

**ICT Green Cars 2013**

FP7-2013-ICT-GC



**Integrated Control of Multiple-Motor and Multiple-Storage Fully Electric Vehicles**

**Deliverable 1.6**

**Year 2 Dissemination Report**

## DOCUMENT INFORMATION

Public

Authors	Giovanni De Filippis (University of Surrey)
Responsible person	Giovanni De Filippis (University of Surrey)
Deliverable nature	Report
Status	Final

## Change History

Version	Date	Description	Issued by
1.0	15/10/2015	Final version	Giovanni De Filippis
1.1	19/10/2015	Update and finalization	Matthias K. Scharrer



**Content**

**1 INTRODUCTION..... 4**

**2 COORDINATION OF DISSEMINATION ACTIVITIES..... 4**

**3 ICOMPOSE WEBSITE..... 5**

**4 RESEARCH AND TECHNOLOGY DISSEMINATION ACTIVITIES ..... 6**

**5 PROMOTION AND OUTREACH ACTIVITIES..... 8**

**6 DISSEMINATION ACTIVITIES FOR YEAR 3 ..... 9**



## 1 Introduction

This document describes the public communication and presentation activities carried out during the second year of the iCOMPOSE project.

The report is organised in the following five sections: Section 2 outlines the activities in relation to the management and planning of the dissemination activities. Section 3 provides a brief overview on the project logo and the project website. The technical presentations and publications prepared in the second year are detailed in section 4. Section 5 describes the activities to promote and increase the visibility of the iCOMPOSE project, and section 6 provides an outlook on the dissemination activities planned for year 3.

## 2 Coordination of dissemination activities

The dissemination activities of the iCOMPOSE consortium are planned to achieve the widest possible dissemination by targeting different audiences, including researchers, general public and media. All consortium partners are involved in dissemination activities. The leader of the corresponding Work Package (WP) 1 “Project management and Dissemination” is the project coordinator, VIRTUAL VEHICLE Competence Center (VIF). All consortium partners are involved in the dissemination tasks of WP 1.

In the second year, the dissemination activities were discussed and ratified during the two formal consortium meetings:

- The iCOMPOSE First Year Review Meeting took place at the European Commission in Brussels on November 5<sup>th</sup> and 6<sup>th</sup> (2014);
- On May 26<sup>th</sup> (2015) the semi-annual general assembly meeting of the iCOMPOSE project took place in Graz. All partners presented the current status of the WPs as well as the contributions and next steps.

### 3 iCOMPOSE website

The project website (Figure 3-1) has been designed and created by VIF and it was launched on 11.11.2013. The website is registered in the eu-domain area as [www.i-compose.eu](http://www.i-compose.eu). In addition to a public domain, the website contains a restricted access area available only to the project partners. The restricted area is designated for storing and sharing all project documents between partners on a secure server. The secure server is physically located at Virtual Vehicle, Graz (Austria). The project website is continuously updated with news and official meeting dates.



Figure 3-1: 4th Generation EV Cluster Meeting in Graz

## 4 Research and technology dissemination activities

Table 1 summarises the conferences and journal papers at which consortium partners presented the iCOMPOSE project and the results of the second year.

Table 1 Conferences and journal papers produced during the second year

No.	Authors, Title	Event and status	Partners involved
1.	D. Steenbeke, "The importance of in-vehicle networking - Knowledge gained applying FlexRay in Flanders' DRIVE research projects"	In-vehicle networking seminar, Antwerp, 2014-05-13	FDRIVE
2.	D. Watzenig, "Dependable Power Computing for Future Automated Driving"	Conference, Tech.AD, Berlin, 2015-02-26	VIF
3.	R. Chaari, M. Dieudonné, A. Toth, R. Kratzing, "AQUEOUS SUPERCAPACITORS SOLUTIONS FOR HEV APPLICATIONS"	ESSCAP Conference, Brasov, 2015-04-24	HUT, IVI
4.	R. Kratzing, "Dual mode energy storage using multicore technology"	Workshop, 4 <sup>th</sup> Generation Cluster Electric Vehicle, Graz, 2015-05-27	IVI
5.	W. De Nijs, "Energy efficient control allocation for a full electric vehicle"	IQPC Conference, Advanced All Wheel Drive Systems, Frankfurt, 2015-06-22	FDRIVE
6.	D. Watzenig, "iCOMPOSE project and 4 <sup>th</sup> Generation EV cluster presentation"	Conference, IAVSD2015, Graz, 2015-08-21	VIF
7.	J. De Smet, "Evoque presentation"	Conference, IAVSD2015, Graz, 2015-08-21	FDRIVE
8.	W. De Nijs, "Thermal design and testing of a high power Li-ion battery pack"	Conference, IQPC AutoRenew, Berlin, 2015-09-28	FDRIVE



