

**Indirizzi e politiche europee e nazionali
per la mobilità sostenibile**
Stefan Guerra


LUCENSE
RICERCA E SERVIZI PER L'INNOVAZIONE



LOGICALTOWN



ASPIRE
AMANCED LOGISTICS
PLATFORM SETS
ROAD TRADING AND
ACCESS SERVICES TO
IMPROVE URBAN
ENVIRONMENT AND
QUALITY OF GOODS



With the contribution of the
LIFE financial instrument
of the European Commission

**Convegno su Mobility Management - Lucca, 27/4/2018 –
Palazzo Ducale (Sala Maria Luisa), ore 9:00**

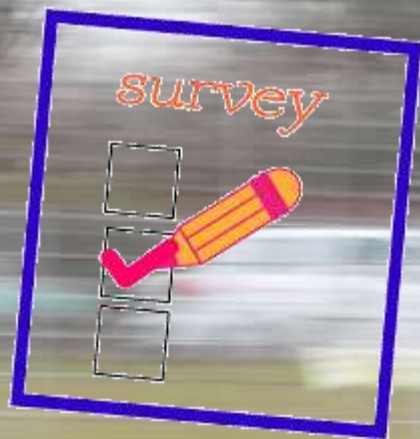


ToC

- Relevance of transport for EU Citizen
- Role of road transport
- Role of urban areas
- Sustainable transport: a challenge for cities
- Growth of e-commerce
- Transport: Energy and CO2 trends
- How overcoming the barriers
- From EU Mobility Package to Transition to a low emission economy
- COP21 & UNO

Lo scenario nel quale si inserisce questo seminario è quello del PUMS (=SUMP).

L'ambito territoriale è prevalentemente quello urbano.



Una recente indagine condotta dalla Commissione Europea ha consentito di ordinare per priorità i temi i cittadini ritengono importanti per uno sviluppo sostenibile delle città:

- Edifici (78% di tutte le risposte) con una preferenza per il 'retrofitting' degli edifici esistenti
- Trasporti pubblici e **mobilità urbana** (74%)
- Reti per l'energia (73%), con uguale punteggio tra elettriche e reti per tele riscaldamento/raffrescamento
- Tecnologie dell'informazione e della comunicazione (ICT) (68%).



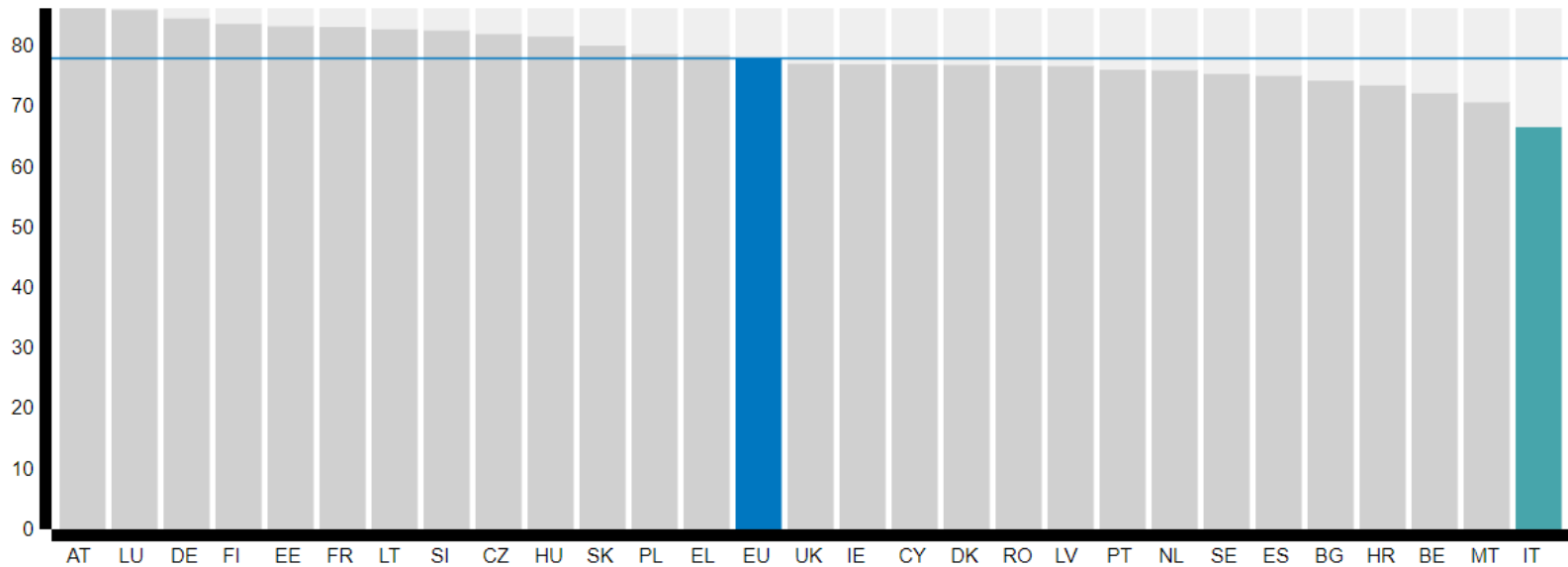
European Transport Scoreboard [\(\[https://ec.europa.eu/transport/facts-fundings/scoreboard/countries/italy/people_en\]\(https://ec.europa.eu/transport/facts-fundings/scoreboard/countries/italy/people_en\)\)](https://ec.europa.eu/transport/facts-fundings/scoreboard/countries/italy/people_en)

