

EnerMOB



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Interregional Electromobility Networks for intERurban low carbon MOBility

WP T1 PARTNERSHIP ACTION PLAN

SEPTEMBER 2018

Work package:	WP T1 – <i>Start-Up Planning</i>
Deliverables:	T1.1.1 – <i>Partnership action plan to coordinate and monitor analysis and planning activities</i>
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EnerMOB Partnership

Lead Partner	Free Municipal Consortium of Ragusa (Italy)
Project Partner 2	Region of Peloponnese (Greece)
Project Partner 3	Regional Development Agency of Northern Primorska Ltd (Slovenia)
Project Partner 4	County of Primorje and Gorski Kotar (Croatia)
Project Partner 5	Regional Economic Development Agency of Sumadija and Pomoravlje (Serbia)

Responsible Partner for the Deliverable



Free Municipal Consortium of Ragusa (formerly Regional Province of Ragusa)
Libero Consorzio Comunale di Ragusa (già Provincia Regionale di Ragusa)

Sector V – Regional Planning and Local Development

Viale del Fante, 10 – 97100 Ragusa - Italy

Ing. Giuseppe Cianciolo – Project Manager

Dott.ssa. Amelia Tumino – Financial Manager

Technical Support



IDEA URBANA

IDEA URBANA Engineering S.r.l.

Integrated Architecture and Engineering services

via Cortile Greco, 28 - 90011 Bagheria (PA) - ITALY

tel. +39 091961223 / fax +39 0918162101

@ direzione@idea-urbana.com

web www.idea-urbana.com

arch. Alessandro Carollo – Technical Director

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1. Purpose of document within the project

1.1 Overview of the project

EnerMOB is an *European Territorial Cooperation project* aiming to approach and upgrade regional and local low carbon transport policies by integrating electromobility systems at interregional and interurban level.

EnerMOB plans, tests and promotes common standards for transnational and interregional electric transport networks tackling **2 main challenges**:

1. to plan and test parallel “*Interregional Electromobility Networks*”, in order to connect cities and regions with electric transport systems using same standards at transnational level.
2. to improve low carbon transport policies and electromobility strategies in interurban displacements between cities, rural areas and intermodal terminals.

About 1st challenge, despite the *Directive 2014/94/EU on Deployment of Alternative Fuels Infrastructure*, to date EU territory has still not integrated “*Small-Scale Infrastructure Networks*” to allow large displacements with Battery Electric Vehicles (BEVs). Differently to vehicles with combustion engines, a BEV cannot cross over to different EU States because of a lack of charging infrastructures and common charging standards.

About 2nd challenge, current low carbon transport policies were developed mainly in big cities that often implemented SUMP. But many smaller towns need to develop different sustainable mobility policies, due to more frequently interurban displacements with longer distances.

Often, national/regional low carbon mobility policies affect only urban scale (pedestrianism, bicycles, etc.) without considering interurban displacements with longer distances. So traditional public transport services are designed for urban and metropolitan areas, and are not remunerative for weak demand areas as small towns and rural areas. Consequently, use of private cars increases in such areas increasing GHG emissions.

Within pilot actions, EnerMOB will promote and test electromobility solutions to be adopted by regional and local mobility policies for medium-small cities connections.

1.2 Project objectives, expected results and main outputs of the project

EnerMOB project aims to study and support common solutions for electric transport systems at interurban and interregional level, by:

- implementing pilot networks of charging infrastructures;
- using common BATs to manage charging points and monitor energy demand.

In particular, as **main overall objective** of ENERMOB project is **to implement Adriatic-Ionian “Interregional Electromobility Networks”** connecting regions at transnational level with same standards.

Such overall ENERMOB objective is structured through **3 specific objectives**:

- *To define **common design guidelines for electromobility systems** according to same technical standards and communication protocols.*

- To implement **joint strategies** for mobility and urban planning of electromobility systems in the framework of existing regional transport networks;
- To implement **regional “Small-Scale Infrastructure Network”** allowing interurban electric transport displacement between cities, rural areas and intermodal terminals.

