



# FRENCH HYBRID AND ELECTRIC VEHICLE TECHNOLOGIES PARTNERSHIP MISSION

Featuring French automotive clusters, research labs and innovative companies

SEOUL - DECEMBER 5-7, 2011 / TOKYO - DECEMBER 8-9, 2011



Pôle Véhicule du Futur<sup>®</sup>  
Solutions pour véhicules & mobilités du futur



>> Competitiveness clusters in the automotive sector

LES PÔLES DE  COMPÉTITIVITÉ  
MOTEURS DE CROISSANCE ET D'EMPLOI

  
iD4 for CAR

  
mov'eo

  
Pôle Véhicule du Futur<sup>®</sup>  
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LYON URBAN  
TRUCK & BUS





**EV France 2011** is a delegation of 18 top French EV players (vehicle makers, tech providers, engineering firms, R&D labs, fleet operators, tech clusters). Under special sponsorship of the French government, EV France 2011 will be in Seoul on December 5-7, 2011 followed by Tokyo on 8-9 on a discovery mission of the Korean and Japanese EV batteries and recharging infrastructure sectors. The double aim is to get an overview of locally-bred solutions (existing or under development), as well as to spark opportunities for R&D and/or business partnerships between participants and local private sector/government corporations/agencies.

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**ID4CAR** is a French automotive cluster dedicated to cars and specific vehicles. It promotes innovative solutions for engineering and new uses of vehicles. Its 4 strategic business areas are: engineering product & process manufacturing, materials & vehicle architecture, intelligence of embedded systems, specific uses & customer value.



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**iD<sup>4</sup>for CAR**



**Lyon Urban Truck & Bus** is a non-profit association gathering two different entities: a R&D cluster aimed at developing innovative mass transit systems for passengers and goods in Europe (Lyon Urban Truck & Bus), and an automotive business cluster federating the main players of the Rhône-Alpes Region in France (Rhône-Alpes Automotive Cluster).



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competitiveness cluster

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**MOV'EO** is a French Automotive Cluster dedicated to “private cars and advanced transports safe for man and his environment.” The Cluster brings together world-class companies, SMEs and research organizations (more than 300 members) in order to generate collaborative projects and to create innovations.



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**mov'eo**  
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## >> Pôle Véhicule du Futur Competitiveness Cluster



**Pôle de compétitivité Véhicule du Futur**, European Cluster based in France with strategy focused on urban mobility: Create solutions for tomorrow's vehicles and mobility systems with a view to achieving sustainable development for the territories. 8 OEM – 60 Tier one manufacturers – 350 suppliers – 100 000 employees – 72 public research teams – 20 private R&D centers.

Key words: mobility services – communication & infrastructures – energy & propulsion – design & life-cycle.



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## >> AJS-ID



**AJS-id** is an Electronic & Software Engineering and Development Company geared towards the Automotive Embedded Systems and Networks applications. AJS-id perform R&D projects, support its customers for all the steps from the concept to the production. AJS-id is specialized for several years, on Energy-Management and the relatives architectures for EV and HEV Cars. Since 2 years, AJS-id provide to car-makers, it's own products for Energy Management and Vehicle Management, based on a modular architecture able to respond to all categories of vehicle, from two-whellers, to heavy truck and Buses. AJS-id work for Asian and European Car-Makers and Automotive Suppliers.



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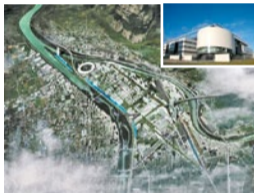
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**ADVANCED TECHNOLOGIES**

**CEA: A key player in Research and Technological Innovation.»**

**CEA** is a government-funded research organization which includes 15,000 researchers and collaborators, and is recognized internationally for its expertise in fundamental research. Its activities cover three main areas: Energy, Information and Health Technologies, and Defense and Security.



Giant



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INES

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The logo for the Commissariat à l'Énergie Atomique (CEA), consisting of the letters 'CEA' in a stylized, rounded, grey font. The 'C' and 'E' are connected at the top, and the 'A' is also connected to the 'E' at the bottom. The logo is centered between two horizontal lines: an orange one above and a green one below.



The **CEREMH** is a non profit organisation dedicated to the problems of mobility and accessibility for the disabled and elderly. We work in collaboration with large and small companies, research institutions, hospitals, user groups, local authorities and service providers to improve products for mobility, technical aids and accessibility as well as proposing new products and services.



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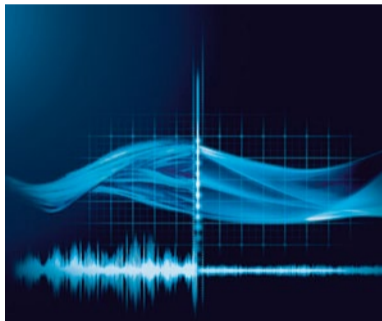
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**CEREMH**

Centre de Ressources & d'Innovation  
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**D2T** is one of the worldwide leading company in the field of powertrain development and calibration, test bed engineering and equipment. Strongly involved in electric and hybrid powertrain technology, D2T provides advanced tools and innovative answer to simulate, validate and test OEM solution to the market. D2T enhances customer's performances by actively complementing their research and expertise.



