



# Towards an Eranet Plus on Electromobility

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- I. Predit, brief reminders
- II. The French Plan on Ultra Low CO2 vehicles, main lines
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# I. Predit, reminders (1)

- A programme-plateform for coordination of research and innovation in surface transport
- A five-year agreement MEEDDM, MinEIE, MESR-ANR, ADEME, OSEO
- No « Predit budget »
- But a coordination of priorities, projects funding and result dissemination

## Reminders (2)

- All modes : road, rail, waterborn
- Individual et collective, passengers and freight
- Research for technologies, services, public policies

# Predit 4

- 2008-2012
- “Grenelle” oriented (clean technologies, modal shift, regulations)
- Expected state budget : 400 M€ over 5 years (Predit 3 : 360 over 6 years)
- Additionnal funding linked to Grenelle : ultra low CO2 vehicle (specific plan)

## Predit 4 : priorities

- Energy and environment
- Quality and safety of transport systems
- Mobility in urban regions
- Logistics and freight transport
- Competitiveness of the transport industry
- Transport policies

## II. The French plan on Ultra low CO2 vehicles (1)

- Grenelle de l'environnement, summer 2007
- Announcement of 1 billion euros for research over 4 years
- First R&D announcement October 2008
- Specific measures for the automotive industry (Pacte automobile) : 02.2009
- Programme for Ultra Low CO2 Vehicle, 9.10.2009

# Contents of the plan

- Demand push : bonus-malus, « prime à la casse »
- Coordinated buyings
- R&D : 400 M€ over 4 years (2009-2012)  
Fund for research demonstrators + Predit
- Charging infrastructures  
legal aspects, experiments, standardisation (FR-GE working group)

## II. Eranet+ Electromobility

- Eranet transport II (2008-2010, coordination TUV GE)
- A first work for ENT+ on Low CO2 European corridors, energy and modal shift (NL)
- Impulse from the Commission on the scope of electromobility (spring 2009, GCI)
- French position paper welcomed by ten countries in November 2009
- Deeper approach until March 2010 (topics, procedure, budgets)

# Decisions ENT 24.03.10

- 9-10 countries are ready to cooperate in this field : France, Germany, Austria, The Netherlands, Norway, Sweden, Denmark, Finland, Poland, UK (?),...?
- Foreseen programme : Strategic research in a mid term perspective (2025-30) + some applied technological research
- EN+? Mainly yes, but some key questions about the process

# Contents, main principles

## I. Strategic research

- Mid-term perspective
- Focus on the system (responsability of the states)
- Aiming to overcome barriers in Europe

## II. Applied technological research

- Pre-competitive
- Complementary to FP7

# Contents (1)

- I. Energy and environmental approach  
Energy balances, quantitative horizons, impacts of low CO2 vehicles on social costs of mobility
- II. Usage patterns, economic models, actors  
Usage patterns, economic models and tax legislations, actors involved, social acceptability and behaviour trends, phasing and pacing release, synergies for the benefit of the current transport system

# Contents (2)

## III. Technical dimensions of the recharge and distribution system

Battery recharge solutions, managing the power grid, recharge spots, co-governance of different modes and their infrastructures, electric vehicles and ICT

## IV. Testing trials and normative standards

Reviews of first generation systems, safety perspectives, pre-normative research

# Contents (3)

## V. Applied technological research

Energy storage and management, power train, vehicle architecture, auxiliary power units, procedures and systems of maintenance

## VI. Round up and road maps for further research

# Eranet + process questions

- Administrative costs : is it worth doing?
- How can national programmes express their priorities?
- Audits : are the Commission rules compatible with the one of national programmes

# Expected next steps (1)

- Decision MS : end of April
- Call from PCRD : end of July
- Proposal submission October 2010
- Eranet + call launching : December 2010
- Pre-proposals required for March 2011
- Evaluation by national programmes (NP)  
and list for 2nd step : mai 2011

## Next steps (2)

- Approval Eranet + by EC : June 2011
- Launching of call step 2 : June 2011
- Evaluation : October 2011
- List of selected and funded projects (EC and NP) : November 2011
- Project contracts : first semester 2012
- Global results : 2015

# Thank you for your attention

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