Efficient technologies processes and systems to reduce energy consumption and CO₂ emissions in the transportation of goods and persons

Impact of the selected research activities (arrow thickness) based on results of the Strategic Guidance Project (Phase I)

- Exploit full potential of electric propulsion and auxiliaries for automotive applications
- IC engine powertrain: highly efficient, zero pollution, hybrid & renewable-energy
- Support the Electrification of niche vehicles
- Reduce vehicular energy demand in propulsion and auxiliaries
- Cost Effective Fuel Cell Systems
- Advanced use of ICT to optimize the system and to change behavior

- New processing routes
- Identify more promising applications
- Tools to support behavior change
- Living Labs
- Optimized operating strategy for dual-fuel
- Improve power electronic systems for battery interface
- New concepts and algorithms
- Develop testing and characterization capabilities for better system design and integration
- 100 Watt Demonstrator
- 10 cell -1kWatt Demonstrator
- Demonstration of Advanced CNG -Hybrid engine concept
- Socioeconomic aspect: Investor and Users

Environmental impact and integrated assessment

Annual revision and update of the roadmap & KTT concept

2014 – 2016
2017 – 2020
2021 – 2035