



Castilla-La Mancha



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# BUENAS PRÁCTICAS

## Operaciones Cofinanciadas

**“Smart GAO Project for a smart management of renewable energies”**

**General Director of Enterprises,  
Competitiveness and Internationalization**

# Programa Operativo de Castilla la Mancha

**Fondo Europeo de Desarrollo Regional**

**Año 2017**

**The “Smart GAO Project for a smart management of renewable energies” is submitted as a “Good Practice” of the General Director of Enterprises, Competitiveness and Internationalization in 2017.**

## **PROJECT DESCRIPTION**

This action consists of a collaborative project between the companies NETBERRY SERVICIOS DE INTERNET, S.L. and INGETEAMPOWER TECHNOLOGY, S.A., with the aim of promoting an increasingly and more efficient use of renewable energies, with which a clean energy is generated and the emission of greenhouse gases is reduced.

In particular, the project aims to record all the information generated by the energy production assets of any wind farm or photovoltaic park.

These companies have been beneficiaries of a grant from the Colabora-Adelante Line, which is framed within the Innova-Adelante Program, being 80% financed by the European Regional Development Fund, and 20% by the Junta de Comunidades de Castilla-La Mancha.

At the same time, the Innova-Adelante Programme in Castilla-La Mancha is located within the scope of the Adelante Scheme of Castilla-La Mancha, in line with the new European community framework, the smart, sustainable and inclusive growth priorities included in the Europe 2020 Strategy and the challenges of the Strategy for Smart Specialization, the RIS3 of Castilla-La Mancha

The activity's eligible cost of the Colabora-Adelante Line is 260.553,42, and for the Smart GAO Project is 96.982,30 €.The aid from FEDER represents 80% of both amounts, reaching 208.442,74 € and 77.585,84, respectively.

The impact of the Colabora-Adelante Line has benefited eight companies.


**This action is considered a “Good Practice” due to:**

### **1º.High dissemination among the beneficiaries, the potential beneficiaries and public.**

The Project has had a high diffusion of the contribution of the funds for the economic and social development, both for the potential beneficiaries and the public, through the following actions:

- A mandatory publication of the Orden de 23/06/2016 in the Official Journal of Castilla-La Mancha, in its number 130, on July 5<sup>th</sup> 2016 -including in its title that the Innova-Adelante Program is 80% financed by the European Regional Development Fund-.

Hay al menos una firma que presenta problemas. Panel de firma

 **Diario Oficial de Castilla-La Mancha**  
AÑO XXXV Núm. 130

5 de julio de 2016 14790

### III.- OTRAS DISPOSICIONES Y ACTOS

**Consejería de Economía, Empresas y Empleo**

**Orden de 23/06/2016, de la Consejería de Economía, Empresas y Empleo, por la que se establecen las bases reguladoras del Programa Innova-Adelante en Castilla-La Mancha, cofinanciado en un 80% por el Fondo Europeo de Desarrollo Regional. [2016/7109]**

Con la intención de alcanzar los retos a los que se enfrenta la economía y las empresas de Castilla-La Mancha, el Gobierno de Castilla-La Mancha está llevando a cabo un Plan Estratégico de fortalecimiento empresarial (Plan Adelante 2016-2019).

La política regional para el fomento de la I+D+i, que se inicia para este período 2014-2020 de programación de los Fondos Estructurales y de Inversión Europeos (EIE), deberá adecuarse al nuevo marco comunitario, y a las prioridades de crecimiento inteligente, sostenible e integrador de la estrategia Europa 2020 de la Unión.

Dentro de los cinco objetivos principales de Europa 2020, destaca el objetivo de aumentar el gasto público en investigación y desarrollo, para atraer un volumen de inversión privada de hasta dos tercios de la inversión total, hasta alcanzar un total acumulado del 3% del PIB, de aquí a 2020. Por su parte, la iniciativa emblemática de “Unión por la innovación”, en el ámbito del crecimiento inteligente, presenta un enfoque estratégico e integrado con respecto a la investigación y la innovación, como motores de la prosperidad económica y social.