Main expected project result of ENERMOB is the creation of a pilot Adriatic-Ionian “Interregional Electromobility Network”, constituted by 5 pilot regional “Small-Scale Infrastructure Networks” connecting cities, rural areas and intermodal terminals at transnational as well as at interurban level.

Thus, ENERMOB partners will test **5 pilot actions** aimed to reach following electromobility **challenges**:

- to overcome interregional and transnational restrictions by using common and integrated communication protocols of charging operations, so that same *Battery Electric Vehicle* (BEV) can cross over to different EU States using common charging standards and *Electric Vehicles’ Supply Equipment* (EVSE).
- to overcome intermodal restrictions by integrating electromobility infrastructures in existing intermodal terminals (as airports, ports, railway stations, etc.).
- to overcome interurban and spatial restriction by installing charging infrastructures within a medium-range distance, so that a BEV can cover longer distances by using several electric fuel stations along its trip.

To test such pilot actions, ENERMOB will develop some **small-scale investments** in all participating regions and affecting following **main deliverables**:

- n. 8 “Battery Electric Vehicles” (BEV) to be used by all the partners for the testing phase of pilot actions;
- n. 16 “Charging points” to be installed in all participating regions in order to provide electric energy to BEVs;
- n. 4 predisposition to connect photovoltaic plant to the charging points to be installed in Ragusa province;
- ICT tools for remote control of charging services using common communication protocols in all participating regions.

To reach such purposes, the project develops the following *Implementing Work Packages*:

- **WP T1** *Start-Up Planning*
- **WP T2** *Electromobility Pilot Actions*
- **WP T3** *Transferring*

1.3 Purpose and structure of the document

As reported in the Application Form, the **Deliverable T1.1.1 - Partnership action plan to coordinate and monitor analysis and planning activities** is a progress report defining a road map to be followed by partners according to expected deliverable and deadline of project working plan for the WP T1.

Such Progress report will be periodically updated by LP to monitor activity implementation of partners within

WP T1.

With this purpose, the current version of document has been structured in the following chapters:

1. Purpose of document within the project;
2. Framework of WP T1 – Start-Up Planning;
3. Contents of Activities and Deliverables;
4. WP T1 timetable.

2. Framework of WP T1 – Start-Up Planning

Such chapter defines the overview of WP T1 within the overall development of the EnerMOB project and its purpose.

Therefore the following section of the document will focus:

- The WP T1 within the project architecture;
- Overview of *WP T1 – Start-Up Planning*.

2.1 The WP T1 within the project architecture

As reported in the Application Form, currently, the EnerMOB project has a duration of 24 months, starting from 01/01/2018 to 31/12/2019, and its management is divided into 6 Work Packages.

EnerMOB Work Packages		
Kind	Title	Responsible Partner
Management and Communication Packages	WP P <i>Preparation</i>	LP – Ragusa FMC
	WP M <i>Management</i>	LP – Ragusa FMC
	WP C <i>Communication</i>	PP3 – Northern Primorska RDA
Implementing Work Packages	WP T1 <i>Start-Up Planning</i>	LP – Ragusa FMC
	WP T2 <i>Electromobility Pilot Actions</i>	PP4 – PGZ County
	WP T3 <i>Transferring</i>	PP2 – Peloponnese Region

The *WP T1 - Start-Up planning* is the first one of the 3 implementing Work Packages of EnerMOB project and it develops all start-up activities and deliverables for the implementation of electromobility pilot actions to be tested in next *WP T2 - Electromobility Pilot Actions*.

Ragusa FMC (LP) is the partner coordinating WP T1 and involves all partners in the joint planning and design of activities.

2.2 Overview of WP T1 – Start-Up Planning

WP T1 - Start-Up planning aims to plan pilot “Small-Scale Infrastructure Networks” to be integrated in a global “Interregional Electromobility Network”.

To this end, each project partner will draft a “Small-Scale Infrastructure Networks” Action Plan according to common standards and design guidelines.

In the following tables we report the overall framework and main features of the WP T1.