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## >> EVE SYSTEM



**EVE System** is an engineering company, specialized in electric system integration for EVs and HEVs. We prescribe to our clients, motors, converters, batteries, HMIs and provide embedded electronics such as Vehicle Control Units, BMS and ECUs. Our clients are cars manufacturers mainly, but we also work on gardening tools, passenger boats, forklifts, ground support equipments, AGVs, special vehicles and racing cars. Our electric architectures integrate the most efficient and reliable components within short development times. Our purpose is to assist our clients from the feasibility study down to the industrialisation and production organisation, in very strong and long term partnerships.

Since 2009, EVE System is also a battery system manufacturer. We study and supply assembled battery racks of any technology and work deeply with battery manufacturer to fulfil their requirements and match the battery with the vehicle.



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## >> IFP ENERGIES NOUVELLES



**IFP Energies nouvelles** is a public-sector research, industrial innovation and training center active in the fields of energy, transport and the environment. In the field of transport, IFP Energies nouvelles develops technologies to reduce the emissions and fuel consumption associated with road and air transport. Its research work relates to the improvement of conventional powertrain performance, assessment and validation of alternative, low-carbon fuels and vehicle electrification, in particular.



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A limited company in 100% public ownership since 1 March 2010, **La Poste** is an original multi-business group structured around four activities: mail, parcels-express, banking and the La Poste retail brand. Each year, La Poste's 17,000 branches are visited by some 45 million individual and 3.5 million business customers. La Poste's operational infrastructure allows it to process and transport 26 billion objects per year. In 2009, La Poste group generated revenues of €20.5 billion and employed more than 287,000 staff. By 2015, La Poste intends to become a European leader in local postal and financial services. True to its values and public service missions, and backed by the commitment of its postal workers, the La Poste group aims to become a benchmark in the arena of the modern public enterprise.



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LE GROUPE LA POSTE



**Neelogy** specializes in current sensors. With the emergence of the Electrical Vehicle, newer current sensors are required for measuring the Battery current, the Phase Motor current, and for the Charging Stations. These current sensors have to be highly accurate, non intrusive and cost efficient. The new technology invented by Neelogy, the NeelEffect® make responding to these new needs a possibility.



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neeLOGY

## >> RENAULT



The **Renault Group** has been making cars since 1898. Today, it designs, manufactures and markets vehicles under three brands : Renault, Dacia and Renault Samsung Motors. The group operates in 118 countries, offering a range of vehicles tailored to today's mobility needs and the requirements of different markets.



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**SEW** is a worldwide leading supplier of innovative drive solutions for mostly industrial applications, SEW has established production plants in 46 countries, and offers complete industrial drive and motion control solutions based on geared motors, power electronics and control systems. SEW also offers innovative solutions in the field of e-mobility, ...SEW, a Driving Force in a Mobile World



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European leader of electronic boards for embedded technology with plug and play system (for CAN /LIN). **SOJADIS EQUIPEMENT** offers solutions to add after market equipment on vehicle in conformity with car manufacturer electronic architecture.



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## >> SYNERGETHIC



**SynergEthic SA** is a start-up company that develops the Tilter; a two-seater electric vehicle of small width, providing a pragmatic and innovative answer to traffic issues in urban areas.



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## >> UNIVERSITÉ DE VERSAILLE ST-QUENTIN-EN-YVELINES



**University de Versailles-Saint-Quentin-en-Yvelines (UVSQ)** is a national, public service establishment for higher education. It is a state-owned establishment of scientific, cultural and professional nature (EPSCP), a multidisciplinary university with a teaching and research staff of 1360, technical staff of 650 and approximately 18 000 students, with an annual budget of 143 M€. It is involved in clusters with large companies and SME through partnership with clusters MOVEO and SYSTEM@TIC in France or through PARTNERSHIP FOUNDATIONS with industries (FONDATERRA on sustainable development (June 2009) and MOV'EOTEC on green cars in automotive industry (May 2010)).



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UNIVERSITÉ DE VERSAILLES  
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## GENERAL DIRECTORATE OF COMPETITIVENESS, INDUSTRY AND SERVICES (DGCIS)

### DGCIS' Missions:

- to improve the competitiveness of French companies (Industries, Telecommunications, Tourism and Services) in the international environment,
- to promote and implement an environment that fosters enterprises and employment as well as France's attractiveness,
- to support innovation and industrial research,
- to provide universal access to efficient electronic communications and postal services in an open environment,
- to ensure the security and the safety of industrial activities.

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The logo for DGCIS (Direction Générale de la Compétitivité de l'Industrie et des Services) features the lowercase letters 'dgcis' in a dark blue, sans-serif font. The 'd' and 'g' are connected at the bottom, and the 'i' has a dot. The 'c' and 's' are also connected at the bottom.

direction générale de la compétitivité  
de l'industrie et des services

**UBIFRANCE** is the French Agency for International Business Development. UBIFRANCE promotes French technologies, products, services and know how abroad. Capitalizing on its resources and those of the network of the Economic Departments of French Embassies abroad, the Agency offers French companies a full range of products and services designed to support them in their efforts to penetrate foreign markets: Informational services, business watch tools, on demand services & researches... Professional publications: Network of UBIFRANCE press offices to place articles on French technology in the international trade press. Dedicated promotional website for French exporters: [www.firmafrance.com](http://www.firmafrance.com). Organization of sector specific events (conferences, French pavilions at international trade fairs, technical seminars...). Organization of bilateral industrial and technical meetings with some ten emerging countries. Bringing foreign delegations to France.

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## >> NOTES



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