Electromobility+

PROJECT FINAL REPORT

Grant Agreement number:	**287143**
Project acronym:	**Electromobility+**
Project title:	**ERA-NET Plus on Electromobility**
Funding Scheme:	**FP7-CSA-CA**
Period covered:	**from 15 December 2010 to 14 December 2015**

Name of the scientific representative of the project's co-ordinator , Title and Organisation:

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4.1 Final publishable summary report

ERA-NET Plus Electromobility+ aimed at successful implementation of a large-scale transnational call for project proposals on “Europewide electromobility for 2025” jointly funded by the participating national and regional programmes and the European Commission (EC).

By definition an ERA-NET Plus Action is divided into two phases of activities:

- **Phase 1** of the ERA-NET Plus (i.e. the first reporting period): Activities related to the call preparation and publication, the proposal evaluation and the management of the joint call until the formal release of the short list of selected transnational projects and of the funding decisions from the national or regional programmes.
- **Phase 2** of the ERA-NET Plus (all following periods from reporting period 2): Actual funding of the selected transnational research projects, for which by far the largest part of the FP7 EC contribution is destined.

In the year of 2010, eleven European countries, regions and the European Commission (EC) set up the pan-European initiative Electromobility+ to fund 18 joint research and innovation projects. With this approach, the initiative succeeded in bundling individual national activities and public research funding programmes and establishing a network of relevant authorities and stakeholders in Europe.

The R&D projects have been concluded by June 2015. All in all, the above mentioned eleven European countries and regions brought together approx. 12 M EUR of public funding. These were France, Germany, The Netherlands, Austria, Finland, Norway, Sweden, Denmark, Poland, Flanders (Belgium) and Piedmont (Italy). The EC additionally contributed round 6 M EUR to the funding of transnational projects within the framework of the ERA-NET Plus scheme.

Overview on the transnational projects funded and the funding organisations involved:

Project acronym	Country/region	Funding organisations	Website
EVERSAFE	SE DE	VINNOVA BMVI	www.eversafe-project.eu
DAME	NL DE	Agency NL / RVO BMWi	www.project-dame.eu
eMAP	DE FI PL	BMVI FTA NCBR	www.project-emap.eu
WIC2IT (project terminated mid-2013)	FR DE DK	ANR BMWi DASTI/IFD	
ABattReLife	FR DE NL	ADEME BMWi Agency NL / RVO	www.abattrelife.eu
NEMO	NL DK DE	Agency NL / RVO DASTI / IFD BMWi	www.nemo-project.eu
MaLiSu	DE SE AT	BMWi VINNOVA FFG	www.iws.fraunhofer.de/malisu
FCCF-APU	DE SE BE-VLG DK	BMWi VINNOVA IWT DASTI / IFD	www.fccf-apu.eu
SELECT	DE DK AT	BMVI DASTI / IFD FFG	www.select-project.eu
COMPETT	NO NO DK AT	RCN TRANSNOVA DASTI / IFD FFG	www.compett.org
DEFINE	AT PL DE	FFG NCBR BMVI	www.ihs.ac.at/projects/define

EVREST	FR DE AT	ADEME BMWi FFG	www.evrest-project.eu
MATLEV	PL DE	NCBR BMWi	www.matlev.eu
SCelecTRA	FR DE AT	MEDDE BMVI FFG	
CACTUS	PL DE	NCBR BMVI	www.cactus-emobility.eu
K-VEC	IT-21 DE	FINPIE BMWi	www.kvec.eu
EV-STEP	FR DK DE	MEDDE DASTI / IFD BMVI	www.ev-step.com
Speed for SME's	AT DE	FFG BMWi	www.rally-e.at
E-FACTS	DE NL SE	BMWi Agency NL / RVO VINNOVA	

Electromobility+ has delivered tangible and applicable results for both policy makers and stakeholders from industry, academia and municipalities. The results of the funded research projects have helped to significantly broaden the knowledge base on electric mobility and have delivered important stepping stones for a wider uptake and roll out of e-mobility solutions throughout Europe. Moreover, Electromobility+ has provided policy makers and stakeholders across Europe with a variety of tools, scenarios, guidelines and models for introducing e-mobility. Specific results include:

- optimized management of electric vehicles in commercial fleets
- simulation of the impact of electric vehicles on the electricity grid and their optimal integration
- simulation of the impact of the introduction of electric vehicles on the levels of greenhouse gas and further emissions produced in road transport
- performance of electric vehicles in accidents and resulting guidelines for emergency and towing services

- innovative solutions for extending the range of electric vehicles by optimizing charging infrastructure
- efficient, cost-effective and sustainable approaches to battery recycling, charging and swapping and the application of super capacitors
- innovative materials for light-weight structures for the construction of electric vehicles
- optimization of the relation between material structure and battery performance.

Dissemination activities and exploitation

An important element for communication and information is the Electromobility+ website, which is available at http://electromobility-plus.eu/.

