



This project has received funding from the European Union's Horizon 2020 research and innovation programme under the grant agreement No 875683

# INCIT-EV



Large demonstration of user centric urban and long-range charging solutions to boost an engaging deployment of Electric Vehicles in Europe



**Kick-off Meeting 22/01/2020**

Renault Technocentre - Guyancourt / France





# Partners Introduction

**8 countries : Estonia, France, Germany, Italy, The Netherlands, Slovenia, Spain, Turkey**

**33 Partners :**





# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



We are a technology centre funded in 1993, seeking to provide innovative solutions for a **SUSTAINABLE DEVELOPMENT**, composed by more than **180 professionals**. Along these years, CIRCE has carried out more than **1.500 projects**

**14** National projects

**61** Horizon2020 Programme and FP7

> **19** Coordinated

**+260 million €**

<b>Partner Name</b>	RENAULT SAS
<b>Partner's type</b>	<i>Technological Center</i>
<b>Key field of expertise</b>	<i>Renewable Energies, Smart Grids and Mobility, Energy Efficiency</i>
<b>Website</b>	<a href="http://www.fcirce.es/">http://www.fcirce.es/</a>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	<b>Miguel Zarzuela</b>
Financial contact	Miguel Zarzuela
Legal contact	Miguel Zarzuela
WP3 Leader	<b>Oscar García-Izquierdo</b>
Participant member	<b>José Francisco Sanz</b>
Participant member	Juan Luis Villa

**CIRCE** led the **proposal preparation** of the project. **CIRCE** now leads WP3· related with the **development of innovative charging solutions**. Furthermore, **CIRCE** leads the supervision of the **use cases in Saragossa (V2G UC6, SWPT UC7) and DWPT UC3 in Satory**

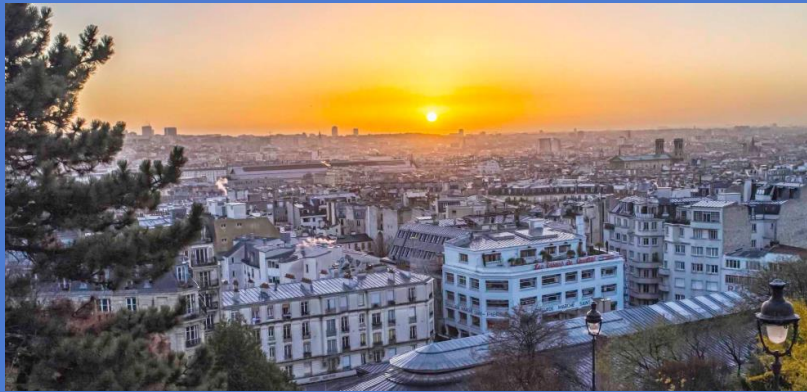


# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



France

<b>Partner Name</b>	Ville de Paris
<b>Partner's type</b>	<i>Municipality</i>
<b>Key field of expertise</b>	<i>City</i>
<b>Website</b>	<a href="https://www.paris.fr/">https://www.paris.fr/</a>



Place de la Nation  
Cours de Vincennes  
DWPT demo site

Participants	
Key contact / Project Manager	Thierry Bourdas
Financial contact	
Legal contact	
Participant member	Julien Brasselet

**WP7 Urban demo for the Paris Contactless Dynamic Charging Use Case**



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



**VEDECOM, hub de recherche coopérative, créé en 2014**  
VEDECOM, a cooperative research hub, created in 2014

3 domaines de recherche - 3 fields of research  
1 centre de formation - 1 training center


Industriels  
Académiques  
Territoires

150 R&D including  
45 PhD students  
75 doctors  
1 HDR

200 employees

Vehicle electrification  
Driving delegation and connectivity  
Shared mobility and energy

FORMATION TRAINING



VEDECOM was one of the two demonstration sites of the FABRIC project <https://www.fabric-project.eu/>



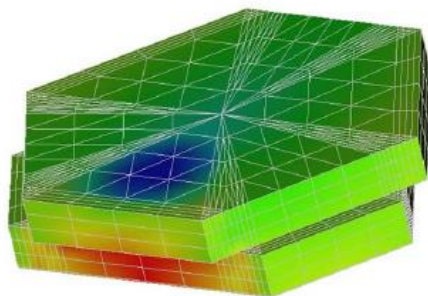
<b>Partner Name</b>	VEDECOM
<b>Partner's type</b>	Research and Technology Organisation
<b>Key field of expertise</b>	<i>Innovative Charging Systems &amp; Infrastructure</i> <i>Connected Autonomous Vehicle</i>
<b>Website</b>	<a href="http://www.vedecom.fr/">http://www.vedecom.fr/</a>

<b>Participants</b>	
<b>Key contact / Project Manager</b>	<b>Stéphane Laporte</b>
<b>Financial contact</b>	Céline Amaury
<b>Legal contact</b>	Mohamed Cherif Rahal
<b>Participant member</b>	<b>Emilia Suomalainen</b>
<b>Participant member</b>	<b>Zariff Meira</b>
<b>Participant member</b>	<b>Karim Kadem</b>

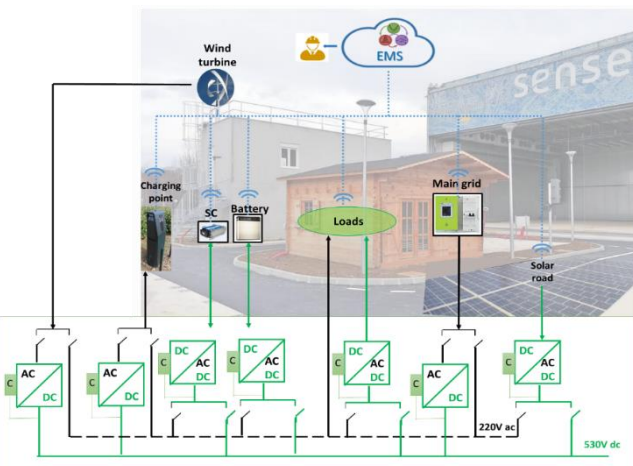
VEDECOM will contribute to **WP 3** (T3.4 Leader ) & **WP 4** and will co-design the DWPT system for UC2 – Paris charging lane in urban area  
VEDECOM will lead **WP8** and Task 8.3 (UC3 - Versailles-Satory e-road)  
and will contribute to **WP 9** (Task 9.5 Leader)



Full scale accelerated pavement testing facility



Modelling of removable concrete pavement element



Sense City platform facility with micro-grid



PV-installation on Sense City

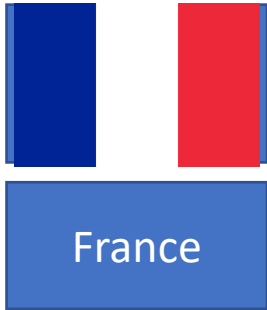
<b>Partner Name</b>	Université Gustave Eiffel (former IFSTTAR)
<b>Partner's type</b>	Research and technology organisation
<b>Key field of expertise</b>	Civil and urban engineering, transportation, vehicles, infrastructures for energy
<b>Website</b>	<a href="https://www.univ-gustave-eiffel.fr/">https://www.univ-gustave-eiffel.fr/</a>

<b>Participants</b>	Pierre Hornych, Nicolas Hautière, <b>Alexandre De Bernardinis</b> , <b>Thierry Sedran</b> , Mai Lan Nguyen, Thomas Gabet, <b>Akli Berri</b> , Virginie Deniau, Jimmy Armoogum
<b>Key contact / Project Manager</b>	Pierre Hornych
<b>Financial contact</b>	Fabienne Molinari
<b>Legal contact</b>	Cyrille Gonon

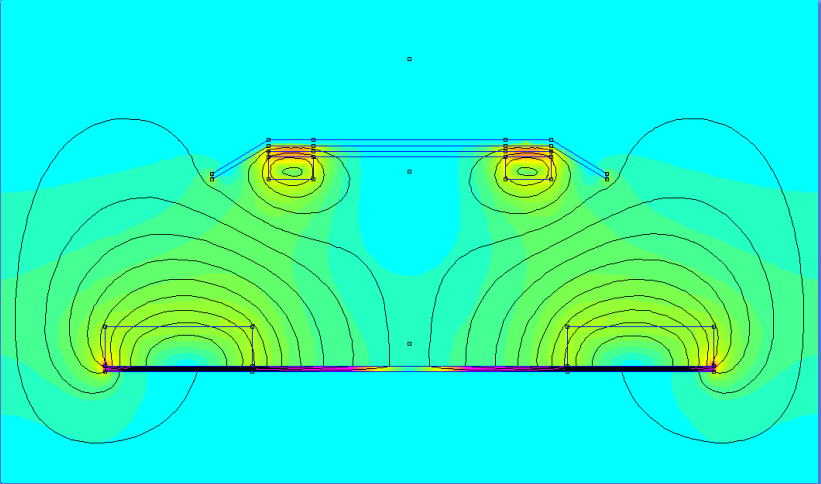
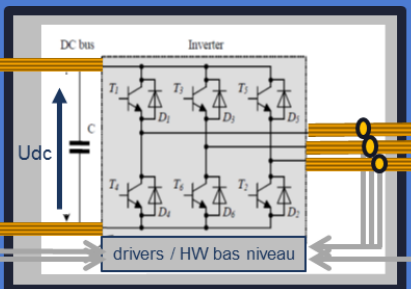

