

*Una manera de hacer Europa*



# BUENAS PRÁCTICAS

## Actuaciones Cofinanciadas

REHABILITATION OF THE BUILDING OF CA SES LLUCIES

University of the Balearic Islands UIB

**Programa Operativo  
de Illes Balears**

Año 2020

**Fondo Europeo de Desarrollo Regional**



## REHABILITATION OF THE BUILDING OF CA SES LLUCIES

Within the framework of the Innovation and Transfer Program of the University of the Balearic Islands UIB (hereinafter SmartUIB), the rehabilitation *of the Ca Ses Llúcies building has been carried out* with the aim of turning it into an innovation centre and a research and innovation laboratory.

The project has consisted of the construction and energy rehabilitation of the building of Ca Ses Llúcies which was formerly a traditional building house located at one of the main entrances to the UIB campus. It has an approximate area of 250 m<sup>2</sup> and is divided into two floors, in addition to a close environment of 1,000 m<sup>2</sup> of surface. The centre, in addition to becoming the headquarters of SmartUIB, is itself a laboratory of international reference innovation in buildings of this nature.

For the creation of the innovation centre, it has been necessary to carry out the rehabilitation of the building and the implementation of innovative technologies that have made it possible to work on the objectives of improving the environment and combating climate change, both in the process of rehabilitating the building and in the ordinary use of the laboratory.

The centre aims to focus its attention on issues related to training, orientation, development, building, technology and innovation. To achieve this goal, a set of activities integrated in a multidisciplinary laboratory of innovation and technology has been made available to society as a space for talks, seminars and thematic workshops related to the objectives of the centre.

The total eligible cost of the action is **EUR 266,942**, financed by the European Regional Development Fund (ERDF). The aid for this project is 100 % of the cost.

A total of 11 researchers work at the centre, equivalent to 2 full-time doctoral researchers.



Below are the arguments that make this project considered good practice, in accordance with the criteria defined for this purpose.

### **Criterion 1. High dissemination among beneficiaries and the general public.**

The project has a high dissemination of the contribution of European funds to the economic and social development of this investment, both to potential beneficiaries and to the general public, and has been widely disseminated through the various information and publicity measures developed.

Among the **mandatory measures** which have been carried out in accordance with Community legislation, the following should be noted:

During the **tendering and award process**, the EU's contribution to the co-financing of the action in the respective tender notices was highlighted, which mentions the ERDF's co-financing of the action.

Information about the project and its financing by the ERDF is available on the **website of both** the Directorate-General for University Policy and Research and the Universitat de les Illes Balears (UIB), in the section for the European Funds.



During the execution of the work, a **temporary information poster** was placed on the project to comply with the rules on information and communication measures and was replaced by a **permanent commemorative plaque** installed after the performance was completed and located in a place visible to the public.



In addition, **other actions and measures** have been carried out in the field of communication and information, in order to strengthen and give greater visibility to co-financing by the European Union for action, including the following:

**In various media** outlets in the Balearic Islands, both in their paper editions and in their online versions, information has been collected about the beginning of the works, their progress and the opening ceremony. **Information notes** on the same subject have also been prepared and published on the website of the Govern de les Illes Balears and the UIB, always mentioning the co-financing of the ERDF.



In order to disseminate the performance, the UIB and the public broadcasting body of les Illes Balears IB3 launched an agreement on the **creation, production and distribution of audiovisual material** through the creation of audiovisual microspaces both locally, nationally and internationally, using the different broadcasting platforms. The dissemination of these recordings and the monitoring of the process have been launched through the IB3 Television and Internet channel, always mentioning the ERDF's financing of the building's rehabilitation (<https://www.youtube.com/watch?v=gnQGCxwsg8>)



On 12 November 2019 the **opening ceremony** of the building was held, attended by authorities of the Govern de les Illes Balears, of the UIB, representatives of the academic world linked to research and innovation, as well as numerous media. The collaboration of the ERDF in the financing of the services was mentioned in the parliaments that took place during the event.

Information about the project and the ERDF contribution to its implementation was published in issue 7 of the Newsletter **Butlletí de Fons Europeus de les Illes Balears** edited by the Directorate-General for European Funds in its December 2019.



This action has also been disseminated through the system for mapping co-financed projects of the European Funds DG, located on its Website ([http://www.caib.es/sites/fonseuropeus/ca/portada\\_2016/?campa=yes](http://www.caib.es/sites/fonseuropeus/ca/portada_2016/?campa=yes)). This online application, which is accessible to anyone, allows you to visualise not only the geographic location of the investment, but also provides systematised data the investment made.



Finally, it should be noted that various accounts have been reported on **social media platforms on** Facebook and Twitter on the evolution and implementation of the action, highlighting the contribution of the ERDF.

## Criterion 2. Incorporation of innovative elements.

The aim of this project is to transform the house into an SIH space (sustainable, intelligent and healthy) that fulfils perfectly the mission of acting as a catalyst for ideas and projects, as well as being an active agent in the contribution of value to society to turn it into a laboratory of international reference innovation in its field.