Information on the website was continuously updated as the initiative progressed. The website provides information about the Electromobility+ initiative and the individual R&D projects funded, as well as documents published by and about Electromobility+ and information about major events, e.g. the Electromobility+ conference held in Berlin in May 2015 and final events of the transnational R&D projects.

During the project duration two main events were organized and implemented by the Electromobility+ consortium:

- ***Mid-term event | February 2014 | Copenhagen***

The mid-term event took place in Copenhagen on 6-7 February 2014 and was hosted by the Danish partner DASTI. The target group that has been defined for the event comprised the national and regional funding programs, representatives of the research projects, the Electromobility+ Advisory Panel (AP) and the European Commission. The event was designed as the intermediate key event of the Electromobility+ initiative.

About 60 people attended the mid-term event. The participants took the opportunity to get informed about the content, progress and first results of the transnationally funded Electromobility+ research projects. After each presentation, the audience could address questions to the speaker for further clarification or to highlight linkages, which has contributed well to the active exchange among the projects and thus also to the overall success of the event. The partaking Advisory Panel members (representing Hyer, Polis, ER-TRAC, EUCAR, CAPIRE) and EC representative contributed with their feedback to the projects at the meeting, but at the same time serve as multipliers for spreading information to their networks.

More information about the mid-term event can be found at http://electromobility-plus.eu/.

- ***Electromobility+ conference | May 2015 | Berlin***

The Electromobility+ conference took place in Berlin on 20 May 2015 and was hosted by the German Ministry of Transport and Digital Infrastructure (BMVI) and the German Ministry of Economic Affairs and Energy (BMWi), both funding the Electromobility+ initiative.

Some 150 people attended the event, representing the national and regional funding programs, the research projects funded, the Electromobility+ Advisory Panel and the European Commission as well as further interested scientists and stakeholders.

The research and innovation projects presented their main findings and results at the conference in two ways: on the one hand by means of presentations of key results and on the other hand by means of individual posters for each of the projects ("market place").

In the afternoon session speakers and panel sessions focused on the future perspective for electric mobility in Europe and on what is needed to facilitate a further uptake. This included visions on and ingredients for an upcoming ERA-NET Cofund initiative in the field of electric mobility.

During the conference, its breaks and the concluding reception, the conference participants had the opportunity to network and exchange information with e-mobility specialists from a many European countries and the US as well as the European Commission.

More information about the Electromobility+ conference can be found at http://electromobility-plus.eu/.

During the project duration two main brochures were prepared and published by the Electromobility+ consortium:

- ***"Electromobility+ - Transnational Projects"***
- ***"Electromobility+ 2010-2015. Results"***

Both brochures give detailed information and provide a concise overview of the set-up, the activities and results of the 18 funded transnational R&D projects.

Printed copies of the brochure were distributed to the EC and to further relevant stakeholders. The brochure has also been used by the GB members and the R&D projects for their dissemination purposes.

The brochures can be found as attachments (PDF-versions) to this report as well as on the project website at http://electromobility-plus.eu/.

All dissemination activities during the project duration 15 December 2010 – 14 December 2015 can be found in Section A – Table A2 (page 13 f).

Potential impact and lookout

The need for transnational collaboration in Europe for advancing electric mobility

The European transport system is currently facing increasing challenges particularly regarding air pollution and climate change. In this context, electrification of vehicles is a forward-looking option which provides significant potential for reducing transport-related noise emissions, air pollution and greenhouse gases.

Setting the conditions for lifting electric mobility to the transport mainstream is a pan-European objective. It meets a wide range of contemporary European objectives on sustainable transport, environmental and climate protection, alternative energy and health policies. Moreover, incentives for European economic value added will be set, suitable for creating additional green jobs.
Most of these policies are also relevant for national, regional and local levels throughout Europe in their endeavour towards a sustainable development.

To implement these goals, feasible solutions have to be developed – specifically for urban and suburban areas. In recent years, a variety of initiatives for advancing electric mobility have evolved in European countries, regions and cities. As a result, the introduction of e-vehicles in the market has developed in a promising manner. However, in order to reach a notable breakthrough and widespread uptake of e-mobility in Europe, further progress and comprehensive policy initiatives are necessary. Support for research, innovation, and joint policy initiatives can make a significant contribution towards achieving these objectives.

For more information

www.electromobility-plus.eu

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Project Duration: 60 Months (15 December 2010 – 14 December 2015)

Programme: Seventh Framework Programme, ERA-NET Plus initiative

Project Partners

TUEV RHEINLAND CONSULTING GMBH
www.tuv.com

MINISTERE DE L'ECOLOGIE, DU DEVELOPPEMENT DURABLE ET D'ENERGIE
http://www.developpement-durable.gouv.fr/

MINISTERIE VAN ECONOMISCHE ZAKEN
https://www.rijksoverheid.nl/ministeries/ministerie-van-economische-zaken

BUNDESMINISTERIUM FUER VERKEHR; INNOVATION UND TECHNOLOGIE
https://www.bmvit.gv.at/

