

*Una manera de hacer Europa*



**BUENAS PRÁCTICAS**  
**Actuaciones Cofinanciadas**

"Knowledge transfer between University and Business 2015-2017", personalised in the UBUNurse project within the aid granted to the General Foundation of the University of Burgos (Fundación General de la Universidad de Burgos)

Directorate General for Universities and Research

**Programa Operativo  
de Castilla y León**

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**Fondo Europeo de Desarrollo Regional**



**Good Practise presented by the Directorate General for Universities and Research, "Knowledge transfer between University and Business 2015-2017", personalised in the UBUNurse project within the aid granted to the General Foundation of the University of Burgos (Fundación General de la Universidad de Burgos).**

The Regional Ministry of Education, through the Directorate General for Universities and Research, has launched the Knowledge transfer between University and Business Plan (TCUE Plan) 2015-2017, aimed at promoting university-business cooperation and strengthening the connection between higher education and the business sector, particularly in the areas of specialisation identified in Castilla y León.

These actions are developed by the Knowledge transfer between University and Business Network (TCUE Network), which is integrated, together with the Ministry of Education, by the Foundations of the Universities of Castilla y León.

One of these foundations is the General Foundation of the University of Burgos (Fundación General de la Universidad de Burgos), which has developed the UBUNurse project, consisting in creating a computer application for mobile devices that will improve the quality of assessments, the efficiency and effectiveness of nursing staff and modernise the system for collecting information in home care.

The computer application is a tool that has made work easier for nursing professionals in their home visits, opening up development lines for the application such as integrating an individualised care plan for patients, improving the assessment of nursing staff and improving the calculations of optimising routes to save time and costs through GPS.

To implement this operation the University of Burgos has received an aid of 465,468 euros, of which the ERDF financed 232,734 euros during the period 2015-2017.

The impact achieved with this project, which obtained one of the three awards granted by the University of Burgos' Office for Transfer of Research Results (OTRI) in its annual call for market-oriented prototypes, has led to its registration in the Burgos Intellectual Property Registry under number BU-102-17.

This operation is considered a Good Practise because it meets the following criteria:

**1. The action has been adequately disseminated to beneficiaries and the general public through the different media**

The Directorate General for Universities and Research has a place on its website with information available on these aids.

<http://www.educa.jcyl.es/universidad/es/fondos-europeos/fondo-europeo-desarrollo-regional-feder/subvencion-fundaciones-universidades-publicas-integrantes-r>

