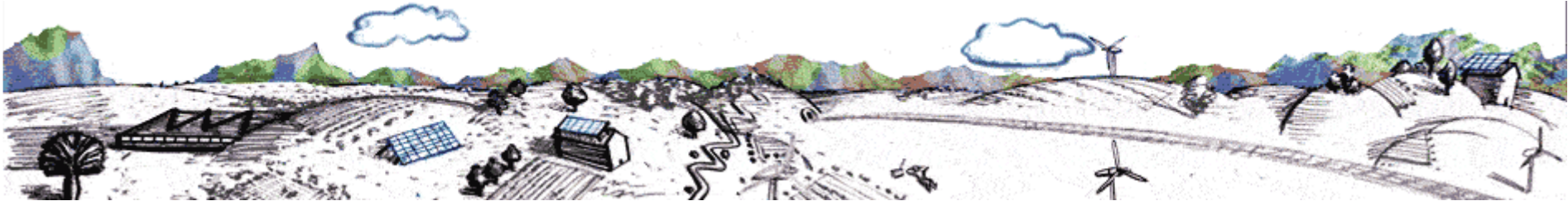




Targets for sustainable mobility in Europe

Raimondo Orsini,
Sustainable Development Foundation





- *NGO aiming at developing the green economy in Europe.*
- *80 companies and 50 experts as founding members.*
- *Co2 reduction, Renewable energy, sustainable mobility, waste reduction and recycling as main areas.*
- *Member of European Foundation Center and ISWA.*
- *Member of CEN working group on energy and co2 emissions*
- *Member of European Environmental Agency working group on sustainable mobility*
- *Partner of Poste Italiane in Greenpost and POSTALZEV projects.*



Why Greenpost project is a success story?





