

# COOL URBAN SPACES



“STUPID CITIES” AND THE CASE OF MOBILITY

Andrea Iannone



Milan, 26<sup>th</sup> February, 2019

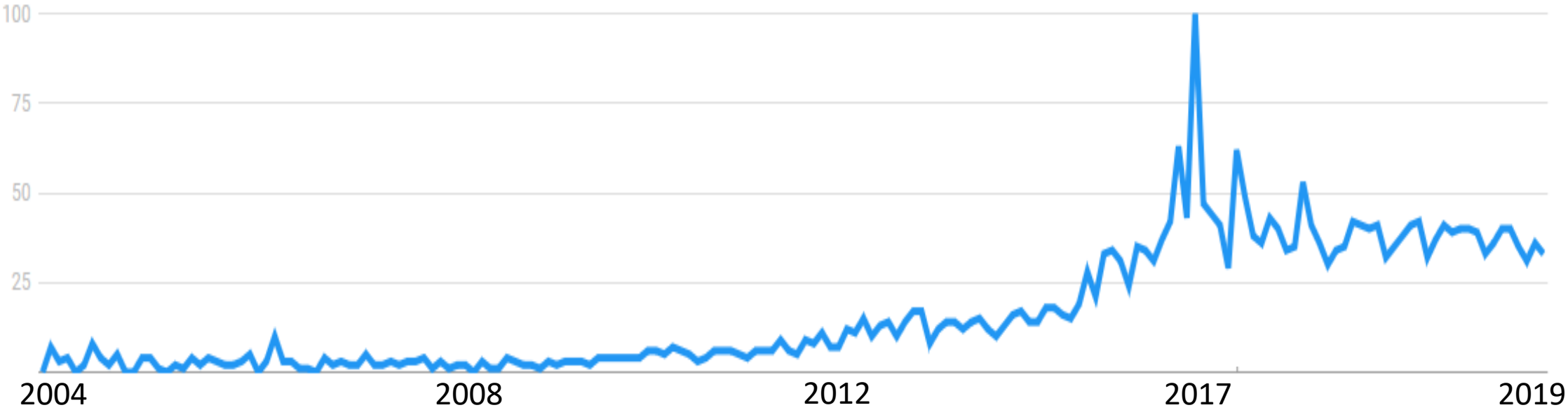
# MAIN MESSAGES

- HOW WE GOT TO WHERE WE ARE

- PROBLEMS

- WHAT LIES AHEAD

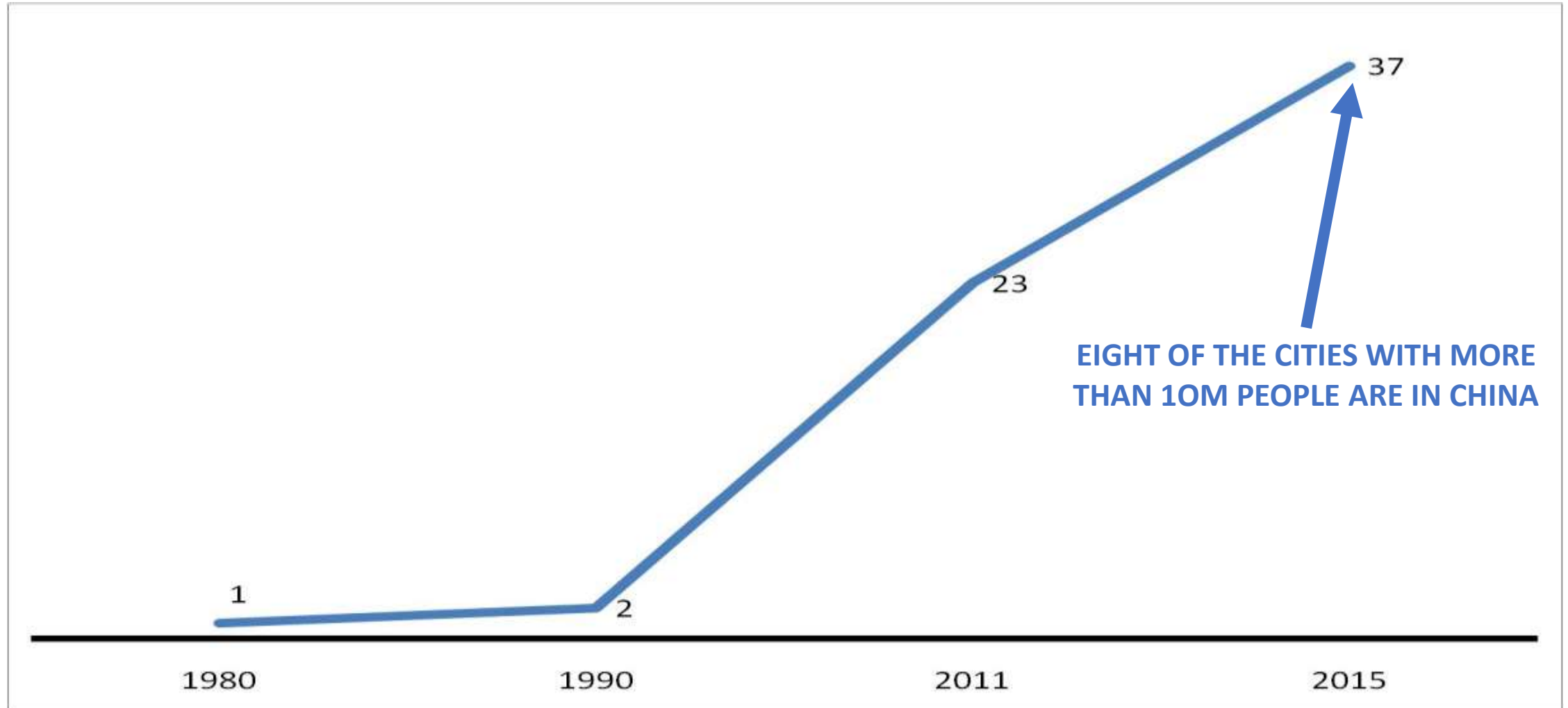
# BOOM OF SEARCHES FOR “SMART CITIES” IN 2017