Consumer satisfaction with urban transport ?

Urban

Score 2015: **66.6**

EU rank: **28 / 28**



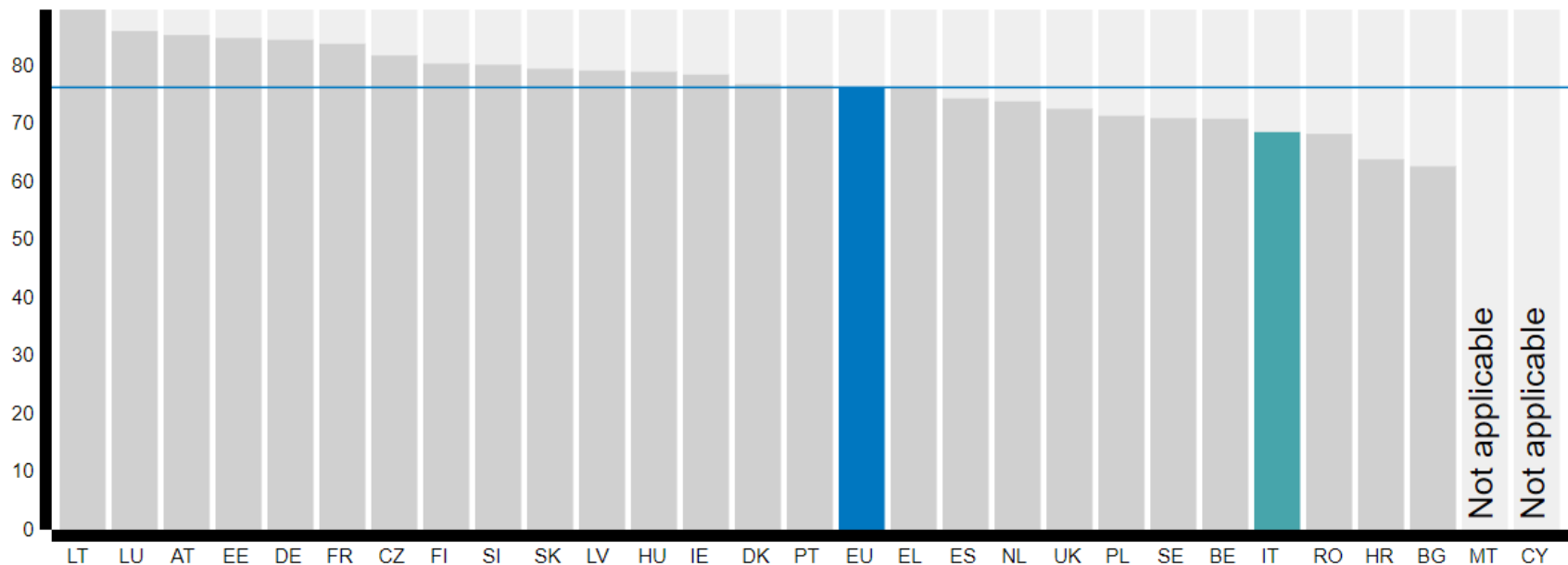
European Transport Scoreboard [\(\[https://ec.europa.eu/transport/facts-fundings/scoreboard/countries/italy/people_en\]\(https://ec.europa.eu/transport/facts-fundings/scoreboard/countries/italy/people_en\)\)](https://ec.europa.eu/transport/facts-fundings/scoreboard/countries/italy/people_en)

