

# Lifestyles and Energy in the City

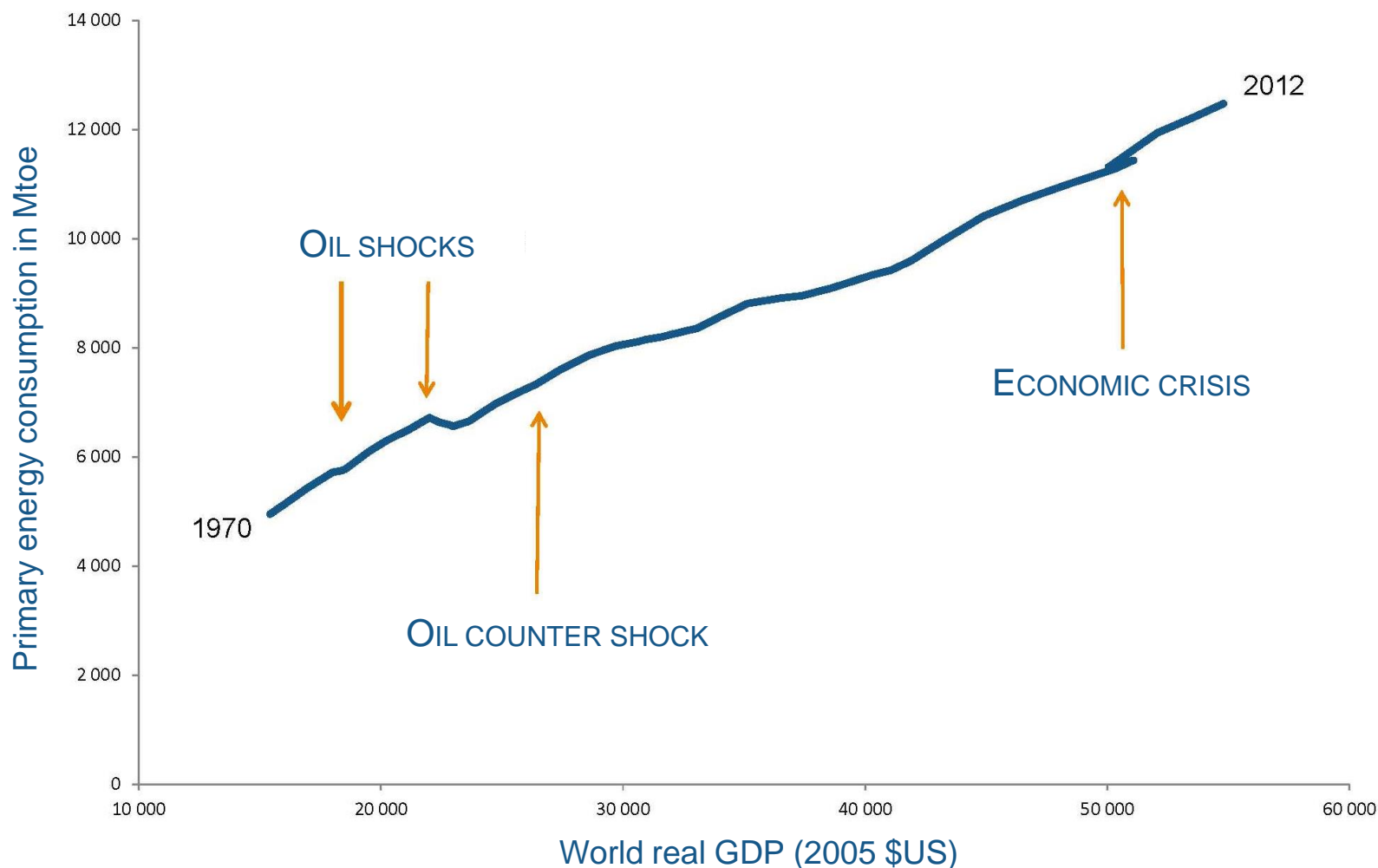
Opening address

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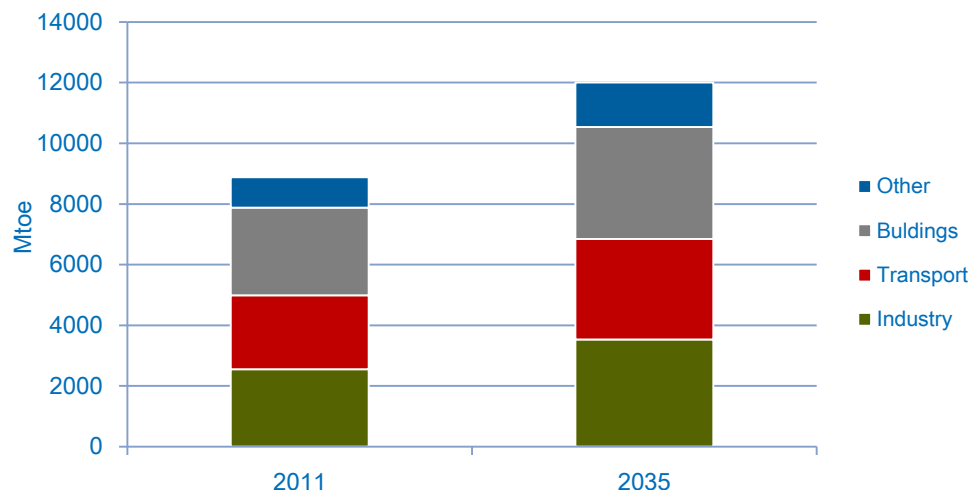


# Energy time is the long time

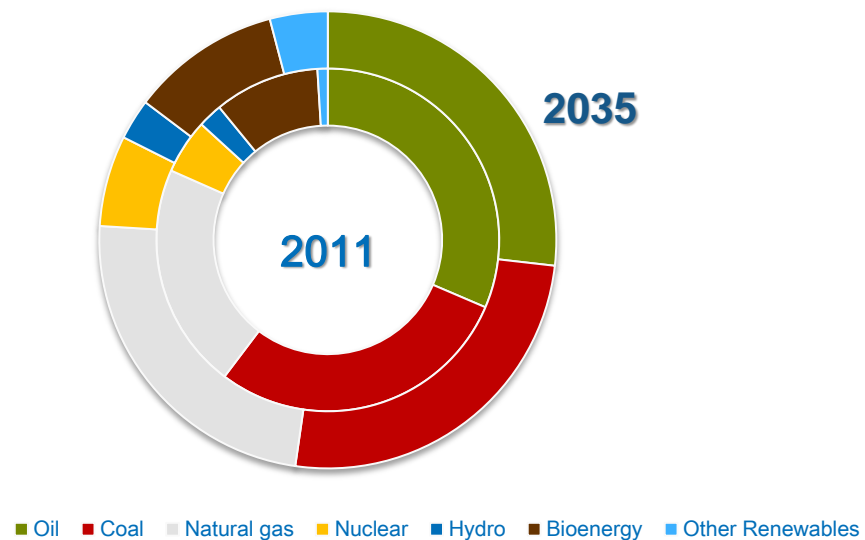