Source: Google Trends

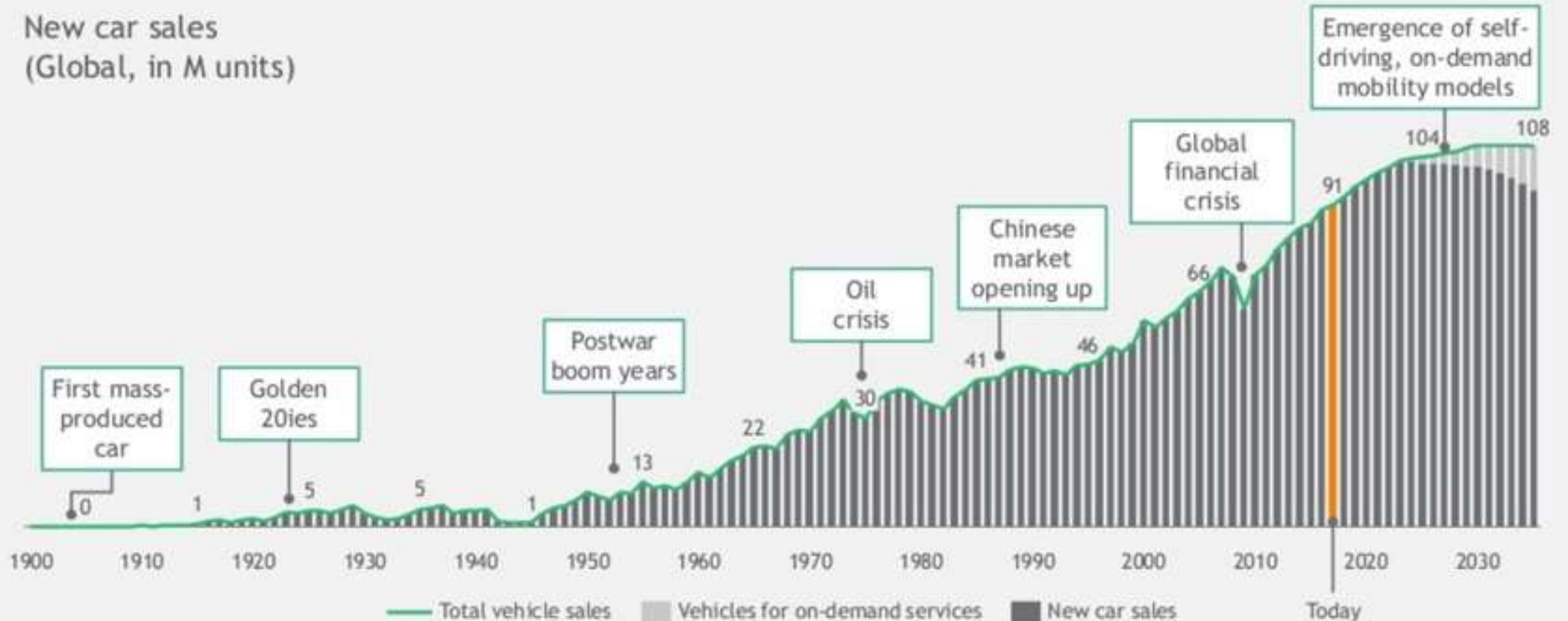
# THE RISE OF CITIES...

Number of cities (metropolitan areas) with more than 10,000,000 inhabitants, World