Consumer satisfaction with rail transport

Rail 

Score 2015: **68.5**

EU rank: **23 / 26**





Guidelines

Developing and Implementing
a Sustainable Urban Mobility Plan



The 2013 Urban Mobility Package sets out a concept for Sustainable Urban Mobility Plans (SUMPs) that has emerged from a broad exchange between stakeholders and planning experts across the European Union. The concept describes the main features of a modern and sustainable urban mobility and transport plan.



Balanced and integrated development of all transport modes

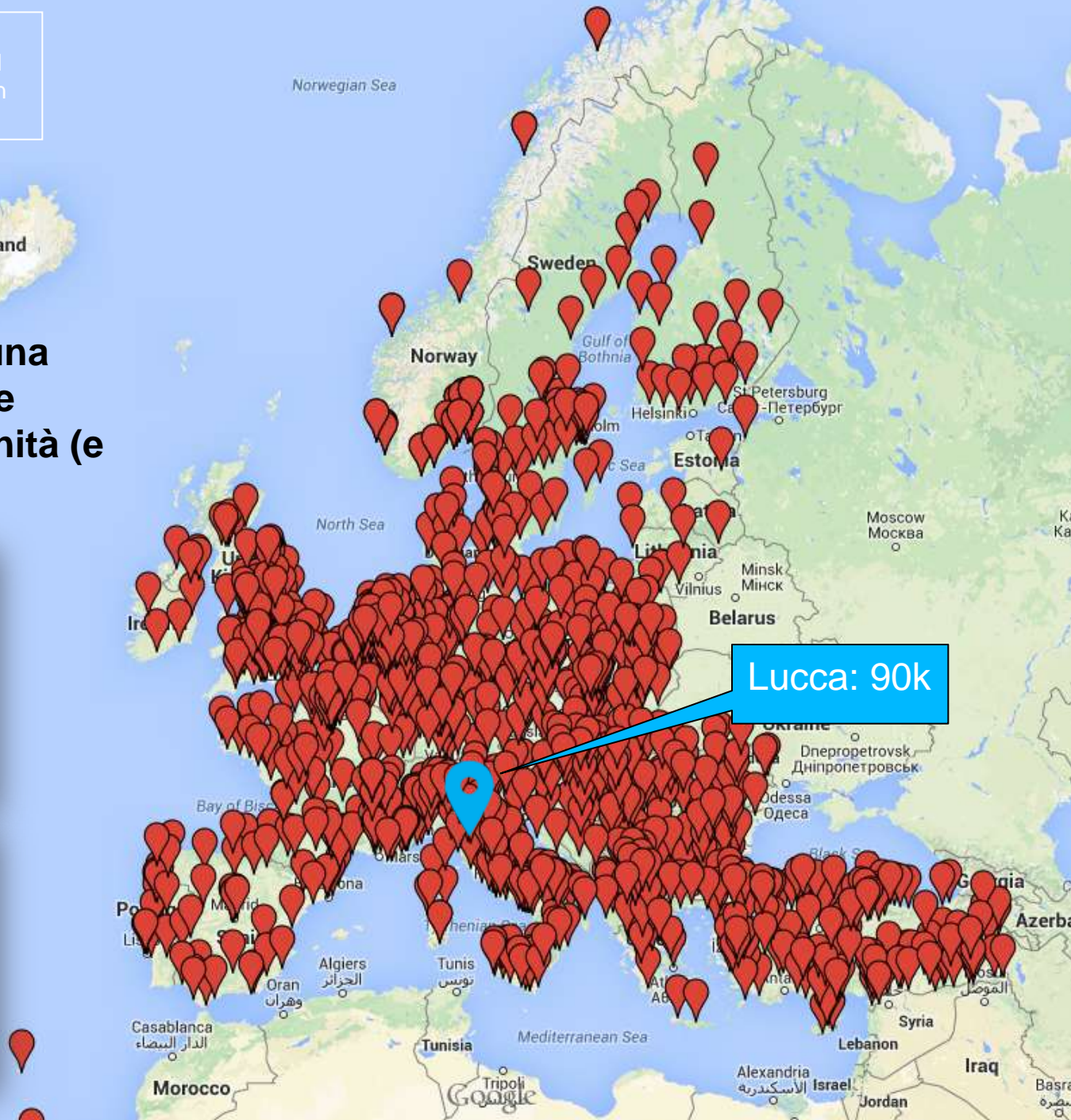
To foster a balanced development of all relevant transport modes, while encouraging a shift towards more sustainable modes. The plan would typically address the following topics:

