



# European Green Car Initiative with a focus on Electric Vehicle

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# Content

- **About the Economic Recovery**
- **The European Green Cars Initiative**
- **Conclusions**

# Reasoning behind the European Economic Recovery Plan (1)

- The economic crisis is in particular affecting the automotive industry and its suppliers
- **The automotive sector** is crucial for European economy and employment
- Short-term measures may be needed but we need to ensure **a level playing ground** and refrain from measures which protect national champions
- Research measures are not intended to bail-out the industry – they are there to ensure **long-term sustainability and competitiveness**

## About the Economic Recovery (2)

- The Commission Communication “**the European Economic Recovery Plan**”, adopted November 2008
- Directorate-General Information Society and Media is mostly involved in two lines of action
  - The deployment of **Broadband infrastructure**
  - **Research and Development actions**
- The three proposed Public-Private Partnerships:
  - **The European Green Cars Initiative**
  - The Energy Efficient Buildings Initiative
  - The Factories of the Future Initiative
- The European Green Cars Initiative
  - Overall lead DG ENTR with RTD, INFSO, TREN

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# The European Green Car Initiative

## Public Private Partnership

- Objective: to promote the convergence of public interest with industrial commitment and leadership in determining strategic research activities
- Quick response and smooth start: use existing schemes & structures (FP7 and ETPs)
- Smart investments: to improve competitiveness of European industries & environmental protection in long term
- Implementation approach: via cross-thematic calls while also exploring other possibilities

# The European Green Car Initiative

## The budget

- EIB loans in support of industrial innovation  
Budget: €4 billion (in addition to existing loans)
- PPPs for research on greening road transport:  
Budget: €1 billion (€500 million from EC matched by €500 million from industry and Member States)

# The European Green Car Initiative

## The estimated research budget breakdown

Year	EC funding		Transport	NMP	Energy	Envir.	ICT
2010	ca. 95						
2011	ca. 115						
2012	ca. 145						
2013	ca. 145						
<b>Total</b>	<b>500</b>	<b>Total (M€)</b>	<b>ca.220</b>	<b>ca.60</b>	<b>ca.75</b>	<b>ca.25</b>	<b>ca.120</b>
		<b>%</b>	<b>44%</b>	<b>12%</b>	<b>15%</b>	<b>5%</b>	<b>24%</b>

# The European Green Car Initiative DGs INFSO, RTD and TREN: Fully Electric Vehicle

Three DGs to focus on **road electrification** in a coordinated manner.

Five key areas for research focus:

- Energy storage systems
- Drive trains
- Vehicle integration
- Infrastructure integration
- Integration with the transport system

# The European Green Car Initiative

## The background in DG INFSO

- Support to research in technologies, components and systems required for “green cars” and “clean cars” (FP5, FP6, FP7), JTIs, Intelligent Car
- eSafety Forum Working Group on “ICTs for Clean and Efficient Mobility”: Final Report
- A common position paper on Electric Cars by the **EPoSS** and **ERTRAC** European Technology Platforms
- A Strategic Research Agenda from the **eSafety Forum RTD Working Group**

# The European Green Car Initiative

## The INFSO Proposed Contribution: Electric Car

- DG INFSO is proposing to focus its contribution to the Green Car Initiative on the development of technologies, components and systems **for a fully electric car, including the necessary infrastructure.**
- Funding possible already in call 4 (objectives 3.9 and 6.1b); possibly in Call 5 and at latest in WP 2011-2012



# Towards safer, cleaner and smarter mobility (3)

## RTD in Objective 6.1 ICT for Mobility



# Towards safer, cleaner and smarter mobility (4)

## Objectives: ICT-2009.3.1 to 9

CSA

Call 5	3.1 Nanoelectronics Technology > 1 IP/Strep/NoE	35M€
Call 4	3.2 Design of SC components ... > 1 IP/Strep	25M€
Call 4	3.3 Flexible, organic and large area electronics IP/Strep/NoE	60M€
Call 4	3.4 Embedded Systems Design 2 IPs/Strep	28M€
Call 5	3.5 Engineering of ... control systems 2 IPs/Strep/NoE	32M€
Call 4	3.6 Computing systems Strep	25M€
Call 5	3.7 Photonics IP/Strep/EraNet+ (10M€) ERANet+ ->Call 4	60M€
Call 4	3.8 Organic photonics... Strep/NoE	30M€
Call 5	3.9 Microsystems and smart...systems IP/Strep	80M€

Coordination, roadmaps and networking

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# Conclusions

- The Automotive sector is a crucial industry in Europe
- We have to see over the current crisis and invest in the future: next generation mobility and transport
- We need to keep the research skills, capacities and jobs in Europe
- We need cooperation and coordination of different stakeholders (in EU Framework Programmes and Internationally)
- **We are willing to take your advise in implementing this initiative.**

Thank you  
for your attention !