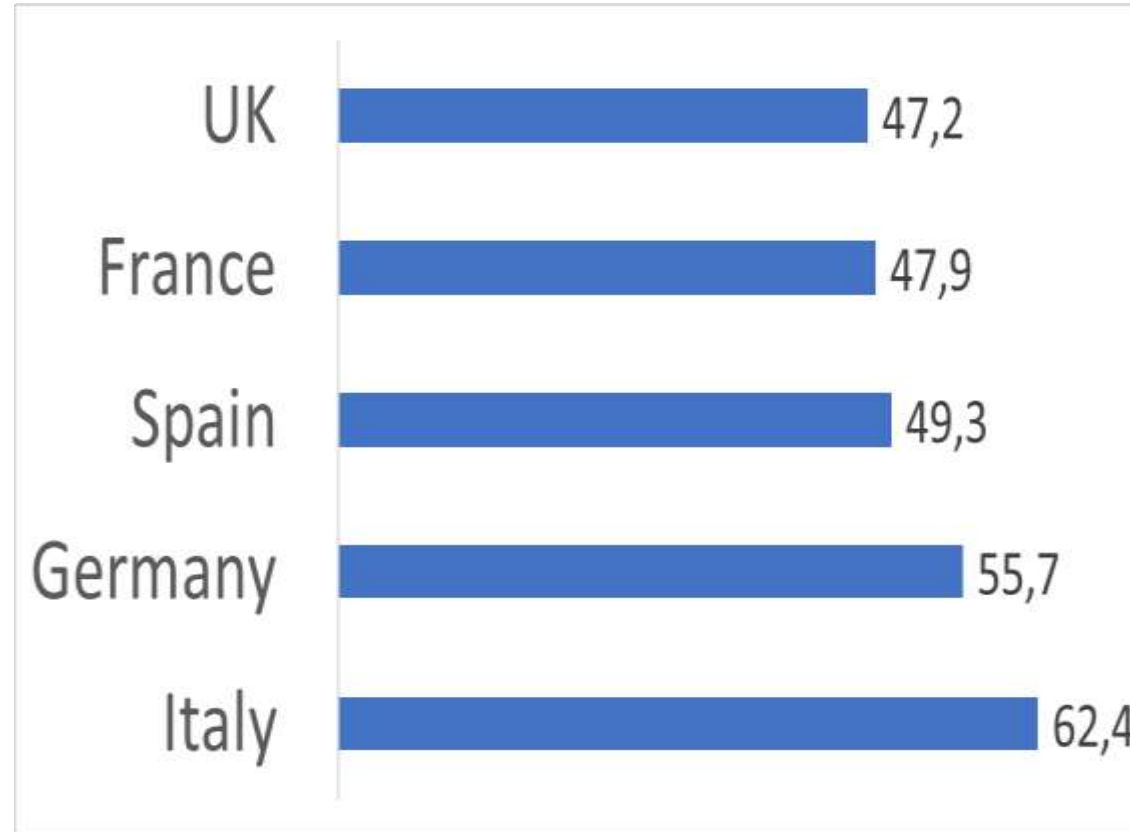
# ... AND OF AUTOMOBILES

New car sales  
(Global, in M units)



Source: Boston Consulting Group, 2017

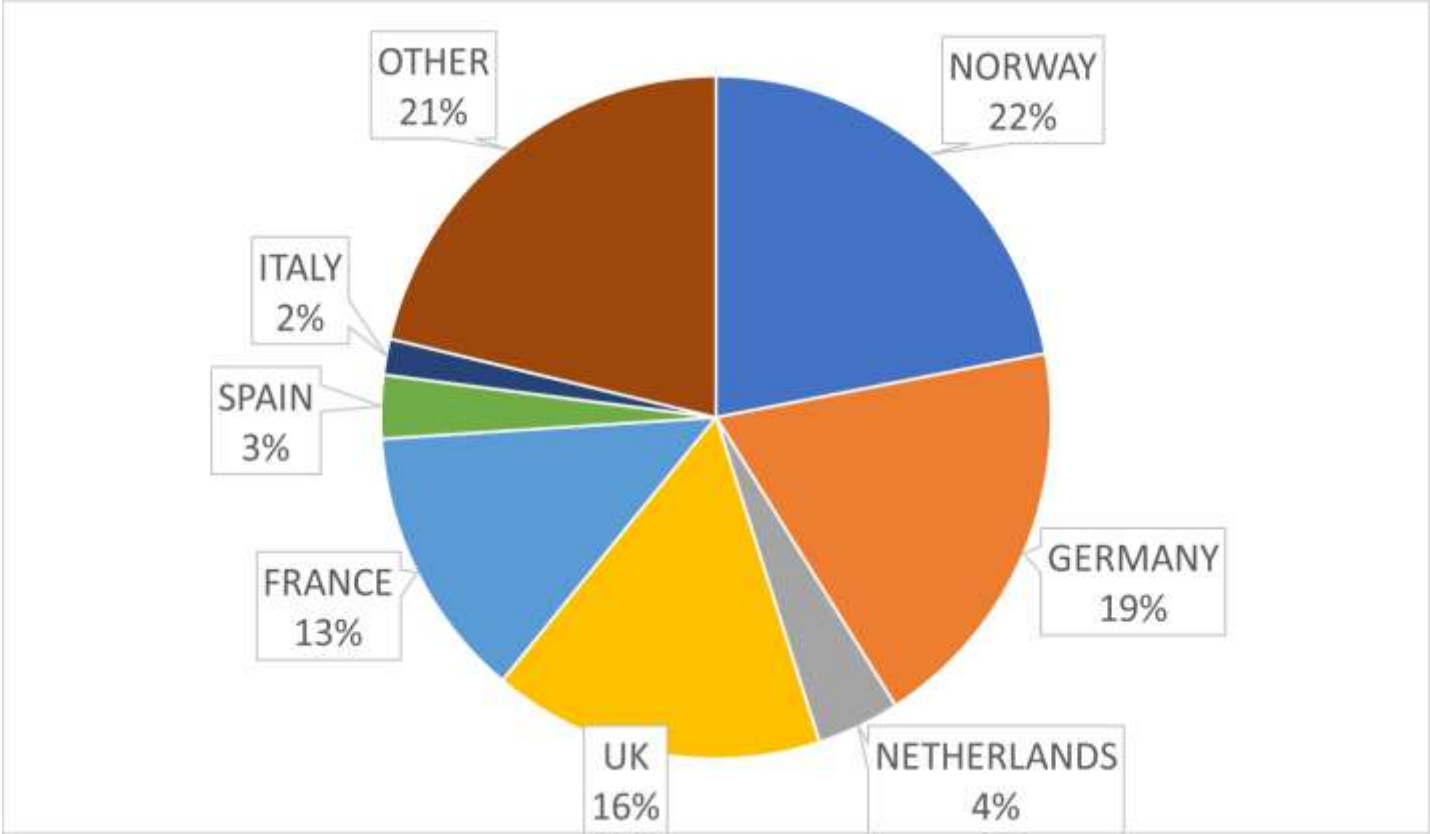
# NUMBER OF CARS EVERY 100 CITIZENS, 2017