- (a) Public transport
- (b) Walking and cycling
- (c) Inter-modality
- (d) Urban road safety
- (e) Road transport (flowing and stationary)
- (f) Urban logistics
- (g) Mobility management
- (h) Intelligent Transport Systems

E: Yüksekova, Turkey
W: Ponta Delgada (Azores), Portugal
S: La Laguna (Canary Islands), Spain
N: Rovaniemi, Finland



Circa 1400 città con una popolazione residente superiore a 40 mila unità (e inferiore a 200k)



Perché è ora il momento di agire?



Il trasporto e la distribuzione delle merci sono responsabili di circa un ¼ dell'emission di CO₂ e sono la principale fonte di inquinamento nelle aree urbane in Europa.

Impatti

- Inquinanti: CO, O₃, NO_x, SO_x, PM
- Emissioni di CO₂
- Inquinamento acustico
- Congestione
- Occupazione suolo pubblico
- Danni al patrimonio costruito
- Costi sociali (YOLL, DOH, LOP)
- Riduzione della qualità di vista per i cittadini, gli utenti, i visitatori, i turisti ed i lavoratori



Le città , le loro amministrazioni e autorità locali sono cruciali per la implementazione della strategia europea dei trasporti

Short to long term goals: extremely challenging for any city

https://ec.europa.eu/clima/policies/transport/index_en.htm

https://ec.europa.eu/clima/policies/strategies/2050/index_en.htm



How should cities face the challenge of sustainable urban transport when still ...

- unclear goal setting and legal framework
- lack of incentive measures
- lack of focus and strategy on urban mobility at most levels
- lack of co-ordination of urban logistics actors

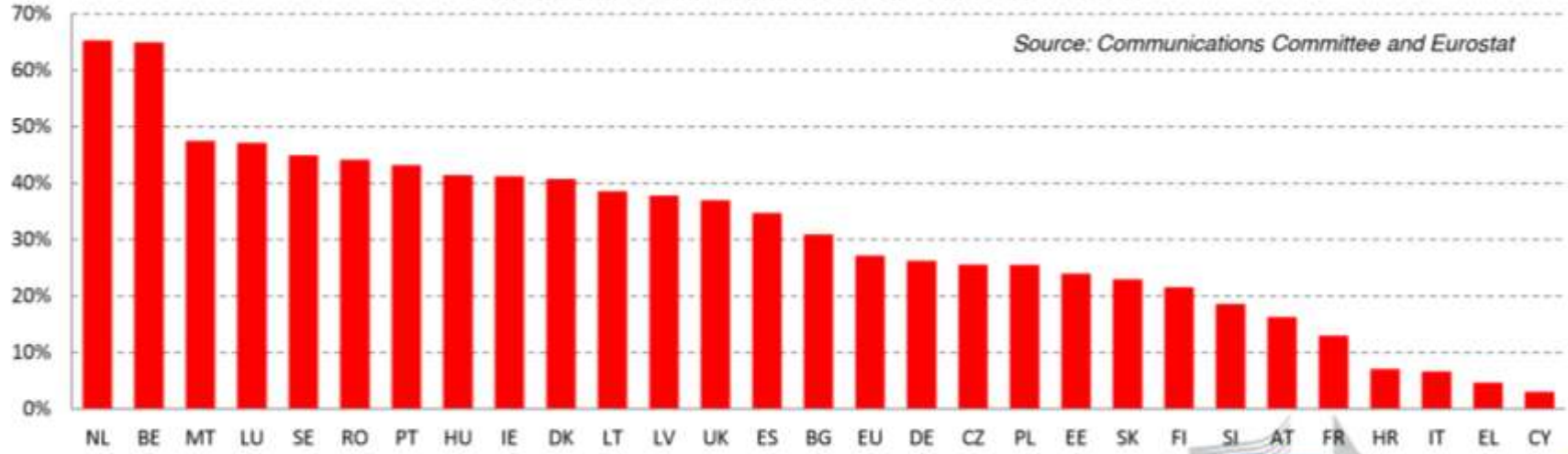
Except technological innovation, same business as usual? Can technology be the driving force to change?