LIIKENNEVIRASTO
http://www.liikennevirasto.fi/

NORGES FORSKNINGSRAD
http://www.forskningsradet.no/no/Forsiden/1173185591033

VERKET FÖR INNOVATIONSSYSTEM
http://www.vinnova.se/sv/

TRANSPORTMINISTERIET
http://www.trm.dk/da/

NARODOWE CENTRUM BADAN I ROZWOJU
http://www.ncbr.gov.pl/

BUNDESMINISTERIUM FUER WIRTSCHAFT UND ENERGIE
http://www.bmwi.de/

BUNDESMINISTERIUM FUER VERKEHR UND DIGITALE INFRASTRUKTUR
http://www.bmvi.de/

OESTERREICHISCHE FORSCHUNGSFOERDERUNGSGESELLSCHAFT MBH
https://www.ffg.at/

AGENTSCHAP VOOR INNOVATIE DOOR WETENSCHAP EN TECHNOLOGIE
http://www.iwt.be/

STATENS VEGVESEN
http://www.vegvesen.no/

AGENCE NATIONALE DE LA RECHERCHE
http://www.agence-nationale-recherche.fr/

AGENCE DE L'ENVIRONNEMENT ET DE LA MAITRISE DE L'ENERGIE
http://www.ademe.fr/

FORSKNINGS- OG INNOVATIONSSTYRELSEN
http://ufm.dk/minister-og-ministerium/organisation/styrelsen-for-forskning-og-innovation

MINISTERIE VAN INFRASTRUCTUUR EN MILIEU
https://www.rijksoverheid.nl/ministeries/ministerie-van-infrastructuur-en-milieu

FINPIEMONTE S.P.A.
https://www.finpiemonte.it/

INNOVATIONSFONDEN
http://innovationsfonden.dk/da

4.2 Use and dissemination of foreground

Section A (public)

TEMPLATE A1: LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS, STARTING WITH THE MOST IMPORTANT ONES										
NO.	Title	Main author	Title of the periodical or the series	Number, date or frequency	Publisher	Place of publication	Year of publication	Relevant pages	Permanent identifiers[1] (if available)	Is/Will open access[2] provided to this publication?
1	-	-	-	-	-	-	-	-	-	-
2	-	-	-	-	-	-	-	-	-	-
3	-	-	-	-	-	-	-	-	-	-

[1] A permanent identifier should be a persistent link to the published version full text if open access or abstract if article is pay per view) or to the final manuscript accepted for publication (link to article in repository).

[2] Open Access is defined as free of charge access for anyone via Internet. Please answer "yes" if the open access to the publication is already established and also if the embargo period for open access is not yet over but you intend to establish open access afterwards.

TEMPLATE A2: LIST OF DISSEMINATION ACTIVITIES								
No.	**Type of activities[3]**	**Main leader**	**Title**	**Date/Period**	**Place**	**Type of audience[4]**	**Size of audience**	**Countries addressed**
1	Website	TUV	http://www.transport-era.net/electromobility.html	since Dec 2010, constantly updated		Scientific Community, Industry, Civil Society, Policy makers		Europe
2	Website	TUV	http://electromobility-plus.eu/	from 26 April 2013		Scientific Community, Industry, Civil Society, Policy makers		Europe
3	Media briefing	MEDDE (PREDIT)	French official press meeting	15 Dec 2010	Paris	Scientific Community Industry		France
4	Publication	TUV (E+ in cooperation with ENTII)	ENT Newsletter, X2/10, special edition dedicated to Electromobility+	Dec 2010		Scientific Community, Industry, Policy makers,		Europe
5	Web	TUV	Call announcement on TRKC website	21 Dec 2010		Scientific Community, Industry, Policy makers		Europe
6	Press release	BMVIT	Press information at the Austrian press	3 Jan 2011		Scientific		Austria

[3] A drop down list allows choosing the dissemination activity: publications, conferences, workshops, web, press releases, flyers, articles published in the popular press, videos, media briefings, presentations, exhibitions, thesis, interviews, films, TV clips, posters, Other.

[4] A drop down list allows choosing the type of public: Scientific Community (higher education, Research), Industry, Civil Society, Policy makers, Medias, Other ('multiple choices' is possible).

			agency APA-OTS ORIGINAL-TEXT-SERVICE concerning call announcement			Community, Industry, Civil Society, Policy makers,		
7	Publication	NCBR	Call announcement in the Newsletter of the Transport NCP “GRANTY EUROPEJSKIE”	Jan 2011		Scientific Community, Industry, Policy makers,		Poland
8	Publication	MEEDE	Call announcement in MOV‘EO-INTERNATIONAL Newsletter No. 2	Jan 2011		Scientific Community, Industry, Policy makers		France
9	Publication	MEEDE	Call announcement in “PCN Transport” Information Letter No. 25 by the NCP for transport	Jan 2011		Scientific Community, Industry, Policy makers		France
10	Presentations	MEEDE	CAPIRE Kick off meeting; information about Electromobility+ call by Ralf Engel	12 Jan 2011	Brussels	Scientific Community Industry		Europe
11	Conference	TUV	Electromobility+ Information and Brokerage event	13 Jan 2011	Cologne	Scientific Community Industry	200	Europe
12	Presentations	TUV, MEEDE	ENTII Plenary Group, information about Electromobility+ call	14 Jan 2011	Cologne	Policy makers		Europe
13	Publication	TUV	Call announcement in the international journal “Automotive News Europe”	24 – 27 January 2011		Scientific Community, Industry, Policy makers		Europe
14	Web	TUV	Call announcement on Netwatch website	From 25 Jan 2011		Scientific Community, Industry, Policy makers		Europe
15	Web	TUV	Call announcement on KOWI website and in electronic newsletter (AiD)	26 January 2011		Scientific Community, Industry, Policy makers		Germany
16	Article in popular press	NCBR	Call announcement in the newspaper Wyborcza	7 Feb 2011		Scientific Community, Industry, Civil Society, Policy		Poland