Source: Osservatorio Autopromotec

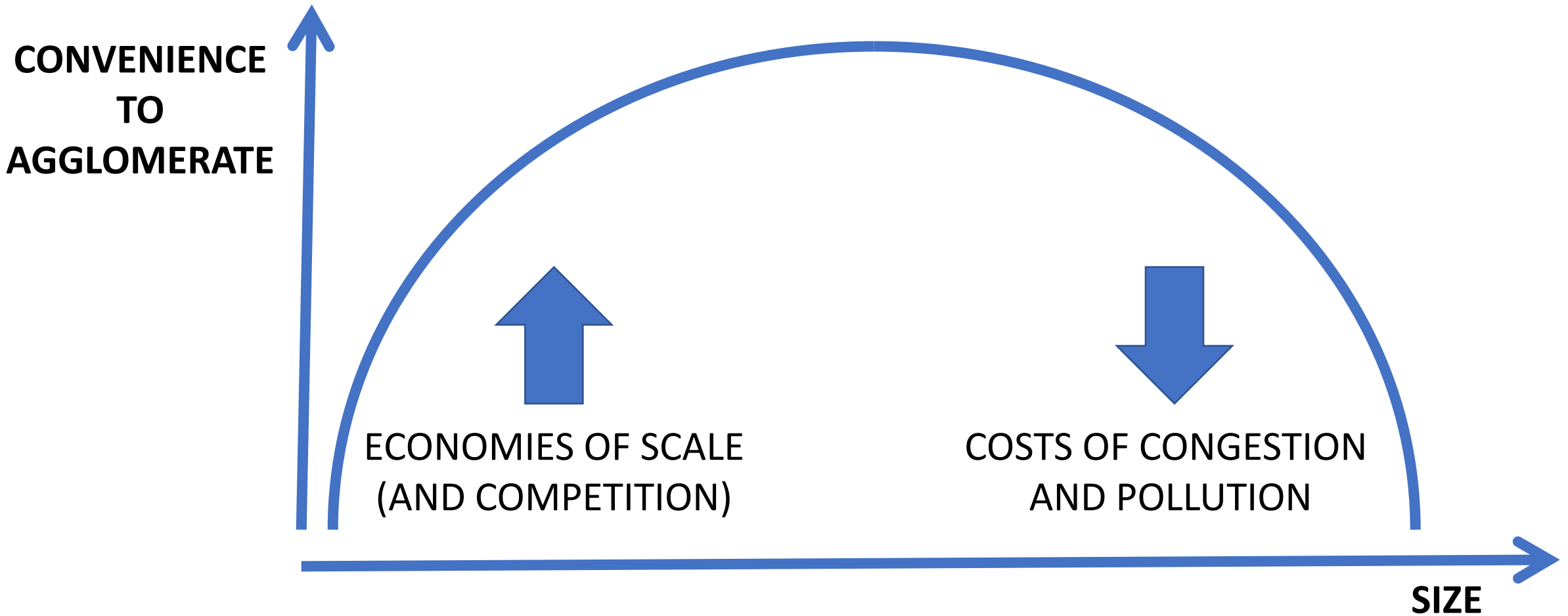


# SHARE OF ELECTRIC VEHICLES, EUROPE, 2018



Source: E-Mobility Report, Politecnico di Milano

# WHEN ARE CITIES GOOD?



AS FOR THE NEW ECONOMIC GEOGRAPHY  
(Krugman and Venables, Globalization and the inequality of Nations, 1995)



