, rural non-motorway roads and motorways in 27 EU countries for which data are available. SK is excluded from the EU average due to insufficient data.



Traffic accidents

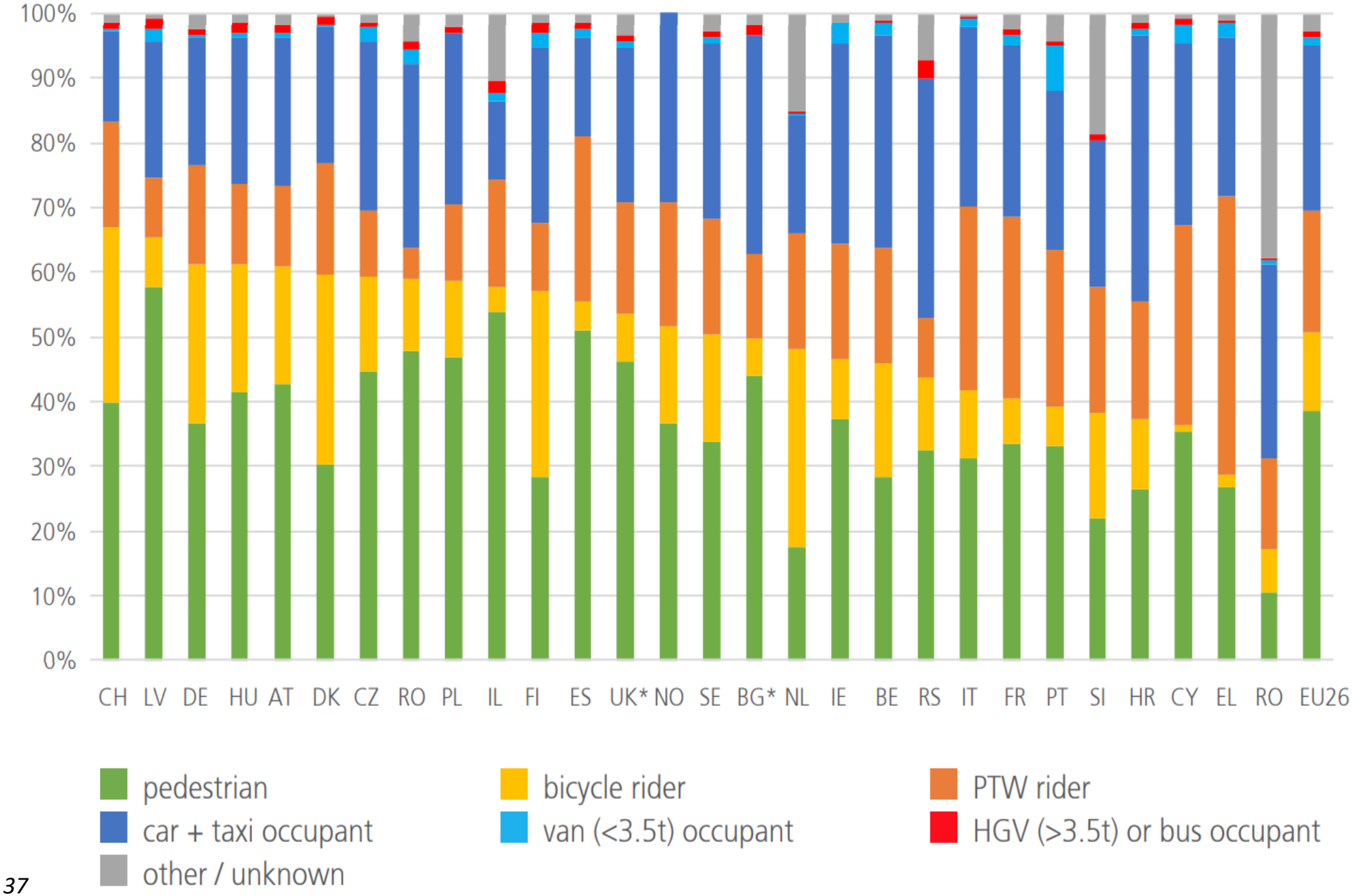
25,300 fatalities and 135,000 seriously injured