# Energy time is the long time

Global final energy consumption by sector



Global energy mix 2011-2035



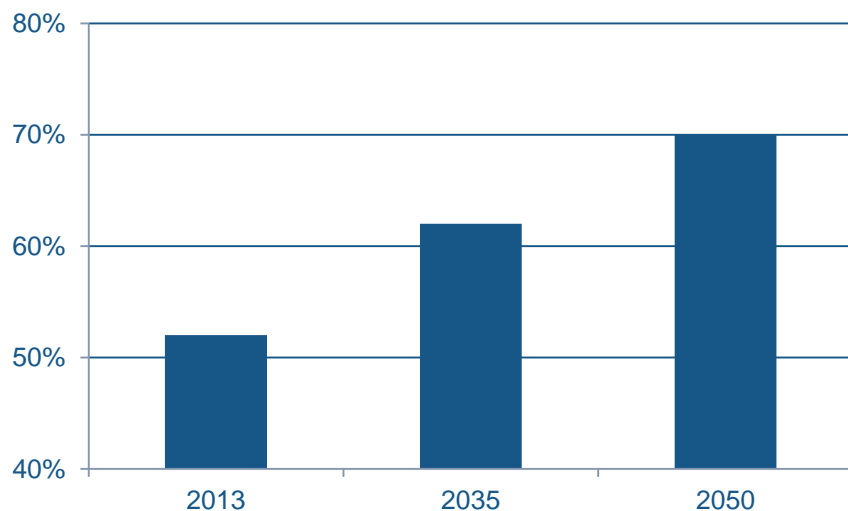
**35% of added energy consumption between today and 2035**