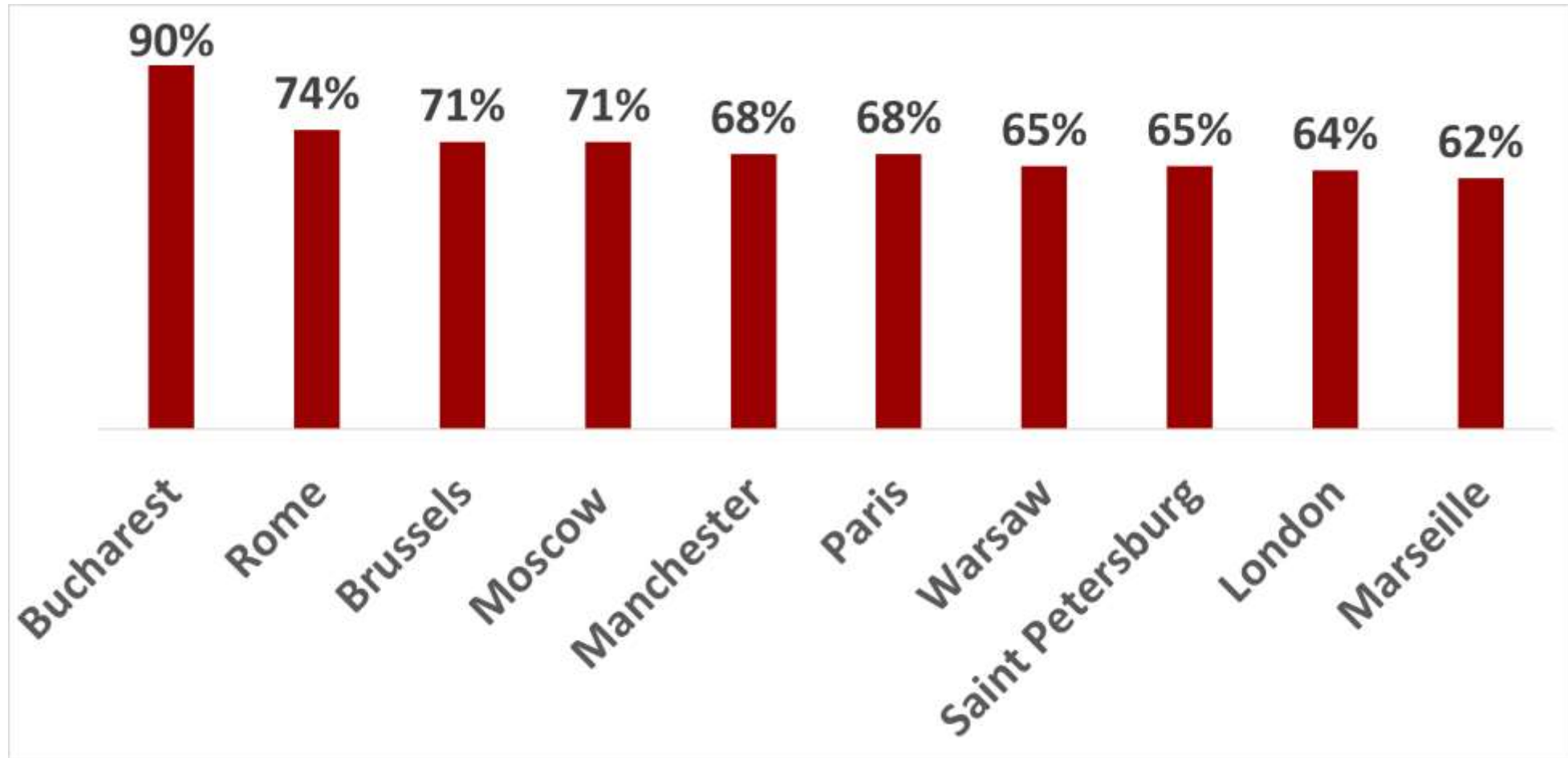
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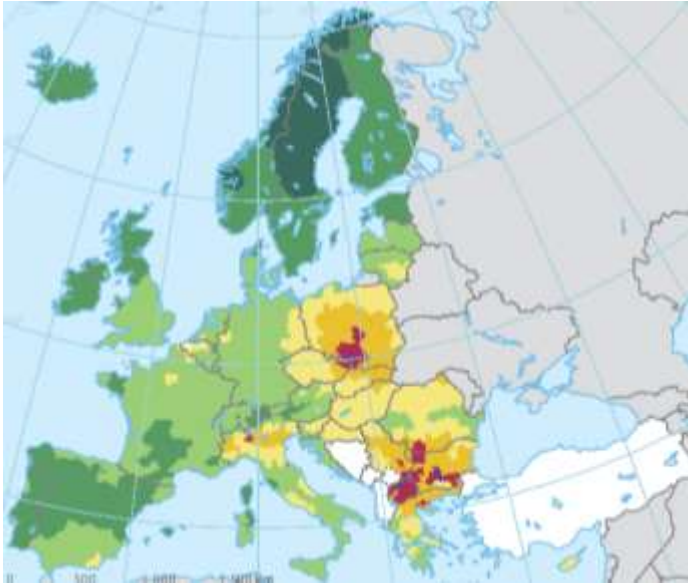
# MORNING CONGESTION LEVEL, TOP TEN EUROPEAN CITIES, 2018



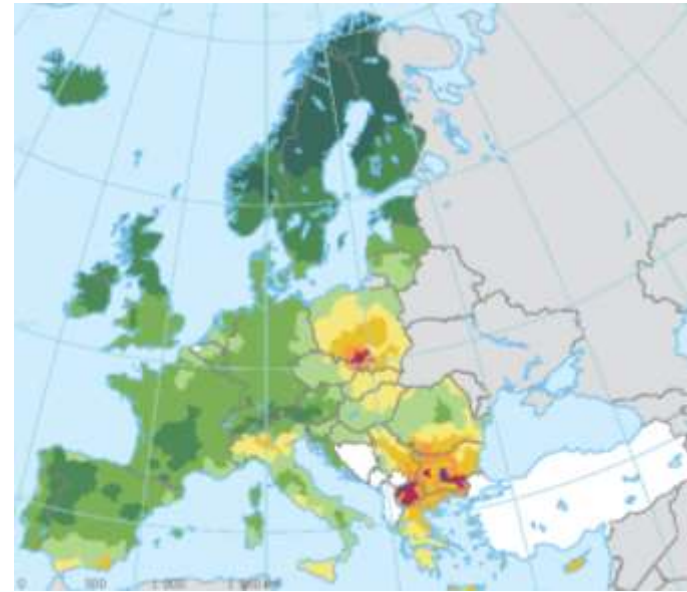
Source: Vision on TomTom [data](#)