WP T1 – Start-Up Planning General Overview	
Responsible Partner	LP <i>Free Municipal Consortium of Ragusa (Italy)</i>
Other involved Partners	PP2 <i>Region of Peloponnese (Greece)</i> PP3 <i>Regional Development Agency of Northern Primorska Ltd (Slovenia)</i> PP4 <i>County of Primorje and Gorski Kotar (Croatia)</i> PP5 <i>Regional Economic Development Agency of Sumadija and Pomoravlje (Serbia)</i>
WP T1 Objectives	<ul style="list-style-type: none"> - To develop all start-up activities and deliverables for the implementation of electromobility pilot actions to be tested in next WP T2; - To define common guidelines for EVSE infrastructure design according to common technical standards; - To plan pilot “Small-Scale Infrastructure Networks” to be integrated in a global “Interregional Electromobility Network”.
Activities	Activity T1.1 <i>Coordinating (guidelines and toolkit)</i> Activity T1.2 <i>Structural Analysis</i> Activity T1.3 <i>Transport Planning</i> Activity T1.4 <i>ICT and Infrastructure design</i>
Main Outputs	Output T1.2 “Small-Scale Infrastructure Network” Action Plans (5 planned units – 1 unit per involved partner)
Planned timing	Starting date 01/01/2018 Ending date 31/12/2018 Months 12

2.3 Overview of WP T1 activities

WP T1 - Start-Up planning includes 4 activities that are logically and temporally connected.

Such activities aim to plan the “pilot actions” and design the “small-scale investments” that will be implemented in the next WP T2 for the construction of local infrastructure networks and for the charging and monitoring of electric vehicles during pilot actions.

WP T1 Activities will involve all 5 project partners, and PP5 REDASP could involve in their tasks its associated partner (AP1 City of Kragujevac).

Each partner will have to develop the WP T1 Activities and the related Deliverables in parallel and complementary way, under the overall coordination of the Free Municipal Consortium of Ragusa, as Project LP and responsible partner of Work package.

In the next table we report the overview of the WP T1 activities.

WP T1 – Start-Up Planning Overview of activities	
Activity	Description
Activity T1.1 <i>Coordinating (guidelines and toolkit)</i>	<p><u>Purpose</u></p> <p>To coordinate the overall management of WP T1 and the development of “Electromobility operational planning guidelines” including technical standards, BATs, and legal requirements for structural analysis. Common guidelines aim to plan parallel “Small-Scale Infrastructure Networks” as integrated parts of an “Interregional Electromobility Network”.</p> <p><u>Deliverables</u></p> <ul style="list-style-type: none"> - 1 Partnership Action Plan (this document) - 1 Electromobility operational design guidelines <p><u>Main outputs</u></p> <ul style="list-style-type: none"> -
Activity T1.2 <i>Structural Analysis</i>	<p><u>Purpose</u></p> <p>To define the Structural Analysis affecting the “Local Electromobility Analysis” of regions and/or intermodal infrastructures to be involved in pilot actions. Data collection and local supply/demand study will be developed following guidelines approved in previous activity, in order to have common indicators to be compared and shared by partners.</p> <p><u>Deliverables</u></p> <ul style="list-style-type: none"> - 5 Local Electromobility Analysis <p><u>Main outputs</u></p> <ul style="list-style-type: none"> -
Activity T1.3 <i>Transport Planning</i>	<p><u>Purpose</u></p> <p>To plan Transport Services affecting the parallel “<i>Small-Scale Infrastructure Networks</i>” <i>Action Plans</i> to be implemented within pilot actions, according to same standards and communication protocols reported in the “Electromobility operational planning guidelines”.</p> <p><u>Deliverables</u></p> <ul style="list-style-type: none"> - 5 “Small-Scale Infrastructure Network” Action Plans <p><u>Main outputs</u></p> <ul style="list-style-type: none"> - O T1.2 - “<i>Small-Scale Infrastructure Network</i>” <i>Action Plans</i>
Activity T1.4 <i>ICT and Infrastructure design</i>	<p><u>Purpose</u></p> <p>To design ICT and Infrastructure for the “Electric Vehicle Supply Equipment” to be tested within pilot actions. If necessary, executive designs could affect also the intermodal integration of electromobility services/infrastructures with local transport network.</p> <p><u>Deliverables</u></p> <ul style="list-style-type: none"> - 5 “EV Supply Equipment” Executive Design <p><u>Main outputs</u></p> <ul style="list-style-type: none"> -

3. Contents of Activities and Deliverables

Following pages show the description of the individual actions with some updated contents reported in the Application Form.