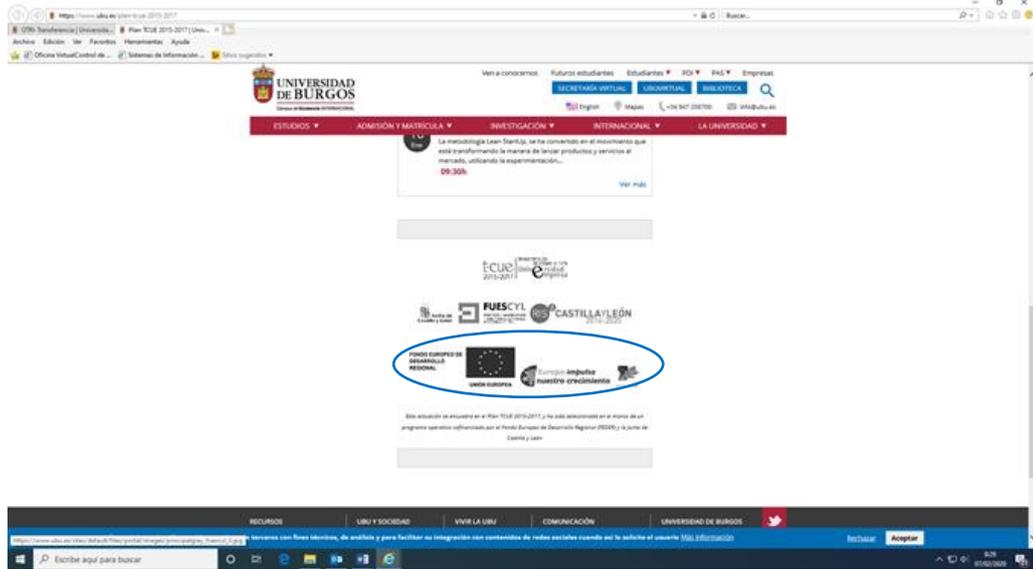
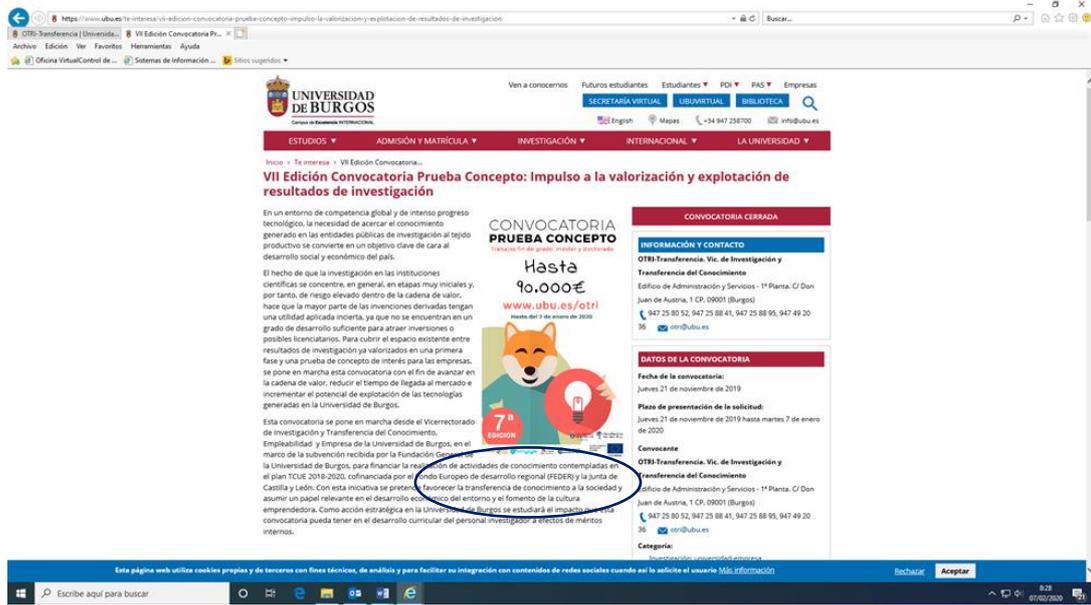
A plaque has been placed at the University of Burgos informing about the actions carried out within the framework of the Knowledge transfer between University and Business programme.



The General Foundation of the University of Burgos has also disseminated the aid received within the framework of this project through three web pages:

<https://www.ubu.es/ubuemprende>

<https://www.ubu.es/plan-tcue-2015-2017>



In an attempt to disseminate this operation, the University of Burgos has carried out several public events and has also disseminated it in different bulletins.



This project has also been disseminated at the awards ceremony in the context of the call for Market-Oriented Prototypes - Fourth Call for Proof of Concept



It has also been disseminated through the social networks:

-Twitter <https://twitter.com/UbuNurse>

-Facebook <https://www.facebook.com/UbuNurse>

-Youtube [https://www.youtube.com/channel/UCQGNnJJb75vryNtXwu\\_p48w](https://www.youtube.com/channel/UCQGNnJJb75vryNtXwu_p48w)



## **2. The actions incorporate innovative elements.**

The purpose of the UBU Nurse application is to develop a service for home care by developing a multi-platform application that allows improving the quality of home visits in nursing and the system for collecting information, saving the results and data obtained in such a way that they are easily accessible and enabling the interpretation of the results obtained by means of graphic elements.

The inclusion of new information technologies in nursing represents an innovation in the relationship between professionals and patients. This new reality poses the need to ensure that nursing professionals do not stray from these new technologies.

The inclusion of a computer application that reinforces, helps and improves the current home-visit model is the main innovation of this project, providing a technological perspective of development that enhances its social impact.

