

Una manera de hacer Europa



BUENAS PRÁCTICAS

Actuaciones Cofinanciadas

STRENGTHENING OF SCIENTIFIC-TECHNOLOGICAL CAPACITIES
Technological Institute of Aragón - ITA

Programa Operativo de Aragón

Año 2018

Fondo Europeo de Desarrollo Regional

STRENGTHENING OF SCIENTIFIC-TECHNOLOGICAL CAPACITIES

DESCRIPTION

This operation aims to improve scientific and technological infrastructures, and is instrumented through the development of three types of projects.

First, there are the Strategic Plan Projects, which consist of the preparation, implementation and monitoring of strategic plans, scientific-technological plans and actions aligned with the needs of companies, with the priorities defined in the Research Strategy and Innovation for an Intelligent Specialization of Aragón (RIS3 Aragón) and with the European, national and regional strategies and plans in the field of R + D + i.

Secondly, the Projects for the acquisition of investments, which include the adaptation, modernization and expansion of laboratories and technological areas through the creation, acquisition, provision, installation and start-up of facilities and R & D infrastructure, equipment with scientific-technological end and advanced instrumentation, including the necessary investments for the improvement or start-up of services for companies.

And, finally, there are the Innovation Projects, for the development and improvement of technological products and services of high added value offered to the business sector to cover their technological needs.

The executed amount of the operation is 1,157,633 euros, and ERDF assistance is 578,816 euros, and an impact of 110 researchers has been achieved.

This action is considered a Good Practice because:

1.- The action has been conveniently disseminated among the beneficiaries, potential beneficiaries and the public in general.

For the dissemination, different means have been used, such as the specific website of the Technological Institute of Aragón <https://itainnova.es/es/itainnova/programas-operativos-aragon>

PROGRAMA OPERATIVO FONDO EUROPEO DE DESARROLLO REGIONAL FEDER DE ARAGÓN 2014-2020

El Programa Operativo Fondo Europeo de Desarrollo Regional de Aragón Decisión de Ejecución de la Comisión Europea C(2015)4923, de fecha 14 de mayo de 2015, de inversión en crecimiento y empleo destinadas a Aragón en España para el periodo 2014-2020.

El importe máximo del crédito financiero total previsto para la ayuda del FEDER en Aragón se establece en 119.947.338 euros, siendo la tasa de cofinanciación del 85%.

Puedes consultar la información y ejes prioritarios de Programa Operativo FEDER Aragón 2014-2020 en www.federaragon.es

ITAINNOVA PARTICIPA EN EL EJE:

Eje 1: Potenciar la investigación, el desarrollo tecnológico y la innovación

Fortalecimiento de las capacidades científico-tecnológicas

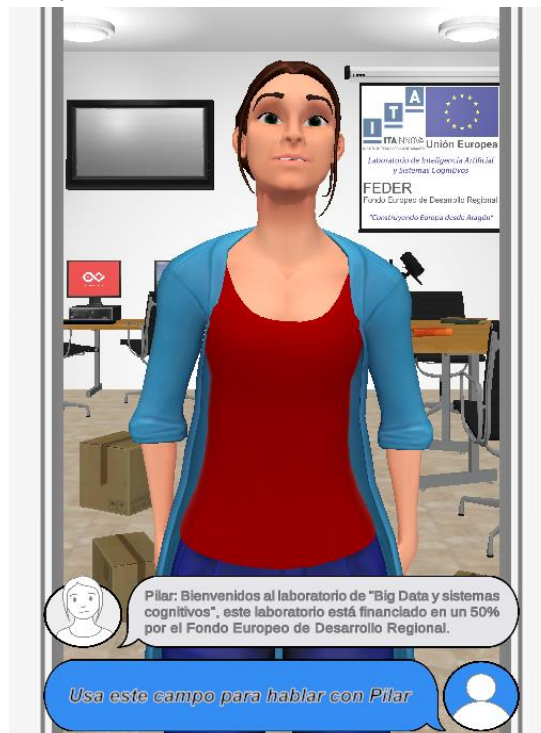
DATOS GENERALES

- **Eje Prioritario:** Eje 1- Potenciar la investigación, el desarrollo tecnológico y la innovación.
- **Objetivo temático:** 01- Innovación.
- **Prioridad de Inversión:** 1a- Mejora de las infraestructuras de investigación e innovación (I+i) y de la capacidad para desarrollar excelencia en materia de I+i, y el fomento de centros de competencia, en especial los de interés europeo.
- **Objetivo Específico:** OE010102. 1.1.2- Fortalecimiento de las instituciones de I+D y creación, consolidación y mejora de las infraestructuras científicas y tecnológicas.

In the presentations addressed to companies and to the general public about the capacities and projects developed, references to European co-financing have been included, as well as in information brochures:



And it has also been taken into account in the presentation of the Avatar of the Big Data and Cognitive Systems Laboratory available on the internet:



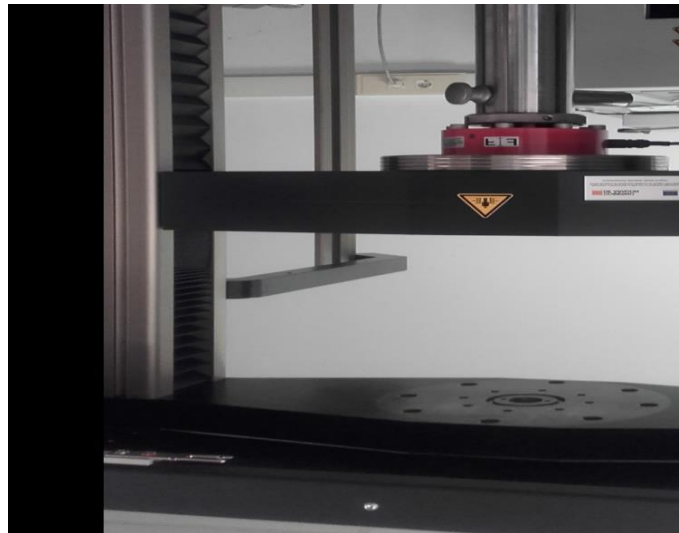
2.- The performance incorporates innovative elements.

The action has innovative elements because it introduces innovation in the technological capabilities of the Institute, tangible and intangible, for example, by acquiring and commissioning the equipment and other assets that improve the technological capabilities of the laboratories and technological areas of the Institute. .

On the other hand, the equipment used by the researchers, as well as the research carried out, are oriented and aligned with strategies of the region, supporting those sectors, small and autonomous companies that demand mainly innovative services to develop small projects of I + D, and that by themselves do not have the proper structure to develop more complex and costly innovation activities, which in the long run means that they can not compete in the market.

Some examples of equipment purchased that improve the Institute's capabilities, and that are part of the material used in innovation activities are the following:

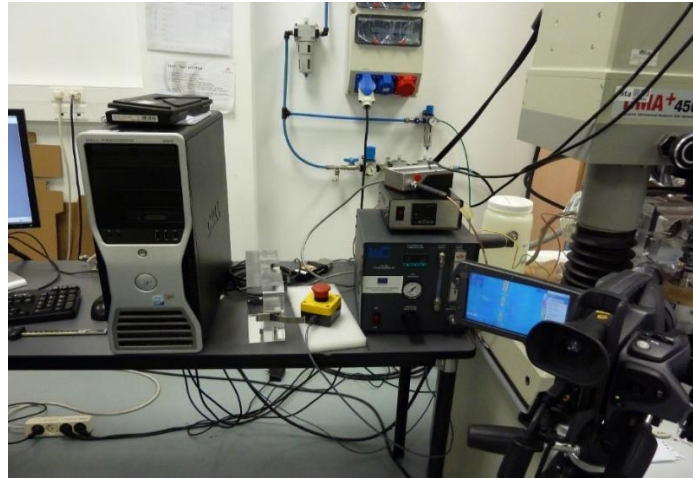
Universal electromechanical testing machine and its accessories, to carry out static tests for the characterization of materials:



Extension and renewal of the calibration laboratory equipment, for the performance of metrology tests and verifications:



Climatic humidity chamber that determines the viscoelastic properties and dynamic behavior of materials that are especially sensitive to environmental conditions (hydrophilic materials):



Dynamic vibration analyzer that measures noise and vibration with dynamic sensors:



Calender of two cylinders for rubber mixtures:



Disk storage system to reduce the cost of annual maintenance and improve the performance of current equipment:



3.- Adaptation of the results obtained to the established objectives.