Leader of WP4 on Grid, urban and road infrastructure upgrading  
 Participant of WP2 on socio-economic analysis of electromobility  
 Participant of WP7 and WP8, concerning development of dynamic wireless charging demonstrators (urban and extra-urban)



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



<b>Partner Name</b>	PSA Group
<b>Partner's type</b>	<i>Large Company</i>
<b>Key field of expertise</b>	<i>Car Maker - Power electronic, EMI</i>
<b>Website</b>	<a href="https://www.groupe-psa.com/fr/">https://www.groupe-psa.com/fr/</a>

Participants	<b>Olivier Bouttaz, Eric Gimet</b>
Key contact / Project Manager	Olivier Bouttaz, Eric Gimet
Financial contact	Christophe Marchand
Legal contact	Carla Gohin
Participant member	Olivier Bouttaz
Participant member	Eric Gimet
Participant member	Marco Klingler

Charging Systems  
Business Models / Replication Strategies / Standards

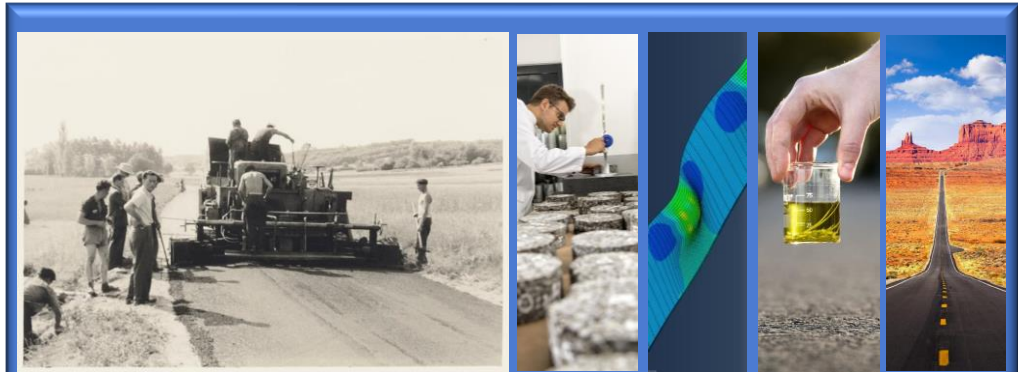


# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



FRANCE

<b>Partner Name</b>	COLAS
<b>Partner's type</b>	<i>Large company</i>
<b>Key field of expertise</b>	<i>Construction of infra for transport</i>
<b>Website</b>	<i>www.colas.com</i>



Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	<b>Yann LEFEUVRE</b>
Financial contact	Sophie BIGNAULT
Legal contact	Sophie BIGNAULT
Participant member	<b>Laurent BRISSAUD</b>
Participant member	<b>Issam HASNAOUI</b>
Participant member	<b>Valentin SCHWARTZ</b>

FLOWELL



wattway



mobility by COLAS



WP4 – Grid & road infra upgrading  
 WP7 & UC #2 – demo site in Paris, dynamic wireless charging in urban areas  
 WP9 – replication, business models & exploitation strategies



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Eurovia is the European leader in the construction of transport infrastructure

- we have an international research centre based in France, dedicated to innovation
- through Eurovia and Vinci (Energies, Highways), we have a global view of the project. VINCI Energies as an integrator is expert in power conversion systems, power management system, system integrator and electrical contractor.

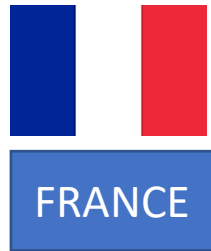


<b>Partner Name</b>	EUROVIA
<b>Partner's type</b>	<i>Large company</i>
<b>Key field of expertise</b>	transportation infrastructure (building and maintenance)
<b>Website</b>	<i>www.eurovia.com</i>
<b>Participants</b>	
<b>Key contact / Project Manager</b>	Frédéric DELFOSSE
<b>Financial contact</b>	Bertrand POUTEAU
<b>Legal contact</b>	Ivan DROUADAINE
<b>Participant member</b>	Lionel GRIN
<b>Participant member</b>	Kamal BERRADA

**Partner of task 5.5 : Road infrastructure upgrading for dynamic wireless charging.**



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



For Enedis, the **Distribution System Operator** for **95 % of continental France**, the development of electric mobility is an opportunity to innovate and to strengthen our presence in the territories.

It is through a **local approach** that the integration of electric mobility is most tangible, and definitely a **collective adventure to industrialize** the right solution for each use case.

- 36 million customers
- 39 000 employees
- € 14 billion in revenue
- 1,4 million km of network



<b>Partner Name</b>	ENEDIS
<b>Partner's type</b>	<i>DSO</i>
<b>Key field of expertise</b>	<i>Electricity network, EV Integration</i>
<b>Website</b>	<a href="https://www.enedis.fr/">https://www.enedis.fr/</a>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	<b>Dominique BERTIN</b>
Financial contact	Rémy GARAUDE VERDIER
Legal contact	Rémy GARAUDE VERDIER
Participant member	<b>Karima BOUKIR</b>
Participant member	<b>Alban JEANDIN</b>
Participant member	Kévin MERCIER

- Provide grid expertise for charging systems development
- Implement grid connections for use case #2 and # 3
- Inform standard and policy for future grid integration



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Zaragoza is the 5<sup>th</sup> city of Spain with 675,000 inhabitants

Main actions of city council related with EV mobility:

- Deployment of Electric Buses
- N-S Tram and E-W Commuter
- Local public charging infrastructure
- 13 Park and Ride planned parkings with PV and EV charging
- INCIT-EV involvement

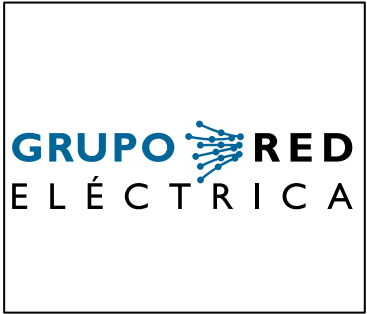
<b>Partner Name</b>	Ayuntamiento de Zaragoza (AYZ)
<b>Partner's type</b>	<i>City Council</i>
<b>Key field of expertise</b>	<i>Strategic Urban Planning, Deployment of electric chargers</i>
<b>Website</b>	<a href="https://www.zaragoza.es/">https://www.zaragoza.es/</a>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	Marina Abadía
Financial contact	Jose Antonio Chanca
Legal contact	Jose Antonio Chanca
Participant member	Jose Antonio Chanca

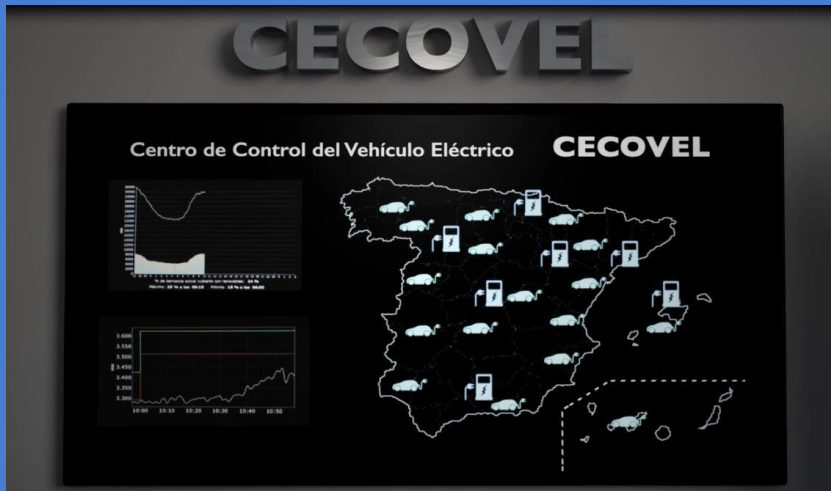
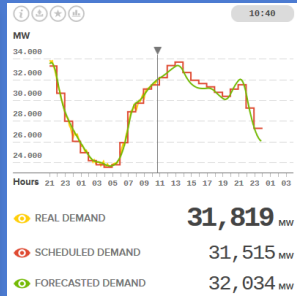
**AYZ** will participate in WP7, providing the required permissions and supervising the civil Works during the demo of the **use cases in Saragossa (V2G UC6, SWPT UC7)**.  
In addition, involvement in WP2 for mobility patterns in Saragossa



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Spain



Partner Name	REE
Partner's type	Large company
Key field of expertise	Electricity Transmission and System Operation
Website	<a href="http://www.ree.es">www.ree.es</a>

Participants	Víctor Bermúdez; Miguel Lorenzo
Key contact / Project Manager	Víctor Bermúdez
Financial contact	Miguel Lorenzo
Legal contact	Pablo Martín
Participant member	Víctor Bermúdez
Participant member	Víctor Bermúdez