1913

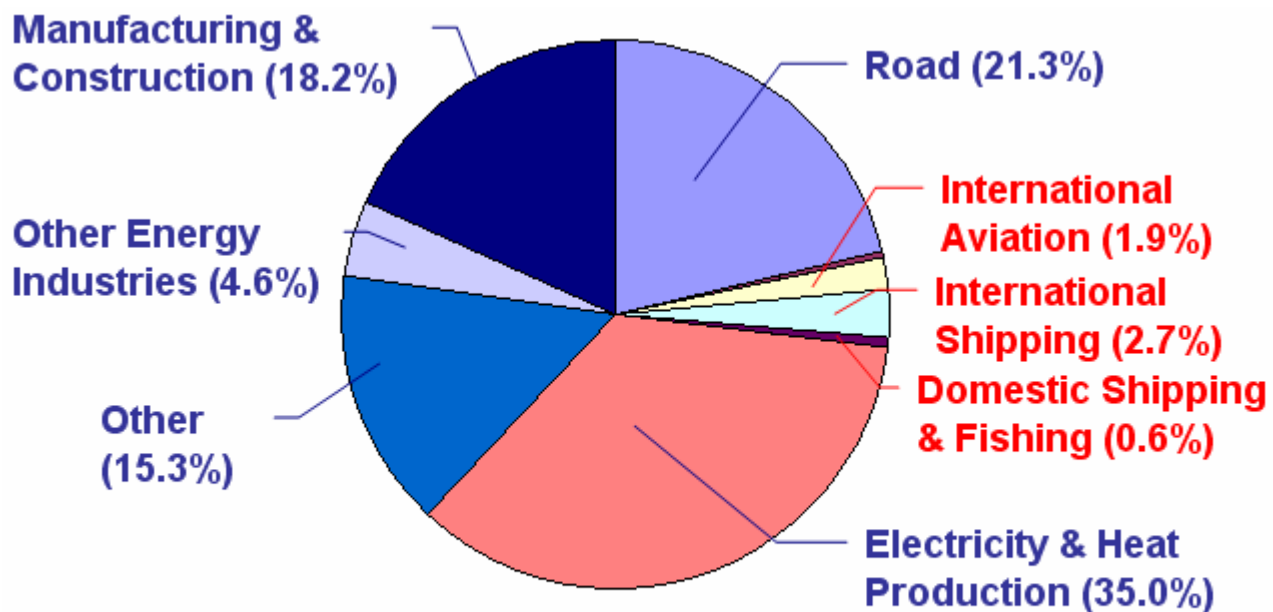




1905



Co2 emissions and EU targets



Transport = 26%

GLOBAL CO2 EMISSIONS BY SECTOR

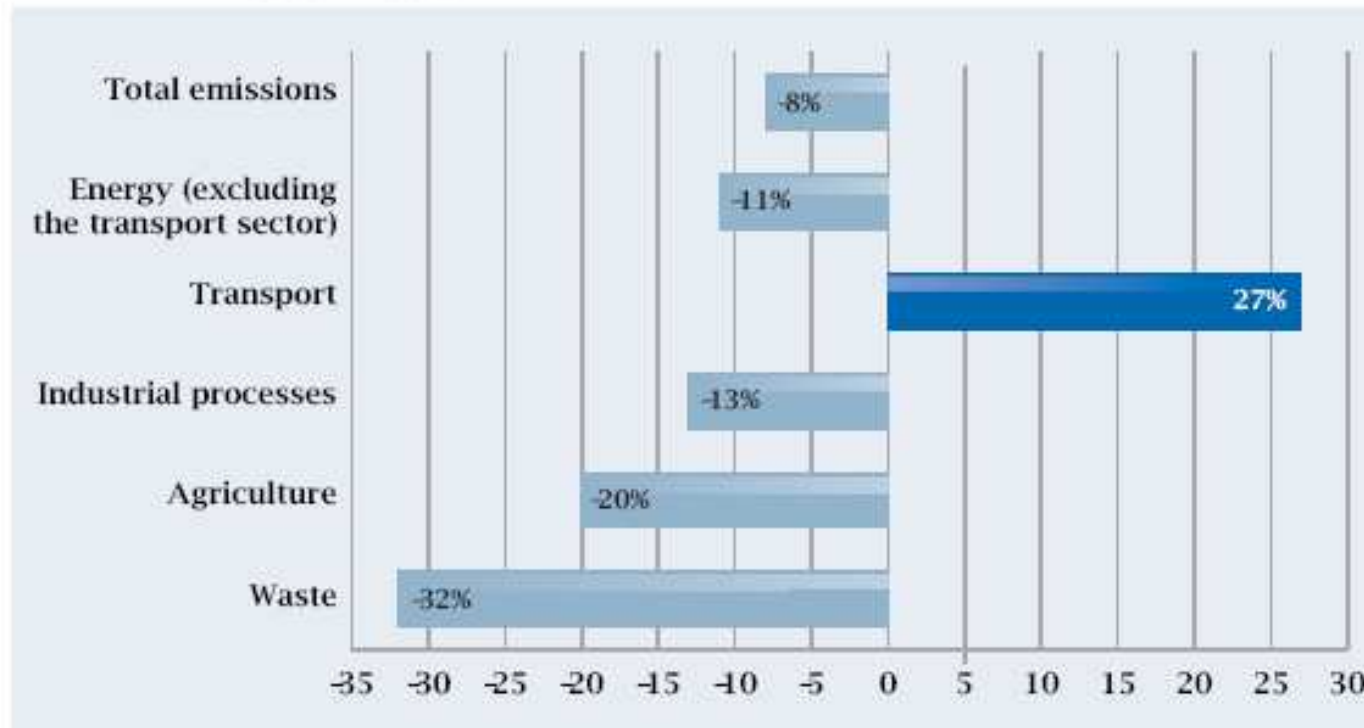
EU Target: -20% Co2 emissions in 2020



Co2 emissions from transports are increasing !!!