**Fossil resources remain dominant in the future energy mix (75% in 2035)**

Source: IEA World Energy Outlook 2013

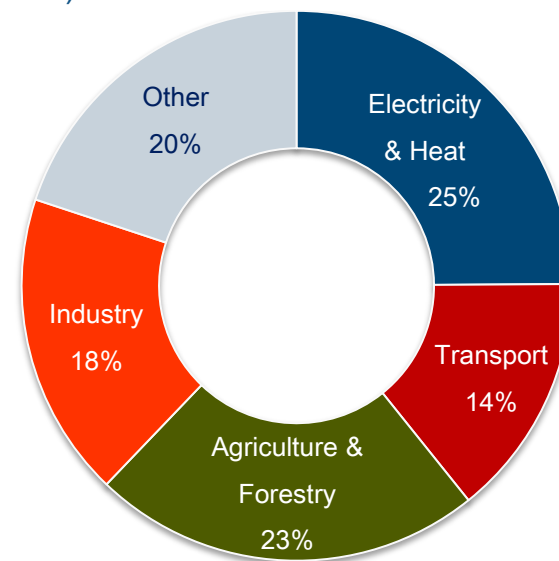
# Energy & cities are interlinked

Urbanization rate



**By 2050, 70% of the world's population will live in cities**

Greenhouse gases emissions by source (49Gt in 2010)

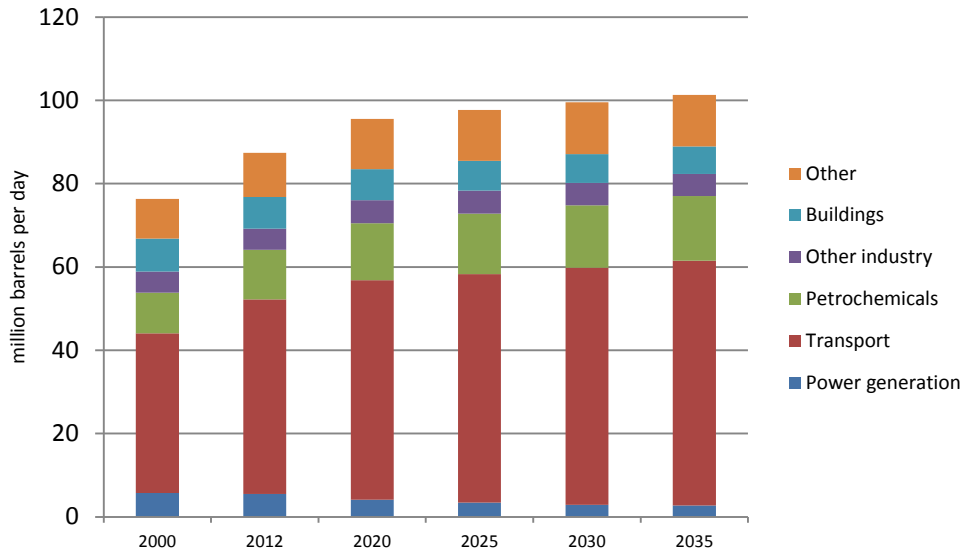


**The world is on path for a temperature increase of [+3.6-4.8°C] by 2100.**

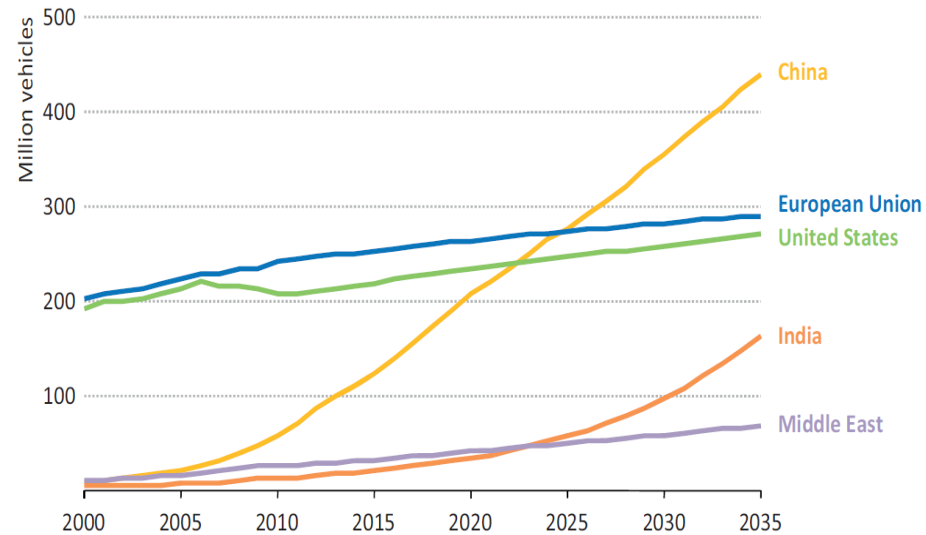
Sources: IEA World Energy Outlook 2013; World Bank; IPCC

