

*Una manera de hacer Europa*



# BUENAS PRÁCTICAS

## Actuaciones Cofinanciadas

CARTOGRAPHIC BASE OF ANDALUSIA (BCA)  
Institute of Statistics and Cartography of Andalusia  
(IECA)

# Programa Operativo de Andalucía

Año 2019

## Fondo Europeo de Desarrollo Regional

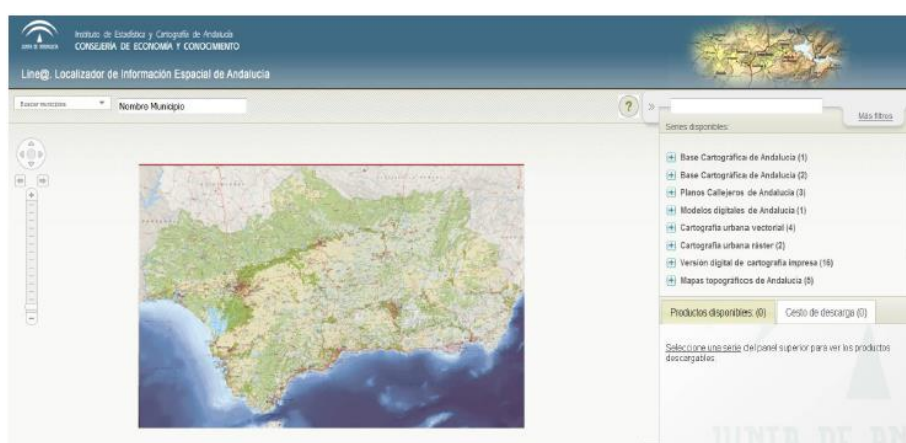


## CARTOGRAPHIC BASE OF ANDALUSIA (BCA)

The Cartographic Base of Andalusia (BCA, for its acronym in Spanish) is conceived as a topographical database that collects the general elements of the territory. It is designed for its exploitation through computer systems as well as for the elaboration of classic cartographic outputs. The BCA10 is the highest-level topographic mapping for the Andalusian territory, its scale being 1:10,000. It is a high-quality product in which the rigour of the processes and the required standards guarantee its final usability regardless of the output format.

This project is part of a set that supplies the basic information and dissemination infrastructures for knowledge of the territory, population, economic activity, and public services in Andalusia, and which are likely to be used by the ICT sector in economic activity generation processes. It involves the use of new technologies at the service of citizenship and public administrations. For this reason, its development has been funded by the European Regional Development Fund of the European Union within the 2014-2020 Community framework.

This project has involved a total investment of 1,173,403 euros, of which 938,722 euros (80% of the total) have been co-funded by the ERDF. This action aims to increase the use of the public administrations or services websites, reaching 3,346,000 people in 2023 (that is, 40% of the expected Andalusian population in 2023), as compared to 2,697.53 people in 2014.



**It is considered a Project's Good Practice since it meets the following criteria:**

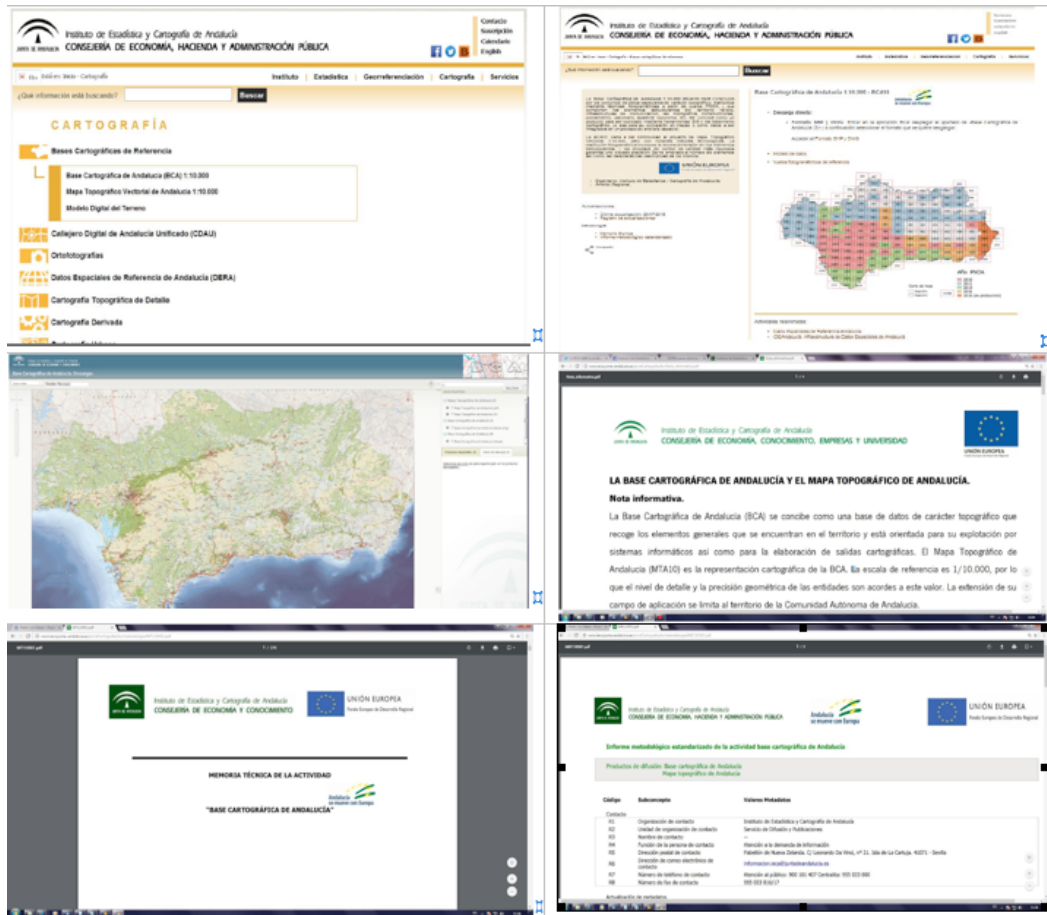
### **1. The ERDF's role has been suitably disseminated among the beneficiaries, potential beneficiaries, and the general public:**