9.	D. Watzenig, "iCOMPOSE project and 4 <sup>th</sup> Generation EV cluster presentation"	Conference, ARTEMIS Technology Conference (ATC), Turin, 2015-10-07	VIF
10.	A. M. Dizqah, B. Lenzo, A. Sorniotti, P. Gruber, S. Fallah, J. De Smet, "A Fast and Parametric Torque Distribution Strategy for Four-Wheel-Drive Energy-Efficient Electric Vehicles"	Journal paper, IEEE Transactions (under review)	SURREY, FDRIVE
11.	A. Tota, B. Lenzo, A. Sorniotti, P. Gruber, S. Fallah, M. Velardocchia, E. Galvagno, J. De Smet, "Yaw Rate and Sideslip Control through Integral Sliding Modes"	Journal paper, IEEE Transactions (under review)	SURREY, FDRIVE
12.	A. Sorniotti, P. Barber, "Control systems for driven vehicles"	Book Chapter, "Automated Driving – Safer and more efficient future driving", Eds. M. Horn, D. Watzenig, (to be published in early 2016)	SURREY, JLR
13.	J. Plihal, P. Nedoma, S. Messner, "Automated driving from the view of technical standards"	Book Chapter, "Automated Driving – Safer and more efficient future driving", Eds. M. Horn, D. Watzenig, (to be published in early 2016)	SKODA, VIF

## 5 Promotion and outreach activities

The promotion activities of the consortium are targeted towards wider audiences, including the general public and media. The first promotion activity was the launch of the project website (<http://www.i-compose.eu>) as described in section 3. The link to the project website has located in EU internet resources related to FP7 programme:

- Official Internet portal of the European Green Car Initiative, <http://www.green-cars-initiative.eu>
- Press release in relation to the clustering of FP7 projects: *FP7 projects eDAS, iCOMPOSE and INCOBAT started – and formed the cluster “4th Generation EV”* (<http://www.i-compose.eu/iCompose/index.php/dissemination-new/public-download?download=1:cluster-press-release>)
- iCOMPOSE newsletter, which summarises the highlights of the first year ([www.i-compose.eu/iCompose/index.php/dissemination-new/public-download?download=2:newsletter-october-2014](http://www.i-compose.eu/iCompose/index.php/dissemination-new/public-download?download=2:newsletter-october-2014))

As listed above, iCOMPOSE is part of the 4<sup>th</sup> generation electric vehicle cluster together with the FP7 projects INCOBAT, eDAS, BATT2020 and IMPROVE (Figure 5-1). Several cluster meetings were arranged during the second year on WebEx. On May 27<sup>th</sup> the 4<sup>th</sup> Generation Electric Vehicle (EV) Cluster Meeting took place in Graz. The VIRTUAL VEHICLE Research Center invited European experts in the field of electric vehicles.

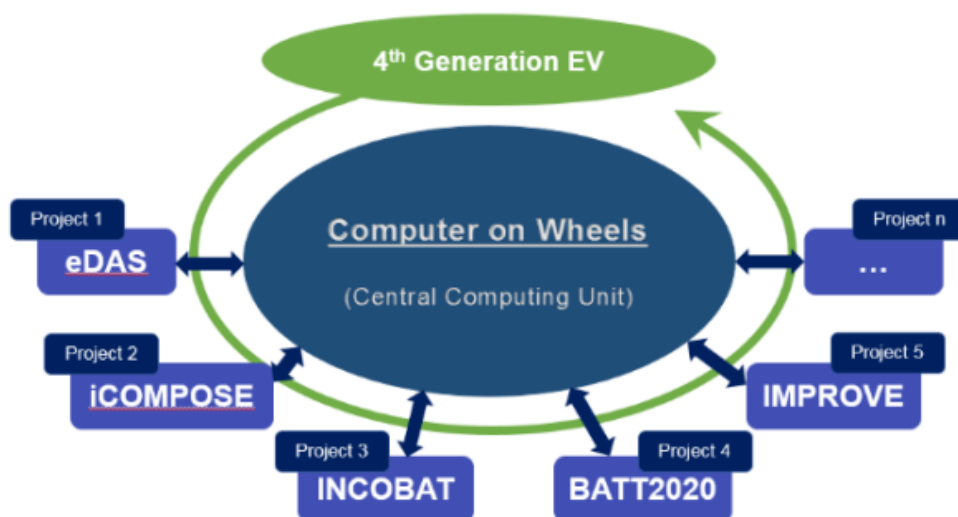


Figure 5-1: 4<sup>th</sup> Generation EV – Project Cluster “Computer on Wheels”





## 6 Dissemination activities for year 3

The preliminary plan of the dissemination activities for the third year of the project is subject to approval by all the consortium members during the annual review meeting in November 2015. At the time of writing the report, the following dissemination activities are planned and further activities will be added after the second annual review meeting:

- Publications in leading scientific journals by SURREY, INF and FDRIVE on advanced control allocation algorithms for fully-electric vehicles
  
- Dissemination Events
  - Evoque presented on Open Bedrijvendag in Leuven, Belgium, October 4<sup>th</sup>, 2015
  - International Conferences by IVI on: (i) dual mode energy storage using multicore technology, (ii) optimal power split of dual mode energy storage systems, (iii) model predictive controller for high efficient DC-DC control