European Green Cars Initiative
Impact and Future Outlook

Dr. Gereon Meyer
VDI|VDE Innovation + Technik GmbH / EPoSS Office
Panelists

- **Wolfgang Steiger**
  Volkswagen / Chairman Industrial Advisory Group / ERTRAC

- **Pietro Perlo**
  Fiat Research Center / Chairman EPoSS Auto WG

- **Olivier Debande**
  European Investment Bank

- **Athena Roumboutsos**
  University of the Aegean / Chair of a COST Action ‘PPPs in Transport: Trends & Theory’

Chair:
**Andras Siegler**, Director Transport of DG RTD, EC
Impact of the EGCI PPP

• In the context of the EU economic recovery measures the industry engaged in a technology field with tremendous impact

• Benefits for the
  • **Environment:** Reduce GHG and local emissions
    (Electric vehicle most energy-efficient kind of car, with radical cuts in CO2 particularly if linked with wind/solar)
  • **Society:** Safe roads, secure energy, reliability of transport
  • **Economy:** Preserve the capacity of the industry to engage in advanced R&D; Defend and create European industrial leadership in the area of decarbonization
  • **Europe:** Spreading and sharing knowledge and collaborate in EU projects enables synchronization and harmonization in the time of a major paradigm shifts (compare U.S.)
Impact of the EGCI PPP

• 50 projects have started; 3rd round calls now open
• Advisory Group has been created
• Supported by two CSAs, ICT4FEV and CAPIRE
• EIB Loans:
  • European Clean Transport Facility was created
  • total of 14bn Euro was lend, more than 3 times what had been planned; responding to the enormous demand
  • 90% in the automotive sectors, 2/3 for OEMs;
  • mostly R&D for Green Cars but also for safety
• Interim Assessment has been performed
Further Evolvement

• Keep current approach, which is **lean, fast and efficient**
  – aiming at <1 year from idea to project

• Continue Green Cars as a **comprehensive topic**:
  • many different industrial sectors
  • multitude of DGs of the European Commission
  • full innovation chain from basic R&D to demonstration
    (carefully to prevent pre-competitiveness)

• Increase **commitment** of the industry

• Strengthen **feedback loop** discussion process:
  • roadmaps and research agendas with milestones
  • based on **consultations** with stakeholders and EC
  • yearly advice for **calls**
  • jointly funded **projects**, results used for roadmap update
Further Evolvement

• Create a **legal entity** for the Green Cars Initiative
• Make the Advisory Group the **Governing Board**
• Raise **awareness** and **visibility** of the PPP approach
• Create **coherence**: monitoring and clustering project
• Develop further the PPP model, also in an **abstract manner**: What modes of shared responsibilities between just private or just public can be developed, and how can profits and benefits be created and maintained at all sides
Future Topics

• Current focus on **energy efficient road transportation**, i.e.
  • electrification
  • optimized combustion engines
  • efficient logistics & co-mobility

• New technology paths:
  • **light electric vehicle** closing gap between e-bike and car
    (around 500kgs weight, can only be achieved with EV)
  • **car needs to be born electrically**
    (new architectures and controls)
  • **mass manufacturing**, e.g. batteries
    (battery cost is about 5 times of material
    for a mature technology should only be 1.5)
Future Actors

• Stay with **direct industry involvement** through ETPs ERTRAC, EPoSS, SmartGrids, EIRAC, linking to ACEA, EUCAR, CLEPA, ERTICO.

• Give access to the “**fast and furious**” i.e. SMEs

• Create better communication of assessments by the EGCI PPP with **member states**, in close contact with the programme committees and though involvement in the ETPs

• Future EIB loans, in line with EU funding:
  • **advanced emerging technologies**, not only incremental improvements.
  • **infrastructures** and **services** for electric mobility,
  • **market deployment** and demonstration