The role of Spanish Cadastre in the real estate conveyancing





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



Obligatory inscription of all property: by citizens and public administrations



Main task of the Spanish Cadastre is

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



- 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:

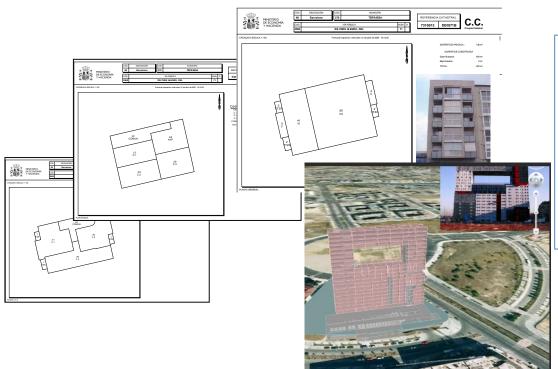
value of land, value of construction and cadastral value, criteria and valuating module, real estate taxable value, exemptions and benefits.

The cadastral value is the basis for real estate taxation.

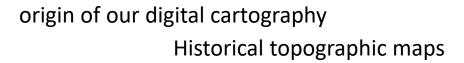
The cadastral value of each property is determined objectively from the data in the Real Estate Cadastre.

Quality, completeness and good updating are of importance to have **fair taxation**.

we need not only the boundaries but also inside the building (structure of the property, common areas) and all the characteristics



land surface,
buildings surface
conservation status of the constructions,
use (legal and actual one),
typology,
year of construction
Urbanism classification
Other characteristics. All these information
available by free to



1986-2006 Creation of a GIS for a fiscal cadastre





Renovation and digitalitation process 1986-2006. Creation of a GIS

Not feasible to land mark all the territory -





This methodology allowed us to cover the entire territory and create a homogeneous and continuous digital cadastre.



The creation of this GIS allowed to offer

- Transparency, because we offer it open, free of charge since 2003-
- Authoritative data for private and public users

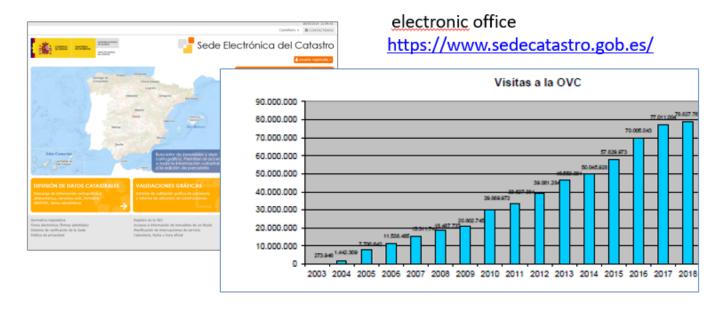
and also develop the digital tools to improve the data

with the help of collaborators (municipalities, Notaries, land registrars.... and the legal obligation of owners and public administration to declare)

available to everybody through multiple channels,

Free of charge



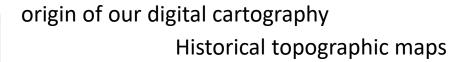


Serving daily 1.1 million consultations and almost 21.000 certificates

Enabling maps downloads at a rate of over 180 Milions per year

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

Public and private users continuously are finding new purposes





Improving very much quality of cadastre: colaboration, technology, transparence and usability



Some particularities of the Spanish Civil Code

- In Spain there are not licensed surveyors and it is not obligatory to mark the division in the land. The agreement to divide and the boundaries are decided by seller and buyer.
- It is also **not** mandatory to register in the land registry
- Land registry is separate organization than cadastre
- Private contracts are objectionable to third parties

How it can work??????

Because Cadastre It is a continuous cartography open to all that is taken as base in all transactions

An owner can increase the quality in any moment ALWAYS WITH THE AGREEMENT OF THE COLINDANTS



origin of our digital cartography Historical topographic maps



1986-2006 Creation of a GIS for a fiscal cadastre

Improving very much quality of cadastre:

colaboration,

technology,

transparence and usability

from 1996 The cadastral reference must be contained in all documents subject to registration in the Property Rights Registry affecting acts or businesses related to ownership and other rights to real estate.

 Notaries and Land Registrars are obliged to submit to the Cadastre all the information concerning the documents they have authorized or registered.

Cadastral basic data / Daily updating

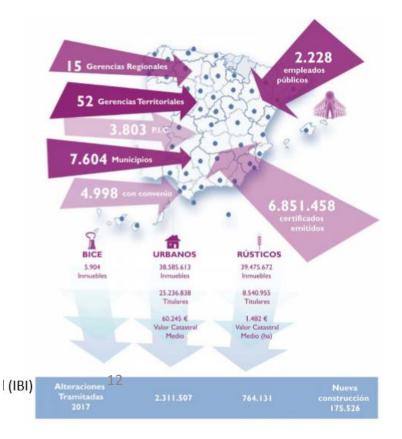
Urban Cadastre

- 1.062.636 ha maps 1/1.000 o 1/500
- 12 M de buildings
- 14 M cadastral parcels,
- 39 M urban units
- 6.500 real estate updated daily, 480 new constructions

Rural Cadastre:

- 47.387.942 ha maps a 1:5.000
- 39,2 M parcels
- 2.500 real estate updated daily







IN THE CREATION OF THE CADASTRE
IN THE PROCESSING OF CADASTRAL UPDATINGS
IN THE NOTIFICATION OF CATASTRAL AGREEMENTS
IN THE DISSEMINATION OF THE DATA

61,030 PERSONS COLLABORATING

Obliged by law
But also win-win situation

Agreements with Municipalities and other Public Entities

- ✓ The strategy consists of gathering other Public Administrations, as well as other organizations, sharing useful information for all of them
- ✓ They are all considered as providers and beneficiaries: they help us to maintain our data base updated, they acquire all necessary data for their goals

✓ Data is electronically provided by collaborators: they can even process the information working directly in our system or sending data through the E-Office



Local Authorities



SECRETARÍA DE ESTADO DE HACIENDA

creation, update and maintenance of the cadaster in collaboration:

- Compulsory Declarations of titleholders
- Institutional collaborators
 - AGRICULTURAL MINISTRY
 - NOTARIES
 - PROPERTY RIGHTS REGISTRARS
 - SPANISH TAX AGENCY
- Collaboration agreements with municipalities and local and regional authorities
- Other public administrations; Public Domain managers, expropiations, land consolidation, highways, railways, etc.