210 x 297 mm

The following actions have also been developed:

- Publishing of five-leaf booklets for the diffusion of the Plan Adelante, in which the Innova-Adelante Program is framed. The cover includes the reference to the European Regional Development Fund, as well as a reference to the theme “Una manera de hacer Europa” and to the European Union flag.
- The distribution of the booklets has been done in several points: official centers of the Junta de Comunidades, especially the Department of Economy, Enterprises and Employment and the Adelante-Empresas offices (which were specifically created to inform about this Strategic Plan), business associations and Official Chambers of Trade and Industry. Moreover, they have been distributed in every presentation events of the Innova-Adelante Program.

# Plan **adelante** 2016 2019

Plan estratégico de fortalecimiento empresarial de Castilla-La Mancha



[www.adelante-empresas.castillalamancha.es](http://www.adelante-empresas.castillalamancha.es)



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## INVERSIÓN **adelante**

Este segundo eje apoyará la renovación del tejido empresarial, para tener más empresas, que estén sean más grandes y más productivas.

### Objetivos:

- Promover la puesta en marcha de nuevos proyectos de inversión empresarial.
- Apoyar la consolidación y crecimiento de empresas existentes.
- Asistir a las grandes empresas en programas de fortalecimiento empresarial.
- Favorecer la creación, consolidación y modernización de las cooperativas y sociedades laborales de Castilla-La Mancha.
- Apoyar a las pymes en el ahorro, eficiencia y producción de energías renovables.

### Destinatarios:

Microempresas, pymes, cooperativas, sociedades laborales y grandes empresas.

### Líneas de actuación:

- Ley de preferencia de promoción empresarial de zonas prioritarias.
- Línea de apoyo a la iniciativa empresarial de microempresas.
- Líneas de apoyo a la creación y consolidación de las industrias de Castilla-La Mancha.
- Incentivos Económicos Regionales.
- Línea de fomento de inversión en Cooperativas y Sociedades Laborales.
- Ayudas al ahorro, eficiencia energética y a la producción de energía renovable.

"Apoyar la renovación del tejido empresarial"

## INNOVACIÓN **adelante**

Este tercer eje fomentará el desarrollo de sectores estratégicos de especialización en Castilla-La Mancha.

### Objetivos:

- Apoyar la innovación empresarial en Castilla-La Mancha.
- Impulsar estrategias empresariales colaborativas.
- Desarrollar los sectores estratégicos de especialización inteligente.

### Destinatarios:

Microempresas, pymes, grandes empresas y CEEs CLM.

### Líneas de actuación:

- Refuerzo y ampliación de los programas de innovación dirigidos a las pymes.
- Desarrollo de nuevas iniciativas en forma de proyectos colaborativos inter-empresas y de transferencia tecnológica entre Universidad, centros de investigación y empresas.

- Fomento del emprendimiento innovador.
- Impulso de nuevas iniciativas empresariales en sectores estratégicos por medio del apoyo a la creación de empresas innovadoras de base tecnológica (EBTs) y de tecnologías avanzadas.
- Acompañamiento para la obtención de financiación nacional y europea.

"Fomentar el desarrollo de sectores estratégicos de especialización en Castilla-La Mancha"

- Official launching events of the Innova-Adelante Program in the region. Specifically, three events have been held, counting with the assistance of 140 company's members in 2017.



# Objetivos

**Plan adelante** 2016-2019

- Apoyar la innovación empresarial
- Impulsar estrategias empresariales colaborativas
- Desarrollar los sectores estratégicos de especialización inteligente

**RIS 3 CLM**

- Reforzar el tejido empresarial innovador
- Lograr mayor eficiencia de los recursos y mecanismos de la incentivación de la I+D+i.



**Castilla-La Mancha**

**PO FEDER 2014-2020**

- Promover la innovación de las PYME y la cooperación para la innovación en todos los ámbitos.

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- During the launching events scheduled to explain the application for grants of the Innova-Adelante Program to the companies all along 2017, the representatives of Netberry Servicios de Internet, S.L. and Ingeteampower Technology, SA, also explained the Smart GAO Project and shared their experience with the assistants, underlining the importance of the grant received and the contribution that the European Regional Development Fund has led to the promotion of the project and the improvement of its competitiveness.





