



CLEPA
*European Association of
Automotive Suppliers*

Clean and Energy Efficient Vehicles: A European Scenario for Future and Technological Development

CLEPA

European Automotive Suppliers Industry

Public Hearing

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The pace of change has accelerated since the
CARS21 mid-term vision;

The increased **efficiency of the combustion engine** has reduced the CO2 emissions quicker than anticipated;

The crisis and the economic measures taken has reduced the size of cars and engines with lower total CO2 emissions as a results





Clean automotive propulsion technologies

- **Hybridization** is a bridging solution with limited potential;
- **Fuel cells** are still not developed enough and might be used as energy storage only with impact in long term;
- **Electric Vehicles** are the most likely future solution but with little impact in the short term;
- **Complementary measures** are a short term potential which should be promoted heavily; **Eco-innovations** are cheap with a big potential



Future scenarios of technological development

- **Electric vehicle** is the most energy efficient alternative to individual mobility with a large choice of primary sources of energy;
- The critical point is the **energy storage** on board the vehicle;
- **Hydrogen** is inefficient as energy storage medium;
- **A trade off situation** between electrical and conventional technologies can be avoided by **intelligent taxation**.



Actions

- **Regional actions** should be adopted to regional circumstances for example: densely populated areas on the opposite;
- **National actions** should be avoided;
- **European level** should co-ordinate **infrastructure** and **standardization** and promote and co-ordinate **research**;
- **International level** should agree on **environmental regulations** and co-ordinate utilization of **energy resources**.