



E-Vehicle: the way to succeed Examples of PPP concerning the E-Vehicle

Cluster Policy in the Context of E-Mobility

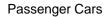
Peter Prenninger AVL List GmbH



AVL - ENGINEERING AND TESTING SERVICES: INTERNAL & EXTERNAL PROJECT NETWORKS









2-Wheelers



Racing



Construction



Agriculture



Commercial Vehicle



Locomotive



Marine



Power Plants



Powertrain Engineering



Simulation Testing

Development Platform



THE WAY TO ELECTRIFICATION CHALLENGE: COMMON DEVELOPMENT PLATFORM



Turbocharged DI-Gasoline

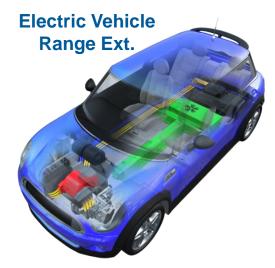
DG1-15

Automated Transmission





Plug-in Hybrid

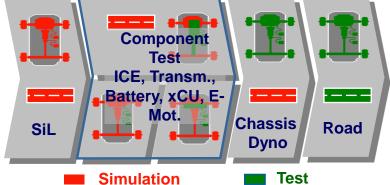


DI-Diesel





Testbed







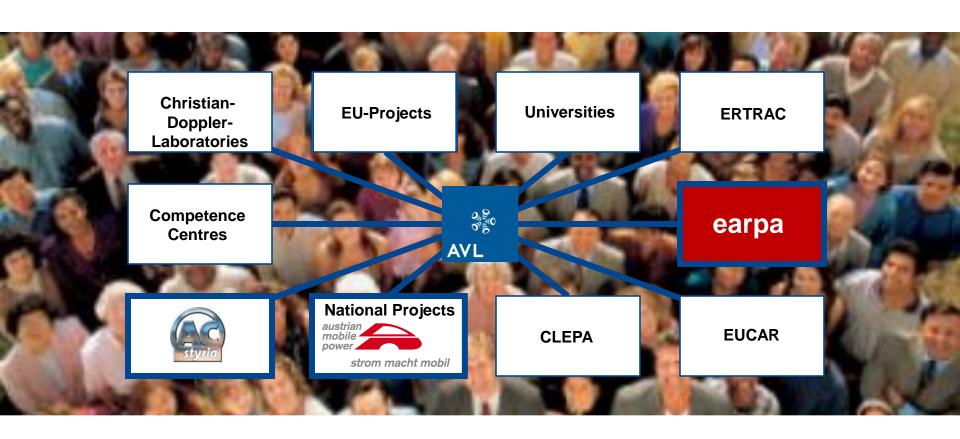
Simulation

Instrumentation

Development Platform



NATIONAL AND INTERNATIONAL COOPERATIONS



National Networks



European Networks

Common Positions and Views among Stackholders





































































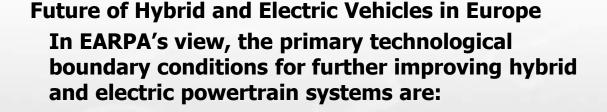












- Availability of safe and high-performing key electric components associated with industrial capabilities,
- Cost competitiveness to conventional powertrains,
- Environment and tools for competitive development time & costs,
- Compatibility with future CO2-neutral fuels and common modules with future alternative propulsion systems,
- Highly accurate range prediction for electric vehicles based on advanced navigation systems
- Education and training to develop or improve specific skills in EU (hybrid system control & design, system integration, power electronics,...) will be also required.



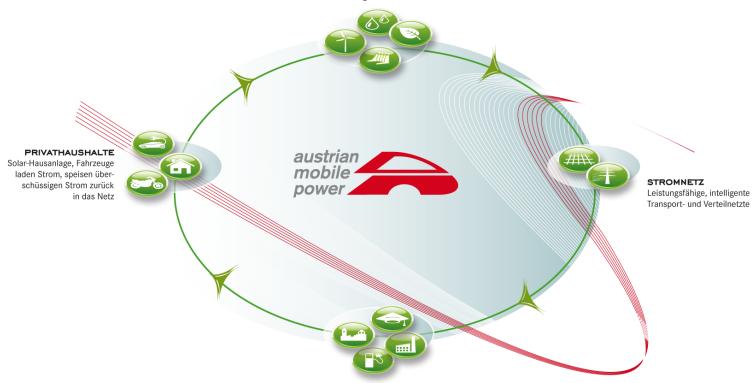




Holistic Approach



aus Wasser, Wind- und Biomassekleinkraftwerken sowie Solarenergie



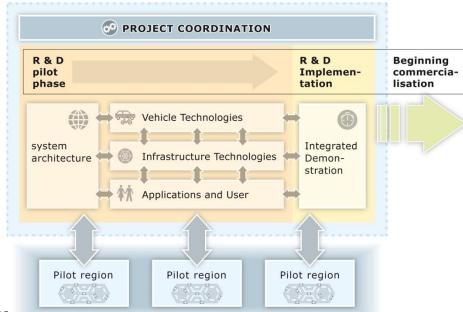
ELEKTRO-MOBILE REGION

mit E-Forschung & -Entwicklung, E-Autoindustrie und verdichtetem Netz von E-Ladestationen



The emporA projects aim to develop a system solution for electric mobility and to advance solution levels in all dimensions.

Structure of emporA project and interaction with pilot regions: The emporA projects organize development tasks into the three strands vehicle technologies, infrastructure and applications, building on a shared system architecture.



Budget & Funding

emporA (January 2010- December 2012)			emporA 2 (April 2011- March 2014)		
Partners (No)	Budget (EUR)	Funding (EUR)*	Partners (No)	Budget (EUR)	Funding (EUR)*
14	21 Mio	8.8 Mio	15	5 Mio	2.2 Mio



^{*} emporA & emporA 2 are supported with funds from the Climate and Energy Fund and implemented in line with the "ELECTROMOBILITY'S TECHNICAL BEACONS" programme.

AUTOMOTIVE POWER STYRIA

ACstyria – Industry Network with 200 Partners

Cluster as catalyst for



Acclerated growth of regional industry





Strengthening of competitiveness









