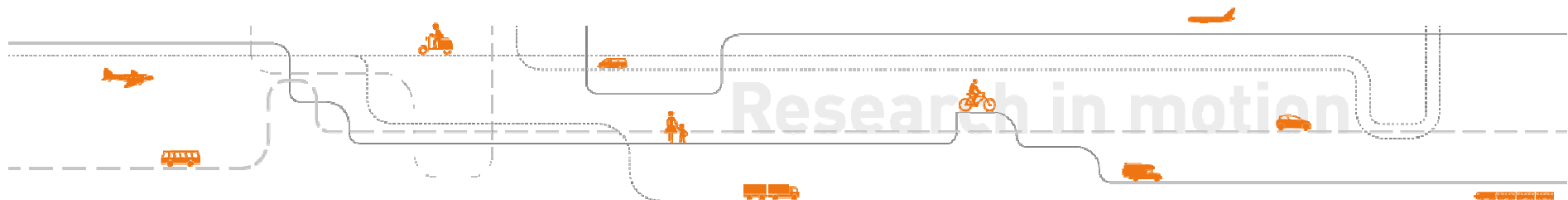


COMPETT *Electromobility +*

Erik Figenbaum, Institute of Transport Economics
Electromobility+ launch seminar Paris 13. september 2012



COMPETT

COMPetitive Electric Town Transport

- E-vehicles covered in project:
 - *Battery electric vehicles (EV),*
 - *Plug-in hybrid vehicles (PHV)*
 - *Fuel cell electric vehicles (FEV)*
 - *Light Electric Vehicles (LEV) - 2 wheelers*
- Multi-disciplinary approach to ensure an overall coverage of electromobility
 - *Technical methods*
 - *Sociological methods*
 - *Economic methods*
- Seven Work Packages
- Start with status in present time and move on to the period from 2015-2020

Partners

- Austria
 - *Austrian Energy Agency (AEA)*
- Denmark
 - *Danish Road Directorate (DRD)*
- Norway
 - *Institute of Transport Economics (TOI) – Project Coordinator*
 - *Kongsberg Innovasjon AS*
 - *Buskerud University College*

Electromobility +



toi Institute of Transport Economics
Norwegian Centre for Transport Research

Research goal

- How can e-vehicles come into use to a greater degree?
 - *Likely niches and types of vehicles that will be competitive*
 - *Social acceptability and travel-behavior changes needed*
 - *Barriers and benefits on the individual, regional and national level.*
 - *How to overcome barriers and use benefits to promote e-vehicles*
 - *Main actors and facilities that will be needed*
 - *Economy of existing regulations and incentives*
 - *How can research based knowledge stimulate marketing and policy making?*
- Results will be of importance for both main orientations of the call, i.e.
 - *Strategic Research for Transport Policy and Technology*
 - *Technology based Applied Research Innovation*
- Second key dimension of the Electromobility system
 - *Usage pattern and the systems spatial and socio-economic operating conditions*

Work Package 1

Dynamic Technical platform - AEA

- Description of work
 - *Overview of e-vehicles, e-vehicle technology and energy supply technologies.*
 - *List of available e-vehicles with performance and characteristics per country*
 - *List of typical e-vehicles to be used in the analysis in the other WPs.*
- Deliverables:
 - *Report: State of the art of electric vehicles and energy supply systems (01/2013)*
 - *Final report: Dynamic database e-vehicles and energy supply systems (03/2015)*
- Tools and methods
 - *Literature study*
 - *Continuous market observation*
 - *Dynamic database on vehicles and energy supply systems*

Work Package 2

Electromobility in everyday life (TOI)

- Description of work
 - *Identify which types of daily car trips can be undertaken by e-vehicles.*
 - *Identify possibilities and limitations for substituting ordinary cars with e-vehicles.*
- Tools and methods:
 - *Literature study*
 - *National and regional travel surveys (number of/length of trips/day)*
 - *Workshop*
- Deliverables
 - *Report on the potential use of different types of e-vehicles (04/2014)*

Work Package 3

Silent urban driving (DRD)

- Description of work
 - *Analyse how introduction of e-vehicles will contribute to less noise in urban areas.*
 - *Analyse how this can be used to introduce electric cars to a greater extent.*
- Tools and methods
 - *Literature study*
 - *On-road noise measurements*
- Deliverables
 - *State of the art report (01/2013)*
 - *Report on noise emission from various driving situations and pavements (06/2014)*
 - *Report on the effect on urban noise exposure (01/2015)*

Work Package 4

Regional Electromobility (AEA)

- Description of work
 - *Theoretical framework for scenarios and regional surveys.*
 - *Establish the regional public and private interests and initiatives in case studies in Austria (Eisenstadt) and in Norway (Kongsberg region),*
 - *Identify users' and potential users' attitudes, preference and behaviour*
- Tools and methods
 - *Info from WP2*
 - *Surveys, questionnaires, interviews and workshops*
- Deliverables
 - *Scenario framework (12/2013)*
 - *Austrian case study - Eisenstadt (12/2014)*
 - *Norwegian case study – Kongsberg region (12/2014)*

Work Package 5

Economic assessment of incentives (TOI)

- Description of work
 - *Assess the potential for e-vehicles to replace traditional vehicles in the 2015-2020 timeframe.*
 - *Analyse the economic implications of future prices, taxes and regulatory incentives*
 - *Investigate models for financing the required infrastructure for recharging e-vehicles.*
 - *Social and economic impacts of alternative policies to be shown in scenarios*
- Tools and methods
 - *Literature study*
 - *Use of data generated in Work packages 1-4 for scenario analysis*
 - *Economic analysis of private and public costs, budget implications etc*
 - *Academic paper (10/2014)*
- Deliverables
 - *Assessment of economic incentives for e-vehicles and recommendations for implementation in Buskerud, Eisenstadt and Copenhagen as well as in Europe in general (report) (06/2015)*