The building of Ca Ses Llúcies was an old house of traditional construction and thanks to its rehabilitation it has been possible to develop innovative construction techniques. The techniques used are transferable and applicable to other construction projects, regardless of their scale, especially in the field of sustainable tourism.

This is the first “passive house” for public use in the Balearic Islands, a type of bioclimatic architecture construction combined with the efficiency it offers throughout the year, a comfortable ambient temperature, without the application of conventional heating.

The project has involved conducting a very comprehensive study on guidance, air currents, recovery of originating material and water use. Ca Ses Llúcies combines construction techniques 4,000 years ago with the most cutting-edge technology, such as the use of computer fluid dynamics, a system that NASA also uses to know how to take advantage of air currents.

## Criterion 3. Adequacy of the results obtained to the objectives set.



The commissioning of this building has made it possible to make available to society in general and to the target groups of the infrastructure, a whole set of activities that allow to know Ca Ses Llúcies in all its aspects: a multidisciplinary laboratory for innovation and technology and a space for talks, courses, seminars and workshops related to the objectives of SmartUIB.

On the other hand, it should be noted that it has been possible to recover and increase the university's heritage, while setting an example and showing society that it is possible to build (both new work and rehabilitation) more efficiently and following criteria of sustainability and health.

**Criterion 4. Contribution to the resolution of a regional problem or weakness.**



Investment in actions related to Research and Technological Development and Innovation is a pending subject in the Balearic economy, one of the characteristic features being the limited investment effort it presents.

The implementation of this infrastructure has helped to promote occupation in this sector, which will enable the development of research capacities in the Balearic Islands by supporting research groups that allow the generation of scientific knowledge and the improvement of the provision of scientific and technological infrastructure and equipment, contributing to the consolidation of research activity.

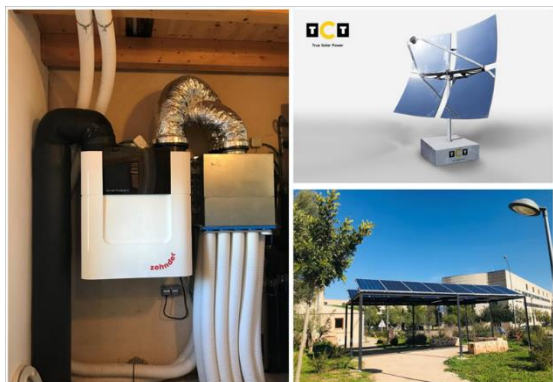
**Criterion 5. High degree of coverage of the target population.**

This property can be used both by the university community and by society in general, since it covers areas as intertwined as innovation and transfer to demonstration, through professional and social pedagogy. It is available to teachers and students, as well as by companies interested in studying and testing innovative models given their vocation to be a “door of access” to the UIB.



It is particularly interesting for construction, demotic and bioconstruction companies, as well as for companies related to the tourism sector and that of job training and guidance.

## **Criterion 6. Consideration of horizontal criteria of equal opportunities and environmental sustainability.**



The project has demonstrated a sensitive use and management of natural resources throughout its life cycle, enhancing as fundamental aspects the low environmental impact, energy efficiency, the use of natural resources, the high use of renewable energy over energy generated by fossil fuels, and land-use efficiency with solid products and technologies.

The rehabilitation has been carried out with a wooden structure and straw bullets covered with earth mortars and lime for the walls, using bioconstruction techniques that generate healthy environments free of toxic elements and with a high environmental quality. In addition, inside the house the furniture used is sustainable as it has been built with natural materials by local manufacturers and using recycled materials.

The Univesitat de les Illes Balears (UIB) has an Office for Equal Opportunities for Men and Women whose mission is to collect, analyse and disseminate systematic and periodic information on the situation of the principle of equal opportunities between women and men, as well as to propose actions for the improvement of this for the entire university community. In addition, it had launched the II Equality Plan, reaffirming its commitment to promoting equality between women and men and combating all forms of discrimination.

## **Criterion 7. Synergies with other policies or instruments of public intervention.**

This action is consistent with what was established, both by the Regional Innovation Strategy for the Intelligent Specialisation of the Balearic Islands (RIS-3Balears), and by the Regional Plan for Science, Technology and Innovation of the Balearic Islands 2018-2020, since it contributes to overcoming the weaknesses identified in the Strategy, such as improving the efficiency of investments made in the promotion of research and innovation in specific key subjects with respect to their alignment with the socio-economic structure of the region.



In this context, the expected results relate to the consolidation of research activity in the Balearic Islands, both in areas of special interest to the European Union (such as those envisaged in the Horizon 2020 Initiative), and in those areas that contribute directly to improving the development of the objectives of the Plan and the Strategy. This is expected to significantly increase the variety and quality of analysis and tools available to the research community within the framework of the innovation programme of the University of the Balearic Islands (SmartUIB).



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