# DISTRIBUTION OF AIR POLLUTANTS, 2013 - 2014

PM<sub>2.5</sub>



PM<sub>10</sub>

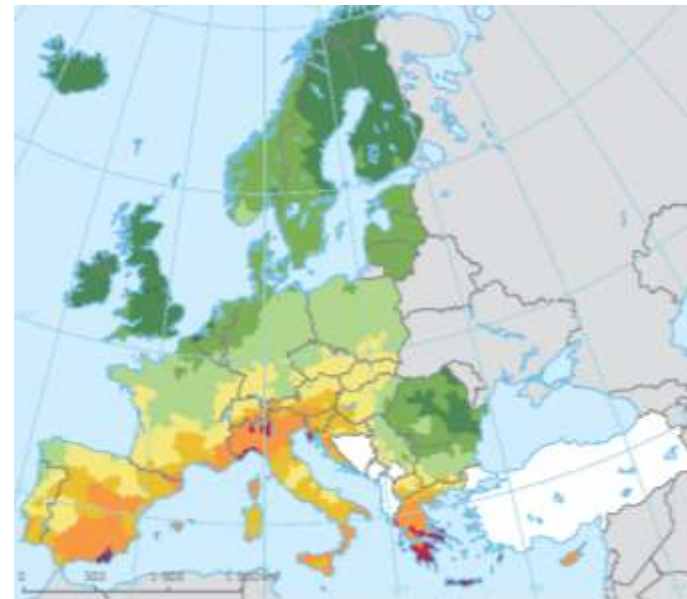


Source  
European  
Environment  
Agency

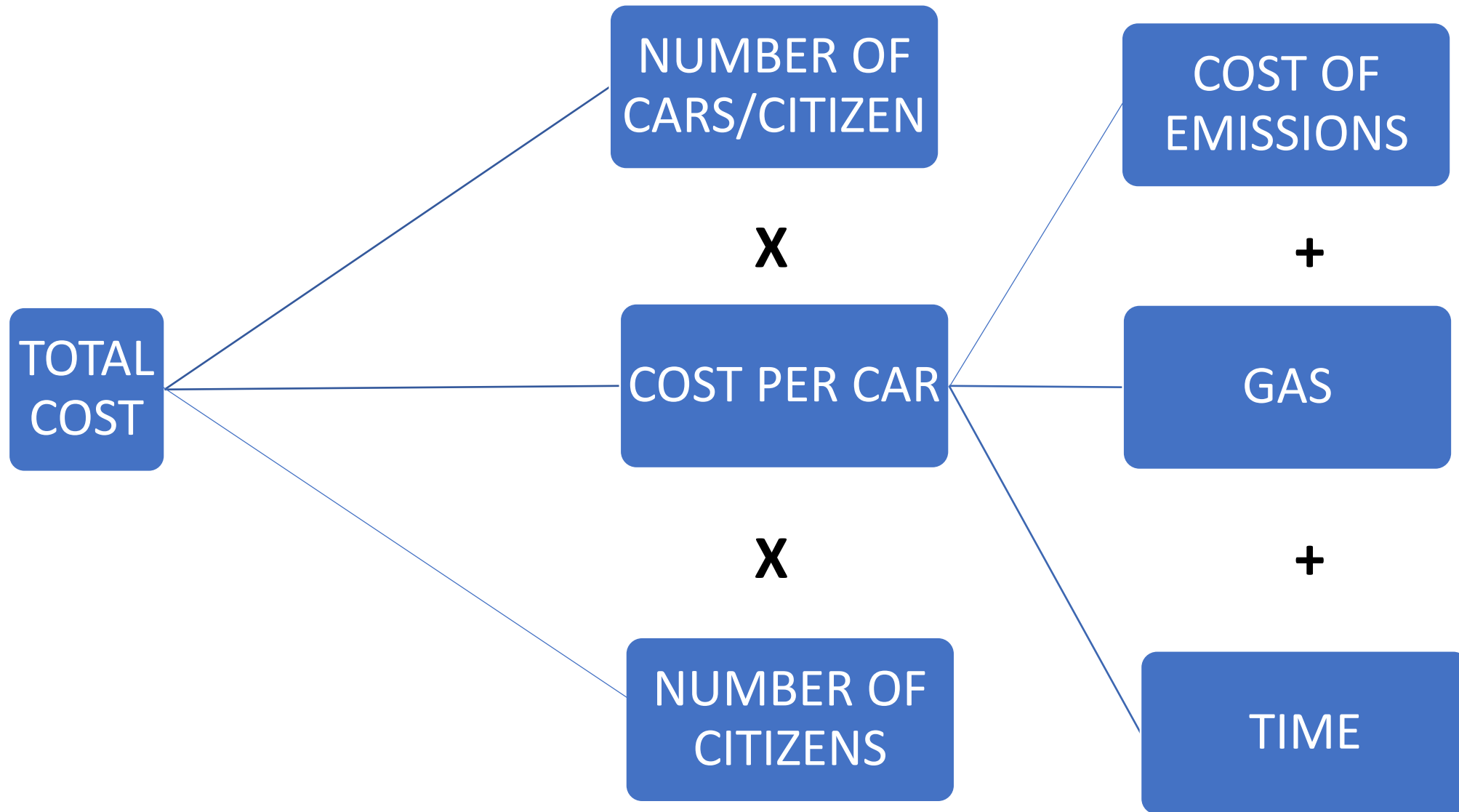
NO<sub>2</sub>



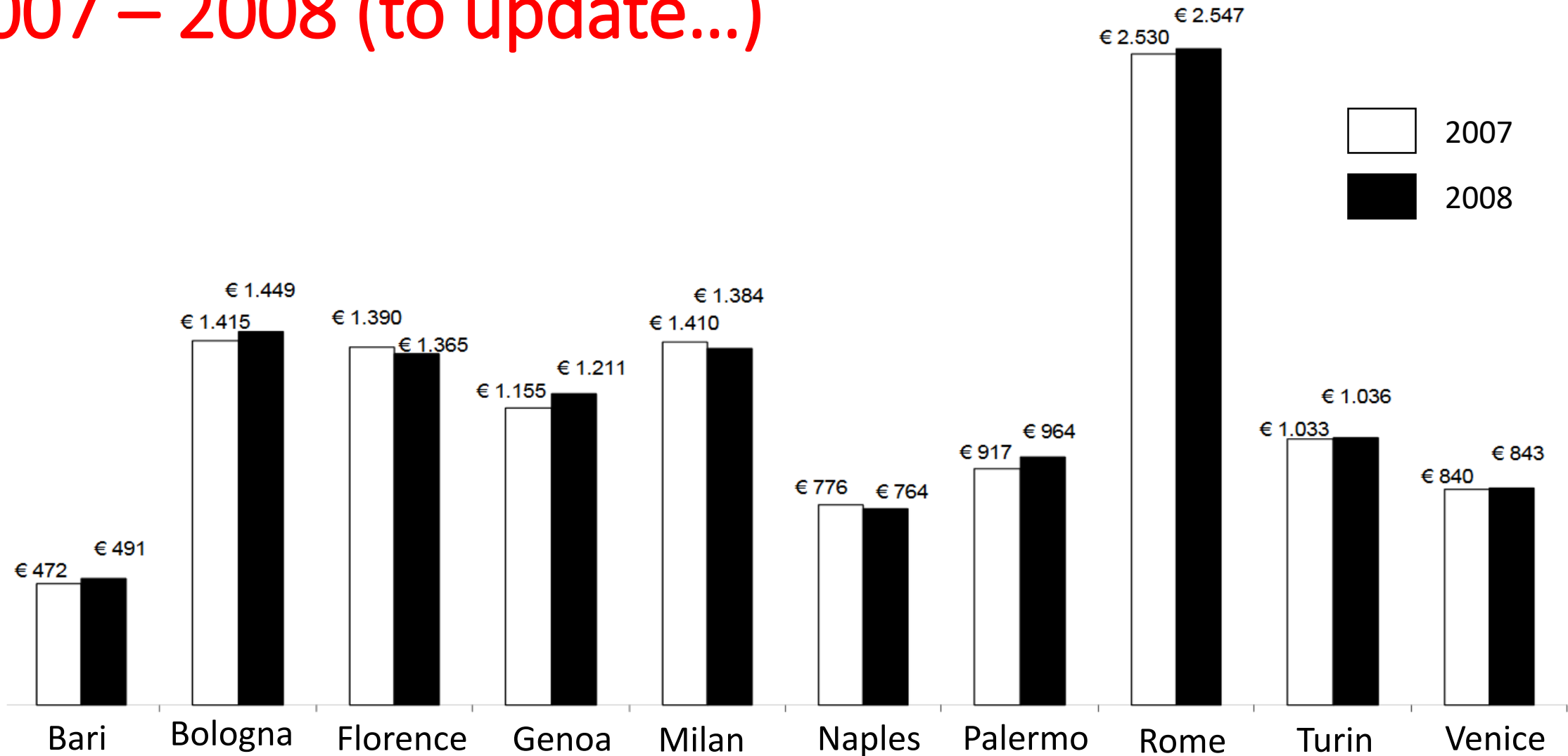
Ozone Indicator  
SOMO35



# COST CALCULATIONS



# ESTIMATED YEARLY COST PER CITIZEN, ITALY, 2007 – 2008 (to update...)



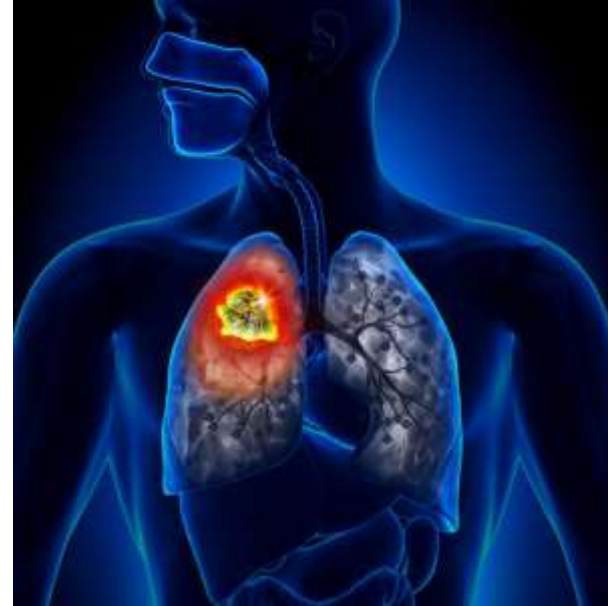
Source: Vision & Value, *Trafficless Cities: the Measurement and the «Solution»*, 2009

[www.visionandvalue.eu/wp-content/uploads/2015/04/Traffic\\_less\\_cities.pdf](http://www.visionandvalue.eu/wp-content/uploads/2015/04/Traffic_less_cities.pdf)

