



# INCIT-EV



## D10.4: Project synergies report

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## Technical References

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Project Coordinator	Groupe Renault <a href="mailto:xavier.serrier@renault.com">xavier.serrier@renault.com</a>
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## Task 10.3 Partners:

RSA	RENAULT SAS/Groupe Renault
IFSTTAR	Institut Français
EUROVIA	Eurovia Management
ENEDIS	ENEDIS
AYZ	Ayuntamiento de Zaragoza
CIRCE	Centro de Investigación de Recursos y Consumos Energéticos
POLITO	Politecnico di Torino
IREN	IREN SPA
MRA-E	Province Noord-Holland
GFX	GreenFlux Assets BV
WDS	We Drive Solar
PITP	PitPoint.EV B.V
EESTI	Eesti Energia Aktsiaselts
ELES	ELES, d.o.o., Sistemski operater prenosnega elektroenergetskega omrežja
UL and IRI UL	University of Ljubljana
ATOS	ATOS SPAIN SA
BITBRAIN	Bitbrain Technologies
AVERE	ASSOCIATION EUROPEENNE DES VEHICULES ELECTRIQUES ROUTIERS-France (Avere-France)
Project Leader	RENAULT SAS / Groupe Renault
WP10 Leader	AVERE-France



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Table 1 - Acronym table

Acronym	Definition
INCIT-EV	Large demonstratiON of user Centric urban and long-range charging solutions to boost an engaging deployment of Electric Vehicles in Europe.
EU	European Union
WP	Work Package
CORDIS	Community Research and Development Information Service
POLIS	POLIS is the network of European cities and regions cooperating for innovative transport solutions
FRS	Final Report Summary
FP7	7th Framework programme, funding programme ran from 2007 to 2013.
H2020	EU Research and Innovation programme, funding programme ran from 2014 to 2020



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## 0 EXECUTIVE SUMMARY

This report identifies H2020, FP7 participatory and community-based projects, initiatives on e-mobility and establishes strong synergies and links with the INCIT-EV activities to improve the dissemination and use of results in Europe. The report presents potential connections and actions that could be developed between the INCIT-EV consortium and similar or related projects or initiatives, trying to add value to the results generated already by previous or ongoing projects. The synergies will help in spreading the project's results to a broader audience but also to learn from other projects' findings. The scan for projects specifically addressing 18 FP7/H2020 projects, 06 other initiatives and 12 platform/networks. Out of a total of 36, more than 19 have been identified to establish synergies. Based on the "Synergy Matrix", the partners will be able to select and use, and furthermore to establish synergies with selected European projects/initiatives for producing other resources with a high added value. We used master Plan of the INCIT-EV project to sets, goals, and main objectives of Synergy Process in accordance with project objectives. This document identifies short term objectives, to be achieved during the 3-year period. At this early stage, the INCIT-EV Synergy Process is a general one; it should be finalised after selecting and contacting the projects with which dynamic synergies will be established. All static synergies that were identified can be used, in certain conditions, without any strategy. The main Objective is to define in line with the strategy of dissemination and communication (D10.1) to ensure that INCIT-EV results will effectively benefit as much European citizens.

This report has so far described the state of potential synergies with other projects and initiatives. There are places to continue the development of the actions described and to follow up.

This monitoring will be implemented in early 2021 and in line with the communication and dissemination strategy of the INCIT-EV project.



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#### Description of INCIT-EV Project:

The INCIT-EV project aims to encourage the development of electromobility in Europe through field experiments.

- Phase 1 will first involve analyzing user needs and requirements, followed in April 2020 by an assessment of charging technologies and their integration into infrastructures.
- Phase 2 will focus on 7 innovative charging technologies for electric vehicles will be tested in chosen locations in Europe and demonstrations will run from the second half of 2022 to the end of the project.
  - A dynamic induction charging system for the urban environment in Paris, France.
  - High voltage charging systems in the outskirts of Tallinn, Estonia.
  - Optimized bidirectional "smart charging" in Amsterdam and Utrecht, the Netherlands.
  - A dynamic induction charging system in peri-urban/long-range areas in Versailles, France.
  - A charging hub in a carpark in the outskirts of Turin, Italy connected to the DC local tramway distribution.
  - Low power bidirectional charging (for two-wheeled vehicles also) and static wireless charging in taxi lanes located at the airport and central station in Zaragoza, Spain.

The delivery of this document is done in accordance to the description in the Grant Agreement Annex 1 Part A with no time deviation and no content deviation from the original planning.



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# 1 INTRODUCTION

This report will describe potential connections and partnerships that could be developed between the INCIT-EV consortium and current or previous similar projects or related initiatives. The synergies will help in spreading the project's results to a broader audience but also to learn from other projects' findings. The report responds to Task 10.3 interaction and exploitation of synergies with other projects and initiatives. Its aim is to establish strong synergies and links with INCIT-EV activities to improve the dissemination and use of results in Europe.

INCIT-EV will be presented by all partners at most relevant international and national forums, as well as in specific workshops organized during the project lifetime. All project partners will be encouraged to contribute to these targeted international events in order to integrate regional and national programs and initiatives and to allow other organizations, not directly participating in INCIT-EV, to know about its objectives, evolution and conclusions. A keen influence of the Advisory Board is envisioned here. The aim is to disseminate the project results, mobilize stakeholders and establish deep ties with relevant platforms, networks, associations, and other related projects.

Synergies with similar EU-funded projects will be exploited to increase the outreach of potential stakeholders, organize joint events, exchange knowledge, experience, and best practices, and stimulate discussions among key players.

Regarding EU forums, INCIT-EV will take advantage of the relation of its partners with some of the existing associations and platforms where they have an active role; a list of them is provided in the dissemination section of deliverable D10.1.

## 1.1 The concept of synergies

Maximization of added value and impact of current or past projects, platforms, networks, associations, and other initiatives consists of identifying and leveraging the resources and creating new sources of value that form the base for building synergy.

We will define two kinds of synergies relate to the purpose of INCIT-EV:

- **Static synergy** – the synergy effect results from the relationship between the project INCIT-EV and existing outcomes generated by past projects (FP7 and some H2020). The synergies could be considered static since it is not possible to interact directly with the project activities, or at best with the partners or project coordinator. Instead, their results will be possibly used for the purpose of exploiting and testing. Thus, the information offered by past project outcomes will contribute to a sustainable use of resources under a synergic process.
- **Dynamic synergies** – the synergy effect results from the relationship between similar ongoing projects that are developing resources under a collaborative dimension. In this case the synergic processes must be planned. Ongoing projects can create synergies based on adequate and synchronized roadmaps created for two or more projects. Relation with ongoing relevant platforms, networks and associations were considered like dynamic synergies.



The success of synergic processes typically requires creating dedicated strategy for finding common interests or objectives, identifying opportunities, setting goals for value creation, and providing incentives with real upside for breakthrough performances.

## 1.2 Methodological approach

The rules for the European Structural and Investment Funds<sup>1</sup> (ESIF), Horizon 2020, and other EU programs directly managed by the Commission in the areas of research, innovation and competitiveness are the main area of potential synergies, that's why we're going to start with scan in the CORDIS base. For other initiatives we will search for related platforms, networks of associations, refining the search results and, retaining initially only FP7 and H2020 projects. During the search, many valuable reports of earlier project were identified. Consequently, these projects were also retained. A list of the projects and initiatives was created. We will analyse the results and extract key information that will be useful for assess the relevance for INCIT-EV project.

The main steps on the methodologies that were used to collect relevant data and information for investigating potential links, collaborations and/or synergies as well as the way of identifying the strong synergies with INCIT-EV project are describe here:

- 1- conducting a desk research by browsing the existing online data about projects and initiatives related with INCIT-EV project (CORDIS database, mobility networks, association, and other initiatives through their website). The search process was carried out using several keywords (“electro mobility”, “charging technologies for EV”, “smart charging”, “EV experiment” etc....); also drawing on the knowledge of the partners and the advisory board of the project.
- 2- scanning the available information about the identified projects and initiatives for potential synergies and links with INCIT-EV.
- 3- elaborating the Synergies Matrix of potential synergies.
- 4- evaluating the projects in Synergy Matrix against the synergies that could be created. The projects will be assessed for potential links, relationships, and relevance with INCIT-EV, we define a ranking with 3 levels.
- 5- define for ranking 2 and 3 projects the strong synergies based on the findings from previous step that will contain the projects for which the strong synergies with INCIT-EV will/could be set up. we also identify which WP of INCIT-EV is directly involved in this synergy.

