



Part III – Details of the actions envisaged

ACTION 1 - "FRAMEWORK EXTREMADURA 2030 FOR GREEN AND CIRCULAR ECONOMY"

1. The background (Lessons learnt from CISMOB project)

For this action, the background is based on the other countries involved in CISMOB project. These are Sweden, Romania and Portugal. AGENEX's staff has learnt in the different Thematic Seminars, Building Capacity Workshops and Staff Exchange Programmes that it is very important to include the transport in regional plans (Framework, in this case) that have the aim to create a more sustainable region or even country.

The objective of the "Framework Extremadura 2030 for Green and Circular Economy" is to boost the green and circular economy in the region as the best way to achieve a sustainable development. The temporal scope is established from 2017 to 2030 and it is expected that the main actions (the document uses the term "strategic lines") will be fully defined by the end of 2020. Thus, from 2020 to 2030, most of the defined actions will be carried out.

When this Framework was made public during the 1st Building Capacity Workshop of CISMOB project, that took place in Cáceres (Spain), most of the strategic lines were defined. However, the sustainable mobility was not included.

In this way, AGENEX understood that the mobility should participate in this Framework because the mobility sector is very important in large regions with many and scattered municipalities.

2. Actions to be implemented

With the aim to include the sustainable mobility as a strategic line of action inside the Framework Extremadura 2030, AGENEX has made and will make several actions that are summarized below:

- A. **Meetings with the main responsible for the Framework making.** These meetings started in the Spanish Building Capacity Workshop (March 2017) and continued until September 2017.
- B. **Outsourcing external expert (company)** in order to help AGENEX to design the procedure for integrating the sustainable mobility in the Framework. (Extended information can be found in the Progress Report for 4th semester – 4th PR).
- C. **Stakeholder meeting** with representatives of the mobility sector and the society, such as several Regional Ministries, University of Extremadura and associations of Electric Vehicles, territories, transport, etc. This meeting, that took place in November 2017 (more information in 4th PR), began with the presentation of CISMOB project. Follow by a debate on the inclusion of the sustainable mobility in the Framework.

Finally, it was approved that sustainable mobility will be include in the Framework. The exact term used would be "Sustainable Transport" and this can be checked at the Spanish website <http://extremadura2030.com/30-proyectos/> (Line number 21)

- D. **Elaboration of the Action Plan that will develop the Framework.** AGENEX and the outsourced company have worked on part of the document that will explain and develop the strategic lines "Sustainable Transport". In early April 2018, a first version of the "Action Plan for the Strategy of Green and Circular Economy" will be published and can be checked at <http://extremadura2030.com/docuteca/> and http://extremadura2030.com/wp-content/uploads/2017/03/eevc_plan_de_accion_juntaex-definitivo.pdf (in Spanish).

The "Action Plan for the Strategy of Green and Circular Economy" could be modified in order to include comments or suggestions made by citizens because it will be subject to a public participation procedure.

In the previous document, different priority actions were selected with the aim to be carried out before the end of 2020.

- E. **New transport law of Extremadura.** AGENEX will contribute to develop a new law for public transport including sustainability criteria.
- F. **Update and promotion of the network of service centers for freight transport.** Extremadura region already has a network of service centers for freight transport but these centers should be



updated to sustainable mobility. AGENEX will support the Regional Ministry for Economy and Infrastructure as specialized entity in sustainable mobility.

- G. **Study for the restructuring of public road passenger services and promotion of interurban public transport.** AGENEX will participate in both actions with special regards to electric mobility.
- H. **Social and political pact for the Railway in Extremadura.** This pact has the final target of achieving a sustainable and efficient railway in the region. The pact has several activities such as conferences, news on regional and national media, dissemination actions, etc...
- I. **Plan for Road Safety and Sustainable Mobility.** One of the most important actions would be the elaboration of this Plan, in which, AGENEX will focus on the sustainable mobility.

- 3. **Players involved** (please indicate the organisations in the region who are involved in the development and implementation of the action and explain their role)

The main involved players will be the Regional Ministry of Development and the Regional Ministry of Economy and Infrastructure because both of them agglutinate the competences of transport, energy and environment. So, they have the legal competence for boosting and managing all the previous activities mentioned.