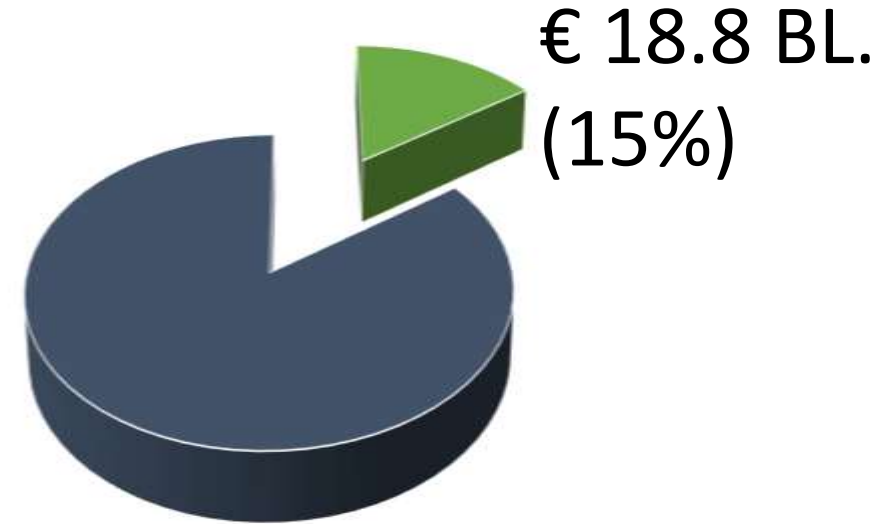
# THE EFFECTS ON HEALTH AND WELL-BEING



**91% of world lives where air quality levels exceed W.H.O. limits**



**Worldwide air pollution accounts for 29% of deaths and disease from lung cancer (100% in 2018: 2.09 million)**



**Lung cancer had the highest economic costs of overall cancer costs in the EU in 2009**

Sources: World Health Organization, Health Economics Research Centre, Nuffield Department of Population Health, University of Oxford, Oxford, UK, King's Health Partners Cancer Centre and Institute for Cancer Policy, King's College London, London, UK



