

SECOND YEAR HIGHLIGHTS

Editorial

Joint EC / EGCI Workshop, December 2011 -

**"ELECTRIC VEHICLE BATTERY MANUFACTURING"**



The workshop was organized by the Coordination Actions CAPIRE and ICT4FEV, on behalf of the European Commission and two European Technology Platforms involved in the Public Private Partnership European Green Cars Initiative (ERTRAC and EPoSS). The Spanish Centre also supported it for Industrial Technological Development (CDTI). This workshop was the third event of a series of joint European expert workshop dealing with batteries and energy storage systems for electric vehicles (EVs).

The workshop focused on current European activities related to research, development and innovation in the domain of manufacturing of electric vehicle batteries. The approaches and first results of collaborative research projects funded under the Public-Private Partnership European Green Cars Initiative were presented verbally and on posters. The workshop aimed to provide concrete recommendations for future R&D&I and supporting activities, in line with the recommendations of the high-level group on Key Enabling Technologies (KET)3 and in preparation of Horizon 2020, the future common framework for research and innovation4.



The participants included the coordinators of European collaborative research projects on batteries, leaders of major pilot activities for battery manufacturing, representatives of European companies from the field of energy storage cell and battery technology as well as research institutions and delegates of national and regional governments and all the involved Directorates General of the European Commission. Preliminary results of the workshop, the agenda and all presentations of this workshop [are accessible through this link](#).

Happy New Year, and welcome to the second edition of the CAPIRE newsletter.

CAPIRE is a Coordination Action launched within the FP7 program to sustain and put into practice the realization of the Public Private Partnership (PPP) [European Green Cars Initiative](#).

The project activities focus on two major fields: a careful consideration of the implementation paths of the PPP, and the identification of technology roadblocks and the respective research needs for the Horizon 2020 program. The major outcomes will be dedicated to roadmaps based on a detailed, in-depth analysis of R&D needs, which will outline respective milestones and supporting measures. The goal is to increase the competitiveness of global European Automotive Industry in the domain of energy efficient, safe, non-polluting and CO2-free vehicles through a partnership approach between industry and public authorities.

The project had its 2nd annual coordination meeting at Iberdrola in Madrid this month marking the beginning of the 3rd year. We have passed several milestones successfully and comprehensive reports are now available to download from our [website](#). The project was also involved in a number of dissemination activities, some of which are highlighted in this issue.

EV market study with Solvay MBA School

**"WHAT DRIVES EV TRANSITION?"**





This project follows on from a similar one undertaken by CASS Business School in London. A team of five MBA candidates from Solvay Brussels School Economics and Management was chosen to take on the project as part of their International Business Field Project (IBFP).

They were asked to organize a workshop where the representatives of the CAPIRE partners, key personalities, and stakeholders the students had interviewed were invited to discuss the need to investigate current business models for Electric Vehicles (EVs) and possibly suggest new ones.

The project report is a detailed account of the progress of the Solvay team from the initial diverging stage to the culminating workshop at the convergence stage. It indicates the learning curve the students underwent and how they were able to utilize the learning from the classroom and apply them to a real world scenario, while undertaking the novel experience of organizing a workshop for notable companies, stakeholders and academics in order to deliver the goals of their project. This workshop was held at the Solvay Brussels School of Economics and Management, on June 8, 2012.

THE FINAL REPORT IS AVAILABLE FOR DOWNLOAD 



## EUROPEAN GREEN CARS INITIATIVE:

### build critical mass and identify synergies to improve performance

In view of contributing to coherence among EC funded activities in the domain of energy efficient, safe, non-polluting and CO2-free vehicles, a clustering event for projects launched under the European Green Cars Initiative Public Private Partnership (EGCI PPP) was held in Brussels on 11-12 July 2012. Over 50 projects have already been launched under this initiative; further ones will be launched in the forthcoming months, within the framework of FP7.

Several thematic sessions have explored the entire EGCI spectrum and provided many opportunities for interactive discussions. All presentations are available on [the EGCI website](#).

Abstract of all projects are also contained in the brochure "Project Portfolio European Green Cars Initiative PPP".

This workshop was prepared on behalf of the EC by the Coordination Actions "PPP Implementation for Road Transport Electrification" ([CAPIRE](#)) and "Information and Communication Technologies for the Full Electric Vehicle" ([ICT4FEV](#)).



The 2-day workshop objectives were to:

- Build a critical mass of activities within the EGCI,
- Identify potential synergies and relevant topics for further cooperation,
- Improve the performance of individual projects.

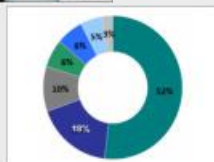


### Today's Structures and Methodologies for Automotive RTD Funding

In 2012 AVL and the WP1 partners finished the analysis of structures and methodologies for funding automotive research in Europe. The results provide a clear picture of the available instruments for collaborative road transport research projects in Europe, including a survey among experienced research managers. In addition they investigated already finished research projects regarding the key question: What progress has been made since the project had ended? Below are the links to the presentation given at TRA2012 conference and the three reports published on the CAPIRE website:

### Vehicle Electrification Roadmaps

CAPIRE detailed roadmaps and recommendations guide the R&D of the Automotive Industry, Automotive Suppliers and Automotive Engineering Companies in the framework of FEV and HEV developments. Drafted by ERTRAC/EPoSS/SmartGrids, an updated version of the vehicle electrification roadmap was delivered to the PPP Green cars and the EC in order to build up the EGCI horizon 2020 research vision and to feed EC FP8 funded projects Calls. The validation of these reference roadmaps was achieved through a consultation process and dedicated workshops involving major European stakeholders and European Technology Platforms. A printed version of the document was distributed to a large group of stakeholders at the PPP Info days, the EC-EGCI clustering meeting and other key events held in 2012.