**Castilla-La Mancha**

**PROGRAMA INNOVA-ADELANTE**  
(Ayudas apoyo a la I+D+i empresarial en Castilla-La Mancha)

Consejería de Economía, Empresas y Empleo  
D.G. Empresas, Competitividad e Internacionalización



**PROYECTO SMARTGAO**

NETBERRY SERVICIOS DE INTERNET, SL / INGETEAMPOWER TECHNOLOGY, SA

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## 2º. Integration of novel elements.

After doing an exhaustive analysis of the current market, the Smart GAO Project locates so far as the only one that enables the acquisition of data, with its normalization and later use, in order to visualize in real time the area of renewable energies.

The Project is provided with enough capacity to process large amounts of data and information, in order to self-generate valuable information in a common language to try to facilitate policy-making.

The design of this system is based on four items:

### 1. Internet of Things

It gives all the objects that surround us the ability to interact through communication networks.

### 2. Cloud Computing

It allows transferring to "The cloud" all the complexity of the architecture and computing, reducing deployment costs, at the same time that interconnects virtually an unlimited number of Smart GMAO nodes, without any geographic restriction nor subjacent physical infrastructure

### 3. Big Data Analytics

It uses the data generated by the system usual operation to create an energy profile of the clients. Through the application of evolutionary algorithms, the system is able to automatically reconfigure itself to always keep minimum costs, while maximizing the objectives that must be achieved by the electric devices controlled by the Smart GMAO network.

### 4. Machine Learning

Inference algorithms are used to provide intelligence to the system, which once the model is proven and given all the experience compiled, will be able to provide results and recommendations more precise and effective.

## **3º. Achievement of the suitable results related to the objectives pursued.**

The Smart GAO Project complies the objectives pursued by the Colabora-Adelante Line, which specifically are: promoting the collaboration between companies, encouraging joint projects in which they specifically share their skills and resources to face common challenges and opportunities, in order to improve their position in the market and also to strengthen their competitive advantages.

## **4º. Contribution to the resolution of a necessity in the region.**

The Smart GAO Project, as well as the other projects of the Colabora-Adelante Line contribute to increase the competitiveness of our business network, to promote common business strategies, to develop strategic sectors of smart specialization in the region and to reinforce innovation programs, especially for PYMES.

## **5º. High degree of coverage on the population targeted for the action.**

The Innova-Adelante Program tries to solve the challenges questioned in relation to Economic and Business Promotion and Research, Development and Innovation (I+D+i), signed on 6th October 2015 by the regional Government, together with UGT and CCOO unions and CEOE and CEPYME employers union

To define and develop this two areas (Economic and Business Promotion and I+D+i) two Work Teams were composed, being integrated by a diversity of economic and social agents (trade unions, business associations, universities, companies and sectorial business associations, technology centers, European Business and Innovation Centers) enabling the participation in the proposal of development measures and the conformation of actions to their recipients, which are the groups of PYMES that will finally be beneficiaries of the grants of Colabora-Adelante Line.



**6º. Taking into consideration the Horizontal Priorities (equal of opportunities and non-discrimination, social responsibility and environmental sustainability).**

The Smart GAO Project is entirely framed within the concept of environmental sustainability, since its intention is to contribute to the strengthening of the Sustainable Economy, providing relevant information for the best use of renewable energies

The principle of equal of opportunities is guaranteed since technical criteria are taken into consideration in the selection of beneficiary companies, without any kind of discrimination based on gender. Moreover, among the requirements demanded to accept the aid, there is also the acceptance of regional, national and communitarian legislation on equal opportunities and environmental conservation, among others.

**7º. Synergies with other policies or governmental public instruments.**

The Innova-Adelante Program, as mentioned above, is framed within the Pacto por la Recuperación Económica of Castilla-La Mancha, formed as the basis for the construction of a more beneficial environment to consolidate the regional business network, in order to promote the emergence of new companies and also the strengthening of the existing ones, to create a strong, more competitive and sustainable economic development over time, and therefore, to create quality employment.