



**EGVI**

European Green  
Vehicles Initiative

# **EGVI PPP Multiannual Roadmap Information Days - Green Vehicles session**

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- **Document of reference for the EGVI PPP:**
  - Context, rationale and objectives
  - Research and innovation strategy
  - Expected impacts
  - Governance model
- Based on the **ad-hoc experience** of the Green Cars Initiative.
- Roadmap preparation: outcome of **consultation process** launched in 2012, involving stakeholders from **ERTRAC, EPoSS and SmartGrids**.
- **Cross-sector approach**: document takes into account the roadmaps produced by the three European Technology Platforms.



# Context behind the EGVI PPP

- **Automotive and Smart Systems Industries key sectors for Europe:**
  - Automotive: 12 million direct jobs and over €500 billion/year in turnover
  - Smart Systems: 1 million direct jobs and €10 billion/year in turnover
- **Vehicle market facing pressing situation:**
  - lasting crisis situation in Europe shifts markets and profit generation to outside Europe
  - jobs under pressure from lower labour costs regions, political pressure and industrial policy outside Europe



# General Objectives of the EGVI PPP

- Research, development and demonstration of technologies to enable more energy efficient vehicles using alternative powertrains, strengthening the future competitiveness of the automotive industry, following **CARS 2020 Strategy**.
- Help to reach the **ambitious targets** set by the EU transport, energy and climate protection policies:
  - the 20/20/20 targets on renewable energy use,
  - the CO<sub>2</sub> emissions regulation,
  - the Euro emissions standards for road vehicles
- Match the transport needs within the EU with highly efficient and more flexible mobility products/services, by providing EU citizens with best-in-class technology, and matching with the **Grand Societal Challenges**, e.g. decarbonisation, safety, etc
- Support the policy goals of the **EU Transport White Paper** thanks to accelerated research, development and demonstration of technologies that allow the efficient use of clean energies in road vehicles



- Multi-annual Implementation Plan of the EGVI PPP based on relevant **research and innovation roadmaps and strategic agendas** developed by the ETPs - ERTRAC, EPoSS and SmartGrids.
- Guiding objectives and milestones defined in the following documents:

- ERTRAC-EPoSS-SmartGrids joint roadmap Electrification of Road Transport
- ERTRAC roadmap European Technology and Production Concept for Electric Vehicles
- ERTRAC roadmap Hybridisation of Road Transport
- ERTRAC roadmap Light-duty Powertrains and Fuels
- ERTRAC roadmap Sustainable Freight System for Europe / Heavy Duty Truck
- ERTRAC roadmap European Bus System of the Future
- EPoSS Strategic Research Agenda chapter Automotive
- SmartGrids Strategic Research Agenda

# Scope definition

- **Revised scope to cover all types of road transport vehicles:**
  - passenger cars
  - trucks
  - buses
  - L-category vehicles (mopeds, motorcycles, tricycles, quadricycles)
  - new vehicle concepts
- **Defined goal and focus: energy efficiency of vehicles and alternative powertrains**
- **Only topics responding to this goal fall within the scope, other topics to be covered in other parts of EU funding programmes.**
- **Logistics aspects are no longer included in the Initiative.**