AGENEX will have a role of consultant by contributing to the development of the Plan in issues related to the energy field. Especially in this case, AGENEX will focus on sustainable mobility from the energetic point of view. AGENEX will have the role of expert in electric mobility and ICTs (Information and Communication Technologies) applied to mobility

Furthermore, the Framework considers the citizens' participation as a priority. Thus, several meetings and workshops will be done in order to get feedback from experts, social and economic agents, political organizations and citizens.

4. Timeframe

The first action of the Action Plan for Extremadura on LOW CARBON AND SUSTAINABLE MOBILITY has the following activities and deadlines:

Activity	Deadline
A. Meetings with the main responsible for the Framework	March 2017
B. Outsourcing external expert for helping	Sept. 2017
C. Stakeholder meeting	Nov. 2017
D. Elaboration of the Action Plan that will develop the Framework	April 2018
E. New transport law of Extremadura	Dec. 2020
F. Update and promotion of the network of service centers	Dec. 2020
G. Study and promotion of interurban public transport	Dec. 2020
H. Social and political pact for the Railway in Extremadura.	Dec. 2020
I. Plan for Road Safety and Sustainable Mobility	Dec. 2020

5. Costs (if relevant)

There is no specific budget for this action.

6. Funding sources (if relevant):

The players involved in the action will support the activities described with their own sources. At this stage, no external sources are expected.



ACTION 2 – STRATEGY FOR BOOSTING THE ELECTROMOBILITY IN EXTREMADURA

1. The background (Lessons learnt from CISMOB project)

For this action, the background is also based on the other countries involved in CISMOB project. These are Sweden, Romania and Portugal. In fact, AGENEX's staff has learnt the following lessons:

- From Sweden, and especially in the visit to Ericsson Company's facilities: the potential of TICs applied to electric mobility.
- From Romania: the 2nd Building Capacity Workshop and Thematic Seminar showed the importance of planning and coordinating the mobility strategies with all the stakeholders involved.
- From Portugal, the Staff Exchange Programs were very instructive. Mainly, AGENEX's staff found out the interoperability system of charging stations for electric vehicles. This system allows that any user can access to any charging station in the whole country and with the same card. Simplifying, the RFID (Radio Frequency Identification) card opens the station by sending the information to a centralized platform that contains all the users' information. This platform can also store several interesting information such as energy consumption per station, number of users, number of access per day, CO₂ emission savings, etc...

In Extremadura Region, more than 100% of the electricity consumed is produced by renewable energy sources. Additionally, Extremadura is one of biggest regions in Europe that exports electrical energy produced by CO₂ emission-free sources. Thus, both reasons make the electrical energy to be considered as a green fuel for vehicles in the region.

Thanks to CISMOB project and other initiatives, AGENEX has kept the Regional Government informed on low carbon and sustainable mobility. Finally, AGENEX advised to the Extremadura's Regional Government to increase the number of electric vehicles in the region. Currently, these vehicles have a low interest and have only a 0.03% of market share. The Strategy that will be developed in this action has the aim to promote the electric vehicles as a way to achieve a low carbon and sustainable mobility in the region.

2. Actions to be implemented

The Strategy will be designed by AGENEX and the Regional Ministry for Economy and Infrastructure (Directorate General for Industry, Energy and Mines). The Strategy will include several activities that are summarized below:

- A. First draft of contents.** AGENEX showed DG a first draft of the contents that the Strategy should contain in January 2018. This first document included the importance of implementing an interoperable system for the charging stations.
- B. Definitive index and beginning of the writing.** Early February, AGENEX and DG agreed the main activities that the Strategy will develop and AGENEX began to send partial drafts of the document.
- C. Knowing the Portuguese interoperability system for charging stations.** Regional Ministry's staff, as stakeholder and Managing Authority in CISMOB project, also attended the Staff Exchange Program between AGENEX and University of Aveiro held in Évora (Portugal). In these meeting and visits, Spanish partners and stakeholders got to know details of the Portuguese system for managing the National Network of Charging Stations for Electric Vehicles. The system that is based on ICTs has two big advantages. The first one is to manage all the charging stations spread throughout the region from a centralized office. The second is to allow the access to all of the charging stations with a single identification method. Nowadays, this method is a RFID card but in the closer future will be a APP for smart phones.
- D. Meetings with experts.** Several meetings organized by the Regional Ministry with the support of AGENEX has been scheduled in early April. The meetings will be held with charging stations manufacturers, charging managers (legal figure regulated by Spanish legislation) and associations related to electro-mobility sector. The meeting will have the aim to know the current status of ITCs and other technologies related to electro-mobility regarding electric vehicles.
- E. Meeting with regional stakeholders:** New meetings will be scheduled in late June 2018 in order to show the first draft document to the County Councils (Provinces), local governments and other institutions and companies from the public sector. The coordination on this matter between the different public administrations and stakeholder will be critical for the success of the strategy.