3.1 Activity T1.1 - Coordinating (guidelines and toolkit)

Partners, coordinated by LP - Ragusa FMC, prepare an operational action plan (this document) to coordinate and monitor the activities of WP T1.

Moreover, Project Partners will draft an “*Electromobility operational planning guideline*” (Deliverable T1.1.2) to plan and design electric transport infrastructures/services according to common technical standards, best available technologies and legal requirements.

To be noted that, after the testing phase of WP T2, the “*Electromobility operational planning guideline*” will be upgraded and finalized with the Deliverable T3.3.1 (“*Electromobility Implementation Guidelines*”) to be developed within WP T3 – Transferring.

Anyway, after a first draft of Deliverable T1.1.2 edited by Ragusa Consortium, partners share and integrate the deliverable for their final approval.

This procedure will allow each partner to plan and design parallel regional “*Small-Scale Infrastructure Network*” within a common framework of “*Interregional Electromobility Network*” using same communication protocols and same EV equipment supply.

Planned Deliverables

Deliverable T1.1.1 **Partnership action plan to coordinate and monitor analysis and planning activities** (1 unit)

Progress report reporting a road map to be followed by partners according to expected deliverable and deadline of project working plan.

Progress report will be updated by LP to monitor activity implementation of partners within WP2.

Deliverable T1.1.2 **Electromobility operational planning guidelines** (1 unit)

Guideline drafted by LP with contribution of partnership to be used by all partners to plan and design electric transport infrastructures/services with same technical standards, technologies and legal requirements.

3.2 Activity T1.2 - Structural Analysis

Following the minimum suggested contents and the set of indicators reported in common guidelines approved in previous activity, each partner will develop a “*Local Electromobility Analysis*” affecting

local/regional transport supply and demand analysis focusing on interurban displacements (i.e. O/D analysis) and on integration of intermodal terminals with transport networks.

If possible, "*Local Electromobility Analysis*" will affect also energy supply and demand analysis of local grids, focusing on bottlenecks and RES supply systems.

Moreover partners can involve Municipalities in order to receive their contributions through adopted *Sustainable Energy Action Plans* and *Sustainable Urban Mobility Plans*.

Each partner will check the coherence of transport/energy planning tools adopted by local/regional/national Authorities.

Planned Deliverables

Deliverable T1.2.1 ***Local Electromobility Analysis*** (5 units – 1 per Partner)

Local supply and demand study on electromobility and data collection. Territorial Areas to be studied by partners are¹:

- Ragusa Province (up to *LP – Ragusa FMC*);
- Peloponnese Region (up to *PP2 - REGPEL*);
- Northern Primorska (up to *PP3 – Northern Primorska RDA*);
- Primorje and Gorski Kotar Region (up to *PP4 – PGZ County*);
- Sumadja and Pomoravlje (up to *PP5 - REDASP*).

3.3 Activity T1.3 - Transport Planning

Each partner will develop a "*Small-Scale Infrastructure Network*" *Action Plan* affecting transport/regional planning of interurban electromobility systems to be implemented in their region/province within the medium-short term.

Each Action Plan will develop also preliminary design of infrastructures/services to be implemented within pilot actions of next WP.

To be noted that this activity is directly linked to *OT1.2 Main Output* ("*Small-Scale Infrastructure Network*" *Action Plan*).

Planned Deliverables

Deliverable T1.3.1 ***"Small-Scale Infrastructure Network" Action Plan*** (5 units – 1 per Partner)

Transport and Regional Planning and preliminary infrastructures design. Territorial Areas to be studied by partners are²:

- Ragusa Province (up to *LP – Ragusa FMC*);

¹ See next chapter for involved Municipalities. Each Partner has to declare the involved Municipalities/Territories.

² Idem.

- Peloponnese Region (up to *PP2 - REGPEL*);
- Northern Primorska (up to *PP3 – Northern Primorska RDA*);
- Primorje and Gorski Kotar Region (up to *PP4 – PGZ County*);
- Sumadja and Pomoravlje (up to *PP5 - REDASP*).