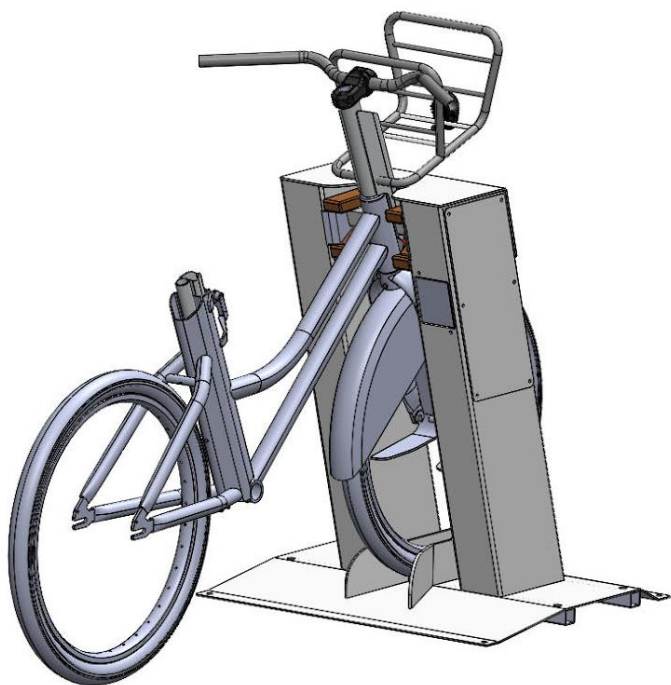
WP2, WP5, WP6, WP7, WP9, WP10,



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



BARCELONA



Partner Name	Idneo
Partner's type	SME
Key field of expertise	Engineering
Website	<a href="https://www.idneo.com/">https://www.idneo.com/</a>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	Alberto Adria (aberto.adria@idneo.com)
Financial contact	Alvar Arina(alvar.arina@idneo.com)
Legal contact	Gemma Boch (gbosch@ficsa.com)
Participant member	Guillermo Rodriguez (guillermo.rodriguez@idneo.com)
Participant member	<b>Vicent Ferrandiz</b> (vicent.ferrandiz@idneo.com)

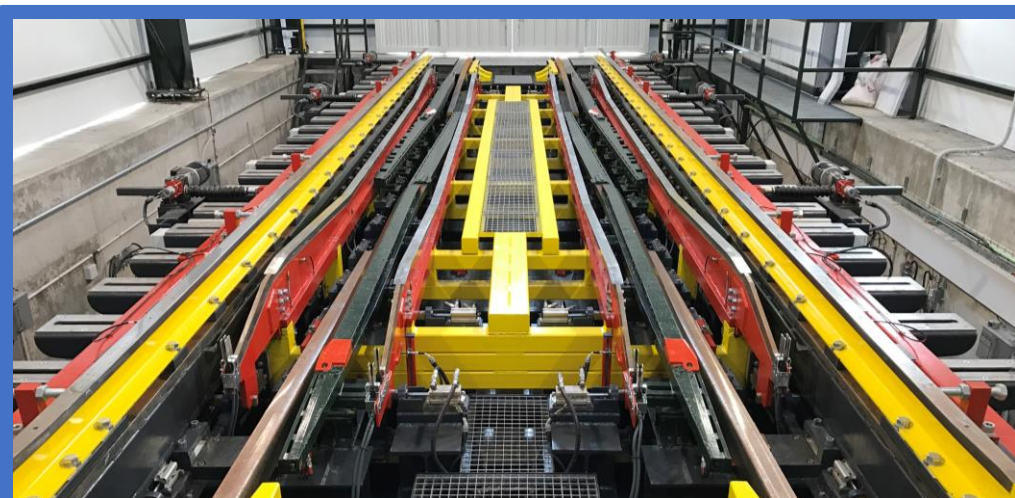
Development of electric bicycle Charging Station & DC/DC converter



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



SPAIN



**Founded:** 2007

**Current countries:** Spain, UK, Australia, México, Chile and Peru

**Employees:** more than 200 professionals

**R&D Projects:** more than 20

<b>Partner Name</b>	TRIA S.A.
<b>Partner's type</b>	<i>SME</i>
<b>Key field of expertise</b>	<i>Engineering and infrastructure</i>
<b>Website</b>	<a href="https://www.triaingenieria.com/">https://www.triaingenieria.com/</a>

Participants	
Key contact / Project Manager	<b>Mr Guillermo García</b>
Financial contact	Mr Alberto Navarro
Legal contact	<b>Mr Francisco Paños</b>
Participant member	Ricardo Daroca
Participant member	
Participant member	

**WP3:** Study and model the different materials to protect the magnetic fields and the weight load.

**WP7:** Integration and industrialization of all the elements developed, reaching a close to market TRL.



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Italy



<b>Partner Name</b>	City of Turin
<b>Partner's type</b>	<i>Public Authority</i>
<b>Key field of expertise</b>	<i>Infrastructure and Mobility</i>
<b>Website</b>	<a href="http://www.comune.torino.it">www.comune.torino.it</a>

In **2018** the City of Turin launched a **call for proposals** for charging infrastructures, 5 companies (Be Charge, Enel X, Iren, EnerMia, Duferco Energia) have applied proposing about **400 charging facilities**.  
 The City currently has **2 companies** already **operational** on the territory:  
 Route 220, with n. 14 charging spots;  
 BlueTorino, with n. 161 charging spots.  
 Some large-scale commercial activities have installed charging infrastructures for public use.  
 Infrastructures and Mobility Department of the City of Turin is working on **updating mobility planning tools** (SUMP, Traffic Manual,...) to foster next years challenges.

Participants	<b>Mrs. Michela Pollone, Mrs. Marina Fochi</b>
Key contact / Project Manager	Mr. Giuseppe Chiantera
Legal contact	Mr. Roberto Bertasio
Participant member	Mr. Michele Fatibene
Participant member	Mrs. Daniela Silvi, Mrs. Silvia Gilli

- The City of Turin will supervise 5T and GTT, third parties in the project, for technical aspects
- We will be responsible for public spaces and public permits



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020

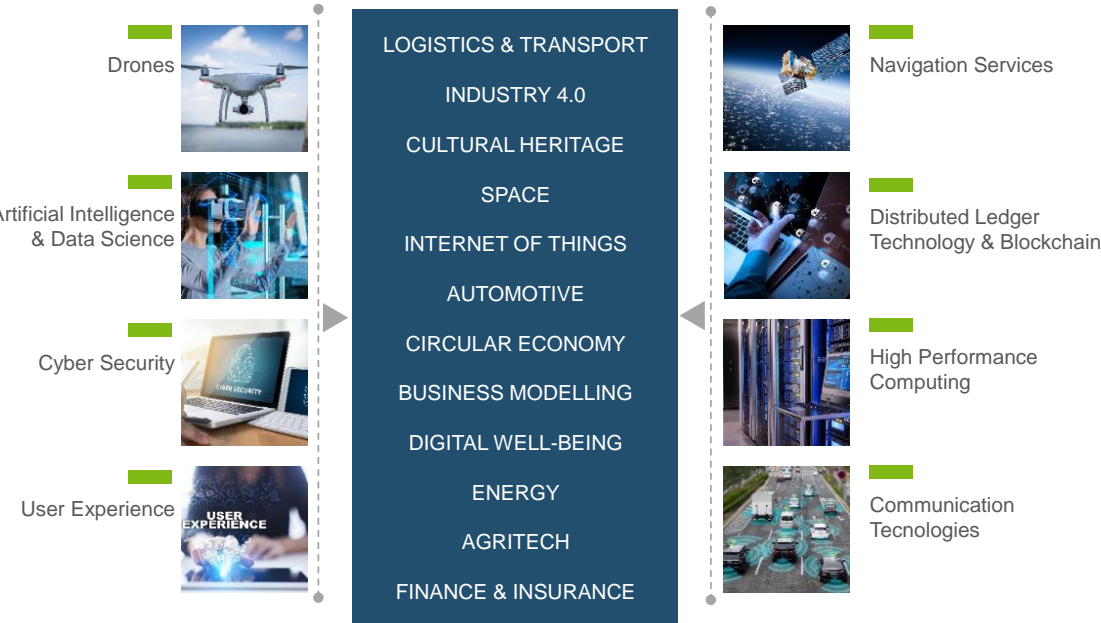


<b>Partner Name</b>	Fondazione LINKS
<b>Partner's type</b>	<i>Research Technology Organization</i>
<b>Key field of expertise</b>	<i>Logistic &amp; Transport, ICT and Energy</i>
<b>Website</b>	<a href="http://www.linksfoundation.com">www.linksfoundation.com</a>

<b>Participants</b>	<b>Dr. Maurizio Fantino, Mrs. Cristiana Botta</b>
<b>Key contact / Project Manager</b>	Mr. Maurizio Arnone
<b>Financial contact</b>	Mrs. Laura Pantano
<b>Legal contact</b>	Mr. Massimo Marcarini
<b>Participant member</b>	Claudio Pastrone, Orlando Tovar
<b>Participant member</b>	Hamidreza Mirtaheri

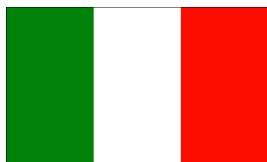
**LINKS is WP6 leader: “INCIT-EV platform for charging infrastructure planning and services provider development”, it is task leader for T2.1, T2.2 and T2.5 in WP2 (“User perception about charging infrastructure”) and it will support the ICT platform development in WP5 with a deep focus on system interoperability and component integration on the Italian demo**

## DOMAINS OF INTEREST





# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Italy



Founded in 1906, Politecnico di Torino has a long standing tradition of leadership of polytechnic culture. Three departments are involved in INCIT-EV project: the Department of Energy (DENERG), the Department of Environment, Land and Infrastructure Engineering (DIATI), and the Department of Control and Computer Engineering (DAUIN).