Moreover, meetings with companies and association from the private sector will also be scheduled in July in order to get their support and collaboration on the Strategy.

- F. **Budget elaboration and allocation of ERDF funds:** The document will have a full chapter dedicated to budget for the activities to be developed in the Strategy. This budget will be elaborated by the Regional Ministry, supported by AGENEX. The economic funds dedicated to the activities directly developed by the Regional Ministry will come from ERDF funds. For this, Both the Regional Ministry for Economy and Infrastructure and the Regional Ministry for Finance and Public Administration will work on the procedure for allocating the ERDF funds to the activities of the Strategy.
- G. **Sending the final draft of the Strategy to the Regional Minister for the Economy and Infrastructure.** The final document will be sent to Regional Minister in order to be checked by him and his team, probably, in early July.
- H. **Approval of the document and dissemination.** Once the document is checked and approved by the Regional Minister, the "Strategy for Boosting the Electro-mobility in Extremadura" will be published. Then, the Strategy will be disseminated to all the citizens and an awareness day focused on the Strategy will be organized. The publication and dissemination of the document is expected in September 2018.
- I. **Strategy development.** Once the document is published, all the activities described on it will start. AGENEX will have an important role in 2 critical activities of the document:
 - Deployment of a Public Charging Stations Network.
 - Coordination for the interoperability of the Public Charging Stations Network.
- J. **Monitoring and evaluation.** The activities of the Strategy will be developed during three temporary phases. The first one will be from 2018 to 2020. AGENEX will participate and support the Regional Ministry by monitoring all the activities in this period. Finally, the activities of the Strategy will be evaluated with the aim to boost the most efficient activities and to modify the unsuccessful activities for the next phases.

3. **Players involved** (please indicate the organisations in the region who are involved in the development and implementation of the action and explain their role)

The Strategy is being designed by the Regional Ministry for Economy and Infrastructure (Directorate General for Industry, Energy and Mines) and AGENEX. However, it requires the collaboration of other public bodies such as:

- Others Regional Ministries.
- County Council of Cáceres
- County Council of Badajoz
- Local Governments
- Public companies (AVANTE Extremadura, GPEX, etc...)
- National Government.

On the other hand, the private sector will have an important role for the success of the Strategy. For the moment, professional associations and companies related to electric vehicle value chain will collaborate in the definition of the document (Strategy) and, later on, in the development of some activities. To name a few of these associations and companies: AEDIVE (Association for the Development and Promotion of Electric Vehicles), AUVE (Association for Users of Electric Vehicles), IBIL, FENIE ENERGÍA, CIRCUTOR, ABB, etc...

4. Timeframe

The second action of the Action Plan for Extremadura on LOW CARBON AND SUSTAINABLE MOBILITY has the following activities and deadlines:



Activity	Deadline
A. First draft of contents	Jan. 2018
B. Definitive index and beginning of the writing	Feb. 2018
C. Knowing the Portuguese interoperability system	Feb. 2018
D. Meetings with experts	April 2018
E. Meeting with regional stakeholders	June 2018
F. Budget elaboration and allocation of ERDF funds	July 2018
G. Sending the final draft of the Strategy to the Regional Minister	July 2018
H. Approval of the document and dissemination	Sept. 2018
I. Strategy development	Dec. 2020
J. Monitoring and evaluation	Dec. 2020

5. Costs (if relevant)

Currently, it is not possible to calculate the total costs for the whole activities that will be developed in the Strategy because some activities are not fully defined. However, it has been estimated that a total amount of 4 M€ from ERDF will be allocated, until 2020, to the activities directly developed by the Regional Ministry of Economy and Infrastructure.

These activities will be focused on incentives to install charge stations, the interoperability system and the impulse for the purchase of electric vehicles.

6. Funding sources (if relevant):

As it has been advanced, the main funding source will be European funds (ERDF) contributed by the Regional Government. However, the other players involved in this action will also support by contributing with their own sources.

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Stamp of the organisation (if available): AGENEX – Extremadura Energy Agency