## 1.3 Objectives and strategy of the synergy's actions

The aim of the contributing task for this deliverable (D10.4) was to optimize the use of the INCIT-EV consortium resources by establishing synergies with existing projects, initiatives that were able to provide experiences and best practices in the field of recharge of electric vehicle which could be assist in achieving the goals of the INCIT-EV project.

INCIT-EV will develops a strategy for growing and building capacity in ecosystem through conducting an extensive assessment and analysis of existing e-mobility project in the areas of research, innovation, and



competitiveness. At least links will be established within different types of projects, platform, networks based on the acquired knowledge, experience, best practices, and guidelines.

After we have identified potential synergies projects or initiatives, we develop a synergy strategy.

Main steps of synergy strategy link with strategy of communication and dissemination (D10.4) are:

**ASSESS** European and international characteristics and players, and barriers of development of synergies. Assessment of identified initiatives. We will identify mapping for each work packages based on the scope and nature of the work package activities. We will use these mapping to assess the tabulated search results and identify relevancy of the identified external initiatives to each work package. The mapped initiatives will be used to formulate synergy that will help to understand which initiatives are most useful to establish synergies during the period of the project.

**ESTABLISHING** synergies with identified projects or initiatives Based on the assessment results the work packages will select and priorities the initiatives that could form beneficial synergies for their ongoing and future work. The coordination team will then advice on a utilization strategy to streamline potential synergies and insert across the various work streams in the project.

**IDENTIFY** and engage relevant community and research stakeholders through organization of participatory events.

**ELABORATE** a strategy for knowledge transfer from INCIT-EV project to society for the benefit of the community see D10.1 dissemination strategy.

**BUILD** networking for exchange best practices and recommendations in the field of charge system for e-mobility.

**ENGAGE** with project or initiative selected action of co-creation events and knowledge and will make use of INCIT-EV and partner web site.

## 1.4 Relation to other project activities table

Interaction and exploitation of synergies with other projects and initiatives will be exploited to increase the outreach of potential stakeholders by organize joint events, exchange knowledge, experience, and best practices, and stimulate discussions among key players.

AVERE will oversee networking activities with related projects, previous and future calls of H2020 or other relevant programs.

Regarding EU forums, INCIT-EV will take advantage of the relation of its partners with some of the existing associations and platforms where they have an active role; a list of them is provided in the dissemination section of Deliverable D 10.1. This attached table will be filled in this deliverable

Table 2- Relation to other project activities table

Partner	Task	Relation to other project activities: name of project etc....



## 2 CONSTRUCTION OF SYNERGIES MATRIX

### 2.1 Scan projects and initiatives and identify potential synergies

The search focused on the projects funded by EU program. In the research, development, and innovation process, INCIT-EV will make use of the data available at the time of the report for the selected projects funded under the Programs:

The actions and activities for which potential synergies and links could be established with the INCIT-EV project are assessed. For identifying the types of synergies, the objectives, activities, and actions of each project have been explored performing the next steps:

- scan CORDIS database for projects in relation with e-mobility.
- identify other national, European, and international initiatives from website and other sources.
- set a list of relevant projects.
- identify projects' websites.
- identify information and the **objectives** of the projects.
- look into the project's key **activities and actions**.
- look for any similar/common targeted beneficiaries.
- investigate **deliverables** (reports, toolboxes, platforms, etc.) – if available or Final Report Summary on CORDIS.
- find the networks developed by the projects and other initiatives; group the synergies in accordance with items of synergies matrix.

The potential synergic elements, links and collaborations identified through the analysis of the objectives, actions, and deliverables of an important number of closed FP7 projects as well as H2020 ongoing projects and other initiatives are briefly presented in the next subchapters.

The **main outcomes of the selected projects, having relevance to the INCIT-EV goals**, are described further. These outcomes can be project deliverables, materials presented at the events organized within the projects, scientific papers resulting from projects and conference proceedings as well, and they will be considered as a starting point for achieving synergies.

The matrix is constructed in the following ways:

- sub-sections that include: FP7, H2020, Platform, network, and other initiatives.
- information on projects and initiatives.
- Funders.
- the country that drives.
- the address of the web site.



### 2.1.1 H2020 & FP7 projects

The amount of available online information is different for the two main categories of projects: the FP7 and the H2020.

**The FP7** projects are closed and their Final Report Summary (FRS) is available in CORDIS database. The FP7 projects have made their outcomes accessible on their own websites or on various networks or platforms like Living Knowledge.

**The H2020** ongoing projects, their activities are far from being completed. Only few of them had made available some deliverables and are still under the process of developing their activities and/or elaborating their deliverables, planning the events and dissemination. The information was collected using mainly CORDIS database. Based on the conclusions of this report, INCIT-EV will be able to develop links and collaborations for those strong synergies that will be identified.

### 2.1.2 Networks platforms & other initiatives

Several national, regional, European, and international networks involved in e-mobility are described briefly in this section. The information comes mainly from the partners of the INCIT-EV project. For this category, we prioritize the development of synergies with initiatives already linked with the partners of the INCIT-EV project in order to optimize the resources committed to deal with these actions

## 2.2 Synergies matrix construction

The Synergy Matrix was designed based on the findings presented in 2.1 Section.

Three different types of synergies are shown in the following tables:

- Dynamic synergies with ongoing projects,
- Dynamic synergies with networks and other initiatives,
- Static synergies with closed projects/in the process of closing, or initiatives.

After completing information on projects and initiatives, task 10.3 meetings completed the information on this matrix:

- identification of the Partner managing the synergy,
- identification of the WP to be linked,
- contact and information,
- identification of the kinds of shares of synergy,
- rating.

The “Synergy Matrix” highlights the projects and initiatives which can be the basis for developing strong synergies. Based on the evaluation of their relevance with the INCIT-EV topics, only the synergies ranked with \*\*\* or \*\* were retained as potential strong synergies. Main description of this projects and initiatives are describe in next chapter.



## 3 STRONG SYNERGIES AND CONNECTIONS WITH EUROPEAN PROJECTS AND OTHER INITIATIVES

### 3.1 IDENTIFICATION OF SYNERGIES AND CONNECTIONS

The synergies with past projects could be developed by using for example, the results produced by past projects. In this way the use of the lessons learned in the past will be updated and maximized by adding new value to the resources produced in the past. The created synergies will be shared as far as possible with the partners of the closed project.

In the case of the synergies with ongoing projects and initiatives, mutual interactions are expected between identified ongoing European projects and INCIT-EV. Even if the interactions must be planned and managed, opportunities for establishing unexpected synergies may arise during the project's lifetime; they will then be dealt with on a case-by-case basis. Synergies can be created by using the resources and results already produced by projects (static synergy) or by direct contacts for partnership and collaboration with project consortia. The latter one is a dynamic synergy; it must be planned and agreed upon. In this regard, a plan and a timeline must be established by a mutual agreement between project consortia.

In the following the list of the selected initiatives.

#### 3.1.1 H2020 & FP7 projects

##### FP7 static synergies:

<b>FABRIC</b>	<b>FeAsiBility analysis and development of on-Road charging solutions for future electric vehicles</b>
Partners in charge of synergies	Vedecom/Polito/ CIRCE
Website	<a href="http://www.fabric-project.eu/www.fabric-project.eu/index.html">http://www.fabric-project.eu/www.fabric-project.eu/index.html</a>
Funder	FP7 TRANSPORT.
Participating countries	CRF (Italy), VOLVO (Sweden), SCANIA (Sweden), IRE (Italy), TECNO (Italy), SNF (France), VeDeCom(France), SAET (Italy), HITACHI EUROPE, ICCS (Greece), TRL (United Kingdom), TNO (United Kingdom), CEA (France), FKA (Germany), UNIGE-DITEN (Italy), CIRCE (Spain), POLITO (Italy), KTH (Sweden), TU BERLIN, QIE (Spain), ENIDE (Spain), ATA (Italy), MECT (Italy), AMET (Italy), ERTICO (Belgium).
Description of project	conduct feasibility analysis of on-road charging technologies for long term electric vehicle range extension. Key wireless charging technologies, trends and relevant R&D activities in the automotive sector will be considered, assessing the present and future opportunities for wireless charging, considering the needs of EV makers and end users.
Description of potential synergy	WP3 & WP4: specifications/use case.