# Transport: challenges ahead

## Total primary oil demand



## Fleet growth of personal light duty vehicles



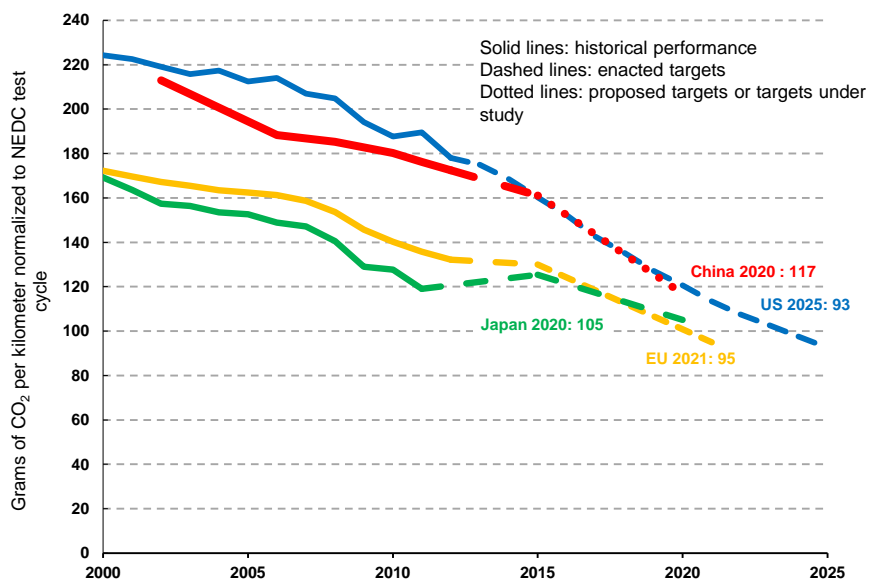
**Transport (+26%) is the driving sector of future oil demand growth (+16%)**

