

The Spanish cadastre,
one of the country's great transverse public services.
The example of use for the detection of tax fraud

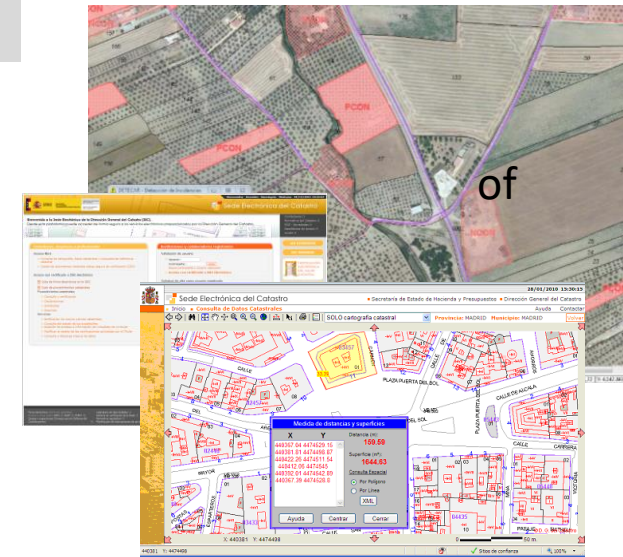


Amalia Velasco Martín-Varés
International Affairs Coordinator.
Spanish Directorate General for Cadastre



Main characteristics of the Spanish cadastre

- It is DG in the Ministry of Finances:
 - An administrative **official register** from the Ministry Finances with **authoritative data**
- Contains all the real estate (**complete**):
 - Urban, rural, special characteristics.
 - Public and Private land and buildings
- It is not only cartography (500-5000) but a Geographical information System with many useful attributes.
- Continuously updated:
 - **Obligatory** inscription of all property: by **citizens** and **public administrations**
 - creation, maintenance and diffusion of cadastral data is done in collaboration with local authorities, notaries, land registrars and other public entities that work in the territory.



Fiscal Cadastre that has become multipurpose organization,

Financing: basis of the property tax and reference for other taxes and subsidies.

Protection of rights

Ensure the legal and operational real estate market

Planning and Management of public policies:



- Urban planning, land use and land consolidation
- Networks of services and supplies of electricity, telecommunications, gas, water, etc.
- Agrarian
- Environmental,
- Energy performance
- Risk maps, civil protection, emergencies
- others

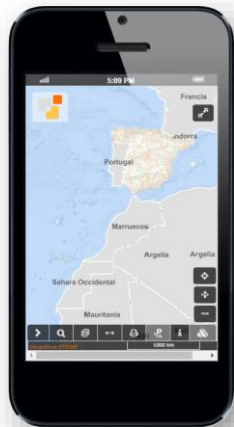
Census (population and houses and agrarian) and social aids

Linking or support of statistical data

Promoting general economic activity

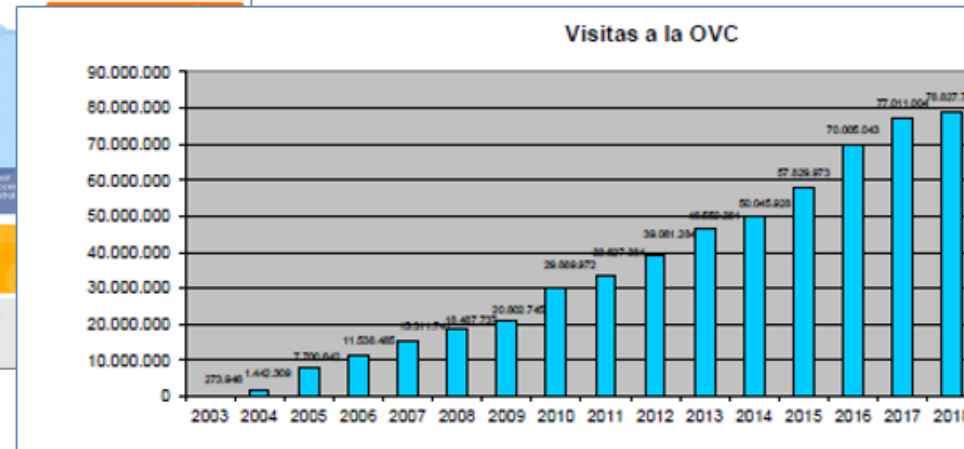
Public and private users continuously are finding new purposes and developing existing purposes.

