





# Una manera de hacer Europa



IMPROVEMENTS IN THE ARCHITECTURE OF INFORMATION SYSTEMS Government of Aragon

# Programa Operativo de Aragón

Año 2019

Fondo Europeo de Desarrollo Regional

#### IMPROVEMENTS IN THE ARCHITECTURE OF INFORMATION SYSTEMS

#### **DESCRIPTION**

The operation "Improvements in the information systems architecture" consists of a group of projects to improve the information architecture, aiming to evolve the services associated with the data through the interoperability of public information, its quality and interest in the data, betting on technologies such as the semantic web or information systems.

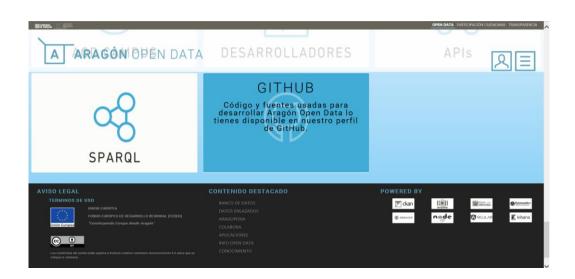
The projects integrated into the operation are aimed at improving the quality of the data and obtaining greater knowledge of its possibilities on the part of the citizens and the Aragonese socio-economic fabric.

The projects that will be developed will be aimed at the design and implementation of an information and data scheme that favors the interoperability and use of information in Aragon; the labeling of the information of the administration for its joint analysis, exploitation and service; improvements in the web portal of the Government of Aragon, based on semantic technologies, and usability criteria for citizens.

This operation is integrated within the objectives set by the European Union in the matter, in particular, to create economic value in the Information and Communication Technologies Sector through the reuse of public information; increase transparency in administration; encourage innovation; improve the Administration's information systems and, finally, generate data interoperability between public sector websites.

To improve the openness of data and its associated services offered to citizens from the Administration, it is necessary to support the quality of the data by normalizing its structures. Task that allows for greater interoperability of information and the generation of new services based on information systems that have a direct impact on the fact that citizens can access and use them.

The amount executed for this operation, to date, is 110.564 euros, with the ERDF aid of 55.282 euros, which has enabled new structures to be created in the information systems, facilitating access for citizens in their procedures with the Administration. Public, allowing the number of users who are covered by a certain electronic public service amounts to 94,362 people.



This operation is considered a Good Practice because:

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

The operation has been disseminated through the media of the Autonomous Community of Aragon, highlighting, in particular, the contribution of the FEDER aid to obtain the intended purposes.

#### AragonOpenData

Aragón premiada en la Conferencia Internacional sobre Reutilización de la Información del Sector Público de ASEDIE

018-10-29 ~ ARAGON OPEN DATA ~ EDITAR

Los principios de Gobierno Abierto, la reutilización de información o el acceso claro y fácil entre los valores para otorgar el premio.

La Dirección General de Administración Electrónica y Sociedad de la Información del Gobierno de Aragón ha recibido el premio ASEDIE, de la Asociación Multisectorial de la Información, por el proyecto Estructura de Información Interoperable de Aragón (EI2A). La entrega del reconocimiento ha tenido lugar hoy en Madrid, en el marco de la décima Conferencia Internacional sobre Reutilización de la Información del Sector Público.



El Premio ASEDIE 2018 destaca que el proyecto del Gobierno de Aragón pretende dar cumplimiento y seguimiento a los principios fundamentales del Gobierno Abierto: transparencia, colaboración y participación. Además, señala que facilita el acceso a bases de datos demandadas por el Sector Infomediario en formatos digitales estructurados en base a estándares interoperables e internacionales facilitando la reutilización. Así mismo, ASEDIE destaca que representa un impulso a la apertura de datos, sirviendo de ejemplo para otras administraciones y ampliando expectativas en el acceso a la información. También señalan que el proyecto aragonés, en la actualidad en versión beta,



#### **JoinUpEurope**

# About Aragon Open Data Pool: Transform Open Data to Linked Open Data and browse it!

Aragon Open Data is the **opendata** portal of the Aragón Region Government (Spain). The portal is managed by the Electronic Administration and information Society, Government of Aragon and its mission is to be the catalogue where citizens and enterprises can find Aragon's data in reusable and open formats.