Current status of synergy	Vedecom, Polito and CIRCE were partners of the Fabric project and they could access directly to the specifications and data about use case. Contact persons are active members of the INCIT-EV project.
Barriers to collaboration	Project completed.

<b>UNPLUGGED</b>	<b>Wireless charging for Electric Vehicles</b>
Partners in charge of synergies	UL (IRI UL)
Website	<a href="http://unplugged-project.eu/">http://unplugged-project.eu/</a> , <a href="https://egvi.eu/project-highlight/unplugged-inductive-charging-for-electric-vehicles-february-2014/">https://egvi.eu/project-highlight/unplugged-inductive-charging-for-electric-vehicles-february-2014/</a>
Funder	FP7-TRANSPORT.
Participating countries	FKA GMBH(Germany), ENIDE SOLUTIONS .S.L (Spain), CENTRO RICERCHE FIAT SCPA (Italy), UNIVERSITA DEGLI STUDI DI FIRENZE (Italy), VOLVO TECHNOLOGY AB (Sweden), CONTINENTAL AUTOMOTIVE GMBH (Germany), HELLA GMBH & CO KGAA (Germany), VRIJE UNIVERSITEIT BRUSSEL (Belgium), IDIADA AUTOMOTIVE TECHNOLOGY SA (Spain), TRL LIMITED (UK), CEA (France), ENDESA SA (Spain), E-DISTRIBUZIONE SPA (Italy), CIRCE 'Spain), POLITECNICO DI TORINO (Italy), TRANSPORT FOR LONDON (UK), BAE SYSTEMS (UK).
Description of project	Wireless charging for Electric Vehicles: UNPLUGGED project aims to investigate how the use of inductive charging of Electric Vehicles (EV) in urban environments improves the convenience and sustainability of car-based mobility. It will be investigated how smart inductive could be implement.
Description of potential synergy	WP4: Methods/data.
Current status of synergy	Some UNPLUGGED materials are already deposited in INCIT-EV Teams directory (folder: State of the art). We (UL and URI UL) will contact the secretary in 2021 if any additional info is required.
Barriers to collaboration	Project completed.

<b>e-DASH</b>	<b>Electricity Demand and Supply Harmonizing for EVs</b>
Partners in charge of synergies	ATOS / RSA
Website	<a href="https://egvi.eu/project-highlight/e-dash-electricity-demand-and-supply-harmonization-for-evs-july-2014/">https://egvi.eu/project-highlight/e-dash-electricity-demand-and-supply-harmonization-for-evs-july-2014/</a>
Funder	EGVI





Participating countries	Volkswagen (DE) – Coordinator, Renault (FR), Centro Ricerche Fiat (IT), RWE (DE), ENDESA (ES), CEA List (FR), IBM (DE), ERPC GmbH (DE), Atos Origin (ES), TRIALOG (FR), TU Dortmund – Communication Networks Institute (DE) Knowledge Inside (FR), Eurisco (DK), ATB Bremen (DE), Broadbit (SK), Mitsubishi (JP).
Description of project	The project “e-DASH” aims at the design, development and validation of an innovative charging solution for fleets of Fully Electric Vehicles (FEVs) enabling sustainable FEV grid integration in the context of sometimes contradicting requirements like individual driver requests, availability of renewable energies, energy demand as well as low-voltage grid capacity. This new form of integrating FEVs in the energy network requires the development of intelligent hybrid charging concepts, in the sense of partly centralized vs. decentralized charging control. Such distributed control requires algorithms reducing the need for near real-time information exchange between all stakeholders to a minimum. The e-DASH FP7 project develops and validates this new approach, always considering and building upon existing as well as currently developing standards in the E-Mobility landscape (e.g. ISO/IEC 15118).
Description of potential synergy	Case studies.
Current status of synergy	Atos was partner of the e-Dash project and they could access directly to the deliverables. Use cases and final results are available for INCIT-EV, including management of energy requirements for charging EVs Fleets based on BPR’s capacities.
Barriers to collaboration	Project completed.

## H2020 Static synergies:

<b>IDACS</b>	<b>Installing and harmonizing National Access Points</b>
Partners in charge of synergies	MRA
Website	<a href="https://eip.its-platform.eu/activities/monitoring-and-harmonisation-national-access-points">https://eip.its-platform.eu/activities/monitoring-and-harmonisation-national-access-points</a>
Funder	EU EIP PSA.
Participating countries	Leader: The Netherlands (Rijkswaterstaat). Beneficiaries: France (CEREMA), Germany (BAST), Portugal (IMT), Romania (ITS Romania and National Company for Road Infrastructure Administration), United Kingdom (Transport Scotland & Department for Transport) and Spain (DGT). Participants: Denmark (Vejdirektoratet), Italy (Autovie Venete), Finland (Vayla, Traficom), Sweden (Trafikverket). Contributors: Austria (AustriaTech), Ireland (TTI).
Description of project	ID and data collection for sustainable fuels in Europe.



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Description of potential synergy	WP7/8 &9: Knowing what the National Access Points for charging infrastructure will look like, will aid us in designing ICT solutions in the project that will in the European requirement to connect all publicly accessible charging infrastructure to these NAPs.
Current status of synergy	MRA-Electric is in one of the working groups of this project, we have the contacts that allows us to gather the output of this project.
Barriers to collaboration	The project ends December 2020. NAP connections are not the primary issue to be solved in INCIT-EV, but it is an EU requirement, and it can add to the EV user's experience.

NeMo	Hyper-Network for electromobility
Partners in charge of synergies	RSA
Website	<a href="http://www.nemo-emobility.eu/">http://www.nemo-emobility.eu/</a>
Funder	H2020-GV-2015.
Participating countries	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS (Greece), AJUNTAMENT DE BARCELONA (Spain), BROADBIT ENERGY TECHNOLOGIES SRO (Slovakia), CENTRO RICERCHE FIAT SCPA ( Italy), EUROPEAN ROAD TRANSPORT TELEMATICSIMPLEMENTATION COORDINATION ORGANISATION - INTELLIGENT TRANSPORT SYSTEMS & SERVICES EUROPE (Belgium), FKA GMBH ( Germany), GROUPEMENT POUR L'ITINERANCE DES RECHARGES ELECTRIQUES DE VEHICULES ( France), HUBJECT GMBH (Germany), IBM DEUTSCHLAND GMBH ( Germany), CONSORZIO INTERUNIVERSITARIO PER L'OTTIMIZZAZIONE E LA RICERCA OPERATIVA ( Italy), IDIADA AUTOMOTIVE TECHNOLOGY SA ( Spain), IREN SPA (Italy), RENAULT SAS ( France), SINGULARLOGIC ANONYMI ETAIREIA PLIROFORIAKON SYSTIMATON KAI EFARMOGONPLIROFORIKIS ( Greece), TECNOSITAF SPA CON UNICO SOCIO (Italy), TOMTOM DEVELOPMENT GERMANY GMBH ( Germany), TECHNISCHE UNIVERSITAT BERLIN (Germany), VERBUND Solutions GmbH (Austria), MOSAIC FACTOR SL ( Spain), TOMTOM LOCATION TECHNOLOGY GERMANY GMBH (Germany).
Description of project	The NeMo Hyper-Network is a distributed environment with open architecture based on standardized interfaces, in which all electromobility actors, physical (i.e. CPs, grids, EVs) or digital (i.e. CPOs, DSOs, etc.), can connect and interact seamlessly, exchange data and provide more elaborate electromobility ICT services in a fully integrated and interoperable way both B2B and B2C. The connection will be based on dynamic translation of data and services interfaces according to needs of the specific scenarios and involved stakeholders. NeMo is not just another proprietary platform for electromobility but a full open ecosystem allowing continuous and uninterrupted provision of data and services. NeMo will raise awareness, liaise with standardization bodies, and contribute to the evolution of protocols and standards by developing public Common Information Models which incorporate all existing electromobility related standards and constantly update them to reflect standards evolution. NeMo will



	also propose sustainable business models for all electromobility actors opening new opportunities for SMEs and EU Industry.
Description of potential synergy	WP 7/8/9 evolution of protocols, standards, and business models.
Current status of synergy	RSA was partner of the NeMo project and they could access directly to the evolution of protocols, standards and sustainable business models proposed.
Barriers to collaboration	Project completed.