Work Package 6

Dissemination (DRD)

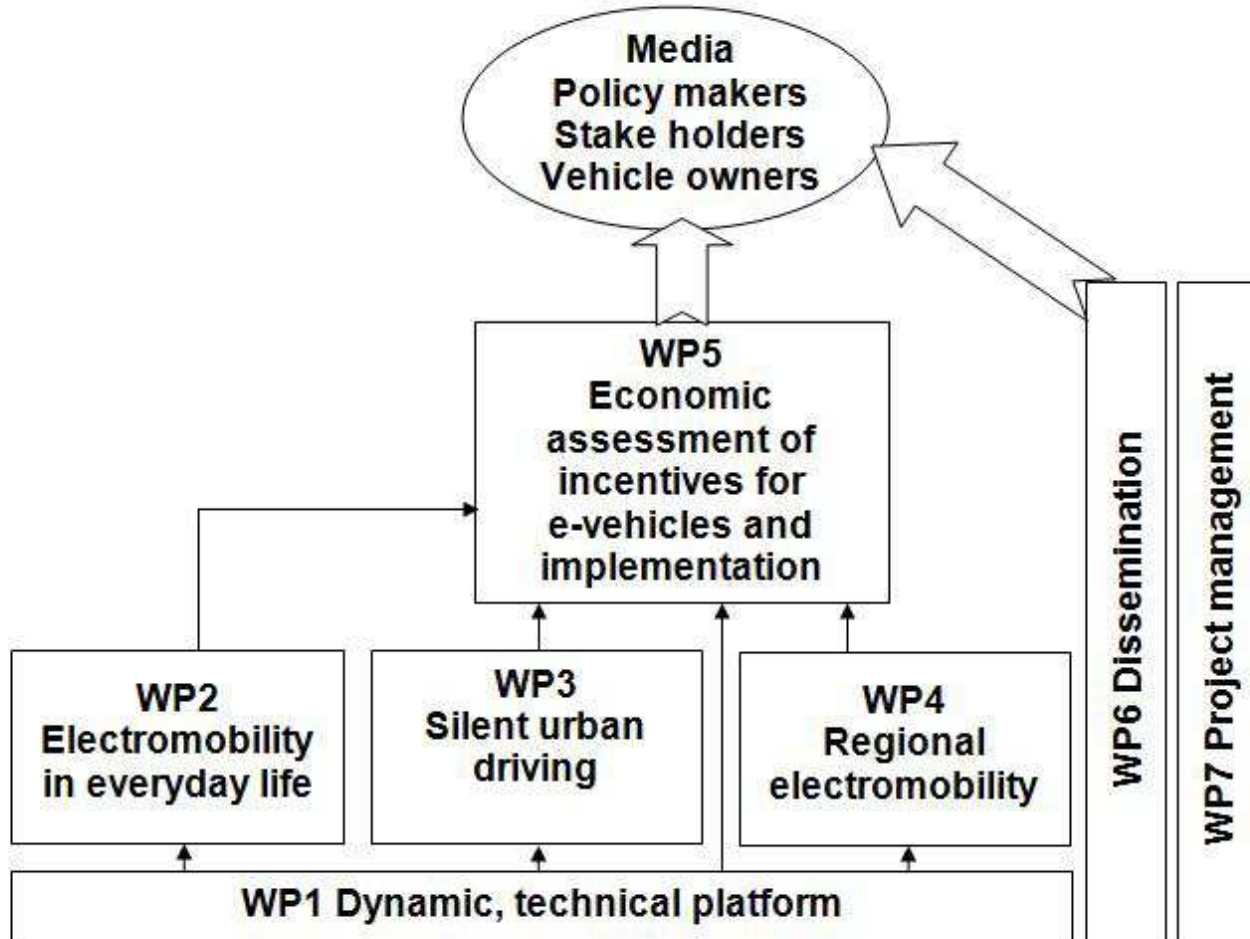
- Description of work
 - *Organize the knowledge transfer of the results to stakeholders and to the public*
 - *Establish a web site for the project where reports, papers etc. will be available*
 - *Produce a practical guideline hand-book about electromobility*
- Tools and methods
 - *Web site*
 - *Workshops*
 - *Handbook*
- Deliverables
 - *Dissemination action plan (10/2012)*
 - *Web site + press release (12/2012)*
 - *Evaluation of dissemination (06/2015)*
 - *Practical guideline hand-book about electro mobility (06/2015)*

Work package 7

Management (TOI)

- Description of work
 - *Ensure a reliable administrative and financial management of the project.*
 - *Monitor progress of the project and coordinate the technical activities in the WPs.*
- Tools and methods
 - *Management Committee*
 - *Quality assurance, risk management and financial reporting routines*
- Deliverables
 - *Periodic report 1, Financial Statements and Summary Financial Report (12/2013)*
 - *Final report, Financial Statements and Summary Financial Report (06/2015)*

Structure



Final results

- *Assessment of economic incentives for e-vehicles and recommendations for implementation in Buskerud, Eisenstadt as well as in Europe in general (report) (06/2015)*
- *Practical guideline hand-book about electromobility (06/2015)*
- *Final workshop (06/2015)*