						makers		
17	Presentations	MEDDE	ERTRAC Plenary meeting, presentation by B. Duhem ""A transnational research programme in the frame of Eranet+"	1 March 2011	Brussels	Scientific Community, Industry, Policy makers		Europe
18	Presentation	MEDDE	ENTII Executive Board 20, Information about the status of Electromobility+ call	17 March 2011	Brussels	Policy makers		Europe
19	Presentation	MEEDE	French-German Seminar on electromobility, presentation about Electromobility+	13 May 2011	Ludwigsburg	Policy makers		France, Germany
20	Presentation	TUV	Presentation about Electromobility+ at EARPA conference	18 Oct 2011	Brussels	Scientific Community		Europe
21	Publication	BMVIT / GSV	Article in 2011 Yearbook of the Austrian Association for Transport and Infrastructure	Dec 2011	Vienna	Scientific Community, Industry, Policy makers		Austria
22	Presentation	MEDDE	Presentation of Electromobility+ at 31st meeting of the Programme Committee "FP7-TRANSPORT"	27 March 2012	Brussels,	Policy makers		Europe
23	Presentation	MEEDE	Presentation of Electromobility+ during ENTII end conference	17 April 2012		Scientific Community, Industry, Policy makers		Europe
24	Presentation	TUV	Presentation of Electromobility+ at the workshop "NL meets NRW" during the NoAE project days	18 April 2012	Düsseldorf	Scientific Community, Industry, Policy makers		Germany, The Netherlands
25	Conference	MEEDE	Presentation of Electromobility+ during strategic session (STS4) "Cooperation of European, national and regional programmes in surface transport",	24 April 2012	Athens	Scientific Community, Industry, Policy makers		Europe
26	Publication	TUV	Electromobility+ article in ENTII newsletter	April 2012		Scientific Community, Industry, Policy makers		Europe
27	Publication	EC, TUV	EC article on Electromobility+ as an element of the European Green Cars Initiative, http://ec.europa.eu/research/infocentre/article_en.cfm?artid=25953	July 2012		Scientific Community, Industry, Civil Society, Policy makers		Europe
28	Web	FTA	Information about eMAP project on FTA	21 Aug 2012		Scientific		Finland

			website			Community, Civil Society		
29	Web	FTA	eMAP project website http://www.project-emap.eu/	From Oct 2012		Scientific Community, Policy Makers		Europe
30	Publication	BMVI	NOW Annual Report/Jahresbericht 2012 (available in German and English)	Jan 2013	Berlin	Scientific Community, Industry, Policy makers		Germany, Europe
31	Web	DASTI	Information on E+ projects with Danish partner on DASTI web site	Jan 2013		Scientific Community, Industry, Policy makers		Denmark
32	Web	DASTI	Information on E+ midterm event February Copenhagen	Jan 2013		Scientific Community, Industry, Policy makers		Denmark
33	Publication	DASTI	DASTI – DCSR annual report 2013 (available in Danish and English)	March 2013		Scientific Community, Industry, Policy makers		Denmark
34	Website	BMWi/PT-DLR	Abstract and contacts of the EM+ projects funded by BMWi (http://www.pt-em.de/de/1567.php)	since April 2013		Scientific Community, Industry, Civil Society, Policy makers, Public		Germany
35	Presentation	NCBR	Presentation at Low-emission Energy Forum	19 Apr 2013	Warsaw	Scientific Community, Industry, Civil Society, Policy makers		Poland
36	Workshop/ presentation	MinIenM/RWS	ITS conference 4-7 June 2013 - Invited session, Objectives and Benefits of Transnational Funding Activities	6 June 2013	Dublin	Scientific Community, Industry, Policy makers	20	International
37	Exhibition	MEDDE	Carrefour du Predit – final conference of Predit4 programme, 1 panel dedicated to Electromobility+ in the Predit space	7-8 October 2013	Paris	Scientific Community, Industry, Civil Society, Policy makers	450 part.	France