## Long Distance Road Transport and Logistics Roadmaps

CAPIRE joined forces with ERTRAC and contributed to the refinement of European roadmaps on Long distance road transport and Logistics, which are jointly published by ERTRAC and EGCI and serve as major input and recommendations for future research calls under the Horizon 2020 programme. The roadmap on Long distance transport has been renamed "European Roadmap on Heavy Duty Trucks" to better reflect that many heavy commercial vehicles are used for regional distribution, construction related transport and within urban areas, e.g. for waste and recycling transports. Five innovations domains have been identified and their respective milestones and contributions to overall targets are detailed in the document. As a follow-up on the Logistic roadmap also published by the EGCI, work has continued by detailing the research and innovation challenges within city logistics, which was identified as a weak link in the overall chain of end-to-end sustainable transports. The work on "Clean City Logistics" is ongoing and lead by Transport for London and CAPIRE will deliver a first version in May 2013. CAPIRE will also in this area liaise with ERTRAC and other ETPs to promote the widest anchoring possible for this challenging area.



	2010	2012	2014	2016	2018	2020	2022	2024	2026	2028	2030
Market											
Business											
Policy											
Technology											
Infrastructure											
Energy											
Environment											
Society											
Security											
Health											
Quality of life											

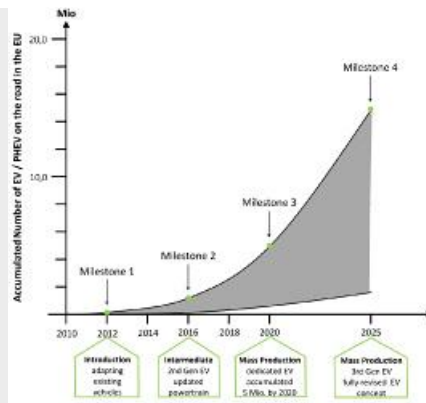
## Other dissemination actions

[TRA 2012](#) - Athens,

[Spanish Green Cars 2012 & CIP ICT PSP smart electromobility event](#) - Vitoria-Gasteiz (SPAIN),

[EEVC 2012/ EU Project Day on eMobility](#) - Brussels,

[EUCAR Conference 2012 \(Poster\)](#) - Brussels.



## Assessment of existing PPP models



A report is now available which reviews Public-Private Partnerships (PPPs) and similar initiatives which directly involve the public and private sectors in individual, selected countries in Europe and around the world where R&D into green mobility and transportation solutions are being promoted by governments and local authorities.

In an increasingly competitive global environment, governments around the world are focusing on new ways to finance projects, build infrastructure and deliver services. PPPs are becoming a common tool to maximizing efficiencies and innovations of industry and private enterprise.

The aim of this activity has been to glean as much information as possible concerning the successful implementation of such innovative solutions, and assess the business models which have been adopted in each of the countries selected, in order to facilitate the implementation of initiatives with similar objectives on a pan-European level.

[Report available on CAPIRE Website](#)



## CAPIRE Consortium

AVL List (AT), CRF (IT), Volvo Technology Corporation (SE), VDI/VDE-IT (DE), Robert Bosch GmbH (DE), VALEO (FR), IBERDROLA (ES), Transport for London (UK), Continental Teves AG (DE), HIDRIA d.d. (SL), Procter & Gamble Eurocor (BE), TÜV Rheinland Consulting GmbH (DE), SOLARIS Bus & Coach (PL). The consortium is led by Renault.



## ANNOUNCEMENTS AND UPCOMING

**European Green Vehicle Initiative Association launch:** On March 6 in Brussels, in the framework of the annual conference of ERTRAC, the new association EGVIA will be officially launched: this non-profit association will support the European Green Vehicles Initiative Public-Private Partnership, by gathering industry and research stakeholders interested in setting the priorities for the PPP. More info and registration will be available soon on [the ERTRAC website](#).

**Joint EC / European Green Cars Initiative Workshop 2013 - Electric Vehicle Batteries: Moving from Research Towards Innovation - April 2013, Brussels.**

**AMAA 2013 - Smart Systems for Safe and Green Vehicles**  
17-18 June 2013 Kaiserin Friedrich-House, Berlin (Germany)

**EVS27, the World Electric Vehicle Symposium and Exhibition** on 17-20 November in Barcelona, organized by World Electric Vehicle Association (WEVA), is recognized as the premier event for academic, government and industry professionals involved in electric drive technologies.

**TRA2014 Transport Research Arena 2014 Transport Solutions: from Research to Deployment - Innovate Mobility, Mobilise Innovation!** 14-17 Apr 2014 Paris La Défense (France). TRA is the major conference on transport in Europe, supported by the European Commission, the Conference of European Road Directors, and the three European Technology Platforms.