37% of these occur in urban areas

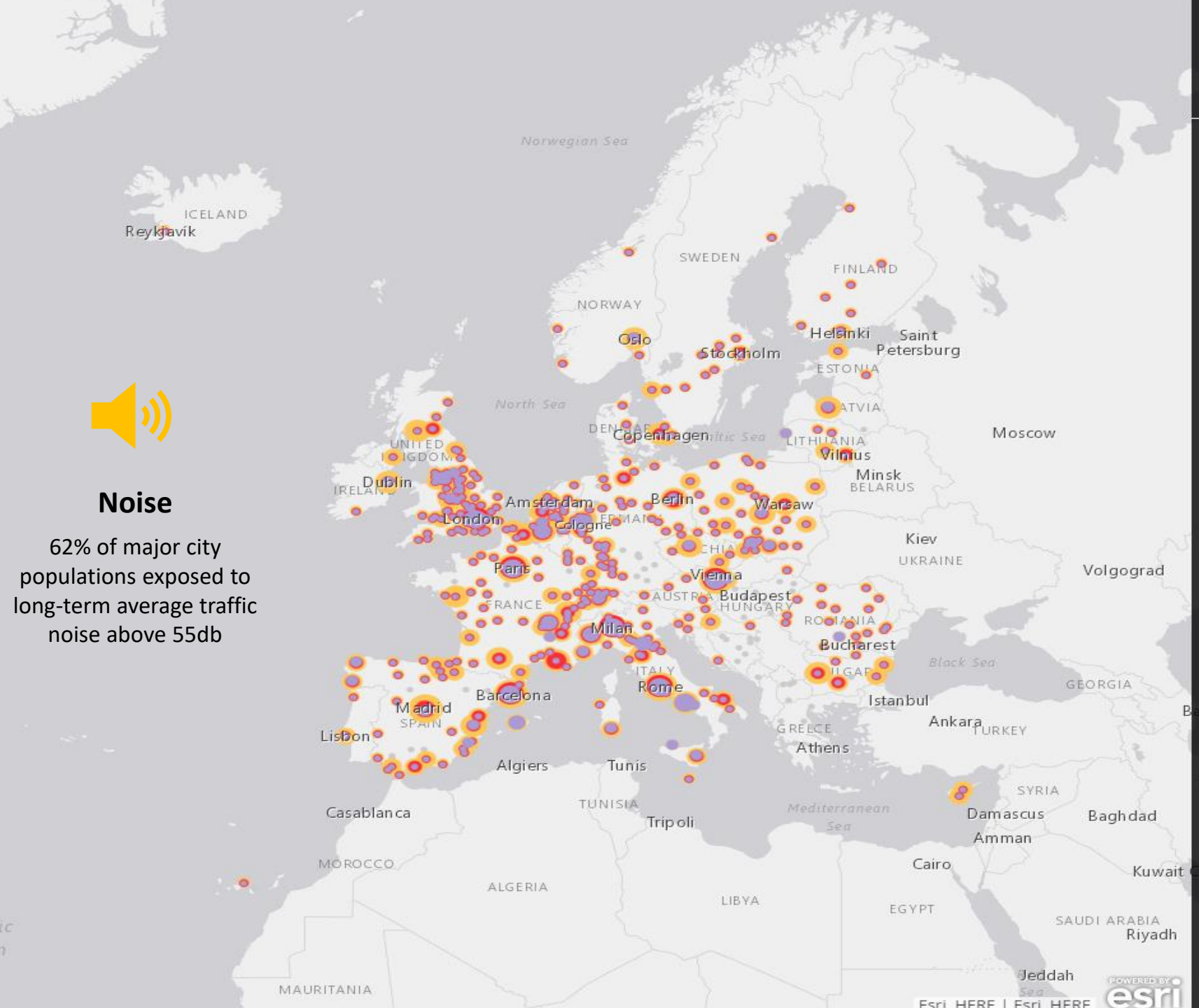
Source: ETSC PIN Flash Report 37

Figure 8. Proportion of reported road deaths on urban roads by road user group, average years 2015-2017. Countries are ranked based on the proportion of pedestrian and cyclist deaths.