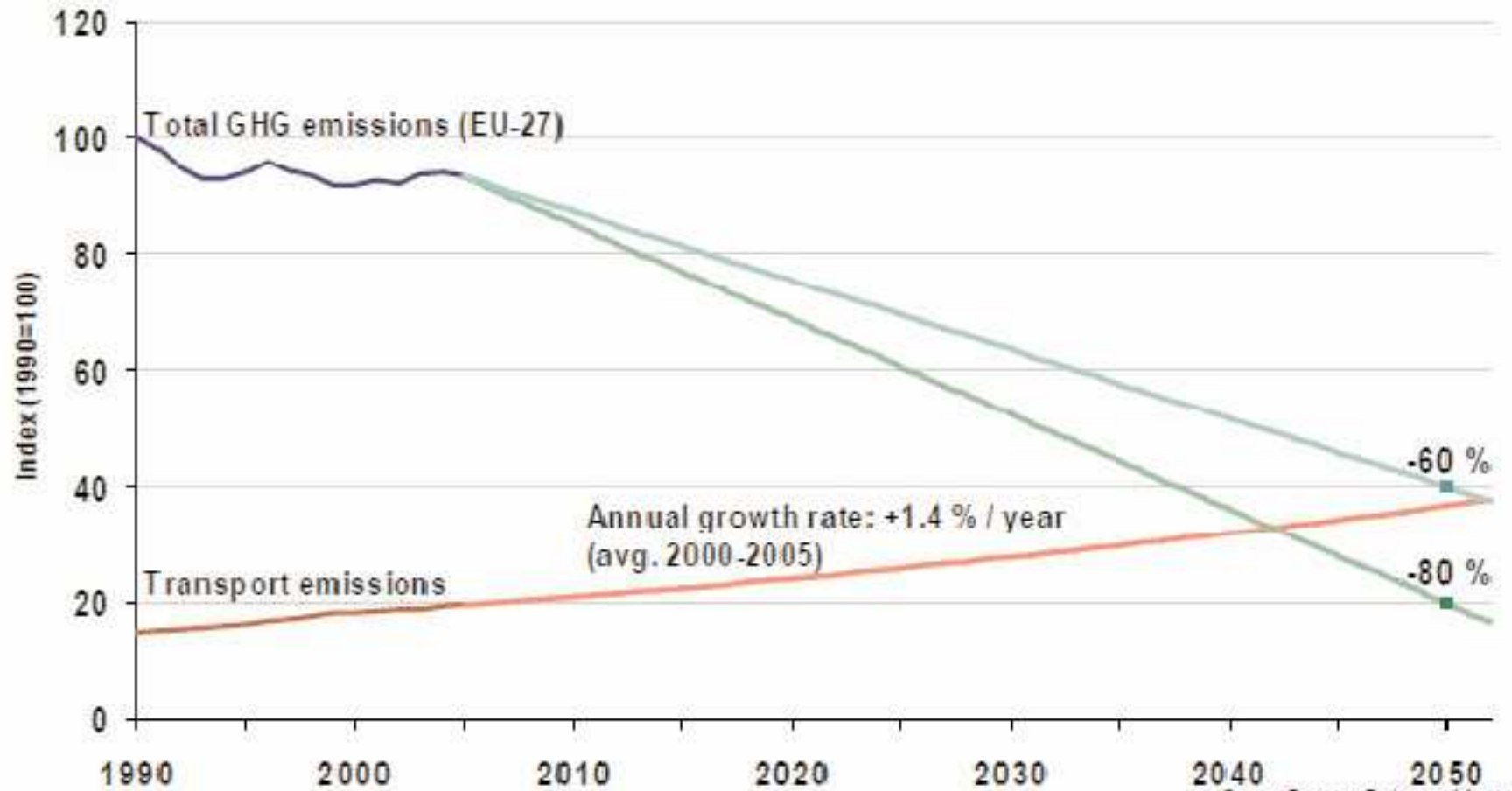
Figure 1.5 Changes in EU-27 greenhouse gas emissions by sector, 1990-2006



Transport sector greenhouse gas emissions **increased by 28 %** over the period 1990–2007. This compares with an important reduction from the non-transport sectors.



The situation is not sustainable anymore.....