# PARKING – EVERYONE’S WORST NIGHTMARE



**30% OF CITY TRAFFIC**

Sources: Donald Shoup (University of California, Los Angeles) and IBM, European Parking Agency and European Automobile Manufacturers' Association



**2,5M YEARLY  
TONS OF CO<sup>2</sup>**



**FOR EVERY PARKING SPOT  
IN EUROPE, THERE ARE  
ABOUT 6 CARS**



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# MARKET SOLUTIONS

## Market-Priced Curbed Parking / Congestion Charges

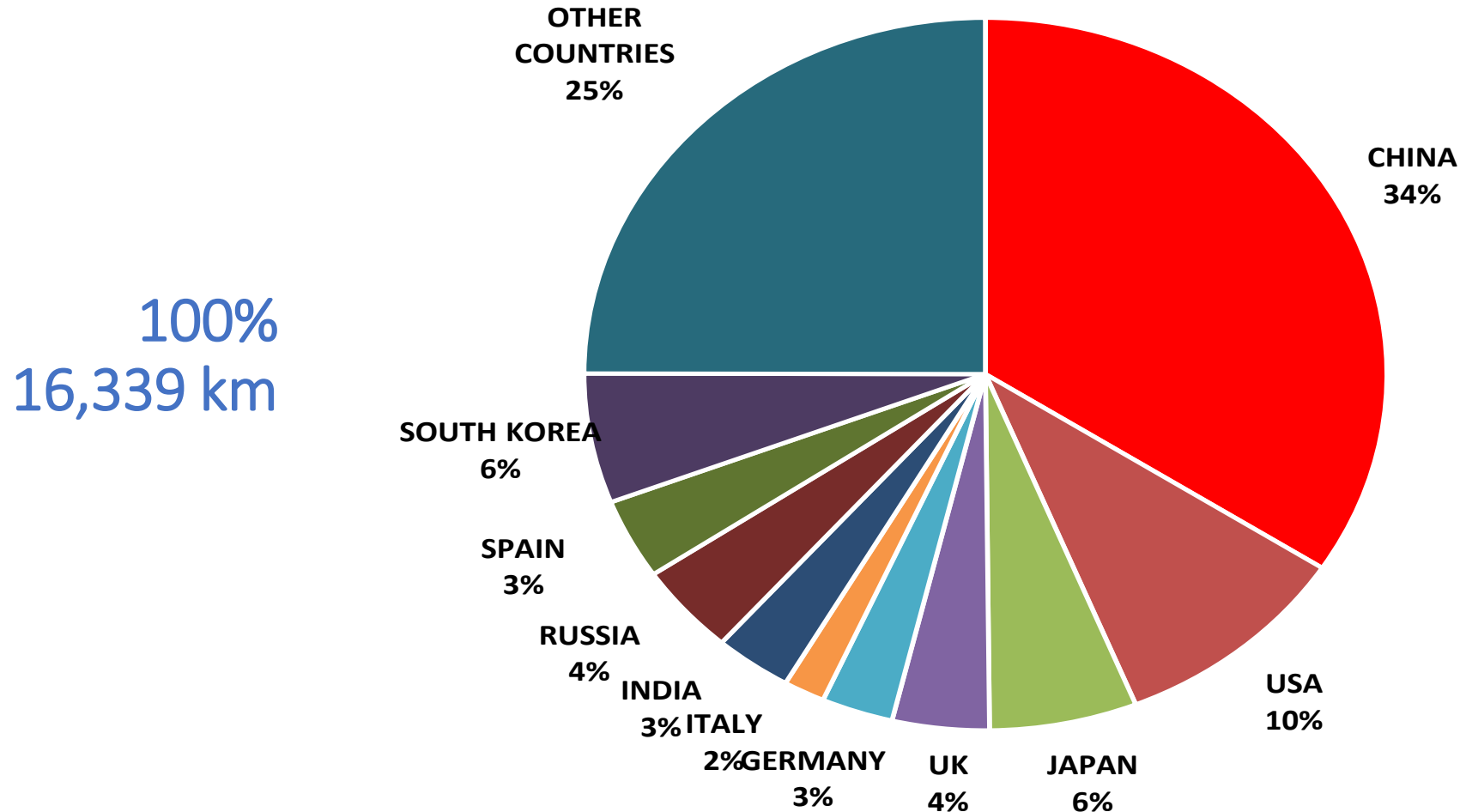


## More Underground Car Parks



Sources: Donald Shoup, *The High Cost of Free Parking*, American Planning Association, Routledge, 2005;  
European Parking Agency

# WORLDWIDE KILOMETRES OF OPERATING SUBWAYS IN CITIES, 2018







# THE CITIES OF THE FUTURE PROJECT (FIRST EDITION 2019 - 2020) (t.b.c.)

- **SHARING ECONOMY** AS AN ALTERNATIVE TO PROPERTY BASED PRODUCTION MODEL (BOCCONI ?)
- **PARTICIPATORY DEMOCRACY** AS AN EVOLUTION OF REPRESENTATIVE DEMOCRACY (LSE)
- **CIRCULAR ECONOMY** AS A DIFFERENT CONSUMPTION PATTERN (PISA)
- **GLOBAL CITIES, GLOBAL GOVERNANCE** (OXFORD)

THANK YOU!



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