



Horizon 2020  
Programme

**LEAP-RE**

*Research and Innovation Action (RIA)*

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 963530

Start date : 2020-10-01 Duration : 63 Months  
<http://www.leap-re.eu/>



---

**Presentation of a more detailed Plan of Activities for the whole 16**

---

Authors : Mrs. Ahmed RACHID (UPJV), Anaïs ASSELIN, Laura BURGAUD

LEAP-RE - Contract Number: 963530

Project officer: Bernardo Luis ABELLO GARCIA

Document title	Presentation of a more detailed Plan of Activities for the whole 16
Author(s)	Mrs. Ahmed RACHID, Anaïs ASSELIN, Laura BURGAUD
Number of pages	7
Document type	Deliverable
Work Package	WP16
Document number	D16.1
Issued by	UPJV
Date of completion	2021-07-23 14:14:32
Dissemination level	Error (13) !

---

### Summary

This report gives the description of WP16 ? LEOPARD by detailing the tasks: Task 16.1.: STATE OF THE ART, NEEDS ANALYSIS, DEVELOPMENT & PROTOTYPING Task 16.2.: INSTALLATION, OPERATION & ASSESSMENT Task 16.3.: COMMUNICATION, DISSEMINATION & REPLICATION Task 16.4.: COORDINATION & MANAGEMENT. The deliverables, milestones are also described. A Gant chart summarizes the overall timeline and deadlines of WP16. As part of LEAP-RE, interactions and synergies with other work packages are listed. Finally, potential risks are mentioned

---

### Approval

Date	By
2021-07-23 14:15:20	Mrs. Ahmed RACHID (UPJV)
2021-07-23 15:44:53	Mr. Léonard LéVêQUE (LGI)

---



# LEAP-RE

Long-Term Joint EU-AU Research  
and Innovation Partnership on Renewable Energy

## Detailed Work Plan WP16 LEOPARD

Deliverable 16.1

[www.leap-re.eu](http://www.leap-re.eu)

# Table of Content

<b>TABLE OF CONTENT .....</b>	<b>2</b>
1.1 DESCRIPTION OF WP16 – LEOPARD .....	3
1.1.1 <i>Task 16.1.: STATE OF THE ART, NEEDS ANALYSIS, DEVELOPMENT &amp; PROTOTYPING</i> .....	3
1.1.2 <i>Task 16.2.: INSTALLATION, OPERATION &amp; ASSESSMENT</i> .....	3
1.1.3 <i>Task 16.3.: COMMUNICATION, DISSEMINATION &amp; REPLICATION</i> .....	3
1.1.4 <i>Task 16.4.: COORDINATION &amp; MANAGEMENT</i> .....	4
1.2 DELIVERABLES .....	4
1.3 MILESTONES .....	4
1.4 INTERACTION/SYNERGIES WITH OTHER WPS .....	5
1.5 RISKS .....	6

## Acronym

DoA	Description of Action
GA	Grant Agreement
MS	Milestone
M&E	Monitoring & Evaluation
O&F	Organisational & Funding
Tbd	to be determined
WP	Work Package

## 1.1 Description of WP16 – LEOPARD

**See Annex 1: WP16 GANTT CHart**

**Work Package Leader- co-Leader:** Ahmed RACHID, UPJV

### 1.1.1 Task 16.1.: STATE OF THE ART, NEEDS ANALYSIS, DEVELOPMENT & PROTOTYPING

Task Leaders: SINSIN Léonide Michaël, ARESS

Contributors: ALL other WP16 PARTNERS

#### Actions

1. Analysis of technical and regulation boundary conditions of collective self-consumption [UPJV]
2. Definition of the criteria for choosing the second village of implementation, identification of this village and agreement with relevant authorities [EIFER; Songhai Centre; ARESS]
3. Feasibility study by collecting and analysing detailed energy needs (typical load curves) and socio-economic data (capacity to pay electricity) of several targeted communities, ...[Songhai Centre, CT2S, UAC]
4. Development of a specialized tool for the design of micro-grids to design the solution i.e. PV panels, storage and associated power electronics in relation with load curves [EIFER]
5. Validation of the specification against identified use cases [ARESS]
6. Detailed specification of the LEOPARD container considering the economic situation. Comparison with actual load curves and expected usage [ARESS]
7. Development of a software platform for the supervision of the distribution network [ARESS]
8. Definition of a remote payment system for customer to pay their electricity bill [ARESS]
9. Adaptation of sensors and smart meters to the needs and context of the project [CT2S]

### 1.1.2 Task 16.2.: INSTALLATION, OPERATION & ASSESSMENT

Task Leaders: Justin LEKOTO, Songhai Centre

Contributors: ALL other WP16 PARTNERS

#### Actions

1. Installation and operation of the containers [ARESS, Songhai Centre]
2. Quality control protocol to check the containers and control system behaviour during the lifetime of the micro-grids [CT2S]
3. Awareness-raising activities for the local acceptance of the container in collaboration with local authorities and end-users [Songhai Centre, UAC]
4. Remote operation and maintenance implementation [CT2S]
5. Analysis of the data collected by the sensors in the containers and the dwellings [UPJV, ARESS]
6. Deployment and operation of additional electric equipment in order to monitor effects on the solution [ARESS]
7. Monitoring of the end-user's behaviour and uses to improve further implementation [Songhai Centre, UAC]
8. Training of technicians to operate and maintain micro-grids. Training of some people living in the household to provide first level of maintenance. [CT2S, UAC, Songhai centre]