BG* – 2015;
UK* - 2015-2016.
EE, LU and MT are excluded from the figure due to relatively small numbers of road deaths. SK is excluded from the figure as the data are not available.



Source: ETSC PIN Flash Report 37



Noise

62% of major city populations exposed to long-term average traffic noise above 55db

European Environment Agency

The NOISE Observation & Information Service for Europe

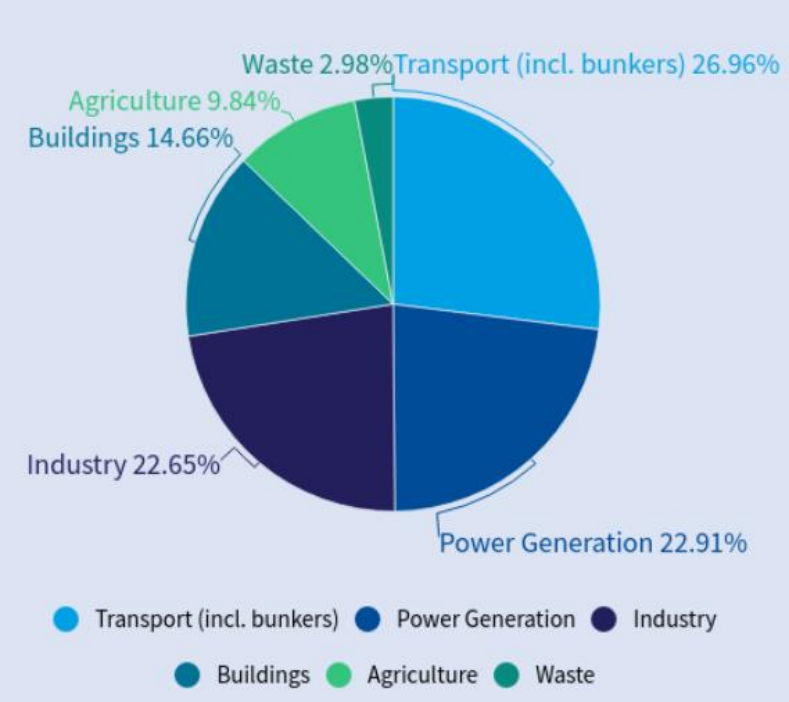
Roads

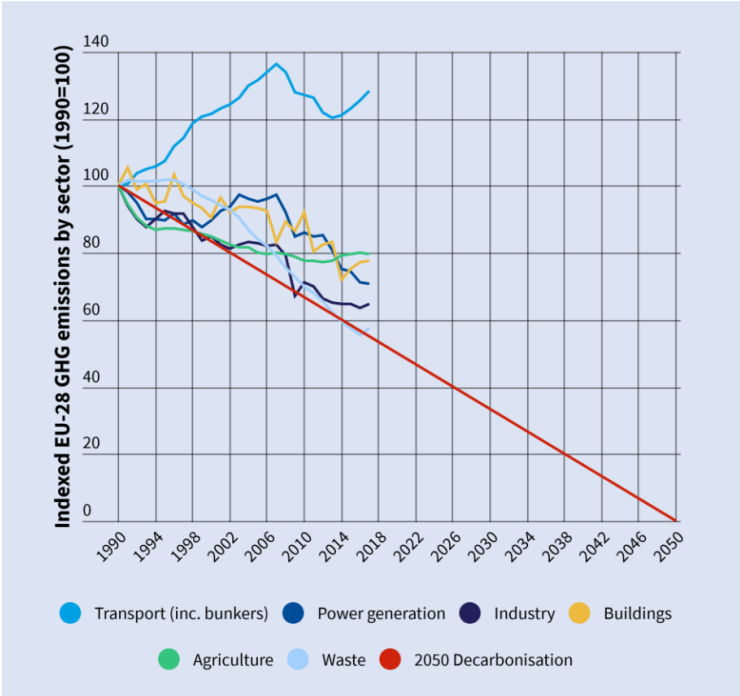
Road traffic is the main source of environmental NOISE in Europe.