Reference Laboratories will be:

Power Electronic Innovation Center (PEIC)

Cars

Great experience in international projects:

- More than 230 FP7 approved
- Already 99 H2020 approved

Partner Name	Politecnico di Torino
Partner's type	University
Key field of expertise	Research and Education
Website	<a href="https://www.polito.it">https://www.polito.it</a>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	Prof. <b>Paolo GUGLIELMI</b>
Financial contact	Ms Laura RIETTO
Legal contact	Mrs. Paola CALLEGARI
Participant member	Prof. Francesco DEFLORIO
Participant member	Prof. Guido PERBOLI
Participant member	Dr. <b>Stefano MUSSO</b>

Three out of the 11 Department of the University involved:

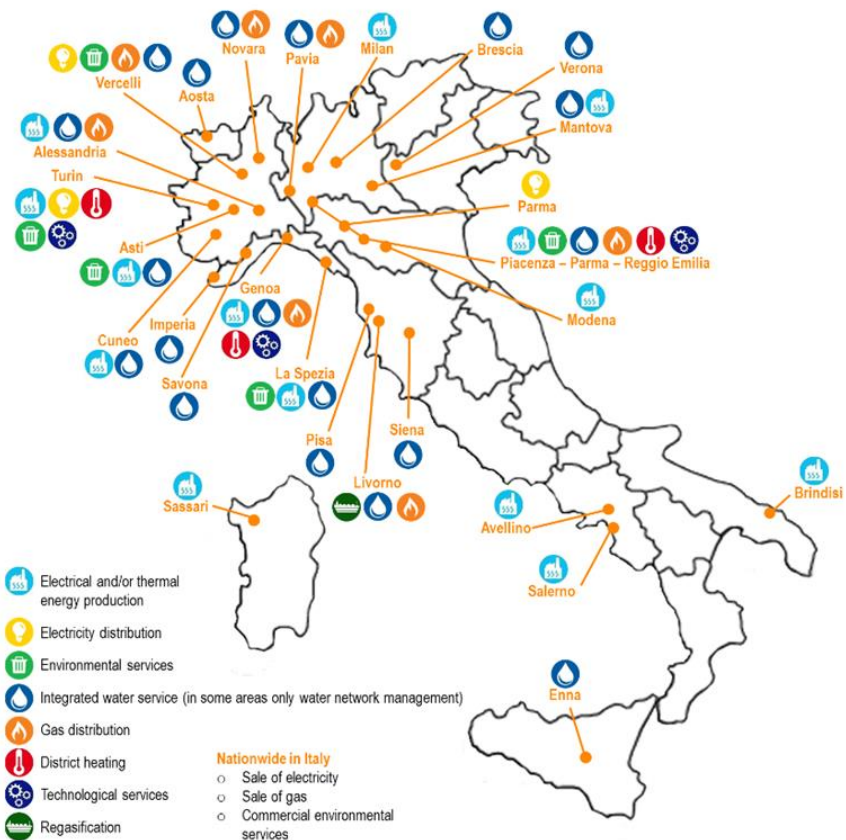
DENERG: WPs 3,5,8,9,11 Turin Pilot responsibility and PE converter design  
 DIATI: WPs 2,6,11 Transportation System and User behavior analysis + DSS  
 DAUIN: WPs 10,11 Analysis of business models and exploitation strategies



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



ITALY



<b>Partner Name</b>	IREN S.p.A.
<b>Partner's type</b>	<i>Large Company</i>
<b>Key field of expertise</b>	<i>Multi-Utility (energy, gas, water, services, e-mobility)</i>
<b>Website</b>	<a href="http://www.gruppoiren.it">www.gruppoiren.it</a>

<b>Participants</b>	<b>FEDERICO BONI CASTAGNETTI</b> <b>ENRICO POCHEITINO</b>
<b>Key contact / Project Manager</b>	Federico Boni Castagnetti
<b>Financial contact</b>	Maria Teresa Toscano
<b>Legal contact</b>	Federico Boni Castagnetti (a.i.)
<b>Participant member</b>	Mario Nicotera (IREN MERCATO)
<b>Participant member</b>	Emiliano Roggero (IRETI)

Support (as DSO and CPO/EMP) to the development of the Italian demo – Charging hub in a park-and-ride facility in Turin



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



**ITALY**

€58 M

Turnover (expected)

ROW 48%

Italy 52%

280+

Employees

4

Manufacturing Plants Worldwide

3

R&D Centers in EMEA and USA

41

Years on the market

<b>Partner Name</b>	Prima Electro
<b>Partner's type</b>	Large company
<b>Key field of expertise</b>	Electronics and fiber laser sources
<b>Website</b>	www.primaelectro.com

Participants	2
Key contact / Project Manager	<b>Francesco Sgandurra</b>
Financial contact	Marika Giuffrida
Legal contact	Paolo Calefati
Participant member	Francesco Sgandurra
Participant member	<b>Eleonora Marino</b>

Development and manufacturing of:

- 150 kW unidirectional DC/DC converter (fast charge)
- 3,6 kW bidirectional DC/DC converter (slow charge)



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



ITALY

<b>Partner Name</b>	FPT INDUSTRIAL S.P.A. + IVECO as linked third party
<b>Partner's type</b>	<i>Large company, SME, University etc...</i>
<b>Key field of expertise</b>	<i>Powertrains, commercial vehicles</i>
<b>Website</b>	<a href="http://www.fptindustrial.com">www.fptindustrial.com</a> <a href="http://www.iveco.com">www.iveco.com</a>

<b>Participants</b>	<b>Roberto Marengo</b>
<b>Key contact / Project Manager</b>	Roberto Marengo
<b>Financial contact</b>	Elena Barbero
<b>Legal contact</b>	Marco Bertero
<b>Participant member</b>	Federico Cartasegna (FPT)
<b>Participant member</b>	Marco Aimo Boot (IVECO)

- Provide existing mission profile data on LCV
- Provide infrastructure to collect data from LCV fleet within the consortium (to be agreed)
- Provide an electric LCV (IVECO Daily) within Turin demonstrator

**FPT Industrial** is a brand of CNH Industrial, dedicated to the design, production and sale of **powertrains** for on and off-road vehicles, marine and power generation applications, as well as **axles** and **transmissions**.



**FPT Telematics** collects parameters and data from engines to offer state of the art assistance services. Data collected are used for engine performance monitoring and products and services continuous improvement

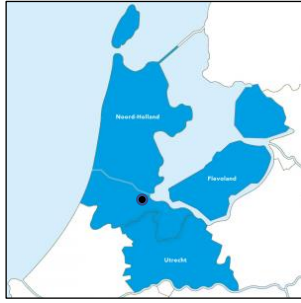


**IVECO** is a brand of CNH Industrial, one of the world leaders in road transportation. It designs, manufactures and sells a wide range of light, medium and heavy commercial vehicles for road/off road use.





# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



<b>Partner Name</b>	MRA-Electric (Amsterdam Region)
<b>Partner's type</b>	Regional government
<b>Key field of expertise</b>	Public charging infrastructure
<b>Website</b>	<a href="https://www.mrae.nl">https://www.mrae.nl</a>

MRA-Electric is a project organisation for stimulating electromobility in the three provinces surrounding Amsterdam: North-Holland, Flevoland and Utrecht. We support municipalities in developing EV-policy and implementing it.

Together with CPOs and municipalities and through a demand-driven strategy we have developed a network of 5.000 charge points. With the fast growth of charging demand and supply we need strategies for distributing supply more over private charging solutions as well and decreasing the peak demand on the grid. In smart charging we put the needs of the e-driver first: they should either not be disadvantaged, or have information, influence and benefits.

Participants	
Key contact / Project Manager	<b>Mr Pieter Looijestijn</b>
Financial contact	Mr Hans Wevers
Legal contact	Mr Pauline Kreuwel (province North-Holland)
Project Director	Mr Maarten Linnenkamp
Technical advisor	<i>Additional project member to be selected</i>

- MRA-Electric will develop and apply tools for shared *smart* private charging , with the aim of improving access to user-centric charging infra. USE CASE 1
- MRA-Electric will host and support *regional aggregated smart charging* (coordination: GFX and Total) and *community bi-directional smart charging* (coordination: WeDriveSolar). USE CASE 1



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



The Netherlands



Roaming  
Insights  
Invoicing



White label cloud system  
Enterprise integration  
Wholesale billing

Asset management  
Smart charging  
Support



<b>Partner Name</b>	GreenFlux
<b>Partner's type</b>	SME
<b>Key field of expertise</b>	<i>Electric Vehicle charging solutions</i>
<b>Website</b>	<a href="http://www.greenflux.com">www.greenflux.com</a>

<b>Participants</b>	<b>Lennart Verheijen, Bob Elders, Michel Bayings, Johan van Kooten</b>
<b>Key contact / Project Manager</b>	Michel Bayings
<b>Financial contact</b>	Lennart Verheijen
<b>Legal contact</b>	Lennart Verheijen
<b>Participant member</b>	Bob Elders
<b>Participant member</b>	Johan van Kooten

• **System integrator:**

Connecting chargers	Roaming solutions
Smart charging	Payment solutions

- Supporting use case in the Netherlands
- Supporting use case in Zaragoza



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



The Netherlands



<b>Partner Name</b>	We Drive Solar (WDS)
<b>Partner's type</b>	SME
<b>Key field of expertise</b>	Solar electric mobility services, bidirectional charging of shared e-cars
<b>Website</b>	<a href="http://www.wedrivesolar.nl">www.wedrivesolar.nl</a>
<b>Participants</b>	Robin Berg / Bart van der Ree (tbc)
<b>Key contact / Project Manager</b>	Robin Berg
<b>Financial contact</b>	Robin Berg
<b>Legal contact</b>	Robin Berg
<b>Participant member</b>	Bart van der Ree
<b>Participant member</b>	

In WP7:  
 Demonstrate 10 V2G bidirectional car charging systems  
 Demonstrate car sharing system: 5 solar powered Renault ZOE's



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



The Netherlands

<b>Partner Name</b>	PitPoint.EV
<b>Partner's type</b>	Large company
<b>Key field of expertise</b>	Electric Vehicle charging infrastructure
<b>Website</b>	<a href="http://www.pitpointcleanfuels.com">www.pitpointcleanfuels.com</a>



Participants	In <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	Niels Nobel
Financial contact	Maria Schagen
Legal contact	Michiel Buysing
Participant member	<b>Pierre-Olivier Ducouret</b>
Participant member	



Upgrading public charge network (up to 200 public chargers) for the purpose of cluster based smart charging, to better prevent grid overloads maintaining higher user friendliness. In close cooperation with consortium partners GreenFlux and MRA-Electric.