## **3. Adaptation of the results obtained to the established objectives**

The University-Business relationship is a critical aspect for the future of Castilla y León. On the one hand, implementing the smart specialisation approach is essential, whereby efforts are concentrated on niches of scientific, technological and economic specialisation.

The UBUNurse project, presented in this context, is also an example of cooperation between different University departments and areas. On the one hand, the General Foundation of the University of Burgos cooperates actively with the University's own European projects office. On the other hand, in the case of actions involving transfers to the business, we have the cooperation of companies of Castilla y León, setting up a university consortium for the transfer of knowledge.

## **4. Contribution to solving a problem or weakness detected in the territorial scope of implementation.**

One of the duties of the nursing staff is to make home visits to patients who, for different reasons, cannot leave their homes to receive the primary healthcare required.

It was observed that the nursing staff asked few generic questions which due to their experience they know by heart, taking notes of the different answers with a pen and a paper, since they have no other way of doing it, and at the end of the visit they had to go back to the office where their personal computer has a computer application that does not contain all the patterns or scales and also the results are not seen clearly.

The UBUNurse project develops a mobile application that allows nurses to choose, at the patient's home, the corresponding test they want to perform, improving the quality of the assessment made. After passing the chosen test, the same application shows the results instantly and clearly, suggesting the actions to be carried out accordingly; this improves the staff's efficiency and effectiveness, given that if the results involve direct actions that they can carry out there and then, without having to make another appointment and use that possible appointment to visit other patients.

## **5. High coverage of the target population.**

In Castilla y León, where the UBUNurse project is being carried out, 55% of the population receives primary healthcare at home.

In developing the UBUNurse application, studies that highlight that the elderly population, living in rural areas and with multiple chronic diseases were considered: this was the main group visited and 47% of patients needed more than one visit to solve their health problems.

It is a very broad market and yet not very technologically innovative, so it is clear that the project presented will clearly reach all the population demanding this service.

The UBUNurse project is a clear example of social commitment in the field of e-health and primary healthcare, specifically home nursing visits.

#### **6. Consideration of the cross-cutting equal opportunities and non-discrimination criteria, in addition to social responsibility and environmental sustainability.**

In implementing and developing the project, the University of Burgos considered gender equality and environmental policies.

With regard to the gender equality policy, the participation of women in the different actions carried out in the project was promoted, in an attempt to increase their representation.

With regard to environmental policies, the implementation of projects aimed at solving problems or providing solutions to environmental problems was promoted.

The results of the studies incorporated into the UBUNurse project indicate that the target population of home visits has multiple diseases, physical incapacity and requires constant monitoring, treatment and health education. In addition, it was observed that the elderly population, living in rural areas and with multiple chronic diseases were the main group visited, and it is also observed that 47% of patients required more than one visit to solve their health problems.

This workload and the activities most often performed by nurses have been taken into account in developing the application, differentiating between the type of patient and their socio-economic and family situation.

The target population benefiting from this application of the home visit has a physical disability and needs constant monitoring of their wound healing treatment, which is why this project is considered to contribute to non-discrimination.

Furthermore, it does not in any way undermine equal opportunities, as it does not discriminate between patients, be they men or women.

With regard to environmental policies, implementation and use of this application would imply energy savings in the movement of nursing staff and paper savings in the management and monitoring of the administrative procedure of medical care.

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

The Knowledge transfer between University and Business Plan in general, and the actions carried out within it by the General Foundation of the University of Burgos, are basically part of the Strategy for the Smart Specialisation in Castilla y León, which seeks to promote cooperation between knowledge-generating agents and knowledge transfer, improving relations in the regional Research, Development and Innovation system, establishing mechanisms to foster business cooperation, cooperation between researchers and the transfer of knowledge and technology.

Furthermore, due to the role played by universities in these projects, the aim is to strengthen a more competitive and sustainable economic model through business innovation and the efficient use of resources, to move forward towards scientific and technological leadership in certain fields of potential regional specialisation, to improve the internationalisation and outward vision of the regional innovation system, and to promote the culture of innovation and creativity.

This market-oriented UBUNurse prototype was part of the University-Business relationship as a critical aspect for the future of Castilla y León.

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