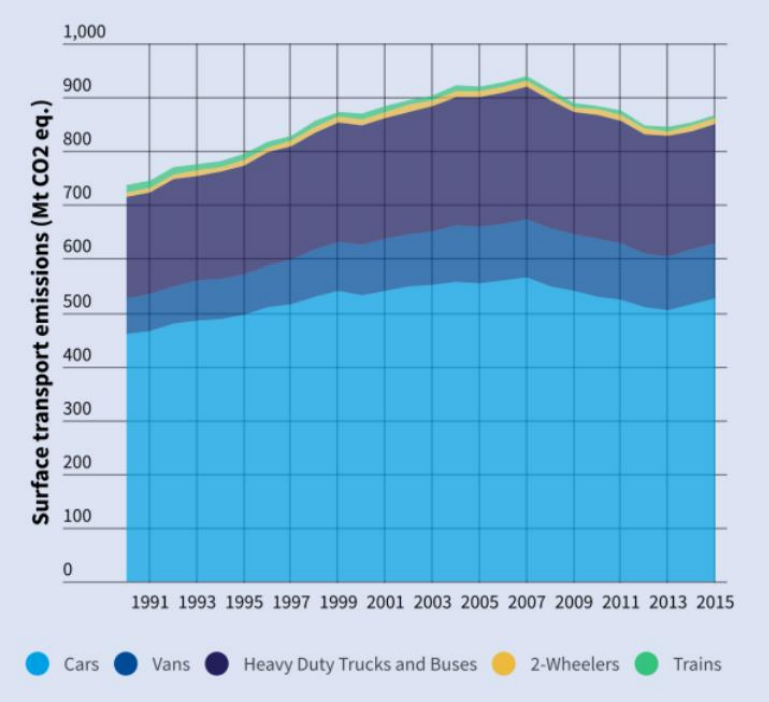
NOISE levels from roads that exceed 55dB L_{den} affect an estimated one in four people in Europe. This map shows the numbers of people exposed to road traffic NOISE levels above this threshold, designed to indicate 'annoyance', during the average DAY period.

You may also view the map for exposure to road traffic NOISE exceeding the NIGHT 'sleep disturbance' threshold. Around one in six people are exposed to night time levels of road traffic NOISE that exceed 50dB L_{night}.

Zoom in to view noise contour maps







Largest source of emissions

Rising emissions

Passenger cars dominate

Source: Transport & Environment

Table ES.1 **Percentage of the urban population in the EU-28 exposed to air pollutant concentrations above certain EU and WHO reference concentrations (minimum and maximum observed between 2015 and 2017)**

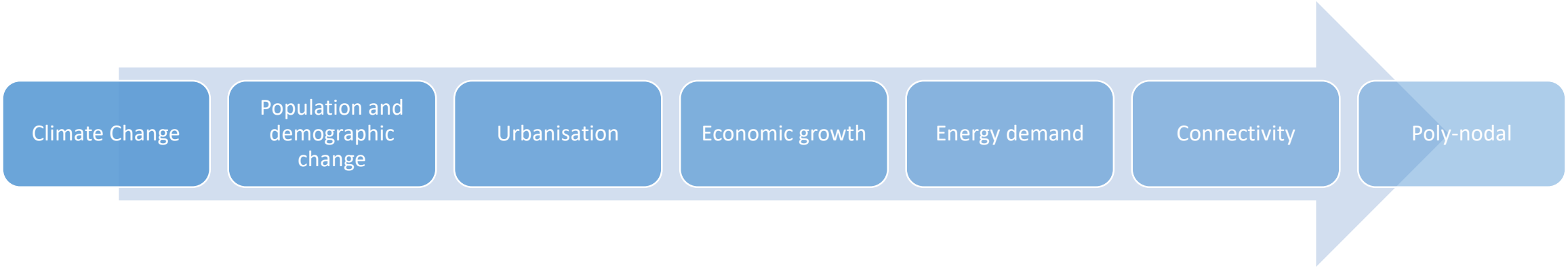
Pollutant	EU reference value (a)	Urban population exposure (%)	WHO AQG (a)	Exposure estimate (%)
PM_{10}	Day (50)	13-19	Year (20)	42-52
$PM_{2.5}$	Year (25)	6-8	Year (10)	74-81
O_3	8-hour (120)	12-29	8-hour (100)	95-98
NO_2	Year (40)	7-8	Year (40)	7-8
BaP	Year (1)	17-20	Year (0.12) RL	83-90
SO_2	Day (125)	< 1	Day (20)	21-31