38	Articles	MinIenM/RWS	Articles in the Dutch Magazine E-mobility About - Electromobillity + project NEMO - Electromobility + project ABattRelife	NEMO: September 2013 issue; ABattReLife: November 2013 issue		Scientific Community, Industry, Civil Society, Policy makers	100,000	Netherlands
39	Workshop	MinIenM/RWS	Joint event Era-net Smart Grids and Era-net Transport	4 November 2013	Utrecht	Other: consortium partners ENT, EM+ and EN Smart Grids	16	Countries involved in ENT/EM+ and EN Smart Grids
40	Conference	MinIenM/RWS	EVS 27 Chairman of E+ Governance Board attending, distribution of leaflets "E+ overview" and NEMO project showcase	17-20 November 2013	Barcelona	Scientific Community, Industry, Policy makers	2000	International
41	Workshop	MinIenM/RWS	EU-project Transform (procurement) - Era-net Transport and Electromobility+: possibilities for collaboration	3 December 2013	Rotterdam	Industry, Policy makers (municipalities, administration)	30	UK, Scandinavian countries, Netherlands
42	Presentation	VINNOVA	Swedish programme seminar Era Net Electromobility+ and the projects EVERSAFE, MALISU, FCCF-APU, E-FACTS http://www.vinnova.se/sv/Aktuellt--publicerat/Kalendarium/2013/131206-Programseminarium-Era-Net-Transport-Electromobility/	6 Dec 2013, 10-15h	Stockholm	Scientific Community, Industry, PA		Sweden
43	Presentation	MinIenM/RWS	Dutch Formula-e-Team, feedback and presentations	Periodically	The Hague	Dutch policy makers and stakeholders	20	Netherlands
44	Article (in Dutch Magazine E-mobility)	MinIenM/RWS	Electromobillity + project DAME http://smartemobility.nl/Emobility12014.pdf	Edition 14 (01/2014) March 2013		E-mobility community	100,000	Netherlands
45	Article	FTA, VTT	Vauhtia sähköiseen liikkumiseen Euroopassa – Speeding up electromobility in Europe	March 2014		Scientific Community, Industry, Civil Society, Policy makers		Finland (text in Finnish)
46	Presentation	BMVI	Second Forum of Low-Emission Economy	21 March 2014	Warsaw	Scientific Community, Industry, Civil	200 present, 15,000 via www	Poland, International

						Society, Policy makers		
47	Presentation	MinIenM	ENTIII Annual Conference (TRA associated event), Paris	15 April 2014	Paris	Policy makers		Global
48	Presentation	TUV	Transport Research Arena Paris, “ERA-NET Plus – Increasing the efficiency of research programmes with joint funding instruments”	16 April 2014	Paris	Scientific Community, Industry, Civil Society, Policy makers	Ca. 250	Global
49	Newsletter	TUV	Newsletter “Mobilität & Verkehr”, article “Ein Plus an Elektromobilität” (text in German language)	June 2014		Scientific Community, Industry, Policy makers, Media		Germany (text in German)
50	Presentation	TUV	ERTRAC Member State representatives workshop	5. June14	Birmingham	Scientific Community, Industry, Civil Society, Policy makers	25	Europe
51	Article	BMWi/PT-DLR	SELECT project, EEVC article “Needs, requirements and attitudes of specific commercial sectors in Denmark, Austria and Germany with respect to the use of electric vehicles in commercial transport”	July 2014		Scientific Community, Industry, Policy makers, Media		Global
52	Flyer (in EN language, based on articles in Dutch Magazine E-mobility)	MinIenM/RWS	Electromobillity + project DAME	September 2014		Audience International events, visitorsof E+ website		Global
53	Presentation	NCBR	Presentation at automotive industry meeting	1 October 2014	Opole	Scientific Community, Industry		Poland
54	Conference/Exhibition	BMWi	Vernetzungskonferenz Elektromobilität	19 – 20 November 2014	Berlin	Scientific Community, Industry, Policy makers, Media		Germany
55	Presentation/ conference	BMVIT	DEFINE Final project presentation	12 November 2014	Vienna	Consortium partners, political representatives, press,	80	AT, DE, PL

						researchers, interested general audience		
56	Presentation	NCBR	Presentation at Days of Innovation	4 December 2014	Puławy	Scientific Community, Industry		Poland
57	Presentation	TUV, RWS	EGVI PPP Partnership Board Meeting – Outlook Electromobility+ and next phase	16 January 2015	Brussels	Scientific Community, Industry, Civil Society, Policy makers	35	Europe
58	Presentation	TUV	ERTRAC Plenary meeting	2-3 March 2015	Brussels	Scientific Community, Industry, Civil Society, Policy makers	50	Europe
59	Publication	TUV	Brochure “Electromobility+ 2010-2015. Results”	April 2015		Scientific Community, Industry, Civil Society, Policy makers		Europe
60	Conference	MEDDE	Mobilité électrique en Europe et transition énergétique L'apport de cinq recherches transnationales soutenues par la France » Séminaire de restitution de recherches et mise en perspectives	15 April 2015	Paris La Défense	Scientific Communit, Industry, Civil Society, Policy makers, Medias	80	France
61	Conference	BMVI	eMap final event	19 May 2015	Berlin	Scientific Community, Industry, Civil Society, Policy makers	30	Europe
62	Conference	TUV, BMWi, BMVI	Electromobility+ Conference	20 May 2015	Berlin	Scientific Community, Industry, Civil Society, Policy makers,	150	Europe
63	Press release	BMWi	“BMVI und BMWi eröffnen Abschlussveranstal-tung der Föderinitiative	20 May 2015		Scientific Community,		Germany