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



<b>Partner Name</b>	<i>EESTI ENERGIA AS (EE)</i>
<b>Partner's type</b>	<i>Large company / Industry</i>
<b>Key field of expertise</b>	<i>Energy production and grid services</i>
<b>Website</b>	<a href="https://www.energia.ee/en/">https://www.energia.ee/en/</a>

Participants	
Key contact / Project Manager	<b>Mr Indrek Karro</b>
Financial contact	Ms Kersti Karu
Legal contact	Mr Mihkel Härm
Participant member	<b>Mr Robert Aare</b>
Participant member	Ms Rahel Lindpär

**Eesti Energia's (with LTP Elektrilevi and partner EVBOX) main tasks in the project (UC5 – Tallinn periphery) include:**

- site selection, charger installation and maintenance;
- electricity offer and grid connection;
- creating service using V2G superfast charger(s) as flexibility providing asset;
- carrying out electricity quality measurements;
- business model development;
- system monitoring and testing.

**Eesti Energia**

- Founded: 1939
- Employees: 5000
- Clients: 700 000
- Sales revenue: 875 mln (2018)
- Profit: 106 mln (2018)

CLIENT SERVICES   RENEWABLE ENERGY   LARGE-SCALE ENERGY PRODUCTION   DEVELOPMENT   NETWORK SERVICES



Netherlands

**AC and DC charging station design up to 350W.**

**Power electronic design with bidirectional active and reactive power flow.**

**Storage system, Energy management and V2G project leader.**

<b>Partner Name</b>	EVBOX
<b>Partner's type</b>	<i>SME</i>
<b>Key field of expertise</b>	<i>EV charging infrastructure</i>
<b>Website</b>	<a href="https://evbox.com/">https://evbox.com/</a>

Participants	<b>Romain DUPONCHEEL</b>
Key contact / Project Manager	Romain DUPONCHEEL
Financial contact	Rob Blasman
Legal contact	Paulina Wisniewska
Participant member	Bjorn Utgart
Participant member	Sergejus Martinenas

DC charging station for EV  
 Power conversion expertise  
 SMART GRID experience



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Slovenia

ELES is one of the leading TSOs in Europe in terms of E-mobility integration into the Interconnected European Power System.

Our main achievement is the **E8 Concept**:

- It addresses remotely controlled smart charging with the focus on behavioural and technical aspects
- It addresses the alignment of e-mobility and power system infrastructure developments

Significant software:

- Professional tools for power system operation, for data analytics, for power asset diagnostics, for asset management etc.

<b>Partner Name</b>	ELES, d.o.o.
<b>Partner's type</b>	Large company
<b>Key field of expertise</b>	Electricity Transmission
<b>Website</b>	<a href="https://www.eles.si/en">https://www.eles.si/en</a>

Participants	
Key contact / Project Manager	<b>Ms Maša Repež Gril</b>
Financial contact	Ms Bojana Jančič
Legal contact	Mr Luka Sila
Participant member	Mr Uroš Salobir
Participant member	Mr Janez Humar
Participant member	Mr Uroš Podgoršek

- ELES will coordinate the Power System experts and represent the bridge to the e-mobility infrastructure development in WP6
- Due to a strong link between user behaviour and optimal infrastructure development, ELES will support and monitor developments within WP2



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



University of Ljubljana  
Faculty of *Electrical Engineering*



Slovenia

*University of Ljubljana (UL) is the oldest and largest higher education and scientific research institution in Slovenia.*

*The Faculty of Electrical Engineering (FE) is an educational, research and development institution covering the entire field of electrical engineering.*

*The Laboratory of Electricity Networks and Devices specializes in power systems research.*

*The research and development areas of the laboratory are Smart Grids (high penetration of distributed generation, electrical vehicles, flexible loads...), compensation devices, power quality and reliability of power systems.*

<b>Partner Name</b>	University of Ljubljana
<b>Partner's type</b>	University
<b>Key field of expertise</b>	Research and education
<b>Website</b>	<a href="http://www.fe.uni-lj.si">http://www.fe.uni-lj.si</a>

Participants	
Key contact / Project Manager	<b>Mitja Antoncic</b>
Financial contact	Renata Globevnik
Legal contact	Renata Globevnik
Participant member	<b>Dr. Leopold Herman</b>
Participant member	Dr. Bostjan Blazic

### Main tasks:

- Power Module within the Decision Support System (DSS);
- Stochastic EV Model that will consider the EV specific characteristics;
- EV Charging Model that will represent different CP technologies;
- Optimization techniques and models training.



# Atos



Spain

## Research & Innovation

Atos Research & Innovation (ARI) is the R&D hub for emerging technologies and a key reference for the whole Atos group. With almost 30 years of experience in running Research, Development and Innovation projects, we have become a well-known player in the EU context.

Our multidisciplinary and multicultural team has the skills to cover all the activities needed to run projects successfully, from scientific leadership to partnership coordination, from development of emerging technologies to the exploitation of project outcomes, with a strong focus on dissemination, innovation adoption and commercialization.

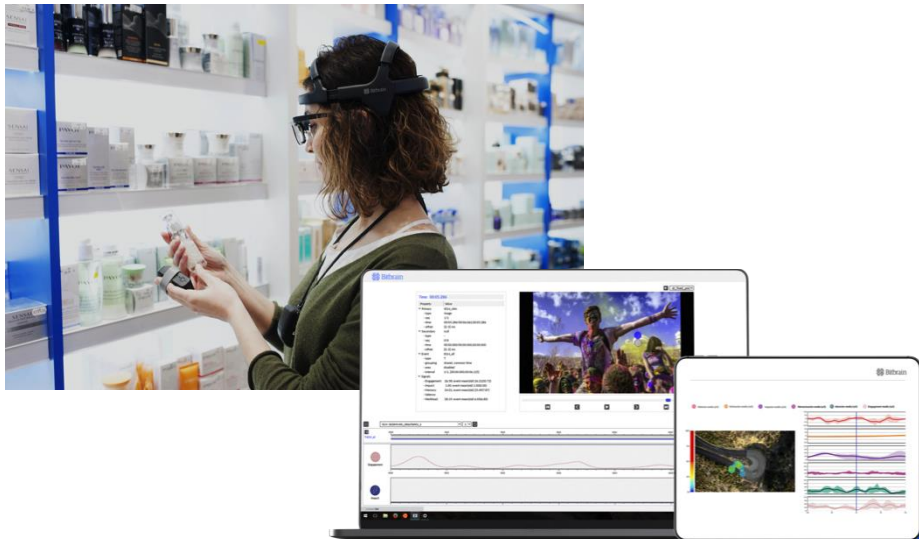
<b>Partner Name</b>	Atos Spain
<b>Partner's type</b>	<i>Industry</i>
<b>Key field of expertise</b>	<i>Business technologies</i>
<b>Website</b>	<i>www.atos.net</i>

Participants	<b>Martin Wagner</b>
Key contact / Project Manager	Iván Zaldivar
Key contact/ Project Director	Miguel Rodriguez Fuentes
Financial contact	Adolfo Alonso
Legal contact	Andrea Rossi
Participant member	Martin Wagner
Participant member	Javier Gomez

**WP5 Leader** - IT environment for improving the user charging experience (M3-M36)  
**Task leaders:**  
**T5.1:** Common Information Model (M4-M36)  
**T5.2:** ICT Platform and open APIS (M4-M36)  
**T5.4:** Interoperability enablers for the integration (Adaptors) (M4-M36)  
**T5.5:** Data governance and cybersecurity protection system (M4-M36)  
**T6.5:** DSS and Service Layer Integration and Orchestration engine (M19-M41)



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



<b>Partner Name</b>	BIT&BRAIN TECHNOLOGIES
<b>Partner's type</b>	<i>SME</i>
<b>Key field of expertise</b>	<i>Human Behavior Understanding, Neurotech</i>
<b>Website</b>	<i>www.bitbrain.com</i>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	<b>Luis Montesano</b>
Financial contact	Maria Angel Aso
Legal contact	María López
Participant member	Javier Minguez
Participant member	<b>Eduardo Horna</b>

Leader of WP2: User perception about charging infrastructure

Understanding of (future) users of EV vehicles w.r.t. charging:

1. Implicit association on users driver motives and concerns about EV
2. User experience in real conditions



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



Qi Europe provides business models and plans, economic insights and techno-financial assessment on emerging technologies for strategic alliances, competitive intelligence services, mergers and/or technology valuation

Qi Europe was responsible for the business models and feasibility analysis of the precursor project FABRIC (Dynamic Wireless Transfer technology) . <https://www.fabric-project.eu/> .