**Driven by road mobility (freight & personal vehicles)**

Source: IEA World Energy Outlook 2013

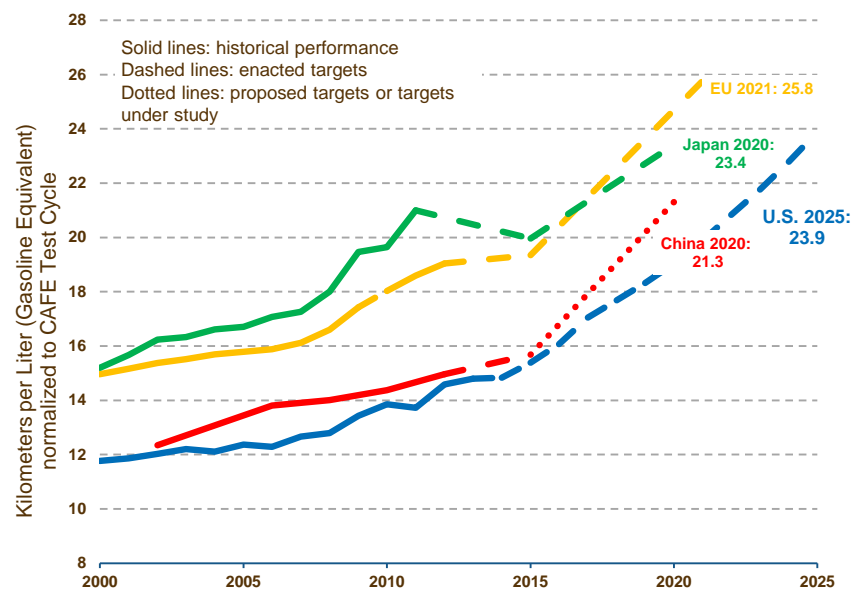
# Less emissions, more efficiency

## Reducing CO<sub>2</sub> emission standards for vehicles



**Average emissions from EU cars sold in 2012 = 132.4 gCO<sub>2</sub>/km**

## Increasing fuel efficiency standards



**Average fuel efficiency from EU cars sold in 2012 = 18.8 km/L**

Source: The International Council on Clean Transportation

# New modes of transportation

Electrifying transport

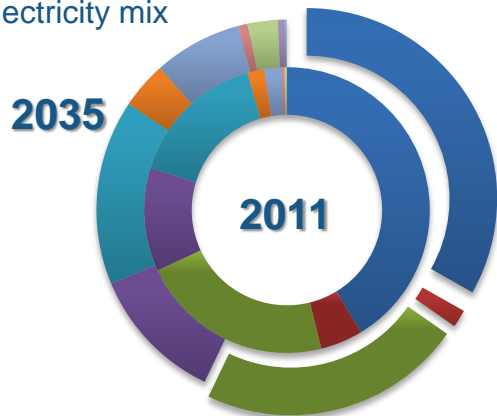


More people / goods per vehicle

On demand or planned car pooling



Global electricity mix



- Coal
- Oil
- Gas
- Nuclear
- Hydro
- Bioenergy
- Wind
- Geothermal
- Solar PV
- CSP
- Marine

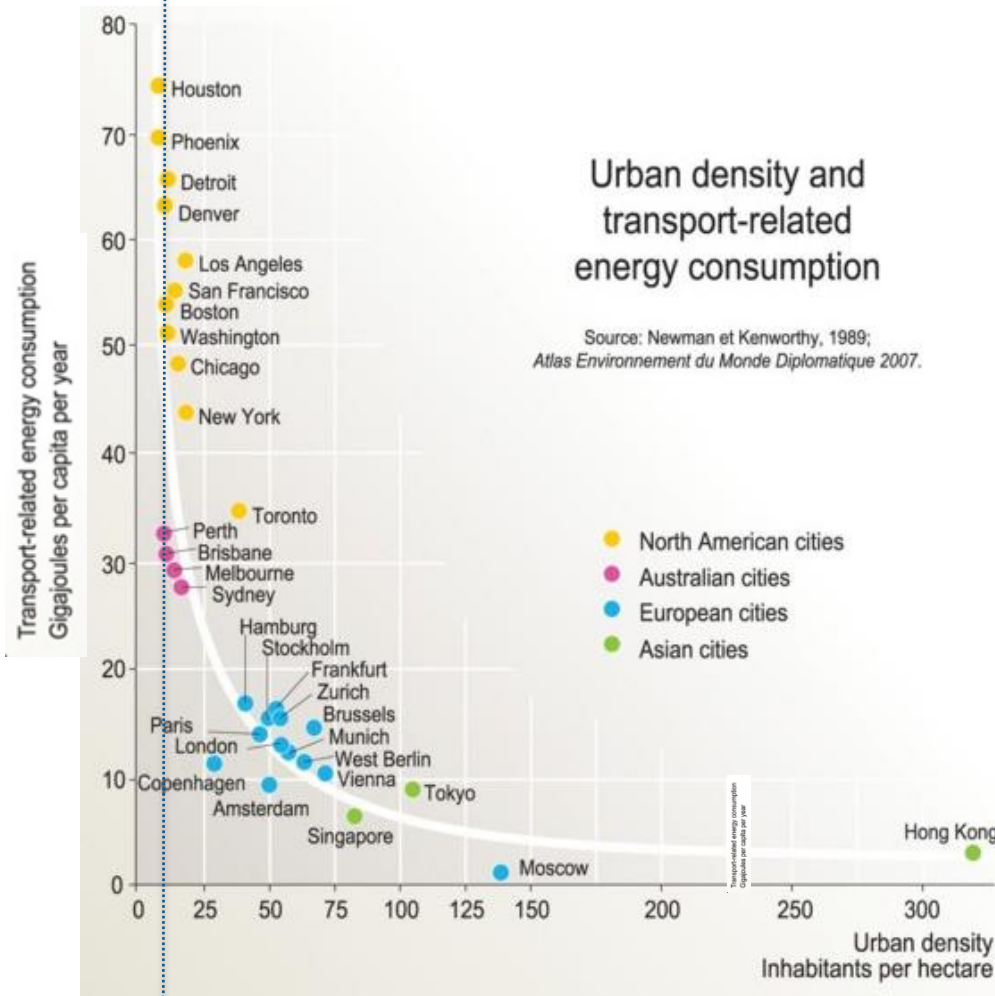
Less vehicles on the road with public transport

Space requirement for transporting 60 persons



Source: IEA World Energy Outlook 2013

# Urban design





# Lifestyles and energy in the city

- ▶ A focus on European cities
  - Mid-sized European cities
- ▶ Morning session:
  - Individual people's relationships with their consumer goods (purchasing strategy, consumer habits, distribution channel, etc.)
- ▶ Afternoon session:
  - Balance between the individual and the group, and the choice of "how to live together" (housing, transport, new forms of solidarity, etc.)

Thank you!