Key: < 5 % | 5-50 % | 50-75 % | > 75 %

Notes: The reference concentrations include EU limit or target values, WHO AQGs and an estimated reference level (RL).

ESPAS European Strategy and Policy Analysis System

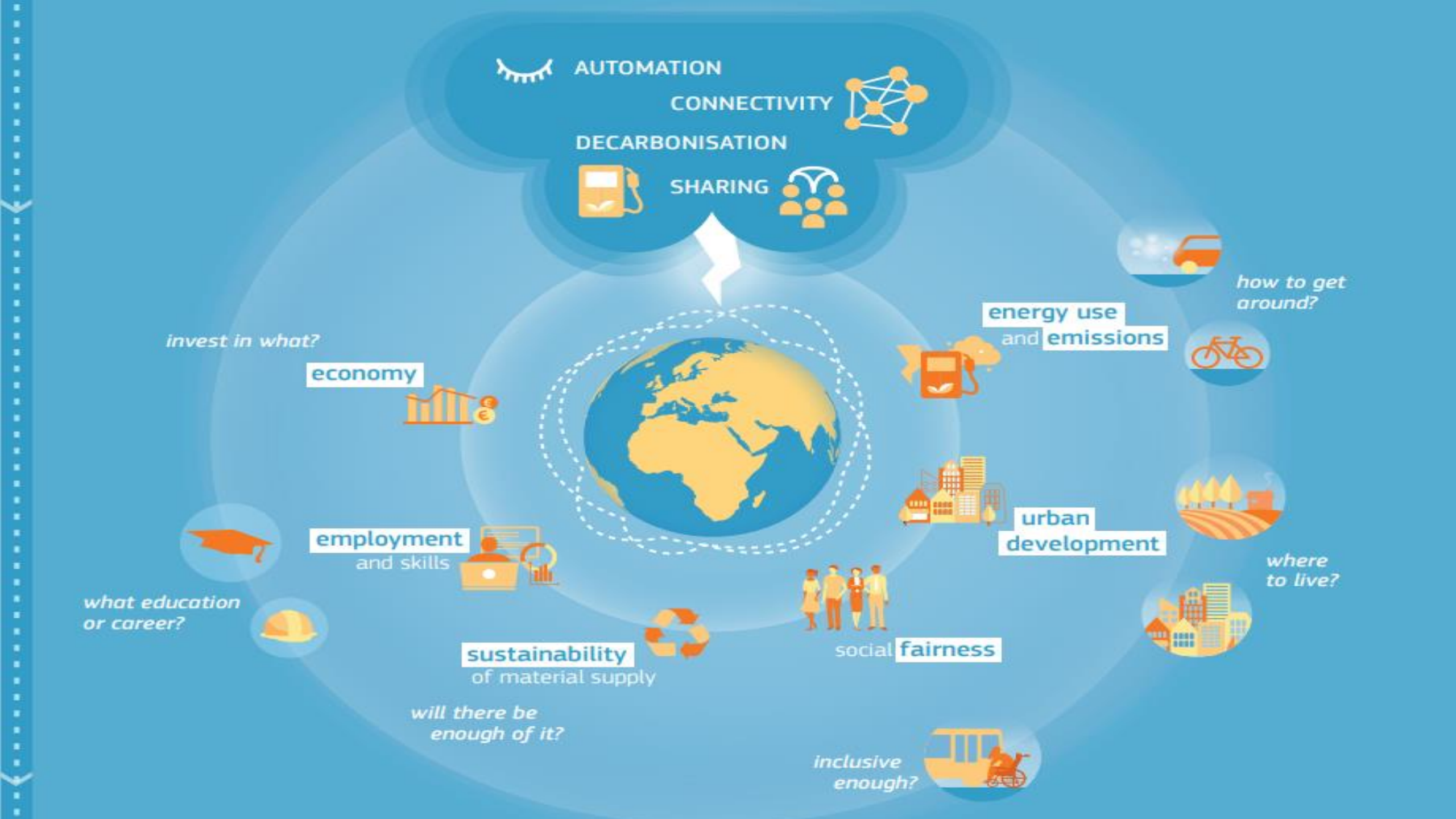
Global Trends to 2030: Challenges and choices for Europe