<b>ELVITTEN</b>	<b>L-category Vehicles Integrated into Transport and Electricity Networks</b>
Partners in charge of synergies	ATOS
Website	<a href="https://www.elviten-project.eu/en/">https://www.elviten-project.eu/en/</a>
Funder	H2020-EU.3.4.
Participating countries	INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS ( Greece), AALBORG UNIVERSITET (Denmark), AKKA HIGH TECH ( France), ANAPTYXIAXI ETAIRES DIMOU TRIKKAION ANAPTYXIAXI ANONYMI ETAIRES OTA - E-TRIKALA AE ( Greece), ARISTOTELIO PANEPISTIMIO THESSALONIKIS ( Greece), ATOS SPAIN SA ( Spain), COMUNE DI BARI ( Italy), COMUNE DI GENOVA ( Italy), ROMA CAPITALE ( Italy), DUFERCO ENERGIA SPA ( Italy), CONSORZIO INTERUNIVERSITARIO PER L'OTTIMIZZAZIONE E LA RICERCA OPERATIVA ( Italy), EMPRESA MUNICIPAL DE INICIATIVAS Y ACTIVIDADES EMPRESARIALES DE MALAGA SA ( Spain), EUROPEAN ROAD TRANSPORT TELEMATICSIMPLEMENTATION COORDINATION ORGANISATION - INTELLIGENT TRANSPORT SYSTEMS & SERVICES EUROPE ( Belgium), FEDERATION INTERNATIONALE DE L'AUTOMOBILE ( France), UBJECT GMBH ( Germany), KYBURZ SWITZERLAND AG ( Switzerland), NAYTILIAKES METAFORIKES KAI EPIKOINONIAKES EPIXEIRISEIS SEABILITY EPE ( Greece), S3TRANSPORTATION LLP ( United Kingdom), ANONIMI ETAIRIA PERIVALLONTIKON KAIENERGIAKON MELETON KAI ANAPTIXIS LOGISMIKOU (Greece), T BRIDGE SPA ( Italy), UNIVERSITY OF LEEDS ( United Kingdom), QUAERYON SRL ( Italy), algoWatt SpA ( Italy).
Description of project	The vision of ELVITEN is to propose replicable usage schemes, consisting of support services, ICT tools and policies, to boost the usage (ownership or sharing) by private and professional users of all categories of EL-Vs (bicycles, scooters, tricycles and quadricycles) and to demonstrate them in 6 European Cities with three principal aims: 1) to make users more familiar and facilitate them to use EL-Vs instead of ICE vehicles for their private transport and for light urban deliveries, 2) to collect rich information sets made of real usage data, traces from dedicated ICT tools, and users' opinions after real trips, so as 3) to generate detailed guidelines and business models for service providers, Planning Authorities and manufacturers in order to make EL-Vs more attractive and more integrated in the transport and electricity networks.



Description of potential synergy	WP5/6/7 Project finished on 31/10/2020. Conclusions, charging behavior and business models for light electrical vehicles are available. "Furthermore, guidelines for manufactures to improve their products and for cities/stakeholders interested in deploying light electrical vehicles (LEVs) services.
Current status of synergy	Project completed; all public deliverables are available. Additional feedback and lesson learned will provided by Atos. Possible synergies between projects related to agreements for usage of tools and services developed.
Barriers to collaboration	Project completed. ELVITEN partner HUBJECT is main competence of INCIT-EV partner GREENFLUX.

### H2020 dynamic synergies:

<b>MEISTER</b>	<b>Mobility Environmentally friendly, Integrated and economically Sustainable Through innovative Electromobility Recharging infrastructure and new business models</b>
Partners in charge of synergies	Avere
Website	<a href="http://www.meister.eu/">http://www.meister.eu/</a>
Funder	H2020-MG-2017-Two-Stages.
Participating countries	ETRA INVESTIGACION Y DESARROLLO SA (Spain), Málaga (Spain), Berlin (Germany), Gothenburg (Sweden).
Description of project	The project MEISTER is demonstrating and establishing innovative business models that will help cities, charging infrastructure operators and e-mobility service providers to reduce costs for Electric Vehicles (EV) infrastructure deployment, therefore enabling large-scale EV usage/ownership. MEISTER is changing the paradigm in the electromobility market by providing interoperable platforms and services for an easy, convenient and barrier-free access to charging, billing and smart grid services, including an increase of the use of RES and self-generation to power EVs. The project is expected to increase by 15% the demand for EVs and to reduce by 20% the installation costs of EVSE infrastructure; these achievements will help to reduce charging prices by 20%. MEISTER results will be tested and validated in Southern, Central and Northern Europe.
Description of potential synergy	WP9 / 10: events/networking and exchange on business models.
Current status of synergy	No contact yet to date, planned in early 2021.
Barriers to collaboration	The project end in 2021 there is a risk in relation to the agenda of two projects.



<b>ASSURED</b>	<b>fASt and Smart charging solutions for full size URban hEavy Duty applications</b>
Partners in charge of synergies	POLITO
Website	<a href="https://assured-project.eu/">https://assured-project.eu/</a>
Funder	H2020-GV-2017.
Participating countries	VRIJE UNIVERSITEIT BRUSSEL (Belgium), UNION INTERNATIONALE DES TRANSPORTS PUBLICS (Belgium), IVECO S.p.A. ( Italy), Volvo Bus Corporation( Sweden), MAN TRUCK & BUS SE ( Germany), SOLARIS BUS & COACH SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA ( Poland), VECTIA MOBILITY RESEARCH & DEVELOPMENT AIE( Spain), VDL ENABLING TRANSPORT SOLUTIONS BV ( Netherlands), IRIZAR S COOP ( Spain), TOFAS TURK OTOMOBIL FABRIKASI ANONIM SIRKETI ( Turkey), SIEMENS AKTIENGESELLSCHAFT ( Germany), ALSTOM TRANSPORT SA ( France), ABB BV ( Netherlands), HELIOX BV ( Netherlands), SCHUNK TRANSIT SYSTEMS GMBH (Germany), JEMA ENERGY SA ( Spain), ALTRA SPA ( Italy), FRAUNHOFER GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V. ( Germany), FEV EUROPE GMBH ( Germany), AVL LIST GMBH ( Austria), AIT AUSTRIAN INSTITUTE OF TECHNOLOGY GMBH ( Austria), VIRTUAL VEHICLE RESEARCH GMBH ( Austria), BELGISCH LABORATORIUM VAN DE ELEKTRICITEITSINDUSTRIE LABORELEC CVBA ( Belgium), IKERLAN S. COOP ( Spain), NEDERLANDSE ORGANISATIE VOOR TOEGEPAST NATUURWETENSCHAPPELIJK ONDERZOEK TNO ( Netherlands), TEKNOLOGIAN TUTKIMUSKESKUS VTT OY ( Finland), POLIS - PROMOTION OF OPERATIONAL LINKS WITH INTEGRATED SERVICES, ASSOCIATION INTERNATIONALE ( Belgium), RINA CONSULTING SPA ( Italy), I-DE REDES ELECTRICAS INTELIGENTEZA ( Spain), ENEXIS NETBEHEER BV ( Netherlands), INSTITUTE OF COMMUNICATION AND COMPUTER SYSTEMS ( Greece), RUPPRECHT CONSULT-FORSCHUNG & BERATUNG GMBH ( Germany), IDIADA AUTOMOTIVE TECHNOLOGY SA ( Spain), SCHOLT ENERGY CONTROL BV ( Netherlands), INGENIEURGESELLSCHAFT FUER AUTO UND VERKEHR GMBH ( Germany), POLITECNICO DI TORINO ( Italy), PRZEDSIĘBIORSTWO KOMUNIKACJI MIEJSKIEJ SPOLKA Z OGRANICZONA ODPOWIEDZIALNOSCIA ( Poland), TRANSPORTS DE BARCELONA SA ( Spain), STADTWERKE OSNABRUCK AG ( Germany), HEULIEZ BUS ( France).
Description of project	<p>The overall objectives of ASSURED are:</p> <ul style="list-style-type: none"> <li>- Analyzing the needs of the cities, operators and end-users to derive the requirements and specifications for the next generation of electrically chargeable heavy-duty (HD) vehicles (i.e. buses), medium-duty (MD) trucks and light duty vehicles for operation within an urban environment;</li> <li>- Improving the total cost of ownership (TCO) through better understanding of the impact of fast charging profiles on battery lifetime, sizing, safety, grid reliability and energy- efficiency of the charger-vehicle combination.</li> <li>- Development of next generation modular high-power charging solutions for electrified HD and MD vehicles.</li> </ul>



	<ul style="list-style-type: none"> <li>- Development of innovative charging management strategies to improve the TCO, the environmental impact, operational cost, and the impact on the grid stability from the fleet upscaling point of view.</li> <li>- Demonstration of 6 electrically chargeable HD vehicles (public transport buses), 3 MD trucks (2 refuse collections &amp; 1 delivery truck) and 1 light duty vehicle with automatic fast charging.</li> <li>- Development of interoperable and scalable high-power charging solutions among different key European charging solution providers.</li> <li>- Demonstration of energy and cost-efficient wireless charging solutions up to 100 kW for an electric light duty vehicle (VAN).</li> <li>- Evaluating the cost, energy efficiency, impact on the grid of the different use cases, noise, and environmental impact of the ASSURED solutions.</li> <li>- To actively support the take-up of business cases and exploitation of project results across Europe of the use cases by partner cities (Barcelona, Osnabruck, Goteborg, Brussels, Jaworzno, Munich, Eindhoven, Bayonne, Madrid) and end users.</li> </ul>
Description of potential synergy	WP7: case study, user and cities need.
Current status of synergy	Part of the activities performed in the ASSURED project will be available also for INCIT-EV.
Barriers to collaboration	No barriers identified so far.