Partner Name	Qi Energy Assessment SL (Qi Europe)
Partner 's type	SME
Key Field of expertise	Business models in emerging technologies
Website	<a href="http://www.qieurope.com">www.qieurope.com</a>

Participants	Juan de Blas
Key contact / Project Manager	Juan de Blas
Financial contact	Javier Medina
Legal contact	Juan de Blas
Participant member	Juan de Blas
Participant member	Javier Medina

Qi Europe is the coordinator of **WP 9. “Business cases and exploitation strategies”** and participates in related previous WPs to gather the information needed to prepare this WP; namely, **WP2** user perspective, **WP7, task 7.5** and **WP8, task 8.5** evaluation of use-cases and **WP1** and **WP10** management and communication and dissemination activities



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



## Who we are

- ✓ Founded in 1978 - More than 40 years of experience in electromobility
- ✓ 200 members
- ✓ Absolute neutrality among sectors : our aim is to develop electromobility
- ✓ The most recognized authority and association in the domains of electromobility in France

## What we do

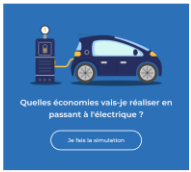
- ✓ Monitoring and lobbying
- ✓ Communication: barometers, “je-roule-en-électrique.fr” website
- ✓ events
- ✓ Participation in trade shows
- ✓ Animation of working groups
- ✓ Structuring of a network of regional associations
- ✓ Management of the ADVENIR program

<b>Partner Name</b>	AVERE France
<b>Partner’s type</b>	<i>Non profit organisation</i>
<b>Key field of expertise</b>	<i>Promoting electric mobility</i>
<b>Website</b>	<a href="http://www.aver-france.org/">http://www.aver-france.org/</a>

Participants	<b>Joseph Beretta</b> Cécile Goubet
Key contact / Project Manager	Cécile Goubet
Financial contact	Jocelyne Boulet
Legal contact	Joseph Beretta
Participant member	Joseph Beretta
Participant member	Cécile Goubet

### Communication and dissemination activities

- 10.1 Development of the Dissemination and Communication Strategy
- 10.2 Dissemination and public communication actions
- 10.3 Interaction and exploitation of synergies with other projects and initiatives
- 10.4 Public bodies, citizen and local stakeholders engagement through promotion activities: Workshops and Showcases





# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



TURKEY

- Bursa Metropolitan Municipality is local authority governing city of Bursa.
- Bursa is city with population of nearly 3 million and vibrant economic hub attracting industrial, commercial and agricultural activities. Two of the largest automotive plants (Renault and Fiat) in Turkey are located in Bursa.
- More than 750.000 cars are produced annually at the plants located in Bursa.
- It is planned to start mass production of EV in near future.

<b>Partner Name</b>	Bursa Metropolitan Municipality
<b>Partner's type</b>	<i>Public Authority</i>
<b>Key field of expertise</b>	<i>Infrastructure and mobility</i>
<b>Website</b>	www.bursa.bel.tr

Participants	<b>Mr. Şenol Özgür, Mr. Turan ALKAN</b>
Key contact / Project Manager	Mr. Şenol Özgür
Financial contact	Mr. Muhammed Kürşat Gürsoy
Legal contact	Mr. Muhammed Kürşat Gürsoy
Participant member	Mr. Turan ALKAN
Participant member	Mrs. Basak SAYGI-SAHIN

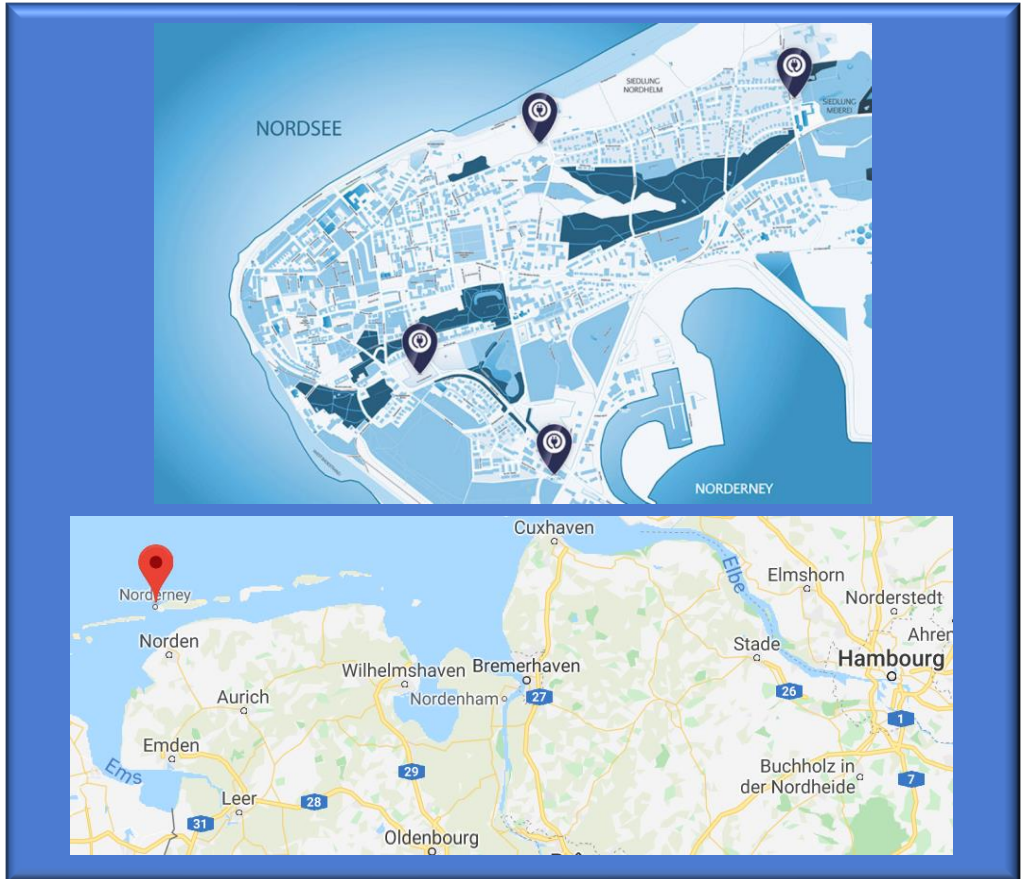
- BBB will take over the role as a follower to make use of the Decision Support System (DSS) in order to support the development of Action Plans within the city to foster a more sustainable mobility system



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



<b>Partner Name</b>	Stadtwerke Norderney GmbH
<b>Partner 's type</b>	Local utility company
<b>Key Field of expertise</b>	<i>Local network provider</i>
<b>Website</b>	<a href="http://www.stadtwerke-norderney.de">http://www.stadtwerke-norderney.de</a>



Participants	
Key contact / Project Manager	<b>Holger Schönemann</b>
Financial contact	
Legal contact	
Participant member	
Participant member	

WP9 follower site – will use the INCIT-EV platform DSS tool

# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020

**GROUPE RENAULT**



France



Electromobility European Leader

Partner Name	RENAULT SAS
Partner's type	<i>Large Company</i>
Key field of expertise	<i>OEM</i>
Websites	<a href="https://group.renault.com/">https://group.renault.com/</a> <a href="https://easyelectriclelife.groupe.renault.com/fr/">https://easyelectriclelife.groupe.renault.com/fr/</a>

Participants	Put in <b>bold BLUE</b> participant to KOM
Key contact / Project Manager	<b>Xavier SERRIER</b>
Research Programme Manager	<b>Jérôme Peyrard</b>
Legal contact	Nathalie Dayan
Financial contact	<b>Thierry Bernard</b>
Participant member	<b>Antoine Caillierez</b>
Participant member	<b>Christophe Larue</b>

- **Project Coordinator**
- **WP7 leader for Urban Demos**
- **Participant in Users, Charging technos, Business Models, Standardization, Communication tasks**