available to everybody through multiple channels,
Free of charge



electronic office

<https://www.sedecatastro.gob.es/>



Serving **daily 1.1 million consultations** and almost **21.000 certificates**

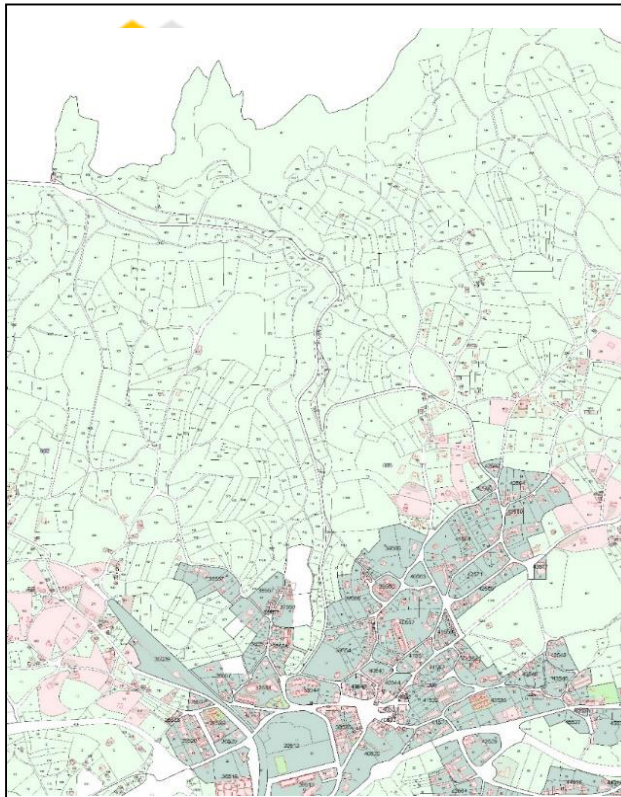
Enabling **maps downloads** at a rate of over **180 Millions** per year

Standard model
Complete and homogeneous
territorial continuum,
that permits to access a huge amount of official GEOREFERENCED data

Main task of the Spanish Cadastre is

to **describe** each real estate object
and to assign a **value** to it.

Manages information of 78 millions properties



– Real Estate Identification data:

» cadastral reference, province, municipality, addresses or location.

– Juridical data of real estate:

» Titleholders' name and national identity number, addresses of titleholders and the notification address, date of acquisition and rights data....

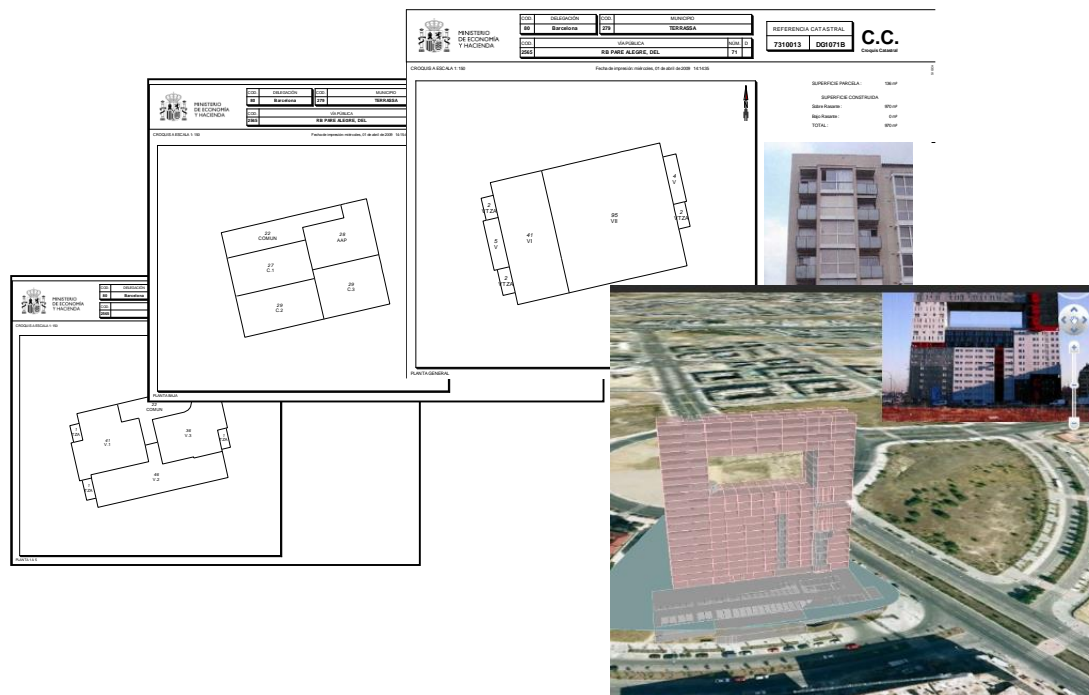
– Physical data of real estate:

» land area, representation of the Buildings (even with the description of every floor) buildings area, class of crops, conservation status of the constructions, use (legal and actual one), construction typology, year of construction.....

Economic data of the real estates:

value of land, value of construction and cadastral value, criteria and valuating module, real estate taxable value, exemptions and benefits.

The **cadastral value** of each property is determined objectively from the data in the Real Estate Cadastre. (Quality, completeness and good updating are of importance)



land surface,
buildings surface,
conservation status of the constructions,
use (legal and actual one),
typology,
year of construct
Urbanism classification
Other characteristics.

All these information
available by free to
everybody

Our Viewer allows users to navigate from an overview of the complete territory to approach each one of the parcels, buildings and units and also through the map access to the alphanumeric characteristics of them.
And **download** cartographic files and certificates of each element, a zone or a complete data set

https://www1.sedecatastro.gob.es/Cartografia/mapa.aspx?pest=rc&from=OVCBusqueda&final=&ZV=NO

Buscar...

https://www1.sedecatastro.gob.es/Cartografia/mapa.aspx?buscar=S

Buscar...

Archivos en blanco Sede Electrónica del Catastro

Archivo Edición Ver Favoritos Herramientas Ayuda

Convertir

www.sedecatastro.gob.es/

Sede Electrónica del Catastro

SEC valuation survey Registered user

HIGHLIGHTS

Cadastral parcel editor. How does it work?
Report Graphic Validation through the viewer
Assistant for cadastral declarations

MY CADASTRE

Real estates Administrative files Notifications

PROCEDURES AT THE CADASTRE

Declarations, appeals, requests... Collating and downloading documents

AGREEMENTS, ANNOUNCEMENTS AND EDICTS IN THE SEC

Concerning cadastral procedures for collective appraisals

Real estate searcher and cartographic browser. They allow to access to all cadastral information and to map edition

DISSEMINATION OF CADASTRAL DATA

Download of cartographic and alphanumeric information, web services, INSPIRE formats, statistical data

GRAPHIC VALIDATIONS

Cadastral map graphic validation report and constructions location report

Regulatory norms
Electronic signature (firmas admitidas)
Verification system of the site
Privacy policy
Accessibility

Registration in the SEC
Accesses to real estate information of a titleholder
Scheduling service interrupts
Calendar, date and official time
Web map

Service Guide of the Cadastral Electronic site
Statistics of accesses
Links of interest

CONTACT US

ENSEÑANZA	0	1.046	R Rehabilitación integral	2.017
ENSEÑANZA	0	1.616	R Rehabilitación integral	2.017

From all the characteristics that we include in the cadastral data-set, the values are the most valuable; economically and socially

Cadastral Values: Reference for Spanish Public Administration.

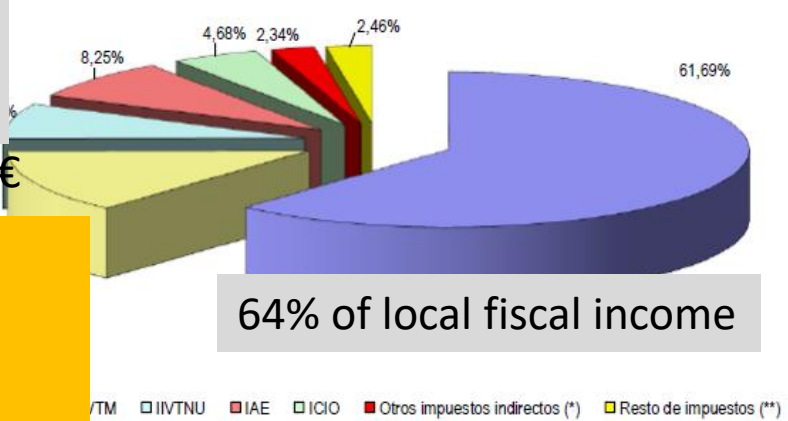
- From a tax view:
 - Recurrent Property Tax,
 - Income Tax,
 - Wealth Tax
 - Tax on the Increase in Value of Urban Land,
 - others.
- From a non-tax view:
 - expropriation,
 - urban assessments,
 - certain types of aids,
 - scholarships and grants, etc.