<b>E-Lobster</b>	<b>Electric L0ssesBalancing through integrated Storage and power Electronics</b>
Partners in charge of synergies	ENEDIS/EDF
Website	<a href="http://www.e-lobster.eu/">http://www.e-lobster.eu/</a>
Funder	H2020-LCE-2017-SGS.
Participating countries	RINA CONSULTING SPA (Italy), TURBO POWER SYSTEMS LTD (United Kingdom), RAIL SAFETY AND STANDARDS BOARD LIMITED (United Kingdom), THE UNIVERSITY OF BIRMINGHAM (United Kingdom), Lithium Balance A/S (Denmark), METRO DE MADRID SA (Spain), UNIVERSITY OF NEWCASTLE UPON TYNE (UK), FUNDACION DE LOS FERROCARRILES ESPANOLAS (Spain), UNION INTERNATIONALE DES TRANSPORTS PUBLICS (Belgium)
Description of project	E-LOBSTER intends to capture such potential through the development of an innovative, economically viable and easily replicable electric Transport-Grid Inter-Connection System that will be able to establish synergies between power distribution networks, electrified transport networks (metro, trams, light railways etc.) and charging stations for EVs. The proposed solution encompasses the integration of high-power flow Electric Storage with smart Soft Open Points providing flexible control. The system will be managed by an integrated Railway + Grid Management System which starting from the real



	time analysis of energy losses will be able to optimize the interexchange of electricity between the networks maximizing local RES self-consumption.
Description of potential synergy	WP4: specifications/use case.
Current status of synergy	E-lobster is proposing an advanced R+G (Rail to Grid) Management system, which intends to reduce electricity losses in both networks, maximizing the use of local RES generators. E-lobster invited DSOs on the 22nd of September 2020 to a conference where a live query was done to collect information on DSOs' needs and positions regarding new regulations and emerging innovations. In task 3 of WP4, synergies are studied between electric transports infrastructures, local RES and DC distribution grid. A techno-economic analysis is to be done where new services will be evaluated including R+G services to cover all possible benefits.
Barriers to collaboration	Depends on e-lobster's level of shared information.

<b>USER-CHI</b>	<b>innovative solutions for USER centric CHarging Infrastructure</b>
Partners in charge of synergies	RSA
Website	<a href="https://cordis.europa.eu/project/id/774392">https://cordis.europa.eu/project/id/774392</a>
Funder	H2020-EU.3.4.
Participating countries	ETRA INVESTIGACION Y DESARROLLO SA (Spain), INSTITUTO DE BIOMECANICA DE VALENCIA (Spain), AREA METROPOLITANA DE BARCELONA (Spain), BUDAPEST FOVAROS ONKORMANYZATA (Hungary), GEWOBAG WOHNUNGSBAU- AKTIENGESELLSCHAFT BERLIN (Germany), VMZ BERLIN BETREIBERGESELLSCHAFT MBH (Germany), IKEM (Germany), EUROCITIES ASBL (Belgium), ROMA SERVIZI PER LA MOBILITA SRL (Italy), FIT CONSULTING SRL (Italy), AGENZIA NAZIONALE PER LE NUOVE TECNOLOGIE, L'ENERGIA E LO SVILUPPO ECONOMICO SOSTENIBILE (Italy), DIGITAL SYSTEM INTEGRATOR SRL (Italy), ENEL X SRL (Italy), IPT TECHNOLOGY GMBH (Germany), CITY OF TURKU (Finland), OY TURKU ENERGIA - ABO ENERGI AB (Finland), TVT ASUNNOT OY (Finland), VARSINAIS-SUOMEN ASUMISOIKEUS OY (Finland), CIRCONTROL SA (Spain), QWICC GMBH (Germany), COMUNE DI FIRENZE (Italy), AYUNTAMIENTO DE MURCIA (Spain), ASOCIACION ESPANOLA DE NORMALIZACION (Spain), CITIES FORUM SLU (Spain).
Description of project	USER-CHI aims at unlocking the massive potential of electromobility in Europe. This will be achieved by (1) integrating different innovative charging technologies with a holistic perspective, (2) putting the user at the center and empowering it, (3) exploiting the synergies between electromobility and the process of greening and smartification of the grid which is taking place to achieve the energy transition in Europe, (4) integrating the technological tools, business models and regulatory measures which will transform the elements



	<p>cited above into an actual, working ecosystem which improves the user experience of EV drivers beyond the current levels of ICE vehicles drivers, whilst at the same time makes financially attractive for the relevant private and public actors the large scale deployment of Europe's required user centric charging infrastructure.</p> <p>USER-CHI will boost a large-scale e-mobility market take up in Europe, by means of developing integrated smart solutions, novel business models and new regulatory framework conditions, which will be demonstrated and validated in 5 urban areas all along the European territory: Barcelona metropolitan area (Spain), Rome (Italy), Berlin (Germany), Budapest (Hungary), and Turku (Finland). These 5 sites act as connecting nodes of the key Mediterranean and Scandinavian-Mediterranean TEN-T corridors, while their different sizes, complementary contexts and e-mobility maturity level offer a holistic view of e-mobility in Europe, facilitating the scalability and replicability of the demonstrated solutions.</p> <p>Since large scale replication and transferability of USER-CHI results is one of the cornerstones of the project, a replication city has been included in each of the TEN-T corridors involved in the project: Murcia (Spain) in Mediterranean corridor and Florence (Italy) in Scandinavian-Mediterranean corridor. This, together with the involvement of EUROCITIES will maximize the project impact even after its completion.</p>
Description of potential synergy	WP7/9: specifications/use case.
Current status of synergy	the first contacts were initiated with the project and will continue.
Barriers to collaboration	no collaboration problems identified so far.

<b>IRIS Smart Cities</b>	<b>Demonstration of smart energy districts, including V2G charging e-cars and stationary battery.</b>
Partners in charge of synergies	We Drive Solar
Website	<a href="https://irissmartcities.eu/">https://irissmartcities.eu/</a>
Funder	H2020-EU.3.3.1.
Participating cities	Utrecht (The Netherlands, coordinator), Nice (France), and Gothenburg (Sweden). Potential replication: Vaasa (Finland), Alexandroupolis (Greece), Santa Cruz de Tenerife (Spain) and Focsani (Romania).
Description of project	The European Innovation Partnership on Smart Cities and Communities (EIP-SCC) brings together cities, industry and citizens to improve urban life through more sustainable integrated solutions, including applied innovation, better planning, a more participatory approach, higher energy efficiency, better transport solutions, intelligent use of Information and Communication Technologies (ICT). The IRIS Consortium consists of 43 partners from 9 different European countries.





Description of potential synergy	WP 7/8/9 In IRIS Smart Cities, the V2G charging stations and shared car service of WDS, as elaborated in UC1b, is being tested as part of the development of an energy efficient district refurbishment. Information exchange could help clarify the connection between shared electric mobility and district energy management.
Current status of synergy	We Drive Solar has a sister company LomboXnet that is partner in IRIS Smart Cities.
Barriers to collaboration	More clarity on the needs and interests from INCIT-EV might help the collaboration.