# **INCIT-EV Project Overview**

**GROUPE  
RENAULT**

Xavier SERRIER

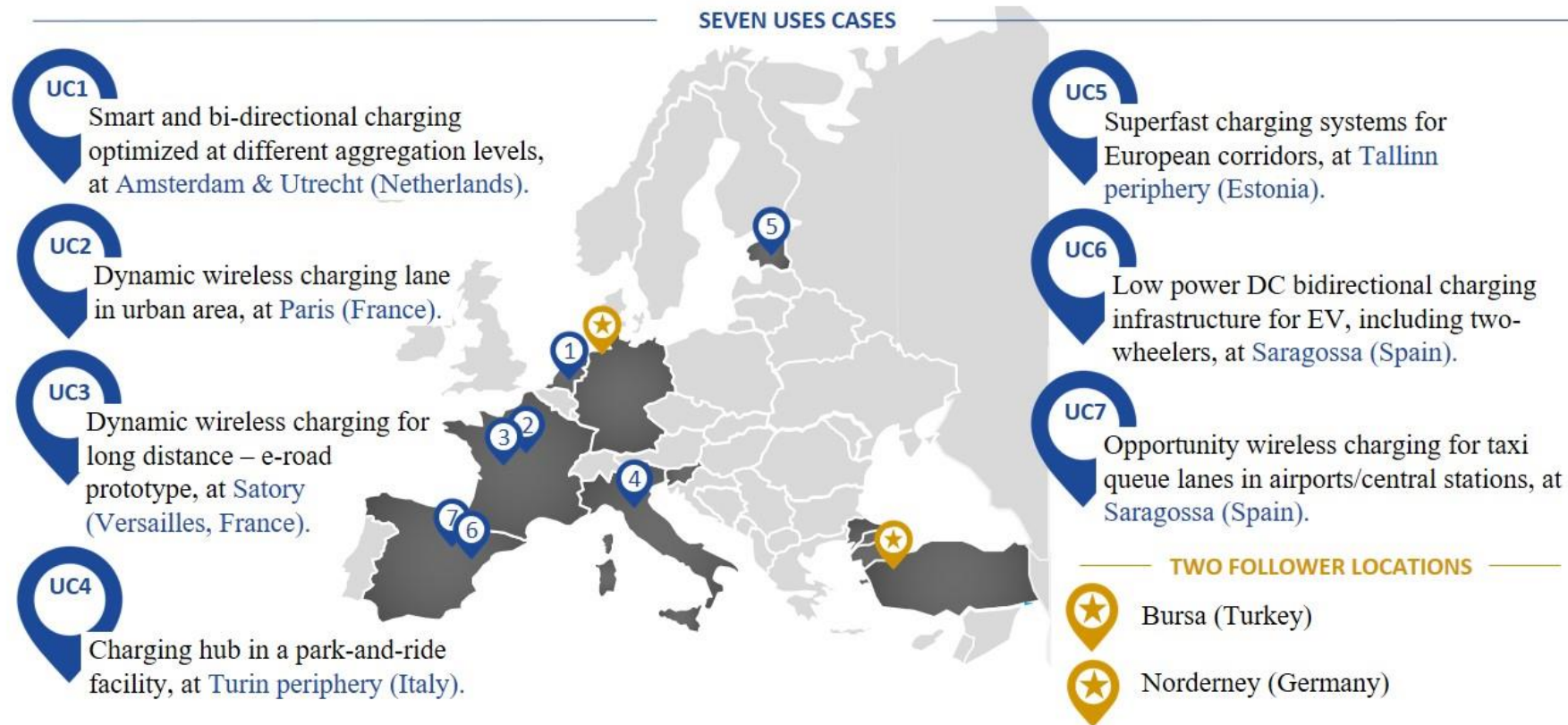


- Project Overview
- Key objectives and goals
- Methodology
- Strategy



## Project Overview :

INCIT-EV aims to demonstrate, at five demonstration environments including TENT-T corridors, an innovative set of **charging infrastructures, technologies and its associated business models**, ready to **improve the EV users experience** by considering both their conscious and unconscious preferences in their design, with the ultimate goal of **fostering the EV market share** in the EU.





**Goal 1: To deepen the knowledge about users' expectations and concerns regarding EV adoption and charging infrastructure use.**

**INCIT-EV will develop a method combining different techniques from the neuroscience, social psychology, mathematical psychology and statistics in order to collect and analyse relevant data in relation to end-users conscious and unconscious expectations and needs.**



**Goal 2: To design a set of innovative and interoperable charging solutions in urban, peri-urban and extra-urban areas following the users' expectations and looking for seamless integration in the existing infrastructures**

- **Scalable EV charging hubs** for exploiting synergies between different technologies.
- Innovative low power V2X charging infrastructure allowing energy trading office/home installations and EVs.
- **Smart charging technologies for optimizing the grid use at regional, community and local levels.**
- **Secure low power DC racks for LEVs** like e-bicycles and scooters.
- Opportunity **static wireless power transfer charging system for urban** environments.
- **Dynamic wireless power transfer charging solutions ready for urban** environments and **electric roads**, with specific test methods to ensure their **interoperability**.



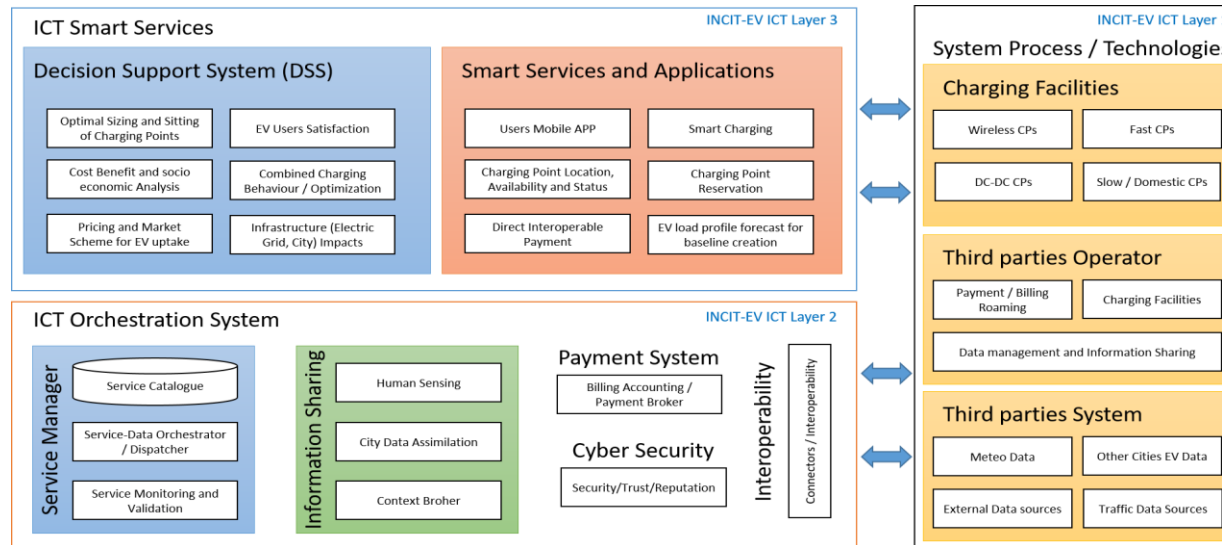
# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



**Goal 3: To develop a Platform integrating a Decision Support System for mobility planners and a set of Applications to improve the EV user charging and driving experience.**

INCIT-EV will develop a **DSS tool to support decision makers design** and evaluate **scenarios of charging infrastructure deployment**.

- **Electric infrastructure: identifying the effect of sizing and sitting of charging points**
- **Smart Energy: identifying the effect of different scenarios (V2G, grid congestion...)** in energy price and smart charging operation and the possibility to offer flexibility to the electrical grid.
- **Urban Mobility: identifying how EV penetration level, charging points location and technologies and grid constraints affect mobility and traffic.**



**Goal 4: To carry out a full demonstration campaign at 5 demonstration environments involving 7 use cases, and validate the INCIT-EV Platform at two follower locations.**

- **Amsterdam / Utrecht:** highly populated region with a significant fleet of EVs already in place.
- **Paris:** big city with air pollution and traffic management challenges.
- **Turin:** medium city looking to improve the connections between the periphery and the city centre.
- **Tallinn:** lack of connection with remote areas facing the challenge of weak grids.
- **Saragossa:** Medium city considered as logistic centre with a large fleet of personal light electric vehicles.

**Followers locations :** Norderney (island in North Germany) and Bursa coastal city in Turkey

**Goal 5: To promote the investment in charging infrastructure through attractive business models together with recommendations to solve regulatory and standardisation bottlenecks.**

**Goal 6: To engage mobility planners in new charging infrastructures adapted to the users' expectations, while promoting these solutions among the users, through communication and dissemination campaigns.**



# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



## WP Structure :

### Use cases & demo




### Techno bricks

**WP#7**  
UC deployment and demo in urban areas

- Dynamic Charging in Paris 
- Static charging in Zaragoza 
- Low power DC in Zaragoza 
- Smart charging in Utrecht 

**WP#2**  
User's perceptions and needs about charging infrastructures

**WP#8**  
UC deployment and demo in peri-urban and urban areas

- Dynamic charging for long range 
- Charging hub at park and ride in Torino 
- Superfast charging in Estonia / TEN T corridor 

**WP#3**  
User centric EV charging solutions

**WP#4**  
Grid and infrastructure upgrading for meeting users expectations

**WP#5**  
IT environment for improving the user charging experience

WP#1  
Management and Coordination

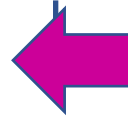
WP#11  
Ethics

WP#10  
Communication and Dissemination

WP#6 INCIT-EV platform for charging infrastructure planning and services provider

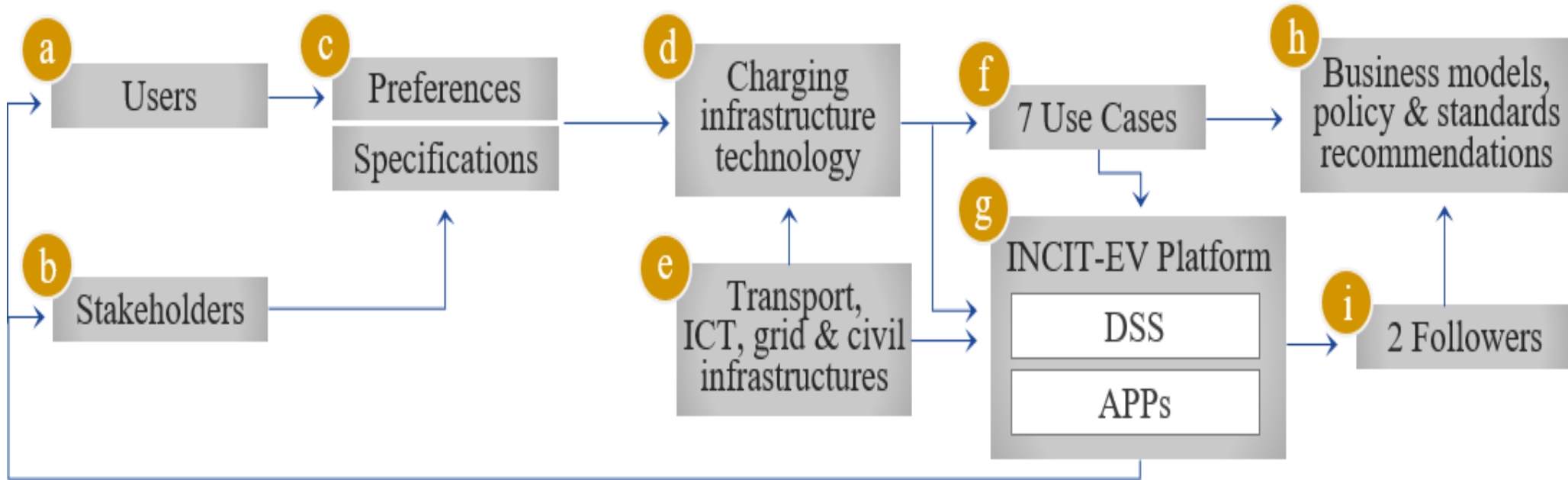
WP#9 Use cases and solutions replication - Business cases and exploitation strategies