3.4 Activity T1.4 - ICT and Infrastructure design

Following technical standards and best available technologies suggested in the common guidelines approved by partners, each partner develops executive design of its EVSEs to be installed to test its "Small-Scale Infrastructure Networks" within Pilot Actions of next WP T2.

Executive designs will affect:

- charging points;
- predisposition for future photovoltaic EV charging stations (at the moment only for *LP - Ragusa FMC*);
- ICT tools to create common communication protocols to interconnect charging systems of each "Small-Scale Infrastructure Networks" in the framework of "Interregional Electromobility Network";
- technical standards and requirements for public procurements to purchase Battery Electric Vehicles;
- ICT data logger connecting BEV with "Small-Scale Infrastructure Networks";
- ICT tools for remote management of charging system, data collection and data processing.

Planned Deliverables

Deliverable T1.4.1 "EV Supply Equipment" Executive Design (5 units – 1 per Partner)

Executive design of infrastructure and services for electric transport. Each partner develops executive design of its EVSEs to be installed in order to test its "Small-Scale Infrastructure Networks" within pilot action. Territorial Areas to be involved by partners are³:

- Ragusa Province (up to *LP – Ragusa FMC*);
- Peloponnese Region (up to *PP2 - REGPEL*);
- Northern Primorska (up to *PP3 – Northern Primorska RDA*);
- Primorje and Gorski Kotar Region (up to *PP4 – PGZ County*);
- Sumadja and Pomoravlje (up to *PP5 - REDASP*).

³ Idem.

4. WP T1 timetable

The following pages report the planned timetable of the work package per activities with deadlines reported in Application Form.

Workpackage / Activitiy	Current Working Plan			
	Starting date	Ending date	Days	Months
WP T1 - Start-Up Planning	Jan-18	Dec-18	364	12
T1.1 Coordinating (guidelines and toolkit)	Jan-18	Nov-18	333	11
T1.2 Structural Analysis	Feb-18	Sep-18	241	8
T1.3 Transport Planning	Jun-18	Nov-18	182	6
T1.4 ICT and Infrastructure design	Jun-18	Dec-18	213	7

Considering the external administrative delays due to the approval process occurred in the first 7 months of the project life, below is reported a reviewed working plan with a proposal of new timing.

Workpackage / Activitiy	Reviewed Working Plan			
	Starting date	Ending date	Days	Months
WP T1 - Start-Up Planning	Jul-18	Mar-19	243	8
T1.1 Coordinating (guidelines and toolkit)	Jul-18	Nov-18	152	5
T1.2 Structural Analysis	Sep-18	Dec-18	121	4
T1.3 Transport Planning	Oct-18	Feb-19	150	5
T1.4 ICT and Infrastructure design	Oct-18	Mar-19	150	5

In the following pages we reported the timetable of the project per activities and deliverables, with the specific tasks of each project partner.

The timetable contains two section:

- planned timing (with deadlines reported in Application Form);
- proposal of new timing (for ongoing review of deadlines).