RECURRENT real estate tax is the main income of the Spanish municipalities,

14.750.899.759 €

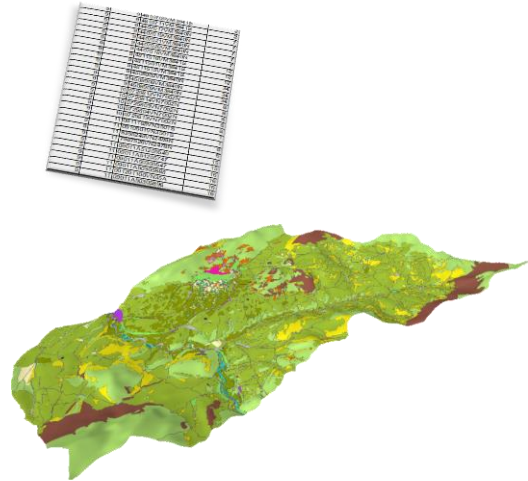
1 euro that the government invests in Cadastre
Generates
7 euros of income for the municipalities



Cadastral data offers many possibilities in the digital society:

For example:

The General Directorate for Cadastre publishes official statistics on cadastral data and the recurrent property tax



Official value

- N ° urban real estate (disaggregated by uses),
- cadastral value of urban real estate (also by uses),
- soil and construction value,
- n ° urban parcels (built and unbuilt),
- urban parcels according to area,
- number of rural parcels, sub-parcels etc...,
- cadastral value of rural areas (disaggregate by crop type etc..).
- Units by buildings
- Category, antiquity and other characteristics of these units
- cadastral value by units, by titleholder etc...
- Vacant land ,...

by municipality, province, regional and nation.

- Average market value of real estate

All cadastral data are **georeferenced** and susceptible of mapping at different levels for their better understanding for the users.

Cadastral data offers many possibilities in the digital society:

The Spanish Tax Agency uses 'big data' tools to cross cadastral data with data from various sources to **prosecute tax fraud**.



News in newspaper:

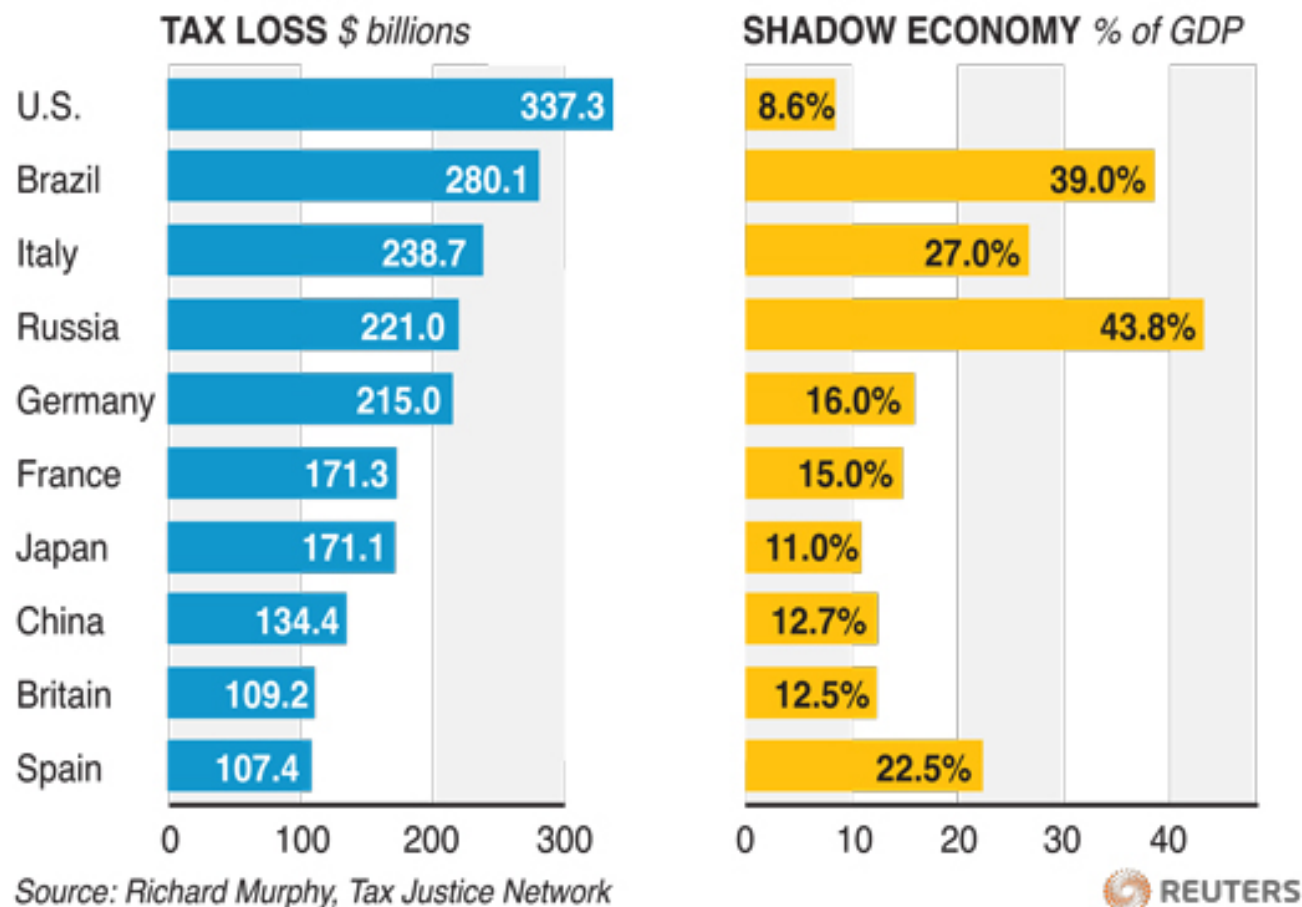
Combining cadastral data with other data using big data and artificial intelligence techniques facilitates

- the determination of patrimonial changes and taxable events to be regularized,
- permanently updated situation of assets and rights, for the purposes of declaratory control



TOP TEN TAX EVADERS

Comparing a World Bank report to a Heritage Foundation report, British accountant Richard Murphy estimates global tax evasion at five percent of the global economy and found these ten countries had the largest absolute levels of evasion



Tax Agency has improved its methodology



The ' Big Data ' analysis that tax agency does is the process of examining **large amounts of data** from a **variety of types** to discover fraud

Big Data can deal with huge amount data, but also can **combine data of different types: structured and unstructured**

For this new methodology, **georeferenced** cadastral data is very important

These new techniques allow the tax agency to combine many data available for them with **cadastral data (georeferenced cadastral data)** to identify

Screen companies ,
hidden assets,
true ownership,
related operations,
professional activities,
unexplained wealth increases,
wealth or property alterations
and transfer of rents.



Combining:

cadastral ref. + geographical location + real estate value + characteristics of real estate + owner (National identity number)

+ other data of tax agency (income declarations, financial assets, time evolution, family aggregation , etc...)



Using cadastral data combined with other data with advanced data analysis systems permits

- the selection of taxpayers and activities for sampling,
- the creation of tax risk profiles,
- and the establishment of checks with greater speed and accuracy.

It will lead to **predictive analytics** to take **automatic decisions** in tax procedures

Also the preparation of PREDECLARATIONS:

To present to the taxpayer the assets that the administration knows: **real estate**, financial and corporate to help him declare

Through the use of cadastral data with data analytics in the core of its business the Spanish Tax Agency is improving its results year by year, and accomplishing its mission in a more effective and efficient way.

Conclusions

Spanish Cadastre:

- Provides information to the totality of the Public Administrations
- Is fundamental for local funding and protection of rights
- Big interoperable platform for geographic information services for public and private users
- It has strong presence and great potential in the Digital society

It is much more than a real estate geographical information system

It is fundamental for
Social Cohesion,
Territorial structuring,
Socio-economic development



One of the great transversal public services of the country