### 3.1.2 Networks, associations & Platforms

<b>Platform for Electromobility</b>	
Partners in charge of synergies	Avere
Website	<a href="https://www.platformelectromobility.eu/">https://www.platformelectromobility.eu/</a>
Funder	Private.
Members	civil society, industries, and transport modes. Its members are committed to promote electro-mobility and strive to collectively develop solutions to electrify European transport, and to promote those solutions to the EU institutions and Member States.
Description	The aim of the Platform is to drive the development, implementation and support for sustainable European Union policies, programs, and initiatives to move people and goods by electro-mobility.
Description of potential synergy	WP10: exchanges of information about the use case and press release. Contribution to position paper. Networking with the members of the platform.
Current status of synergy	Avere is member of the platforms and we will organize meeting to define in detail the collaboration.
Barriers to collaboration	phased into the agendas of the two structures. Resources to process trade.

<b>ERTRAC</b>	
Partners in charge of synergies	Avere/RSA
Website	<a href="https://www.ertrac.org/index.php?page=what-is-ertrac">https://www.ertrac.org/index.php?page=what-is-ertrac</a>
Funder	ERA-NET.
Members	ERTRAC members are representatives from all the stakeholders of the Road Transport sector, including private and public organizations involved in



	Research, and gathering administrations from both European and national levels.
Description	The European Road Transport Research Advisory Council (ERTRAC) is the European Technology Platform (ETP) for Road Transport. ERTRAC is recognized and supported by the European Commission.
Description of potential synergy	WP10 e exchanges of information on technological achievements. participation in the construction of the ERTRAC roadmap on the recharging of EV. Networking with ERTRAC members.
Current status of synergy	Avere will contact the secretary in 2021.
Barriers to collaboration	phased into the agendas of the two structures. Resources to process trade.

<b>Chargeup europe</b>	<b>EV charging infrastructure industry alliance</b>
Partners in charge of synergies	Avere
Website	<a href="https://www.chargeupeurope.eu/">https://www.chargeupeurope.eu/</a>
Funder	Private.
Members	Allego, EVBox Group, ChargePoint, Fastned, GreenWay, Evway, has-to-be, EDP, Total.
Description	ChargeUp Europe is an EV charging infrastructure industry alliance that has come together to work towards a swift and efficient rollout of EV charging infrastructure in Europe. ChargeUp Europe will work to ensure that infrastructure development keeps pace with the growing uptake of EVs and enables the shift to electric transport. ChargeUp Europe is committed to delivering a seamless charging experience for EV drivers, incentivizing investment, and creating a consumer-centric, open market model for charging infrastructure in Europe. Push for an infrastructure roll-out that starts from the consumer needs. Aim to make EV driving convenient across borders and so strive for an open-market model supported by open standards and protocols. Work to remove market barriers related to concessions, grids, data sharing and building codes.
Description of potential synergy	WP10: exchanges of information about the use case. Networking with the members of association.
Current status of synergy	We will contact the association in 2021.
Barriers to collaboration	phased into the agendas of the two structures. Resources to process trade.

<b>EGVIA</b>	<b>European Green Vehicle Initiative Association</b>
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Partners in charge of synergies	Avere
Website	<a href="https://egvi.eu/event/energy4transport-workshop-21-october-2019-brussels/">https://egvi.eu/event/energy4transport-workshop-21-october-2019-brussels/</a>
Funder	smart green and integrated transport.
Members	Created in 2013, EG VIA currently regroups 84 members from the automotive, smart systems and smart grid industries as well as research centers and universities.
Description	The European Green Vehicles Initiative Association (EGVIA) is an international non-profit making association engaged with the European Commission into the EGVI cPPP to represent the private side of the partnership.
Description of potential synergy	WP10 and others technical WP. Exchanges of information about the use case. Networking with the members of association. Participation to conferences/events.
Current status of synergy	Contact is scheduled for January 2021.
Barriers to collaboration	phased into the agendas of the two structures. Resources to process trade.

<b>Polis network</b>	Network of European cities and regions.
Partners in charge of synergies	Avere
Website	<a href="https://www.polisnetwork.eu/">https://www.polisnetwork.eu/</a>
Funder	ERA-NET.
Members	European cities and regions.
Description of project	POLIS is the leading network of European cities and regions working together to develop innovative technologies and policies for local transport.
Description of potential synergy	WP10: exchanges of information about the use case. Cross-invitations to INCIT-EV and POLIS events. For example, attending the annual Polis conference.
Current status of synergy	Avere is in contact with Polis and will activate its contacts in 2021.
Barriers to collaboration	phased into the agendas of the two structures. Resources to process trade.

### 3.1.3 Other initiatives

<b>Smart Solar Charging Region Utrecht</b>	<b>Development and demonstration of large scale V2G charging network in different use cases. More info at <a href="https://smartsolarcharging.eu/en/">https://smartsolarcharging.eu/en/</a></b>
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Partners in charge of synergies	We Drive Solar
Website	<a href="https://smartsolarcharging.eu/en/">https://smartsolarcharging.eu/en/</a>
Funder	the European Regional Development Fund (ERFD) – OP West II.
Partners	Nederland partners: LomboXnet, Utrecht Sustainability Institute, Last Mile Solutions, We Drive Solar, New Solar, The People Group, Jedlix, Stedin, Utrecht University, University of Applied Sciences Utrecht, Smart Solar Charging BV.
Description of project	Development and demonstration of large scale V2G charging network in different use cases.
Description of potential synergy	WP 7/8/9 Exchange of information. In Smart Solar Charging Region Utrecht, the V2G-concept of We Drive Solar is being developed for upscaling and testing in six different living labs.
Current status of synergy	We Drive Solar is partner in Smart Solar Charging Region Utrecht.
Barriers to collaboration	More clarity on the needs and interests from INCIT-EV might help the collaboration.

Charge Initiative	Demonstrators of ISO15118
Partners in charge of synergies	Vedecom/Avere
Website	<a href="http://www.vedecom.fr/la-france-se-met-en-ordre-de-marche-pour-deployer-la-mobilite-electrique-nouvelle-generation">http://www.vedecom.fr/la-france-se-met-en-ordre-de-marche-pour-deployer-la-mobilite-electrique-nouvelle-generation</a>
Funder	Private.
Partners	France : Ministère de la Transition Ecologique et Solidaire, AFIREV (ASSOCIATION FRANÇAISE POUR L'ITINÉRANCE DE LA RECHARGE ÉLECTRIQUE DES VÉHICULES), VEDECOM, AVERE, PFA (Plateforme de la Filière Automobile).
Description of project	Demonstrators to applied ISO15118 in France charging infrastructure. The aim is to deploy next generation of electric mobility (Plug and charge system and new services).
Description of potential synergy	WP3: Exchange of information.
Current status of synergy	Vedecom and Avere are partner in “charge initiative project”. The work now is to clearly define the needs and interests from INCIT-EV to select the right WP for collaboration.
Barriers to collaboration	No specific barriers are identified.

<b>e SMART</b>	<b>e-Mobility Smart Grid for Passengers and Last Mile Freight Transport in the Alpine Space.</b>
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Partners in charge of synergies	LINKS
Website	<a href="https://www.alpine-space.eu/projects/e-smart/en/contact">https://www.alpine-space.eu/projects/e-smart/en/contact</a>
Funder	Interreg Alpine space.
Participating countries	Ricerca sul Sistema Energetico (IT), Regione Piemonte (IT), Veneto Strade (IT), The Smart City Association Italy (IT), Business Support Center Kranj, Regional Development Agency of Gorenjska (SI), Automotive cluster of Slovenia (SI), Pôle Véhicule du Futur (FR), Auvergne-Rhône-Alpes Energy Environment Agency (FR), University of Applied Sciences Kempten (DE), Climate Alliance (DE), Municipal authorities of the provincial capital Klagenfurt on Lake Wörthersee (AT), Codognotto Austria GmbH (AT), Stadtwerke Klagenfurt AG (AT), County of Munich (DE), Italienische Handelskammer München-Stuttgart (DE), Camera di Commercio Italo-Tedesca e.V (IT).
Description of project	The main objective of e-SMART is to design and test a set of transnational operational instruments for public and private technicians to plan e-mobility infrastructure and services in passengers and freight transports in the framework of smart grid and smart territories.
Description of potential synergy	organize periodic meetings LINKS-RSE to share progresses and results of the activities carried out in the two projects WP6.
Current status of synergy	First meeting will be done in December.
Barriers to collaboration	No barriers are identified today.