			Electromobility+“			Industry, Civil Society, Policy makers, Medias, Other		
64	Press release	BMVI	“BMVI und BMWi eröffnen Abschlussveranstal-tung der Föderinitiative Electromobility+“	20 May 2015		Scientific Community, Industry, Civil Society, Policy makers, Medias, Other		Germany
65	Article	TUV	Newsletter “Update”, article “Internationale Electromobility+ Conference in Berlin” (text in German language)	03 June 2015		Scientific Community, Other		Germany
66	Presentation	Transnova	Electromobility Conference: Breakthrough for Electric vehicles! Learnings from a European full-scale laboratory	11-12 June 2015	Oslo	Scientific Community, Industry, Policy makers		Norway
67	Article	TUV, RWS	Article in ENT III Newsletter ”CONFERENCE ON FUTURE OF ELECTRIC URBAN MOBILITY IN BERLIN”	July 2015		Scientific Community, Industry, Policy makers		Europe
68	Publication	MEDDE	Electromobility+ Une collaboration transnationale de recherche au service du développement de la mobilité électrique Collection Le point sur	February 2016		Scientific Community, Industry, Policy makers		France

Section B (Confidential[5] or public: confidential information to be marked clearly)
Part B1

TEMPLATE B1: LIST OF APPLICATIONS FOR PATENTS, TRADEMARKS, REGISTERED DESIGNS, ETC.					
Type of IP Rights[6]:	Confidential Click on YES/NO	Foreseen embargo date dd/mm/yyyy	Application reference(s) (e.g. EP123456)	Subject or title of application	Applicant (s) (as on the application)
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

[5] Note to be confused with the "EU CONFIDENTIAL" classification for some security research projects.

[6] A drop down list allows choosing the type of IP rights: Patents, Trademarks, Registered designs, Utility models, Others.

Part B2

Type of Exploitable Foreground[7]	Description of exploitable foreground	Confidential Click on YES/NO	Foreseen embargo date dd/mm/yyyy	Exploitable product(s) or measure(s)	Sector(s) of application[8]	Timetable, commercial or any other use	Patents or other IPR exploitation (licences)	Owner & Other Beneficiary(s) involved
	Ex: New supercond uctive Nb-Ti alloy			*MRI equipment*	*1. Medical 2. Industrial inspection*	*2008 2010*	*A materials patent is planned for 2006*	*Beneficiary X (owner) Beneficiary Y, Beneficiary Z, Poss. licensing to equipment manuf. ABC*
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-

In addition to the table, please provide a text to explain the exploitable foreground, in particular:

- Its purpose
- How the foreground might be exploited, when and by whom
- IPR exploitable measures taken or intended
- Further research necessary, if any
- Potential/expected impact (quantify where possible)

[19] A drop down list allows choosing the type of foreground: General advancement of knowledge, Commercial exploitation of R&D results, Exploitation of R&D results via standards, exploitation of results through EU policies, exploitation of results through (social) innovation.

[8] A drop down list allows choosing the type sector (NACE nomenclature) : http://ec.europa.eu/competition/mergers/cases/index/nace_all.html

4.3 Report on societal implications

A General Information *(completed automatically when **Grant Agreement number** is entered.*	
Grant Agreement Number:	287143
Title of Project:	ERA-NET Plus on Electromobility
Name and Title of Coordinator:	Mr. Oliver Althoff

B Ethics	
1. Did your project undergo an Ethics Review (and/or Screening)? • If Yes: have you described the progress of compliance with the relevant Ethics Review/Screening Requirements in the frame of the periodic/final project reports? Special Reminder: the progress of compliance with the Ethics Review/Screening Requirements should be described in the Period/Final Project Reports under the Section 3.2.2 *'Work Progress and Achievements'*	***0Yes X No***
2. Please indicate whether your project involved any of the following issues (tick box) :	***YES***
RESEARCH ON HUMANS	
• Did the project involve children?	
• Did the project involve patients?	
• Did the project involve persons not able to give consent?	
• Did the project involve adult healthy volunteers?	
• Did the project involve Human genetic material?	
• Did the project involve Human biological samples?	
• Did the project involve Human data collection?	
RESEARCH ON HUMAN EMBRYO/FOETUS	
• Did the project involve Human Embryos?	
• Did the project involve Human Foetal Tissue / Cells?	
• Did the project involve Human Embryonic Stem Cells (hESCs)?	
• Did the project on human Embryonic Stem Cells involve cells in culture?	
• Did the project on human Embryonic Stem Cells involve the derivation of cells from Embryos?	
PRIVACY	
• Did the project involve processing of genetic information or personal data (eg. health, sexual lifestyle, ethnicity, political opinion, religious or philosophical conviction)?	
• Did the project involve tracking the location or observation of people?	
RESEARCH ON ANIMALS	
• Did the project involve research on animals?	
• Were those animals transgenic small laboratory animals?	
• Were those animals transgenic farm animals?	
• Were those animals cloned farm animals?	
• Were those animals non-human primates?	
RESEARCH INVOLVING DEVELOPING COUNTRIES	
• Did the project involve the use of local resources (genetic, animal, plant etc)?	
• Was the project of benefit to local community (capacity building, access to healthcare, education etc)?	
DUAL USE	