The main dissemination of the Cartographic Base of Andalusia is made through the Institute of Statistics and Cartography of Andalusia (IECA, for its acronym in Spanish) website. This agency has worked on diversifying the final offer of products and formats for potential users. This way, in addition to the usual digital formats for professional sectors that use Geographic Information Systems (GIS), sectors that continue to demand CAD (Computer Aided Design) as well as products for general purposes such as edited maps (Topographic Map of Andalusia – MTA10) and other more innovative ones such as the Interoperable Services (WMS) have also been considered.

The following information shows the dissemination made on different media:

#### **1.1 IECA website, CARTOGRAPHY section:**

The user can directly access the cartographic products generated in this project, as well as other explanatory documentation, in particular the technical memory and the standardised methodological report, as well as more specific documents such as the data model and the quality assurance process.



## 1.2 IECA website, European Funds section:

The IECA includes a section on its website that presents a description of the co-funded actions by the European Funds, as well as direct access to the statistical product or products generated as a result of those actions:

<http://www.juntadeandalucia.es/institutodeestadisticaycartografia/ieagen/iea/fondos/index.htm>





### 1.3 Use of social media:

Through the social networks Facebook and Twitter, the IECA disseminates news to this project. The following images refer to news dissemination on both social networks.

The dissemination through Facebook and Twitter generates a #FEDER hashtag which aims to report on the co-funding of the activity by the European Funds. This communication strategy is common to all the statistical and cartographic developments that are co-funded by the European Funds and disseminated through the IECA social networks.



**1.4. Events:** Panel on the BCA installed on the occasion of the exhibition "The Value of Information", held in Seville between May 15 and June 5, 2019. Location: Puerta de Jerez (Seville).



## **2. The action incorporates innovative elements:**

There are several innovative elements incorporated into the BCA project. From a methodological point of view, the IECA has designed a quality assurance process throughout the production flow. Measures and thresholds have been set up at each production phase, so that if non-compliance is detected in the set parameter, the data returns to the start of the process. On the other hand, information from other official sources, such as the Geographical Nomenclator of Andalusia, the Inventory of Headquarters and Equipment of Andalusia, or the Unified Digital Street Directory of Andalusia, is reused. This reuse allows, in addition to ensuring unique data, to reduce costs in certain processes so as to improve quality in others.

From a technological point of view, the use of free software for storing, editing, quality control and disseminating information is noteworthy. All procedures have been developed in free geographic databases (PostGIS), in standard programming languages (SQL) that were also interchangeable with other applications.

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

The main objective of the project is to provide the Autonomous Community with a large-scale cartographic base as well as to facilitate its use by other agencies and for citizens in general. The Cartographic Base of Andalusia (BCA) is one of the official bases of reference, together with aerial orthophotography, for the realisation of planning, management and development tasks of all policies of a territorial nature. Its fundamental contribution is to provide a global, synthesised, up-to-date and highly detailed mapping view of the entire Andalusian territory.

## **4. Resolution contribution of a regional problem or weakness:**

Until the beginning of the BCA10 generation, Andalusia did not have a large-scale topographic reference base, produced according to modern technological standards and with sufficient quality requirements to be considered a base of reference for mapping and official cartography, that is, of mandatory use for the Regional Government of Andalusia. Having a basic reference topographic mapping is essential for any administration to properly exercise its powers. From this cartography, it is possible to conduct as many analyses and plans as needed, in addition to use it as a basis for other thematic and derived mapping activities such as land, transport and geology uses, etc.

## **5. High target population coverage:**

The information obtained and disseminated by the indicated channels is available to the public administration and to society as a whole. The direct beneficiaries and the target audience are diverse. On the one hand, the different administrations have a mapping basis of reference on which to carry out studies and planning proposals on a real image of the territory. On the other hand, citizens have a cartography for various activities, and the business sector, which may reuse the information contained in the BCA10, thus providing it with added value. In recent years, BCA products have become a highly demanded source of information, not only from the public or professional sphere, but also from the general public, which makes a massive use of these products from their dissemination in the web services provided by the Andalusian Administration.

## **6. The horizontal criteria for equal opportunities and non-discrimination, environmental sustainability and/or social responsibility have been taken into account:**

The information contained in BCA10 is easily accessible to all citizens, not just those who manage complex geographic information systems. Being offered in editable format (pdf map), there is no need for specific software.

As regards information preparation, the contracts concluded by the IECA for quality assurance and generation of broadcast products are implemented through the contractual procedures in force in the legal system.

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

The information obtained in the BCA constitutes the official reference cartography for any other mapping of the Regional Government of Andalusia or any other administration, company or citizen that wishes to relate to the Regional Government of Andalusia. In particular, the BCA is a core element for any land planning made by town and regional councils.

In addition, information from other geographical infrastructures such as the Andalusian Positioning Network, the Inventory of Headquarters and Equipment of the Regional Government of Andalusia, the Geographical Nomenclator of Andalusia, or the Unified Digital Street Directory of Andalusia are reused.

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