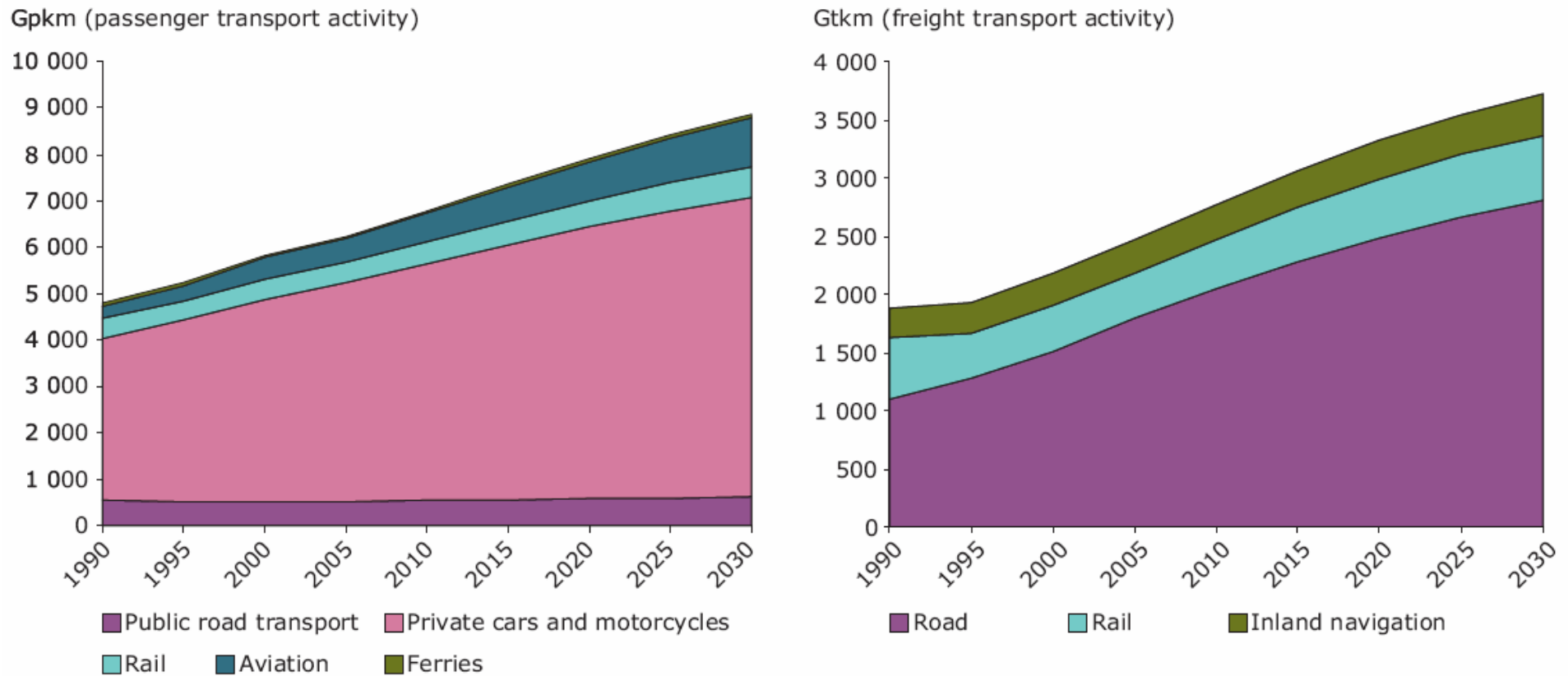


Transport emissions will “eat the full cake” in 2040



The situation is not sustainable anymore.....