• Research having direct military use	
• Research having the potential for terrorist abuse	

C Workforce Statistics

3. Workforce statistics for the project: Please indicate in the table below the number of people who worked on the project (on a headcount basis).

Type of Position	Number of Women	Number of Men
Scientific Coordinator	1	1
Work package leaders	2	3
Experienced researchers (i.e. PhD holders)	approx. 3	approx. 6
PhD Students	-	-
Other	approx. 15	approx. 30

4. How many additional researchers (in companies and universities) were recruited specifically for this project?	-
Of which, indicate the number of men:	-

D Gender Aspects

5. Did you carry out specific Gender Equality Actions under the project?

○ Yes
X No

6. Which of the following actions did you carry out and how effective were they?

	Not at all effective				Very effective
❑ Design and implement an equal opportunity policy	○	○	○	○	○
❑ Set targets to achieve a gender balance in the workforce	○	○	○	○	○
❑ Organise conferences and workshops on gender	○	○	○	○	○
❑ Actions to improve work-life balance	○	○	○	○	○

○ Other:

7. Was there a gender dimension associated with the research content – i.e. wherever people were the focus of the research as, for example, consumers, users, patients or in trials, was the issue of gender considered and addressed?

○ Yes- please specify

X No

E Synergies with Science Education

8. Did your project involve working with students and/or school pupils (e.g. open days, participation in science festivals and events, prizes/competitions or joint projects)?

○ Yes- please specify

X No

9. Did the project generate any science education material (e.g. kits, websites, explanatory booklets, DVDs)?

X Yes- please specify: www.electromobility-plus.eu, 2 brochures

○ No

F Interdisciplinarity

10. Which disciplines (see list below) are involved in your project?

X Main discipline[9]: 2.1

X Associated discipline[9]: 2.2 | | Associated discipline[9]: 2.3

G Engaging with Civil society and policy makers

11a Did your project engage with societal actors beyond the research community? *(if 'No', go to Question 14)*	X ○	Yes No

11b If yes, did you engage with citizens (citizens' panels / juries) or organised civil society (NGOs, patients' groups etc.)?

X No

○ Yes- in determining what research should be performed

○ Yes - in implementing the research

○ Yes, in communicating /disseminating / using the results of the project

11c In doing so, did your project involve actors whose role is mainly to organise the dialogue with citizens and organised civil society (e.g. professional mediator; communication company, science museums)?	○ X	Yes No

12. Did you engage with government / public bodies or policy makers (including international organisations)

○ No

X Yes- in framing the research agenda

X Yes - in implementing the research agenda

X Yes, in communicating /disseminating / using the results of the project

13a Will the project generate outputs (expertise or scientific advice) which could be used by policy makers?

○ Yes – as a **primary** objective (please indicate areas below- multiple answers possible)

X Yes – as a **secondary** objective (please indicate areas below - multiple answer possible)

○ No

13b If Yes, in which fields?

Agriculture		Energy	x	Human rights	
Audiovisual and Media		Enlargement		Information Society	
Budget		Enterprise		Institutional affairs	
Competition		Environment		Internal Market	
Consumers		External Relations		Justice, freedom and security	
Culture		External Trade		Public Health	
Customs		Fisheries and Maritime Affairs		Regional Policy	
Development Economic and		Food Safety		Research and Innovation	x
Monetary Affairs		Foreign and Security Policy		Space	
Education, Training, Youth		Fraud		Taxation	
Employment and Social Affairs		Humanitarian aid		Transport	x

13c If Yes, at which level?

X Local / regional levels

X National level

X European level

X International level

[9] Insert number from list below (Frascati Manual).

H Use and dissemination

14. How many Articles were published/accepted for publication in peer-reviewed journals?	-
To how many of these is open access[10] provided?	-
How many of these are published in open access journals?	-
How many of these are published in open repositories?	-
To how many of these is open access not provided?	-
Please check all applicable reasons for not providing open access:	
❑ publisher's licensing agreement would not permit publishing in a repository ❑ no suitable repository available ❑ no suitable open access journal available ❑ no funds available to publish in an open access journal ❑ lack of time and resources ❑ lack of information on open access ❑ other[11]: ……	

15. How many new patent applications ('priority filings') have been made? *("Technologically unique": multiple applications for the same invention in different jurisdictions should be counted as just one application of grant).*		-
16. Indicate how many of the following Intellectual Property Rights were applied for (give number in each box).	Trademark	-
	Registered design	-
	Other	-
17. How many spin-off companies were created / are planned as a direct result of the project?		-
Indicate the approximate number of additional jobs in these companies:		-