CRESCITA DEL FATTURATO E-COMMERCE

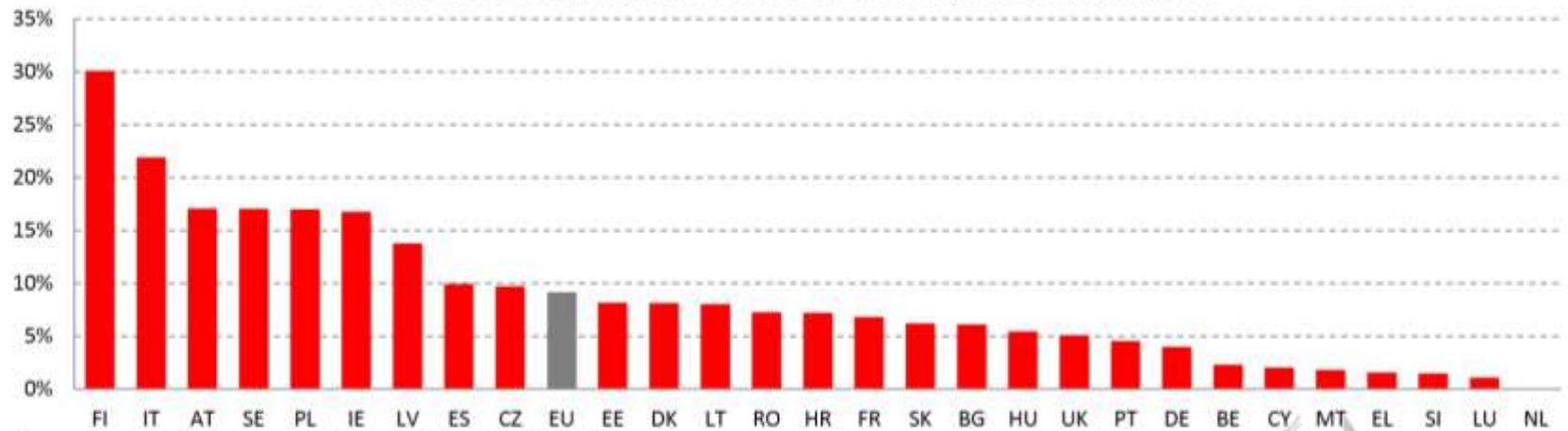


FONTE: CASALEGGIO ASSOCIATI, 2017