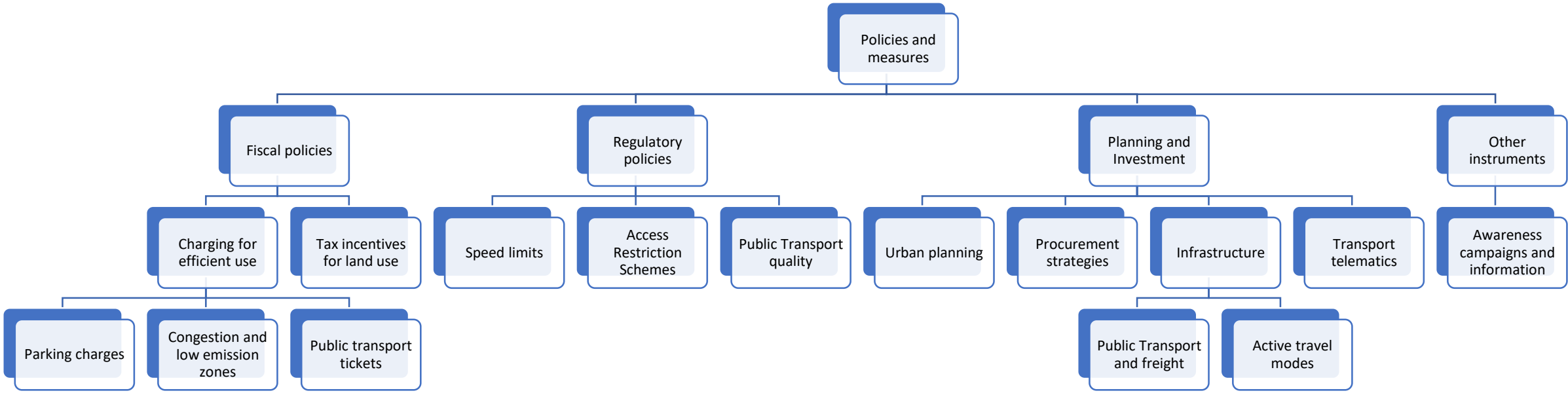
Far more will live in cities of under 1 million, followed by those between 1 and 5 million.

Humanity is entering adulthood.

By 2030, the number of devices connected to the internet will have reached 125 billion, up from 27 billion in 2017.