Timetable of WP T1 – Start-Up Planning

Activity/Deliverable	Involved partner	Typology of deliverable	Involved Municipalities/Places	Planned quantity	Delivered quantity	Planned timing				Reviewed timing			
						Starting date	Deadline	Natural Months	Working Days	Starting date	Deadline	Natural Months	Working Days
T1.1 Coordinating (guidelines and toolkit)				2	1	Jan-18	Nov-18	11	233	Jul-18	Nov-18	5	108
T1.1.1 Partnership action plan to coordinate and monitor analysis and planning activities	LP Ragusa FMC (with all partners)	Technical Report	Project partner Regions	1	1	Jan-18	Feb-18	2	42	Jul-18	Sep-18	3	64
T1.1.2 Electromobility operational planning guidelines	LP Ragusa FMC (with all partners)	Technical Report	-	1	-	Jan-18	Apr-18	4	82	Jul-18	Sep-18	3	64
T1.2 Structural Analysis				5	0	Feb-18	Sep-18	8	167	Sep-18	Dec-18	4	83
T1.2.1 Local Electromobility Analysis	LP Ragusa FMC	Local Feasibility Study	Ragusa Province (12 Municipalities)	1	-	Feb-18	Sep-18	8	167	Sep-18	Dec-18	4	83
	PP2 REGPEL	Local Feasibility Study	Prefectures of Korinthos, Arkadia and Lakonia (16 Municipalities)	1	-	Feb-18	Sep-18	8	167	Sep-18	Dec-18	4	83
	PP3 Northern Primorska	Local Feasibility Study	Goriška statistical Region (13 Municipalities)	1	-	Feb-18	Sep-18	8	167	Sep-18	Dec-18	4	83
	PP4 PGZ County	Local Feasibility Study	Primorje and Gorski Kotar Region County (35 Municipalities)	1	-	Feb-18	Sep-18	8	167	Sep-18	Dec-18	4	83
	PP5 REDASP	Local Feasibility Study	Sumadja and Pomoravlje Region (13 Municipalities)	1	-	Feb-18	Sep-18	8	167	Sep-18	Dec-18	4	83
T1.3 Transport Planning				5	0	Jun-18	Nov-18	6	129	Oct-18	Feb-19	5	105
T1.3.1 "Small-Scale Infrastructure Network" Action Plan	LP Ragusa FMC	Transport Plan with Preliminary Design of EV supply equipment	Municipalities/Transport Terminals of: - Ragusa - Modica - Vittoria - Comiso	1	-	Jun-18	Oct-18	5	108	Oct-18	Feb-19	5	105
	PP2 REGPEL	Transport Plan with Preliminary Design of EV supply equipment	Municipalities/Transport Terminals of: - Tripolis - Korinthos - Kalamata	1	-	Jun-18	Oct-18	5	108	Oct-18	Feb-19	5	105
	PP3 Northern Primorska	Transport Plan with Preliminary Design of EV supply equipment	Municipalities/Transport Terminals of: - Renče-Vogrsko - Brda - Kanal ob Soči	1	-	Jun-18	Oct-18	5	108	Oct-18	Feb-19	5	105
	PP4 PGZ County	Transport Plan with Preliminary Design of EV supply equipment	Municipalities/Transport Terminals of: - City 1 to be defined - City 2 to be defined - City 3 to be defined	1	-	Jun-18	Oct-18	5	108	Oct-18	Feb-19	5	105
	PP5 REDASP	Transport Plan with Preliminary Design of EV supply equipment	Municipalities/Transport Terminals of: - City of Kragujevac	1	-	Jun-18	Oct-18	5	108	Oct-18	Feb-19	5	105

Activity/Deliverable	Involved partner	Typology of deliverable	Involved Municipalities/Places	Planned quantity	Delivered quantity	Planned timing				Reviewed timing			
						Starting date	Deadline	Natural Months	Working Days	Starting date	Deadline	Natural Months	Working Days
T1.4 ICT and Infrastructure design				5	0	Jun-18	Dec-18	7	148	Oct-18	Mar-19	6	125
T1.4.1 "EV Supply Equipment" Executive Design	LP Ragusa FMC	Executive Design of EV Equipment and services	Municipalities/Transport Terminals of: - Ragusa - Modica - Vittoria - Comiso	1	-	Jun-18	Dec-18	7	148	Oct-18	Mar-19	6	125
	PP2 REGPEL	Executive Design of EV Equipment and services	Municipalities/Transport Terminals of: - Tripolis - Korinthos - Kalamata	1	-	Jun-18	Dec-18	7	148	Oct-18	Mar-19	6	124
	PP3 Northern Primorska	Executive Design of EV Equipment and services	Municipalities/Transport Terminals of: - Renče-Vogrsko - Brda - Kanal ob Soči	1	-	Jun-18	Dec-18	7	148	Oct-18	Mar-19	6	123
	PP4 PGZ County	Executive Design of EV Equipment and services	Municipalities/Transport Terminals of: - City 1 to be defined - City 2 to be defined - City 3 to be defined	1	-	Jun-18	Dec-18	7	148	Oct-18	Mar-19	6	122
	PP5 REDASP	Executive Design of EV Equipment and services	Municipalities/Transport Terminals of: - City of Kragujevac	1	-	Jun-18	Dec-18	7	148	Oct-18	Mar-19	6	121



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