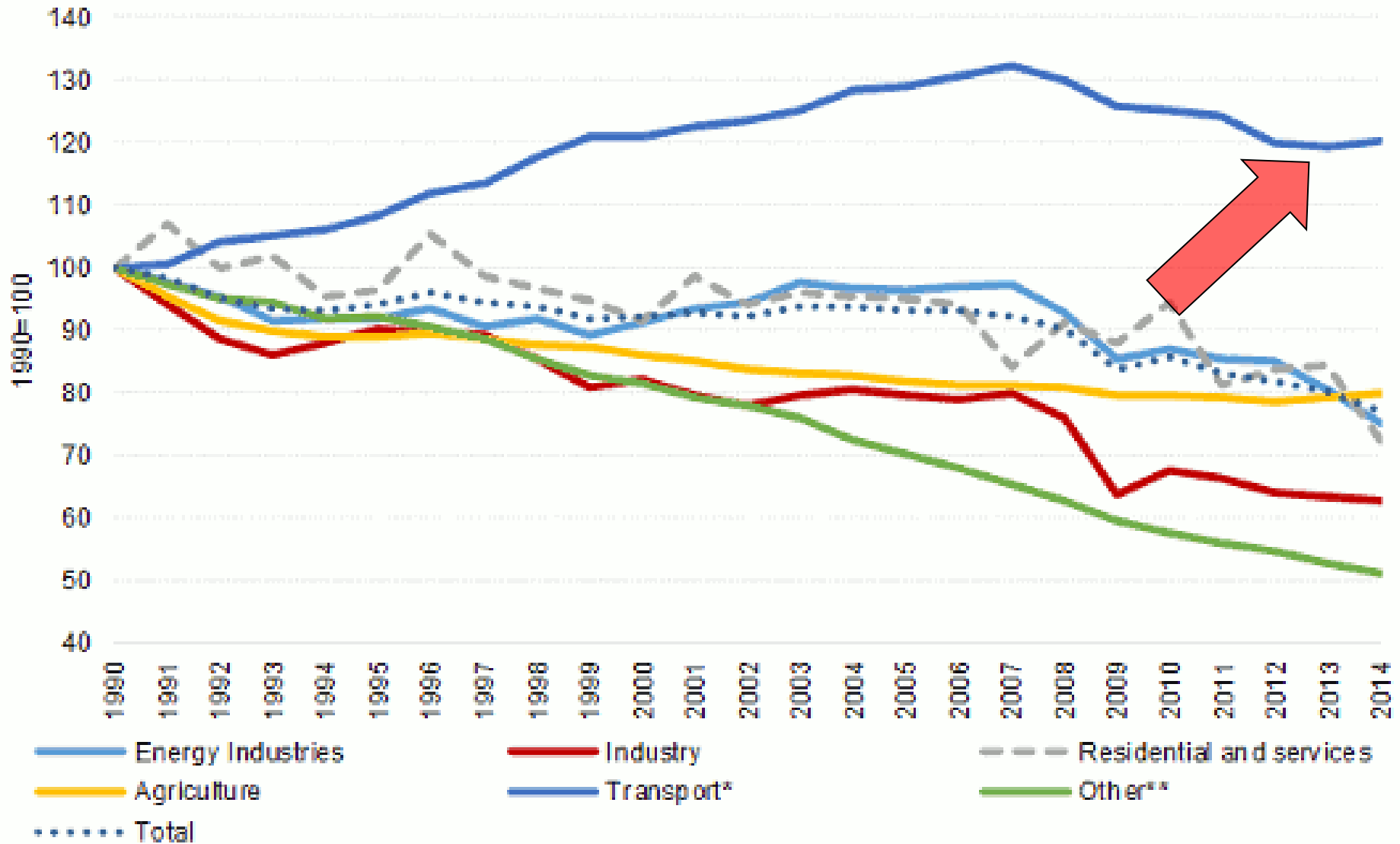
Fast broadband (at least 30Mbps) household penetration, 2016