## 3.2 IDENTIFICATION OF RESSOURCES FOR POTENTIAL SYNERGIES ACTIONS

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At this early stage, the *Strategic Plan of INCIT-EV synergy Process* is a general one; it should be finalized after contacting the projects which dynamic synergies could be established. All static synergies that were identify can be used, in certain conditions, without any strategy.

Based on the assessment done by this report, we could establish connections and partnerships and built strong dynamic synergies with the projects/initiatives/networks presented in Table 3

Table 3 – synergies with WP of INCIT-EV

Project	WP2	WP3	WP4	WP5	WP6	WP7	WP8	WP9	WP10
FABRIC		X	X						



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UNPLUGGED			X						
e-DASH				X	X				
NeMO									X
ELVITTEN				X	X	X			
IDACS						X	X	X	
MEISTER									X
ASSURED						X			
E-Lobster			X						
USER-CHI						X		X	
IRIS SMART CITIES						X	X	X	
Platform for Electromobility									X
ERTRAC									X
Chargeup EU		X							X
EVGIA									X
Polis network									X
Smart Solar Charge Utrecht						X	X	X	
Charge Initiative		X							
e-Smart					X				



In 2021, INCIT-EV project could develop a strategy for growing and building synergy actions with selected initiatives and projects. This Synergy Process for the project length (2021 – 2024) will be in accordance with goals and main objectives of the INCIT-EV project. This document identifies short term objectives, to be achieved during the 3-year period and it will add to update of this report.



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## 4 CONCLUSION

The stimulation of strategic cooperation between stakeholders involved and the encouragement of the synergies among European related projects should represent a priority for Research and Innovation European programs. Interaction and synergies between various types of stakeholders, organizations and projects must be promoted and the projects themselves should generate synergies in accordance with the expected impact of the topic of INCIT-EV.

Accordingly, the report investigated the possible synergies and links that could be developed with other European projects and initiatives. The existence of an ample documentation sources makes possible to create synergies between the projects already closed or ongoing, leading to the addition of added value and use of existing resources.

The scan for projects specifically addressing e-mobility charging have done:

14 H2020 projects, 4 FP7 projects, 6 other initiatives and 6 networks. From a total of 36 European projects and other initiatives more than 19 have been identified to establishing synergies. Developing synergies evaluation tool will become very important in selecting and ranking the projects for which there is considerable potential in establishing synergies. To do this we have developed a matrix of potential synergies. The Synergies Matrix was elaborated to select in 5 steps the projects for building synergies. The partners will be able to select and use, and furthermore to establish synergies with selected European projects/initiatives for producing other resources with a high added value. The detailed list of the 19 initiatives and projects with the potential synergy actions is presented.

This report has so far described the state of potential synergies with other projects and initiatives. There are places to continue the development of the actions described and to follow up.

A Plan of INCIT-EV Synergy Process to coordinate and create synergies will be created and presented in the next update of D10.4 and D10.1. The monitoring of synergy actions will be implemented in early 2021 and it will be in line with the communication and dissemination strategy of the INCIT-EV project.





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## ANNEX1- SYNERGIES MATRIX

INCIT-EV synergie matrix								
Static synergie:	existing outcomes generated by past projects				Ranking:	***- HIGH – the resource is relevant for INCIT-EV objectives **- Moderate – the resource could be relevant for INCIT-EV objectives *- LOW – the resource is relevant for the general topic - - not at all		
dynamic synergie:	ongoing projects, network, platform, etc							
Possible synergie actions:	case studies surveys stakeholders methods/data networking conference events training .....							



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FP7											
responsible partner	WP/TK	Projet	Duration	information	synergie: static or dynamic	Coordinator country	call	web site	contact	Possible synergies	Ranking
Vedecom/Polito/CIRCE	WP3/4	FABRIC	From 2014-01-01 to 2017-12-31, closed project	FeAsiBility analysis and development of on-Road charging solutions for future electric vehicles	Static	Greece	FP7 TRANSPORT	<a href="http://www.fabric-project.eu/www.fabric-project.eu/index.html">http://www.fabric-project.eu/www.fabric-project.eu/index.html</a>		specifications/use case	***
UL (IRI UL)	WP4	UNPLUGGED	From 2012-10-01 to 2015-03-31, closed project	Wireless charging for Electric Vehicles:UNPLUGGED project aims to investigate how the use of inductive charging of Electric Vehicles (EV) in urban environments improves the convenience and sustainability of car-based mobility. In particular, it will be investigated how smart inductive charging infrastructure can facilitate full EV integration in the urban road systems while improving customer acceptance and perceived practicality.	static	Germany	FP7-TRANSPORT	<a href="http://unplugged-project.eu/">http://unplugged-project.eu/</a> , <a href="https://egvi.eu/project-highlight/unplugged-inductive-charging-for-electric-vehicles-february-2014/">https://egvi.eu/project-highlight/unplugged-inductive-charging-for-electric-vehicles-february-2014/</a>	Axel Barkow <a href="mailto:barkow@fka.de">barkow@fka.de</a>	Methods/data	**
		COTEVOS	From 2013-09-01 to 2016-02-29, closed	Concepts, Capacities and Methods for Testing EV systems and their interOperability within the Smartgrids	static	Spain	FP7-TRANSPORT				*
ATOS	WP5/6	e-DASH	From 2011-09-01 to 2014-11-30	Electricity Demand and Supply Harmonizing for EVs	static	Germany	EGVI	<a href="https://egvi.eu/project-highlight/e-dash-electricity-demand-and-supply-harmonization-for-evs-july-2014/">https://egvi.eu/project-highlight/e-dash-electricity-demand-and-supply-harmonization-for-evs-july-2014/</a>	<a href="mailto:Martin.Wagner">Martin Wagner</a>	Case study	**
H2020											
responsible partner	WP/TK		Duration		kind of synergy: static or dynamic	Coordinator country	call	web site	contact	Possible synergies	Ranking
		ELECTRIFIC	From 2016-09-01 to 2019-08-31	Enabling seamless electromobility through smart vehicle-grid integration	static	Belgium	transport				*
Avere	WP10	MEISTER	From 2018-09-01 to 2021-08-31, ongoing project	Mobility Environmentally-friendly, Integrated and economically Sustainable Through innovative Electromobility Recharging infrastructure and new business models	dynamic	Spain	H2020-MG-2017-Two- Stages	<a href="http://www.meister.eu/">http://www.meister.eu/</a>		events/networking	***
		Ruggedised	From 2016-11-01 to 2021-10-31, ongoing project	Rotterdam, Umea and Glasgow: Generating Exemplar Districts In Sustainable Energy deployment	dynamic	Netherlands					*
Avere/RSA	WP 7/8	NeMo	From 2016-10-01 to 2019-09-30	NeMo : Hyper-Network for electroMobility	static	Greece	H2020-GV-2015	<a href="http://www.nemomobility.eu/">http://www.nemomobility.eu/</a>		evolution of protocols, standards and business models	**
		EMEurope	From 2016-10-01 to 2021-09-30,	ERA-NET Cofund Electric Mobility Europe	dynamic	Germany					*
		lif-E-Buoy	From 2018-03-01 to 2018-07-31	Compact hydro generator for electric vehicles charging stations (to serve as an energy lifebuoy)	static	Hungary					*
		CIVITAS ECCENTRIC	From 2016-09-01 to 2020-11-30	Innovative solutions for sustainable mobility of people in suburban city districts and emission free freight logistics in urban centres.	dynamic	Spain					*
		EVERLASTING	From 2016-09-01 to 2021-02-28, ongoing project	Electric Vehicle Enhanced Range, Lifetime And Safety Through INGenious battery management	dynamic	belgium					*
		MobileBattery	From 2015-04-01 to 2017-12-31, closed project	Mobile Energy System for recharging, energy buffering and long-distance travelling	static	Germany					*
POLITO	WP7	ASSURED	From 2018-10-01 to 2021-09-30	fASt and Smart charging solutions for full size URban hEavy Duty applications	dynamic	Belgium	H2020-GV-2017	<a href="https://assured-project.eu/">https://assured-project.eu/</a>	Paolo Guglielmi	case study, user and cities need.	**
				Electric LOsSES Balancing through integrated Storage and power Electronics towards increased synergy between Railways and electricity distribution networks	dynamic	Italy	H2020-EU.3.3.4	<a href="https://cordis.europa.eu/project/id/774392">https://cordis.europa.eu/project/id/774392</a>		specifications/use case	*/**
ENEDIS/EDF	WP4	E-Lobster	From 2018/07/01 to 2021/10/30		dynamic	Spain	H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport	<a href="https://cordis.europa.eu/project/id/875187/ft">https://cordis.europa.eu/project/id/875187/ft</a>			***
RENAULT	WP7/9	USER-CHI	From 01/02/2020 to 31/01/2024	innovative solutions for USER centric Charging Infrastructure	dynamic	Spain		<a href="https://eip-its-platform.eu/activities/monitoring-and-harmonisation-">https://eip-its-platform.eu/activities/monitoring-and-harmonisation-</a>		specifications/use case	***
MRA	WP7/8/9	IDACS	1/1/2016 till 31/12/2020	Installing and harmonising National Access Points	static	Netherlands	EU EIP PSA			knowing requirements on publishing charging station	**
We Drive Solar	WP7/8/9	IRIS Smart Cities	1 oct 2017 to 1 oct 2022, ongoing	Demonstration of smart energy districts, including V2G charging e-cars and stationary battery.	dynamic	Netherlands	H2020-EU.3.3.1.	<a href="https://iris.smartcities.eu/">https://iris.smartcities.eu/</a>	Bart van der Ree	Exchange of information.	**
				The vision of ELVITEN is to propose replicable usage schemes, consisting of support services, ICT tools and policies, to boost the usage (ownership or sharing) by private and professional users of all categories of EL-Vs (bicycles, scooters, tricycles and quadricycles) and to demonstrate them in 6 European Cities with three principal aims: i) to make users more familiar and facilitate them to use EL-Vs instead of ICE vehicles for their private transport and for light urban deliveries, ii) to collect rich information sets made of real usage data, traces from dedicated ICT tools, and users' opinions after real trips, so as to iii) generate detailed guidelines and business models for service providers, Planning Authorities and manufacturers in order to make EL-Vs more attractive and more integrated in the transport and electricity networks.	static	Greece	H2020	<a href="mailto:villy.portouli@ics.gr">villy.portouli@ics.gr</a>	<a href="https://www.elviten-project.eu/en/">https://www.elviten-project.eu/en/</a>	Project finished on 31/10/2020. Conclusions, charging behaviour and business models for light electrical vehicles are available.	*/**