18. Please indicate whether your project has a potential impact on employment, in comparison with the situation before your project:

❑	Increase in employment, or	❑	In small & medium-sized enterprises
❑	Safeguard employment, or	❑	In large companies
❑	Decrease in employment,	X	None of the above / not relevant to the project
❑	Difficult to estimate / not possible to quantify		

19. For your project partnership please estimate the employment effect resulting directly from your participation in Full Time Equivalent (*FTE = one person working fulltime for a year*) jobs:	*Indicate figure:*
Difficult to estimate / not possible to quantify	X

[10] Open Access is defined as free of charge access for anyone via Internet.
[11] For instance: classification for security project.

I Media and Communication to the general public

20. As part of the project, were any of the beneficiaries professionals in communication or media relations?

○ Yes X No

21. As part of the project, have any beneficiaries received professional media / communication training / advice to improve communication with the general public?

○ Yes X No

22 Which of the following have been used to communicate information about your project to the general public, or have resulted from your project?

X	Press Release	X	Coverage in specialist press
X	Media briefing	❑	Coverage in general (non-specialist) press
❑	TV coverage / report	X	Coverage in national press
❑	Radio coverage / report	X	Coverage in international press
X	Brochures /posters / flyers	X	Website for the general public / internet
❑	DVD /Film /Multimedia	X	Event targeting general public (festival, conference, exhibition, science café)

23 In which languages are the information products for the general public produced?

❑	Language of the coordinator	X	English
X	Other language(s)		

***Question F-10*:** Classification of Scientific Disciplines according to the Frascati Manual 2002 (Proposed Standard Practice for Surveys on Research and Experimental Development, OECD 2002):

FIELDS OF SCIENCE AND TECHNOLOGY

1. NATURAL SCIENCES

1.1 Mathematics and computer sciences [mathematics and other allied fields: computer sciences and other allied subjects (software development only; hardware development should be classified in the engineering fields)]

1.2 Physical sciences (astronomy and space sciences, physics and other allied subjects)

1.3 Chemical sciences (chemistry, other allied subjects)

1.4 Earth and related environmental sciences (geology, geophysics, mineralogy, physical geography and other geosciences, meteorology and other atmospheric sciences including climatic research, oceanography, vulcanology, palaeoecology, other allied sciences)

1.5 Biological sciences (biology, botany, bacteriology, microbiology, zoology, entomology, genetics, biochemistry, biophysics, other allied sciences, excluding clinical and veterinary sciences)

2 ENGINEERING AND TECHNOLOGY

2.1 Civil engineering (architecture engineering, building science and engineering, construction engineering, municipal and structural engineering and other allied subjects)

2.2 Electrical engineering, electronics [electrical engineering, electronics, communication engineering and systems, computer engineering (hardware only) and other allied subjects]

2.3. Other engineering sciences (such as chemical, aeronautical and space, mechanical, metallurgical and materials engineering, and their specialised subdivisions; forest products; applied sciences such as geodesy, industrial chemistry, etc.; the science and technology of food production; specialised technologies of interdisciplinary fields, e.g. systems analysis, metallurgy, mining, textile technology and other applied subjects)

3. MEDICAL SCIENCES

3.1 Basic medicine (anatomy, cytology, physiology, genetics, pharmacy, pharmacology, toxicology, immunology and immunohaematology, clinical chemistry, clinical microbiology, pathology)

3.2 Clinical medicine (anaesthesiology, paediatrics, obstetrics and gynaecology, internal medicine, surgery, dentistry, neurology, psychiatry, radiology, therapeutics, otorhinolaryngology, ophthalmology)

3.3 Health sciences (public health services, social medicine, hygiene, nursing, epidemiology)

4. AGRICULTURAL SCIENCES

4.1 Agriculture, forestry, fisheries and allied sciences (agronomy, animal husbandry, fisheries, forestry, horticulture, other allied subjects)

4.2 Veterinary medicine

5. SOCIAL SCIENCES

5.1 Psychology

5.2 Economics

5.3 Educational sciences (education and training and other allied subjects)

5.4 Other social sciences [anthropology (social and cultural) and ethnology, demography, geography (human, economic and social), town and country planning, management, law, linguistics, political sciences, sociology, organisation and methods, miscellaneous social sciences and interdisciplinary , methodological and historical S1T activities relating to subjects in this group. Physical anthropology, physical geography and psychophysiology should normally be classified with the natural sciences].

6. HUMANITIES

6.1 History (history, prehistory and history, together with auxiliary historical disciplines such as archaeology, numismatics, palaeography, genealogy, etc.)

6.2 Languages and literature (ancient and modern)

6.3 Other humanities [philosophy (including the history of science and technology) arts, history of art, art criticism, painting, sculpture, musicology, dramatic art excluding artistic "research" of any kind, religion, theology, other fields and subjects pertaining to the humanities, methodological, historical and other S1T activities relating to the subjects in this group]