### 1.1.3 Task 16.3.: COMMUNICATION, DISSEMINATION & REPLICATION

Task Leaders: Anaïs ASSELIN, MEDEE

Contributors: ALL other WP16 PARTNERS

## Actions

1. Framework and schedule for the different dissemination and communication activities. [MEDEE]
2. Creation of impact indicators with all the dissemination players [CT2S, UAC]
3. GIS study on replicability/adaptability of the LEOPARD micro-grid solution to the Beninese and Senegalese rural environment and context [CT2S, EIFER, CT2S]
4. Toolkit with detailed methodology to package the knowledge produced according to the targeted audiences' needs and serves as an internal communication tool [UPJV, UAC]
5. Communication and promotion of its results targeted to external stakeholders, scientific community and potential end-users of the products/services developed. [Songhai Centre, CT2S, MEDEE]

### 1.1.4 Task 16.4.: COORDINATION & MANAGEMENT

Task Leaders: Ahmed RACHID, UPJV

Contributors: MEDEE, Songhai Centre, CT2S

## Actions

1. Guaranteeing coherence for the joint-implementation of the tasks [UPJV]
2. Monitoring the work progress and, if required, taking decisions on changes relating to the scope of work, deliverables, budget allocations, strategic assessments and emerging opportunities [UPJV, Songhai Centre, MEDEE]
3. Public perception and specific dissemination (also seen as managerial issues, beyond the scope of the dedicated Task 4 Communication, Dissemination & Replication) [UPJV, MEDEE]
4. Relation with the LEAP-RE project coordinators [UPJV]
5. Implementation and adherence to the Grant Agreement [UPJV]
6. Coordination of the local actions in Benin and Senegal [Songhai Centre, CT2S]

## 1.2 Deliverables

Number	Title	Due Date	Responsible
D16.1	Presentation of a more detailed Plan of Activities for the whole WP 16	M7	UPJV
D16.2	Production of a feasibility study as deliverable of task 16.2	M11	UAC
D16.3	Detailed specification of the LEOPARD container and Quality control methodology	M14	ARESS
D16.4	LEOPARD prototype quality control	M21	CT2S
D16.5	LEOPARD prototypes validation	M21	ARESS
D16.6	Replication study and mapping of Beninese and Senegalese areas where the solution could be appropriate	M36	EIFER

## 1.3 Milestones

Number	Title	Verification mean	Due Date	Responsible
--------	-------	-------------------	----------	-------------

M16.1	Kick-off meeting to launch LEOPARD	Minutes of the meeting	M9	UPJV
M16.2	Mid-term meeting: prototype delivered and agreed	Minutes of the meeting	M22	UPJV
M16.3	Final meeting: dissemination and replication strategy agreed	Minutes of the meeting	M42	UPJV

#### 1.4 Interaction/synergies with other WPs

WPX via the Project Leader, will participate to WP3 Activities as part of the Scientific Board of Pillar 2 and will work with the Pillar Coordinators to maximise synergies across the WPs in Pillar 2, either in terms of R&I and capacity building.

Number	Interaction description	Responsible
1	<b>Project Management</b> will be carried out in synergy with WP3 and the Pillar 2 Board Governance indications	UPJV
2	Information on the current <b>capacity building /training activities</b> within each WP9-WP16 will be valorised to increase the “impact” of each capacity building activity back to WP9-WP16	UPJV
3	Based on the sharing during the first months of LEAP-RE, a constant link on cross-cutting interests relative to <b>Technological development, methodological approach, Modelling tools</b> and other R&I related topics that will take place into WP9, WP10, WP11, WP12, WP13, WP14, WP15, WP16 is promoted in Task 3.1	UPJV
4	<b>Scientific Dissemination</b> will be carried out in agreement with the Scientific Dissemination Strategy defined in WP3	UPJV
5	<b>Other dissemination</b> activities will follow the guidelines provided by WP4 in the LEAP-RE Communication and Awareness Raising strategy	UPJV
6	<b>Monitoring and Evaluation</b> will be carried out receiving input from the M&E plan for Pillar 2 developed in WP3 and coordinated by WP5	UPJV
7	<b>Financial Reporting</b> will be managed in coordination with WP1 and supported by WP3	UPJV

## 1.5 Risks

*Contractual risks (number, description, risk-mitigation), probability (1=low; 5=high) that the risk occurs and impact (1=low; 5=high) if the risk occurs. Other risks (not in GA) can be added so they can be followed during the project. Risk mitigation: P=preventive actions / C=contingency actions.*

<b>Number</b>	<b>Risk description</b>	<b>Risk mitigation</b>	<b>Proba</b>	<b>Impact</b>
R16.1	Difficulty to get authorisation to experiment self-consumption	The very first step of the project will be to get in touch with local authorities to explain the project and ask for specific authorisation (P)	2	2
R16.2	Partners' lack of enthusiasm to cooperate	Partners extensive experience of collaborative projects will be very useful to create a cooperative spirit between partners (P & C)	2	2
R16.1	Lack of data to model the solution	The partners have been very carefully chosen to be able to provide data needed to run the project.	3	1
R16.1	Differences between local contexts	The partners have been very carefully chosen to be able to address different contexts and culture (P)	3	3