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Platforms											
responsible partner	WP/TK	name	Duration	information	kind of synergy: static or dynamic	Coordinator country	call	web site	contact	Possible synergies actions	Ranking
Avere	WP10	platform for Electromobility	on going	The aim of the Platform is to drive the development, implementation and support for sustainable European Union policies, programmes and initiatives to move people and goods by electro-mobility.	dynamic			<a href="https://www.platformelectromobility.eu/">https://www.platformelectromobility.eu/</a>		events/ press release	***
		electromobility europe	on going	Building on the achievements, experiences, networks and results of the ERA-NET Plus initiative Electromobility+ (electromobility-plus.eu) 19 European national and regional government-related organisations with a strong interest in advancing electric mobility in Europe set up an ERA-NET Cofund to further advance electric mobility in Europe: the Electric Mobility Europe. This initiative is designed to take transnational e-mobility research and policy exchange towards deployable solutions.	dynamic		ERA-NET	<a href="https://www.electromobilityeurope.eu/">https://www.electromobilityeurope.eu/</a>			*
Avere	WP10	ERTRAC	on going	The European Road Transport Research Advisory Council (ERTRAC) is the European Technology Platform (ETP) for Road Transport. ERTRAC is recognized and supported by the European Commission.	dynamic		ERA-NET	<a href="https://www.ertrac.org/index.php?page=what-is-ertrac">https://www.ertrac.org/index.php?page=what-is-ertrac</a>		events/networking	**
		EPoSS	on going	EPoSS, the European Technology Platform on Smart Systems Integration, is an industry-driven policy initiative, defining R&D and innovation needs as well as policy requirements related to Smart Systems Integration and integrated Micro- and Nanosystems.	dynamic			<a href="https://www.smart-systems-integration.org/vison-mission">https://www.smart-systems-integration.org/vison-mission</a>			*
		EPIT SNET	on going	European Technology & Innovation Platforms (ETIPs) have been created by the European Commission in the framework of the new Integrated Roadmap Strategic Energy Technology Plan (SET Plan) by bringing together a multitude of stakeholders and experts from the energy sector.	dynamic		SET plan	<a href="https://www.etip-snet.eu/about/etip-snet/">https://www.etip-snet.eu/about/etip-snet/</a>			*
AVERE	W10	chargeup europe association	on going	ChargeUp Europe is an EV charging infrastructure industry alliance founded by Allego, ChargePoint and EVBox Group. We want to bring together EV charging infrastructure sector players to work together to pursue the development and rollout of high quality infrastructure throughout Europe.	dynamic		private	<a href="https://www.chargeupeurope.eu/">https://www.chargeupeurope.eu/</a>		exchanges of information about the use case. Networking with the members of association	**
Networks/ Association											
responsible partner	WP/TK	name	Duration	information	kind of synergy: static or dynamic	Coordinator country	call	web site	contact	Possible synergies actions	Ranking
Avere	WP10	EGVIA: European Green Vehicle Initiative Association	start 2013	The European Green Vehicles Initiative Association (EGVIA) is an international non-profit making association engaged with the European Commission into the EGVIA cPPP in order to represent the private side of the partnership.	dynamic	n/a	smart green and integrated transport	<a href="https://egvia.eu/event/energy4transport-workshop-21-october-2019-brussels/">https://egvia.eu/event/energy4transport-workshop-21-october-2019-brussels/</a>	Stephan Neugebauer (BMW Group) Chairman	conferences/events/networking	**
Avere	WP10	Polis network European green deal	on going	POLIS is the leading network of European cities and regions working together to develop innovative technologies and policies for local transport	dynamic		n/a	<a href="https://www.polisnetwork.eu/">https://www.polisnetwork.eu/</a>		conferences/events	**
		Energies Cities	on going	Energy Cities is a network of 1,000 local governments in 30 countries. We believe that the energy transition is about more than renewable energy or great technologies: It is about a wise use of resources while strengthening local participation and well-being in a democratic Europe.	dynamic			<a href="https://energy-cities.eu/best-practice/mobi-e-mobility-network/">https://energy-cities.eu/best-practice/mobi-e-mobility-network/</a>		conference/events	*
MRA		EVI Global EV Pilot City Programme	ongoing	As one of the main pillars of the EV30@30 Campaign	dynamic	International Energy Agency	n/a		Marine Gorner	disseminate results	*
MRA		Eurocities		<a href="https://eurocities.eu/">https://eurocities.eu/</a> Eurocities is the network of	dynamic	n/a	n/a			disseminate results	*



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OTHER											
responsible partner	WP/TK	Projet	Duration	information	kind of synergy: static or dynamic	Coordinator country	call	web site	contact	Possible synergies actions	Ranking
We Drive Solar	WP7/8/9	Smart Solar Charging Region Utrecht EVI Pilot City Programme	1 jan 2017 to 31 dec 2021	Development and demonstration of large scale V2G charging network in different use cases.	dynamic	Netherlands		<a href="https://smartsolarcharging.eu/en/">https://smartsolarcharging.eu/en/</a>	Bart van der Ree	Exchange of information	**
Avere/vedecom	WP3	Charge Initiative	on going	demonstrator to applied ISO15118/France gets in order to deploy next-generation electric mobility	dynamic	France		<a href="http://www.vedecom.fr/la-france-se-met-en-ordre-de-marche-pour-deployer-la-mobilite-electrique-nouvelle-generation">http://www.vedecom.fr/la-france-se-met-en-ordre-de-marche-pour-deployer-la-mobilite-electrique-nouvelle-generation</a>		Exchange of information	**
LINKS	WP6	e-SMART	01/10/2019 to 31/03/2022	The main objective of e-SMART is to design and test a set of transnational operational instruments for public and private technicians to plan e-mobility infrastructure and services in passengers and freight transports in the framework of smart grid and smart territories	dynamic	Italie	e-Mobility Smart Grid For Passengers and Last Mile Freight Transport in the Alpine Space	<a href="https://www.alpinospace.eu/projects/e-smart/en/contact">https://www.alpinospace.eu/projects/e-smart/en/contact</a>	Cristina.Cavicholi@rseweb.it	organize periodic meetings LINKS-RSE to share progresses and results of the activities carried out in the two projects	***



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