## Examples of topics contributing to the goal of the PPP:

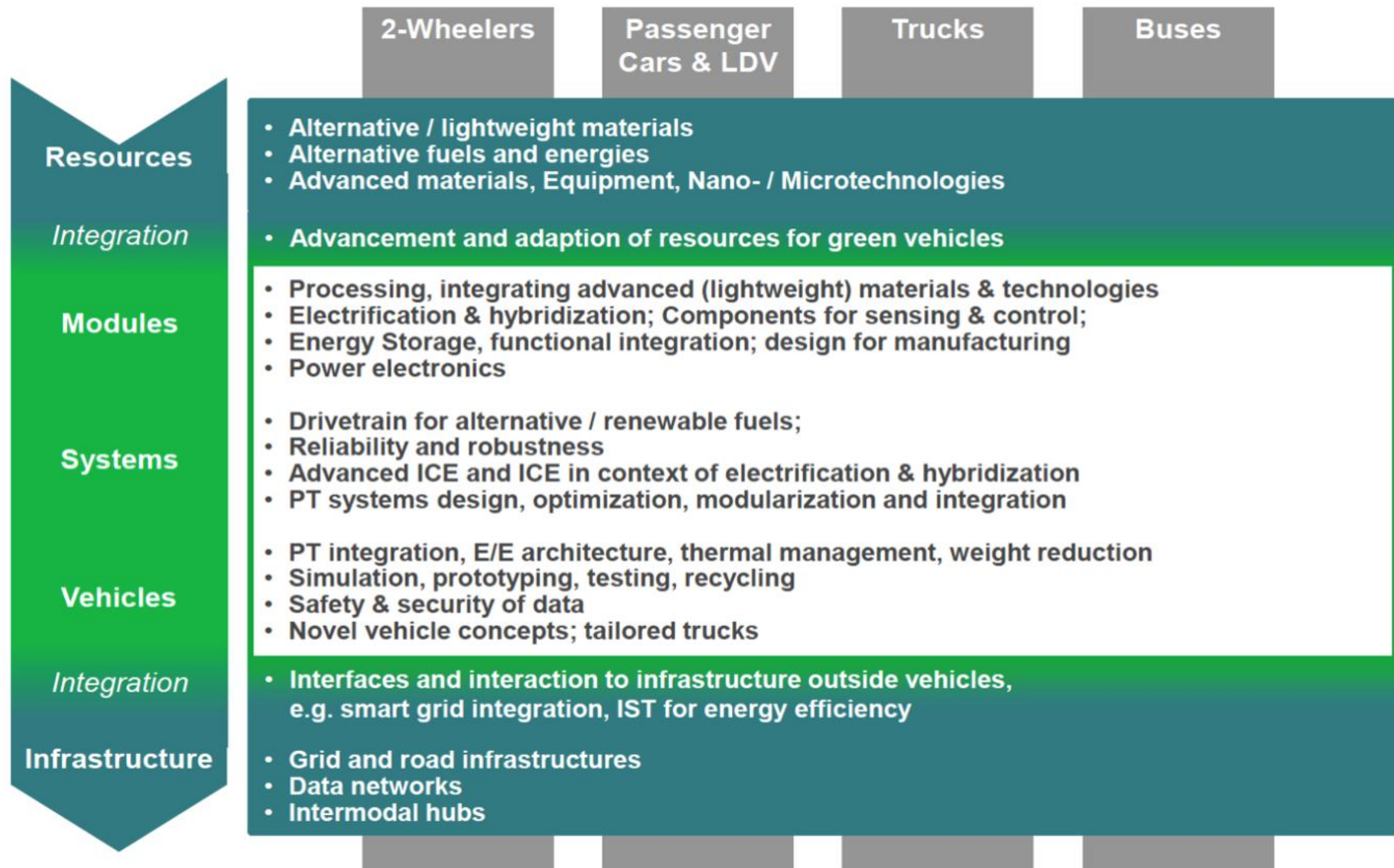
- Electrification and hybridisation of powertrains
  - Powertrain adaptation to renewable fuels
  - Functionality improvement of the vehicle
  - Reduction of the vehicle complexity and weight
  - Management of the thermal and other energy flows of the vehicle
- Any **technological development** supporting these objectives at the relevant product layers of the value chain - from modules to systems and vehicles - are considered relevant.







# Example of technology content





# Expected Impacts of the EGVI PPP

- Improvement of the energy transport system efficiency by 50% from 2010 to 2030, including: +80% energy efficiency of urban vehicles and +40% energy efficiency of long distance freight transport
- Deployment of alternative powertrains like electric and plug-in hybrid technologies, according to milestones in 2016 and 2020 and matching respective performance parameters, as described in the Electrification roadmap:
  - 5 million Electric & Hybrid Vehicles in the EU by 2020 (0.5 million by 2016)
  - Battery life-time and energy density doubled, at 30% lower cost, in 2020 compared to 2009 Li-Ion technology.