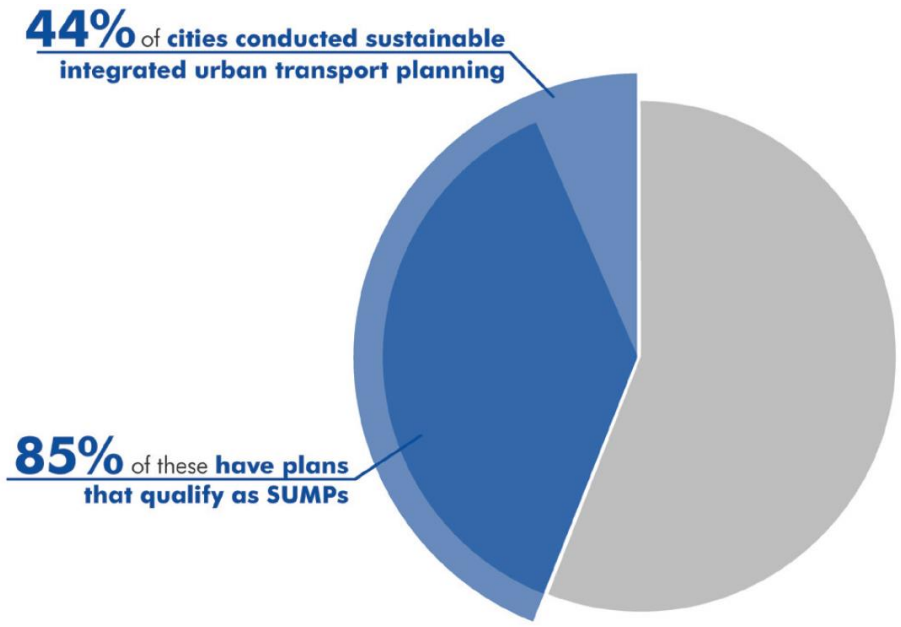

AUTOMATION
CONNECTIVITY
DECARBONISATION
SHARING
invest in what?
economy
energy use
and emissions
how to get
around?
employment
and skills
what education
or career?
urban
development
where
to live?
sustainability
of material supply
social fairness
will there be
enough of it?
inclusive
enough?

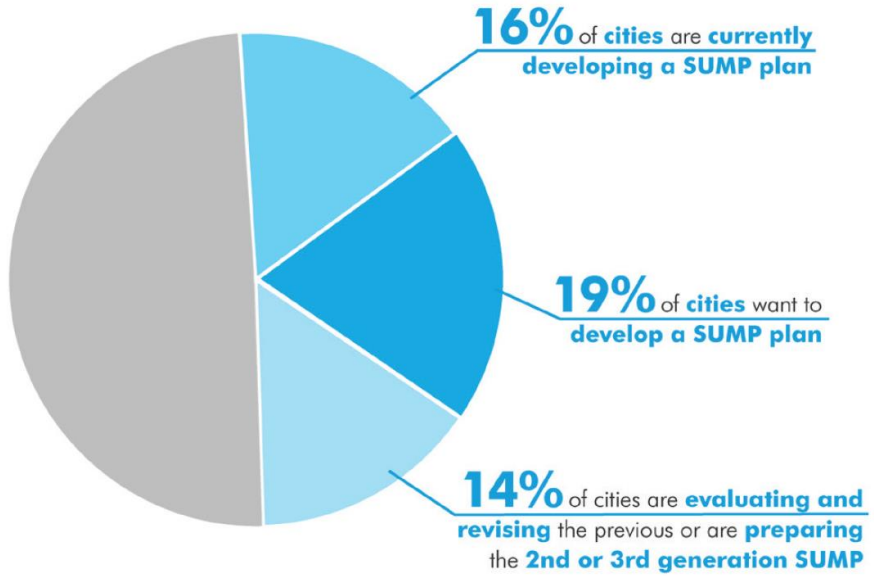
City authority mobility policy and measures



Sustainable Urban Mobility Plans

Integrated, **strategic**, **long-term** transport plan with **clear goals** and **monitoring,** for better **accessibility**, and **quality of life** for the functional **urban area**





See
Develop and harmonise your vision

Shape
Adjust your approach for fluid communication and flexible execution

Grow
Deepen and share knowledge

Engage
Get people on board

Give
Maximise impact through smart and targeted finance that is linked to outcomes

EUROCITIES

The Path to Sustainable Urban Mobility

Decarbonisation

- Road transport emissions
- Alternative fuels infrastructure
- Shipping and aviation

Demand

- Sustainable modal shift
- Urban vehicle access regulations
- Road safety and active mobility
- Freight and logistics

Digitalisation

- New mobility services
- Cooperative intelligent transport systems
- Automated vehicles

http://www.eurocities.eu/eurocities/news/The-path-to-sustainable-urban-mobility-WSPO-BHLJ72