Figure 8.1 Passenger and freight demand projections for the EU-25



Transport demand will grow in both passengers and freight sectors



EU strategy for sustainable mobility

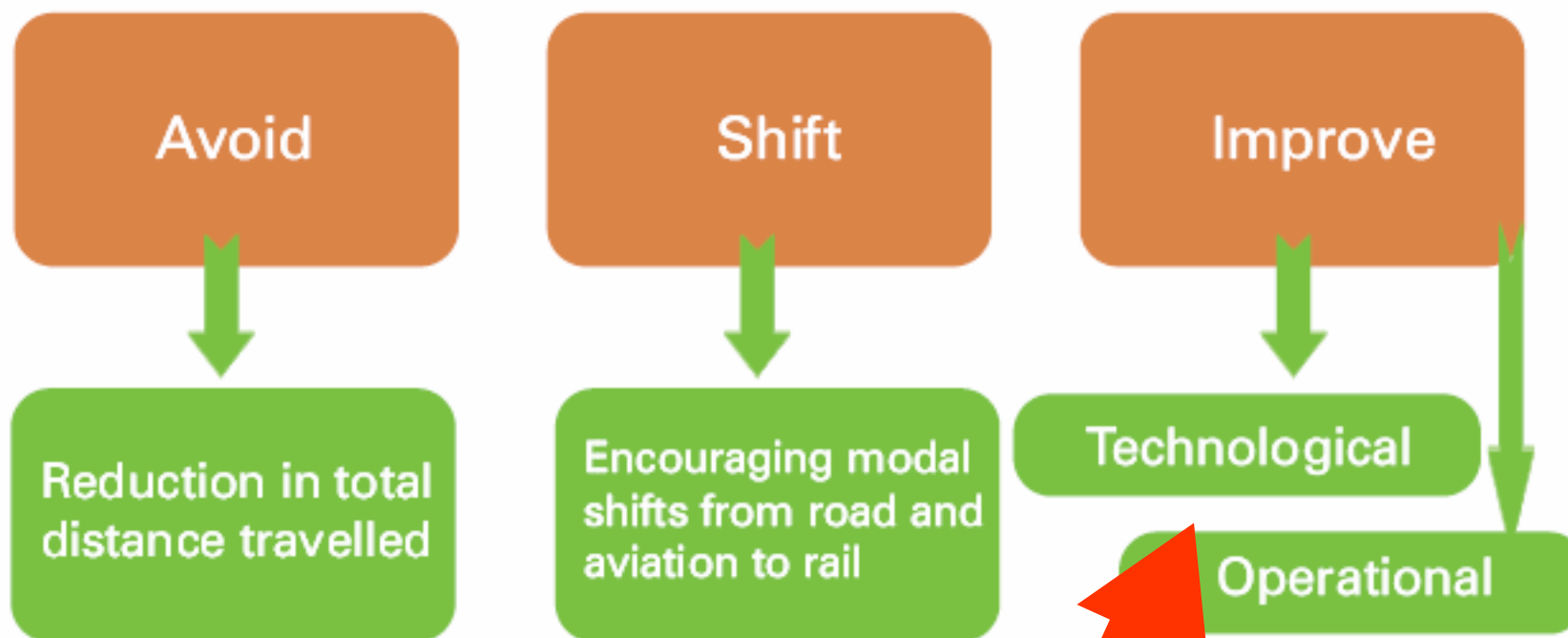
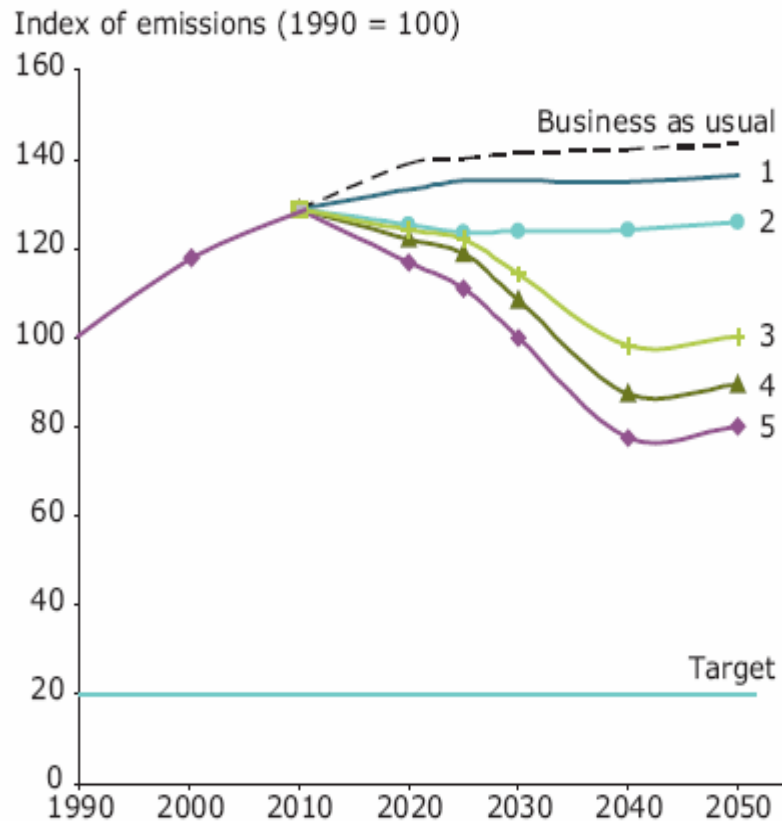


Figure 8.3 Effect of a combination of 'improve' measures



European environment agency

Each curve shows the additional effect of adding further instruments.

- 1 Improved engine design: includes engine combustion improvements, hybrid trains and cars; electrification of trains. Estimated to lead to a 9 % reduction in CO₂ emissions from cars in 2050.
- 2 Improved vehicle design: including reducing vehicle weight, reducing aerodynamic drag, automatic tyre pressure adjustments. Estimated to lead to an 8 % reduction CO₂ emissions from all vehicles in 2050.
- 3 **Electric cars (lead to a 35 % reduction in transport CO₂ emissions in 2050).**
- 4 Low-carbon fuels: lead to a 4 % reduction in CO₂ emissions from cars and 12 % from HGVs and buses in 2050.
- 5 Technologies encouraging behavioural change: including speed limit enforcements and vehicle platooning. Estimated to lead to a 9 % reduction in CO₂ emissions from cars and 4 % from HGVs and buses in 2050.



Germany

- Aim 2020 : **1.000.000 electric cars** and 500.000 fuel cell vehicles.
- Aim 2050 : Almost no use of fossil fuels for inner city transport.
- Funding: 500 Millions Euro from 2009-2011 for electro mobility.
+ 1.4 Billion Euro until 2016 for fuel cell and hydrogen technology



France

- Aim 2020 : **2.000.000 electric cars**
- 27% market share in 2025.
- Funding: 1.5 Billion Euro until 2020 for infrastructure-recharging.

5000 Euro “bonus” for buying electric cars.



Which is the next challenge?





Briefing paper
8 February 2010



Green power for electric cars

Harvesting the climate potential of electric vehicles