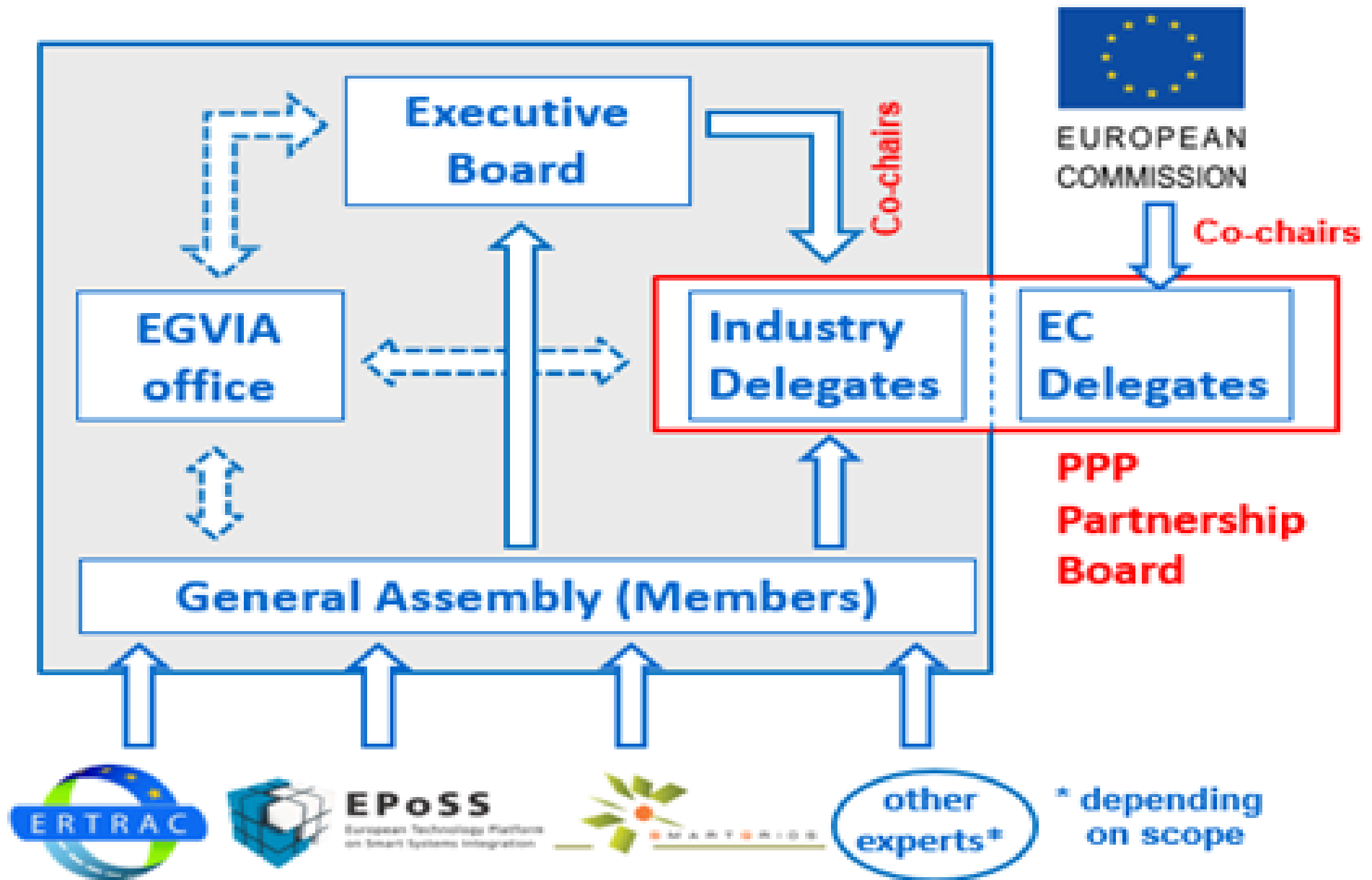
- **Partnership Board**, governing body of the cPPP - mechanism for dialogue between public and private sides:
  - Public side: DG RTD, DG MOVE, DG CNECT
  - Private side: Members of the EGVI Industry Delegation
- Role: preparation of the **Work Programmes and Calls for proposals** of the European Green Vehicles Initiative, as well as any **updates of the PPP Multiannual Roadmap**.
- Private side input prepared through a continuous process of **stakeholder consultations** within EGVI (workshops and multiannual implementation plans resting upon the long-term roadmaps and strategic research agendas of the ETPs).





# EGVI PPP Governance Scheme

**EGVI  
Association**





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**Thank you for your attention!**

**More information? [www.egvi.eu](http://www.egvi.eu)**

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