Aragon Open Data has among its resources a API REST (GA OD Core) where there are more than 260 database views. All database views are included in Aragon Open Data Catalogue.

The database views have different size, schema, and a great heterogeneous data. This data diversity reflects the different administrative competencies for Government of Aragon, but this diversity hinders its opening and reuse. For this reason Aragon Open Data Pool has been developed (december 2018) to connect and integrate various and disparate data sources from database views together to the same schema ando vocabulary. E12A.

EI2A emerges as the framework in which the open data and in general the information of the Government of Aragon can begin to be automated in a much more profound way. The EI2A has to have a number of technical, organizational and legal elements that need to be developed. Ei2A describes basic data from the Government domain, intended to support data interoperability with the aim of standardizing information and exploiting it in the future.



#### AragonHoy:

#### Los nuevos servicios de Aragón Open Data premiados por AUTELSI

El proyecto que nació en 2012 potencia la transparencia y la participación ciudadana

El proyecto Aragón Open Data premiado ayer en la gala de entrega de los Premios AUTELSI, de la Asociación Española de Usuarios de Telecomunicaciones y de la Sociedad de la Información 2018, que tuvo lugar en Madrid. Aragón Open Data comparte premio ex-aequo con Abanca por su proyecto "Identidad y Confianza Digital".

Aragón Open Data está trabajando en la actualidad en nuevos servicios, como son la escucha de redes sociales y la explotación de contenido web institucional. El número de cuentas del Gobierno de Aragón en las redes sociales, hace complejo el análisis conjunto de la



información para mejorar la relación entre el ejecutivo y el ciudadano. El servicio de Aragón Open Data está ahora trabajando en este campo para obtener conclusiones y mejorar la interacción, luchando incluso contra noticias falsas y bulos publicados en estas redes. Otro de los proyectos es la captura del contenido web institucional de los diferentes portales para someterlo a un proceso de análisis y tratamiento bajo el Esquema de Información Interoperable de Aragón (EI2A) que permita detectar entidades (cargos, localidades...) y explotar la información capturada con todas las posibilidades de la web semántica.

Estos nuevos servicios suman más posibilidades a Aragón Open Data que cuenta, actualmente, con 32 publicadores, gestiona 9399 recursos, 2794 Dataset, y más de 125 millones de registros en el GA\_OD\_Core. Y todo ello tiene siempre presente que lo más importante es la reutilización de los datos, junto con el trabajo y publicación del código de desarrollo para favorecer la reutilización, facilitando así el desarrollo de la sociedad de la información. El conjunto del proyecto de Aragón Open Data es financiado por la Unión Europea, Fondo Europeo de Desarrollo Regional (FEDER) "Construyendo Europa desde Aragón".

#### El Periódico de Aragón

## Los nuevos servicios de Aragón Open Data, premiados por Autelsi

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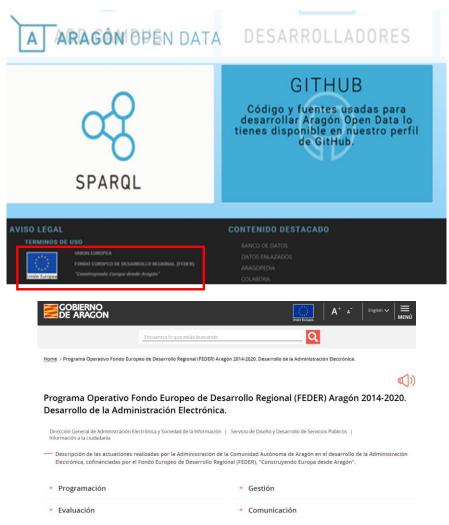


El proyecto Aragón Open Data puesto en marcha en 2012 para potenciar la transparencia y la participación ciudadana ha recibido uno de los Premios de la Asociación Española de Usuarios de Telecomunicaciones y de la Sociedad de la Información 2018.

