Action Plan for promoting electromobility and alternative fuels

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Together with:
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The eMOPOLI project

- **Title of the project:**
  Electro MObility as driver to support POLicy Instruments for sustainable mobility

- **Project partners**
  - 9 regions from 8 European countries

- **Duration of the project:**
  54 months (June 2018 – November 2022)

- **Framework Program:**
  Program Interreg Europe

- **Project Objectives:**
  Diffusion of electromobility for a greener, safer and more efficient traffic in European Regions
Background

- The transportation sector
  - Has the biggest share in energy consumption
  - Highly contributes to CO₂ emissions

- The road transportation sector
  - Leader in CO₂ emissions

- Smart and sustainable cities are gaining more and more attention

- Electromobility and alternative fuels
  - Key solutions towards sustainability and urban life quality improvement

- Actions need to be taken for diffusing these technologies
Problem Identification

- Survey development
- Experts
- Survey distribution
- Data collection and analysis

- Current situation
- GAP Analysis
- SWOT Analysis
- Industry
- Authorities
- Academia/Research
- Infrastructure
- Business Association
The Action Plan

- Provides details on how to implement lessons learnt
- Describes the policy instrument addressed
- Includes concrete, targeted and reasonable actions
- Specifies the defined actions
  - Inspiration/Background
  - Objectives
  - Impacts
  - Timeframe
  - Stakeholders involved
  - Costs
  - Funding sources
- Indicates how the actions contribute to policy instrument improvement
- Specifies the monitoring process of the actions
The Action Plan of Attica Region


**Priority Axis 1: Equipment/Vehicles**
- Renewal of the vehicle fleet of Region of Attica with electric vehicles
- Feasibility and Financial Studies for the scenario selected

**Priority Axis 2: Infrastructure**
- Installation of charging stations in 4 key locations
- Feasibility and Financial Studies for the scenario selected

**Priority Axis 3: Promotion**
- Organization of seminars / exhibitions / conferences for raising public awareness
Safety Impacts

- Collision can increase the risk of electric shock
- Increase of battery temperature may lead to explosion
- EVs are heavier than conventional vehicles due to the batteries
  - Safer for its occupants
  - Dangerous for the passengers of the other vehicle
- No sound warning that a vehicle is approaching at low speeds
  - Silent electric vehicles cannot be detected by vulnerable users
- Blind or visually impaired people are exposed to high risk
- Faster acceleration than conventional vehicles
Future Challenges

- **Multiple tests** of electric vehicles concerning the various safety issues
- **New technologies** for overcoming the safety issues should be developed
- Raise **public awareness** about electric vehicles
- Increase user acceptance and favor the shift form conventional vehicles to electric
- **Cooperation** between stakeholders for promotion of electromobility
- Creation of an appropriate charging network
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