The objective set in the indicator (111 researchers) has been almost fully achieved, since 110 researchers are currently working in the improved facilities thanks to this operation.

Likewise, the results of support to the business fabric reflected in the activity report of the Technological Institute of Aragon in 2017, also show that as a consequence of this operation there is a technological transfer and efficient innovation towards the productive fabric of Aragon.

4.- Contribution to the resolution of a problem or weakness detected in the territorial scope of execution.

It should be noted that, as reflected in the "II Autonomous Plan for Research, Development and Transfer of Knowledge", there is a consensus regarding the need to increase the economic resources allocated to research, development and innovation, which also has as a counterpart the demands by society that they be adequately invested, and that the knowledge generated be transferred to the productive sectors to contribute to the improvement of living standards. This requirement, applicable at all levels, is even clearer in the area of regional policies, which by their very nature are closer to the ground and therefore more sensitive to short-term changes in the direction and intensity of investor efforts.

5.- High degree of coverage on the target population of the action.

In line with the above, the action has a high degree of coverage in the field of research and innovation given the high number of researchers (110) working in the Institute's improved facilities, which shows a positive impact on the target population .

With this, it is possible to stimulate the scientific-technical research lines and the start-up of new services of high added value, contributing in this way to the achievement of objectives and goals in terms of R & I of the international, national and regional plans. and the needs of the business sector, also allowing a large number of researchers from other scientific research centers, universities, public administrations, networks, technological platforms, etc. to benefit. Everything has a large number of people who directly and indirectly they are benefiting from the development of these actions.

Also, through the development and start-up of new services with high added value or improvement of existing ones, numerous companies and business sectors are benefited that can carry out internal innovation projects.

6.- Consideration of the horizontal criteria of equal opportunities and non-discrimination, as well as social responsibility and environmental sustainability.

Since 2016, the Technological Institute of Aragon has been recognized with the seal of social responsibility of Aragon, which starts from the assumption of commitment to corporate social responsibility and has subscribed to the principles of the social responsibility plan of Aragon: Transparency; Sustainability Respect for employed persons; excellence in management and customer orientation; Relationship with suppliers; regarding the environment. This commitment impregnated in the general management is also subscribed in the execution of this operation.

Some of the projects try to influence an improvement in sustainability since many of them are oriented to areas such as the improvement of environmental management, the application of clean technologies, savings and energy efficiency.

In general, through their action plans and processes, equality between men and women in all areas is fostered with concrete actions, among which it is worth noting that the organization has representation in terms of balanced gender equality, in a proportion of 56% men and 44% women in coordination positions, and a promotion of equal pay for equal work is carried out, through the start of a study and negotiation of a new system of professional classification and remuneration system. In addition, in the access to employment, in all the selection commissions are available technical persons trained in gender equality.

7.- Synergies with other policies or instruments of public intervention

The Technological Institute of Aragon has among its objectives to intensify and improve the transfer of knowledge to the Aragonese business fabric and society in general for what it develops an offer through value training experiences around innovation and especially technological innovation , aimed at companies, professionals, students and entrepreneurs. In the fourth industrial revolution, innovation is an obligation for the competitiveness and sustainability of the industrial fabric, which means the obligation to go hand in hand with the company along this path, together with the University and the research institutes, and through interdepartmental collaboration. In order to develop these activities, this operation, which allows the acquisition of cutting-edge technological capabilities in research and innovation, is essential.

Una manera de hacer Europa

BUENAS PRÁCTICAS
Actuaciones Cofinanciadas

Fondo Europeo de Desarrollo Regional