En la gala, que tuvo lugar ayer en Madrid, Aragón Open Data compartió este reconocimiento ex-aequo con Abanca por su proyecto "Identidad y Confianza Digital", según ha informado el Gobierno de Aragón.

El conjunto del proyecto de Aragón Open Data es financiado por la Unión Europea, Fondo Europeo de Desarrollo Regional (FEDER) "Construyendo Europa desde Aragón". The operation has been disseminated through the <u>website</u> as well as through the different initiatives carried out to promote this activity among possible beneficiaries, seeking to reach the maximum number possible.

As can be seen, the website complies with the requirements of Community regulations, stating that the operation is co-financed by the ERDF Aragon 2014-2020 Operational Program, with the logo of the European Union and the motto "Building Europe from Aragon".



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

The <u>interoperable information structure</u> is an innovative initiative that seeks to establish a framework in which open data and in general information from the Government of Aragon can begin to automate in a much more profound way.

According to international recommendations, this structure, being interoperable, reuses various schemes and terms to describe entities that are appropriate to the web domain of the Government of Aragon. Reusing good practices facilitates the exchange of knowledge and communication between people, intelligent agents and systems. Likewise, in this first phase of the new Web Portal of the Government of Aragon, its design has been based on the application of innovative technologies..





#### Estructura de Información Interoperable de Aragón EI2A

As for the application of techniques for a better reading of the contents of the Portal of the Government of Aragon, the implementation of an interoperable structure to explore the possibilities of auxiliary tools for the Portal in offering information from other portals, which has meant the application of innovative technologies to obtain information and to promote artificial intelligence for the interpretation of said information.

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

The projects of this operation will have an effect on the services and information offered by the Aragonese Administration to citizens, so one way of evaluating the users covered by the services provided by this operation is to follow the indicators set by the National Institute of Statistics on citizens' access to electronic administration.

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

Using the Structure of Interoperable Information of Aragon applied to the information of the Administration, allows to relate and unite data from different sources and characteristics in a single point of access and consultation, facilitating its interpretation. It also facilitates the interoperability and reuse of information.

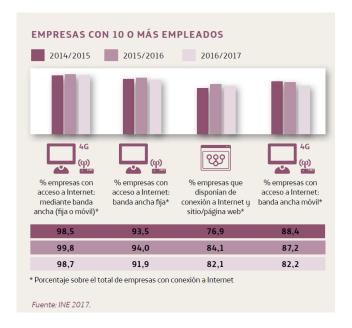
Applied to the Open Data initiative, it contributes to creating economic value in the ICT sector through the reuse of public information, increasing transparency in the Administration, promoting innovation, improving the Administration's information systems and generating data interoperability, between public sector websites.

On the other hand, the design of the new website of the Government of Aragon has not only been proposed in accordance with its interoperability, but it has also been oriented towards the use of mobile devices, which will contribute to a wider coverage of the population. to whom the operation is directed.

#### 5. High degree of coverage over the population to which it is addressed.

The good development of the operation has allowed 54.6% of the Aragonese citizens to have obtained information from the web pages of the public administrations and that a total of 42.6% have declared having sent completed forms.

On the other hand, up to a total of 74% of microenterprises have interacted with the public administrations concerned in the different electronic procedures carried out by the referred companies.



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

By the very nature of the operation, it complies with the requirements that the information and that the Administration offers can reach all citizens regardless of their characteristics and capabilities, thereby contributing to equal opportunities and non-discrimination and, in addition, The initiatives to promote the expansion of this operation among potential users are directed in this direction.

All the information is open, free and reusable, complying with the regulations on the reuse of public sector information).



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

This project presents synergies with other projects aimed at connecting the population to the internet and equal opportunities for access to the network and data for citizens and professionals in the Public Sector such as access to administrative files, medical files, etc. As ConectAragón represents, with which up to now more than 300 Aragonese towns and 315 educational centers already have broadband service.

Aragón Open Data allows to create services such as Aragopedia, information on the number of companies and their legal status, and in the field of tourism, you can access the trails, hotels, restaurants, cafes, routes in the region and information on the Grouped Rural Schools.







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