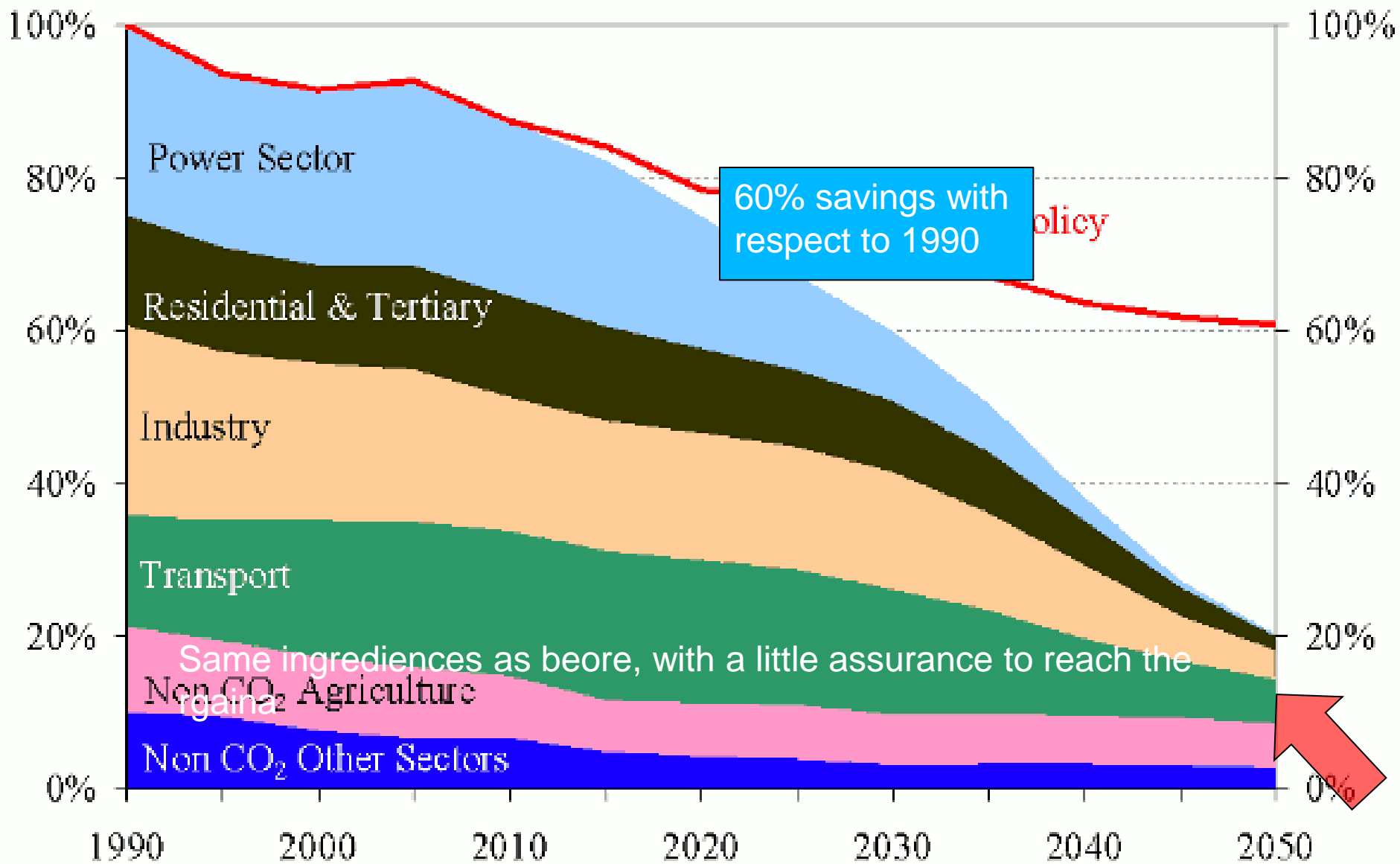
Households using only mobile broadband at home (% of households), 2016



Why is sustainable transport really challenging?



Why is transport really challenging?



EU Mobility Package 2013



White paper 2011- Roadmap to a Single European Transport Area - Towards a competitive and resource efficient transport system

EC adoption of the **Communication on the Future of Transport** "A sustainable future for transport: Towards an integrated, technology-led and user friendly system" on 17 June 2009 [COM(2009) 279]

The **Greening transport package** (2008)

Communication from the Commission - The **EU's freight transport agenda**: Boosting the efficiency, integration and sustainability of freight transport in Europe [COM(2007)606]

Communication from the Commission to the Council and the European Parliament - **Keep Europe moving - Sustainable mobility for our continent** - Mid-term review of the European Commission's 2001 Transport White paper [COM(2006)314]

European Commission

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Clean transport, Urban transport

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Security & Safety

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What is the EU doing to improve security and safety of transport in the EU?

Safety and security are of primary concern for any transport system. Travellers expect transportation to be safe. One of the roles of the European Commission is to respond to these expectations by ensuring that there are satisfactory standards in the whole EU for safety and security in all modes of transport.

Transport safety in the EU

Creating an environment for safe transport is essential for European citizens. The Commission strives to provide the highest standards of safety worldwide.

Our safety agencies deal with the different transport modes – [EASA](#), [ERA](#) and [EMSA](#), which are responsible for the aviation, rail and maritime sectors respectively – and all contribute to advances in safety.

Air

Aviation is one of the safest and fastest growing forms of transport. The EU air safety policy, which sets a high level of safety for passengers, promoting rules that are cost efficient and facilitate the free movement of products, services and persons involved in civil aviation.

Given the unprecedented growth in air traffic and large number of carriers resulting from the successful implementation of the single aviation market, the EU has prioritised work on effective aviation safety standards. These are the basis for a [list of airlines banned from EU skies](#), which is constantly updated.