Deployment tools



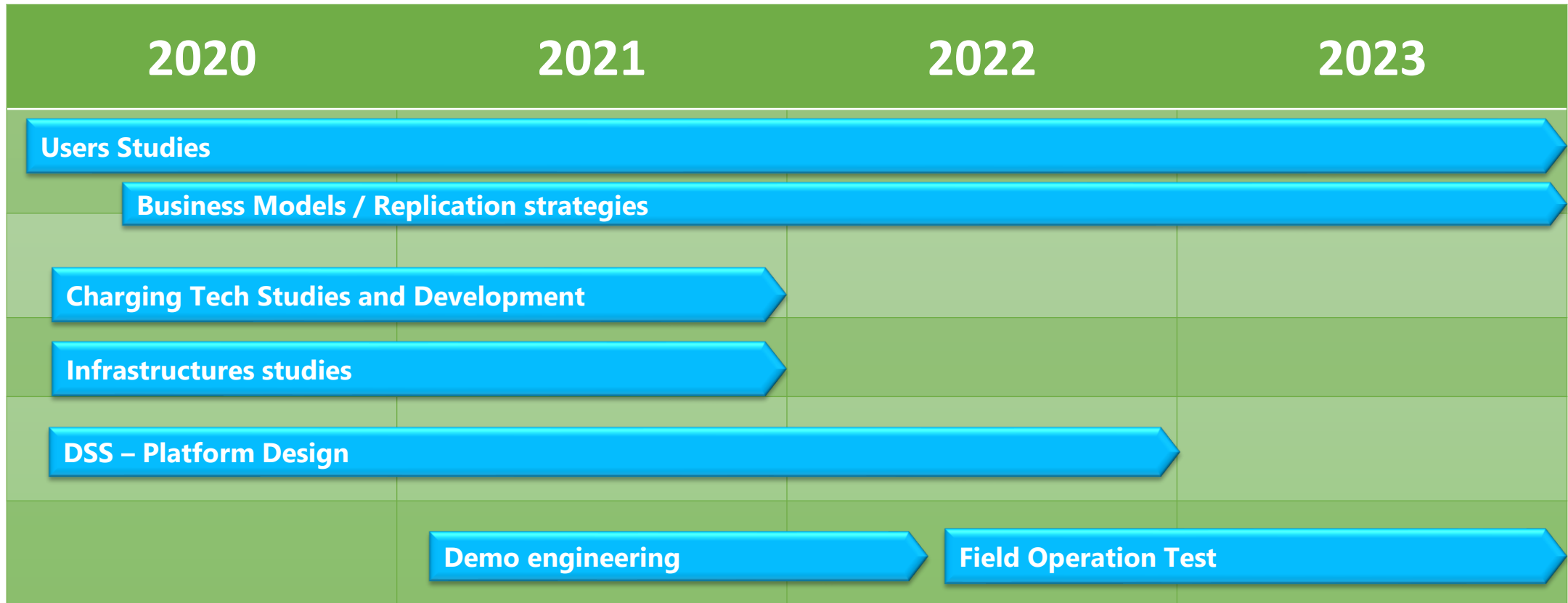


**INCIT-EV Methodology :**





**INCIT-EV Key activities overview :**

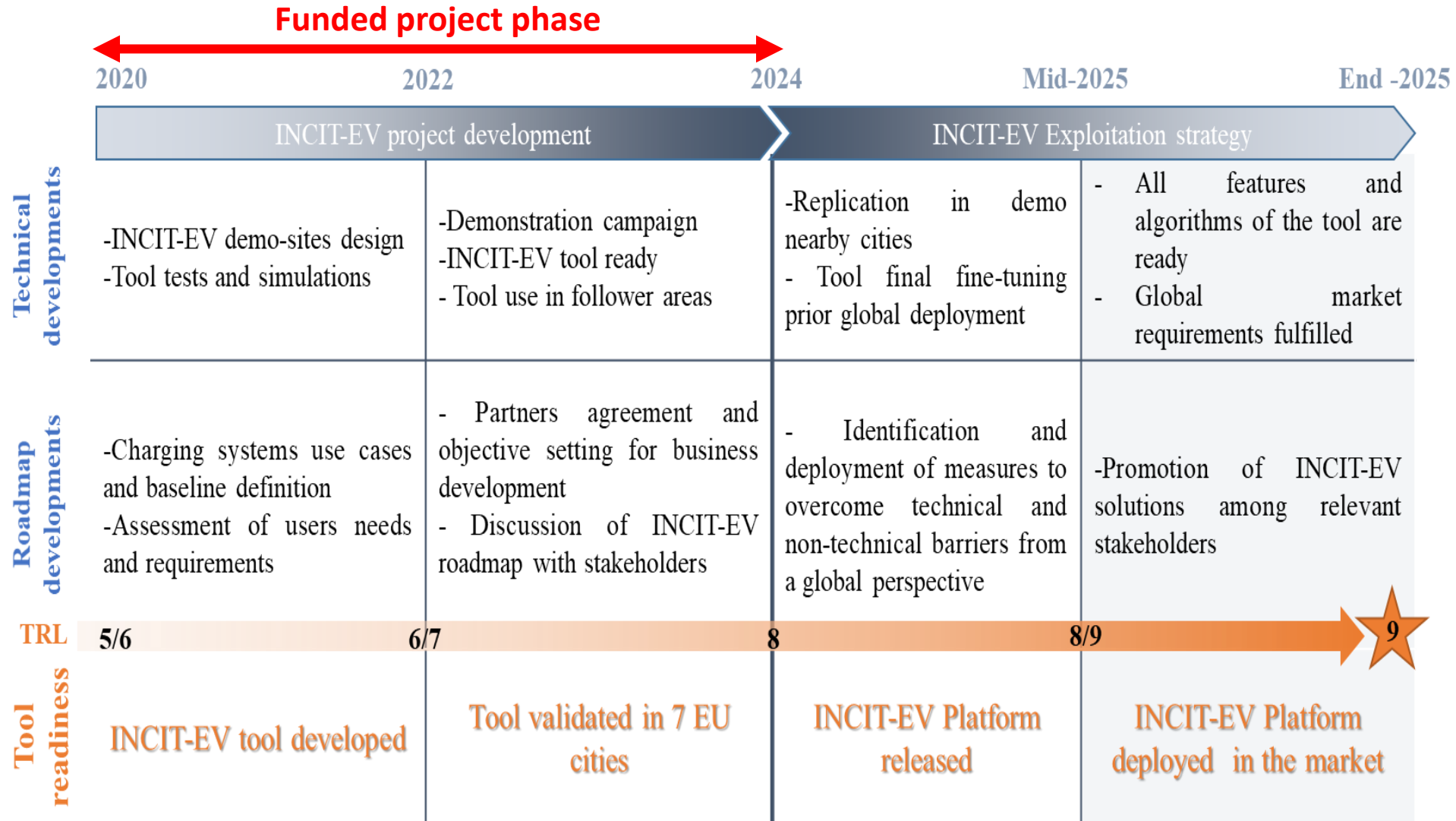




# INCIT-EV Kick Off Meeting – Renault Technocentre 22/01/2020



## INCIT-EV Strategy :



# Work packages Overview By WP leaders

#	WP Title / Leader	#	WP Title / Leader
<b>1</b>	Management & Coordination - <b>RENAULT</b>	<b>7</b>	Use cases deployment and demonstration in urban areas - <b>RENAULT</b>
<b>2</b>	User perception about charging infrastructure - <b>BITBRAIN</b>	<b>8</b>	Use cases deployment and demonstration in periurban and extra urban areas - <b>VEDECOM</b>
<b>3</b>	User Centric EV charging solutions - <b>CIRCE</b>	<b>9</b>	Use cases and solutions replication : Business cases and exploitation strategies - <b>QiEurope</b>
<b>4</b>	Grid and infrastructure upgrading for meeting users expectations – <b>UGE (ex IFSTTAR)</b>	<b>10</b>	Communication and dissemination – <b>AVERE France</b>
<b>5</b>	IT environment for improving the user charging experience – <b>ATOS Spain</b>	<b>11</b>	Ethics - <b>RENAULT</b>
<b>6</b>	INCIT-EV platform for charging infrastructure planning and services provider - <b>LINKS</b>		