THE 3 PILLARS FOR SAFER ROADS

VEHICLES	PEOPLE	INFRASTRUCTURE
FACTS <ul style="list-style-type: none">More than 80% of road accidents are due to human error10-20% of accidents are caused by distraction	FACTS <ul style="list-style-type: none">About 20% of all road fatalities in Europe are alcohol relatedSpeed is a major factor for around 30% of fatal accidents	FACTS <ul style="list-style-type: none">The majority of fatal accidents occur in urban areas, with only 6% on motorwaysPedestrians make up 11% of fatalities in non-urban areas
ACTIONS <ul style="list-style-type: none">Cooperative, connected and automated vehicles on the road starting in 2025Safer cars and faster routes thanks to new technology	ACTIONS <ul style="list-style-type: none">Tracking down on traffic offencesDriver behaviour based accessImproved training for truck and bus driversWorking with over 3500 regional partners to increase road safety awareness through the European Road Safety Charter	ACTIONS <ul style="list-style-type: none">Updating rules on infrastructure and barrier safetyEquipping over 1200 km of road tunnels by 2025

Time matters! Objectives for greening city logistics will be updated soon ...



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

Nations Unies

Conférence sur les Changements Climatiques 2015

COP21/CMP11

Paris France



European Union towards COP21 and beyond...



A European Strategy for Low-Emission Mobility

{SWD(2016) 244 final}

- **Increasing the efficiency of the transport system** by making the most of digital technologies, smart pricing and further encouraging the shift to lower emission transport modes
- **Speeding up the deployment of low-emission alternative energy for transport**, such as advanced biofuels, renewable electricity and renewable synthetic fuels and removing obstacles to the electrification of transport
- **Moving towards zero-emission vehicles.** While further improvements to the internal combustion engine will be needed, Europe needs to accelerate the transition towards low- and zero-emission vehicles.
- Greenhouse gas emissions from transport will need to be at least **60% lower than in 1990** and be firmly on the path towards zero. Emissions of air pollutants from transport that harm our health need to be drastically reduced without delay.



SUSTAINABLE DEVELOPMENT GOALS

1 NO POVERTY 	2 ZERO HUNGER 	3 GOOD HEALTH AND WELL-BEING 	4 QUALITY EDUCATION 	5 GENDER EQUALITY 	6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY 	8 DECENT WORK AND ECONOMIC GROWTH 	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 	10 REDUCED INEQUALITIES 	11 SUSTAINABLE CITIES AND COMMUNITIES 	12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION 	14 LIFE BELOW WATER 	15 LIFE ON LAND 	16 PEACE, JUSTICE AND STRONG INSTITUTIONS 	17 PARTNERSHIPS FOR THE GOALS 	 SUSTAINABLE DEVELOPMENT GOALS

2030 Agenda for Sustainable Development


11 SUSTAINABLE CITIES AND COMMUNITIES



Sustainable transport is essential to achieving most, if not all, of the proposed SDGs and the 2030 Agenda for Sustainable Development.

Transport is mainstreamed across several SDGs and targets, especially those related to cities and human settlements.

A successful sustainable transport agenda requires **partnerships between governments, the private sector and civil society** built upon principles and values, shared visions, and shared goals that place people and the planet at the centre.

A stylized, high-contrast illustration of a city street scene. In the foreground, a large white truck is parked on the right side of the road. Behind it, a blue truck is visible. To the left, a yellow car and a motorcycle are parked. The background shows a cityscape with buildings and trees under a clear sky. The overall style is graphic and modern.

Low-emission mobility is an essential component of the broader shift to the low-carbon, circular economy needed for Europe to stay competitive and be able to cater to the mobility needs of people and goods.

Transport is more than just a question of mobility: it is a factor of competitiveness of European industry.

Grazie per l'attenzione!

Stefan Guerra, head of R&D Dept.

@ www.lucense.it

stefan.guerra@lucense.it

Innovation advisor of

www.luccaport.it & www.logicaltown.eu

info@logicaltown.eu

research@luccaport.it



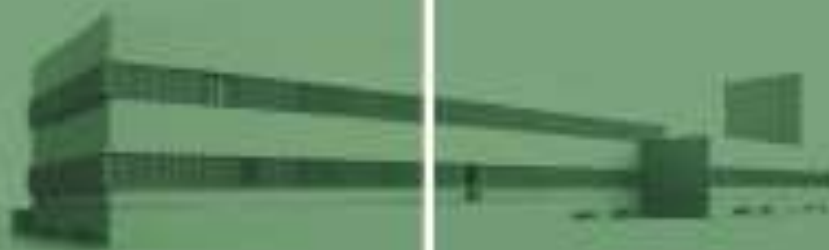
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COLTIVIAMO INNOVAZIONE