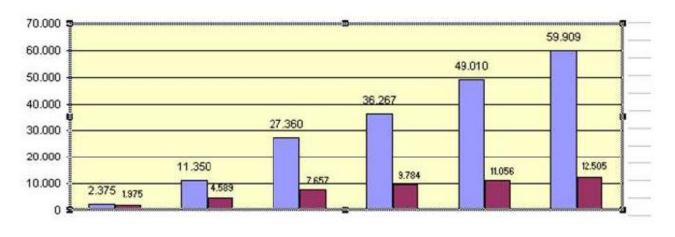




- 2300 employees from cadastre (internal users)
- External users:

GOBIERNO DE ESPAÑA

Organizations with users	13.525
Registered users	68.768
Users with direct access to applications of cadastre	3.069



Evolution

SECRETARIA DE ESTADO

Data are kept continuously updated through field work and other technologies.

All citizens, notaries and registrars and the public administrations which work in the territory are obliged by law to submit information on the changes in the real estate in the Cadastre

with the technical conditions defined by the cadastre

that verifies that the graphical information is correct.



origin of our digital cartography Historical topographic maps



1986-2006 Creation of a GIS for a fiscal cadastre

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from 1996 The cadastral reference must be contained in all documents subject to registration in the Property Rights Registry affecting acts or businesses related to ownership and other rights to real estate.

2015 Legal cadastre (law of coordination beetween cadastre and land registry)

 Reforms introduced legally in 2015 established that the description of properties in the Property Rights Registry is to be done by a georeferenced graphical representation based on cadastre.

Once the cadastral data have been incorporated in the Property Rights Registry, the delimitation, location and area of cadastral data are considered to be true for all legal purposes.

Coordination Cadastre Register

- The Cadastre provides to the Property Rights Registry by internet before the title inscription, all the information about the real estate properties.
- Not only cadastral reference but description and cartography of cadastral parcels must be incorporated into the Property Rights Registry, if there is geographical correspondence between them.
- The cadastral cartography is used as the basis for Property Rights graphical information.
- Notaries and Land Registrars are obliged to submit to the Cadastre all the information concerning the documents they have authorized or registered.

law 13/2015. Coordination cadastre and land registry

It gives real estate traffic greater legal certainty by incorporating not only the cadastral reference but also the georeferenced graphic information of the parcels in the Property Rights Registry

Based in Cadastral cartography





The system has permitted

the coordination of the information of both institutions for a better identification and description of real estates

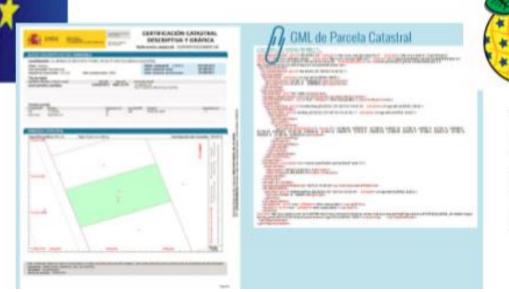
and an adequate provision of services to citizens and administrations that can improve the description of the real estates and inform of any change of the description of real estates

For 99% of the residential properties and 90% of other properties the owners only need the cadastral certificate to do the conveyance, get the mortgage and register in the land register.

The bank, the notary and the registrar get it digitaly from our system

The "Descriptive cadastral and graphic certification" has been the instrument chosen to achieve the correct graphic description of the registered properties,

Since it guarantees the coherence of the graphic information that is registered, the non-invasion of the adjoining properties or the public domain.

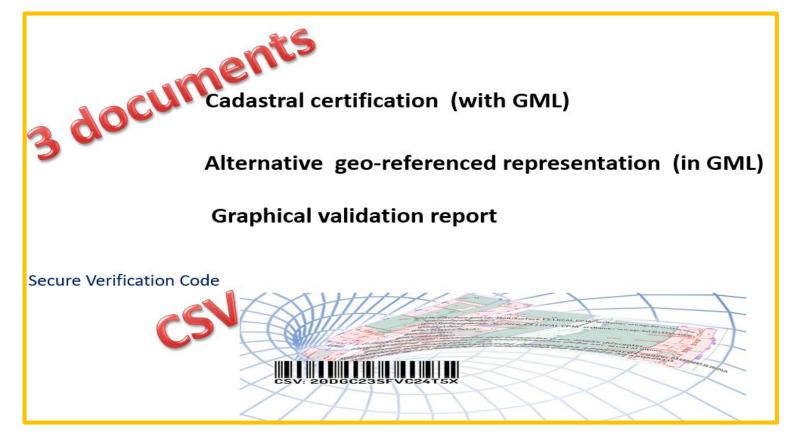


The graphic information of the cadastral parcel presented in a certification is expressed in the INSPIRE GML cadastral parcel format

We have established a fluid and safe exchange of information between all the agents involved in the real estate traffic.

Web Services

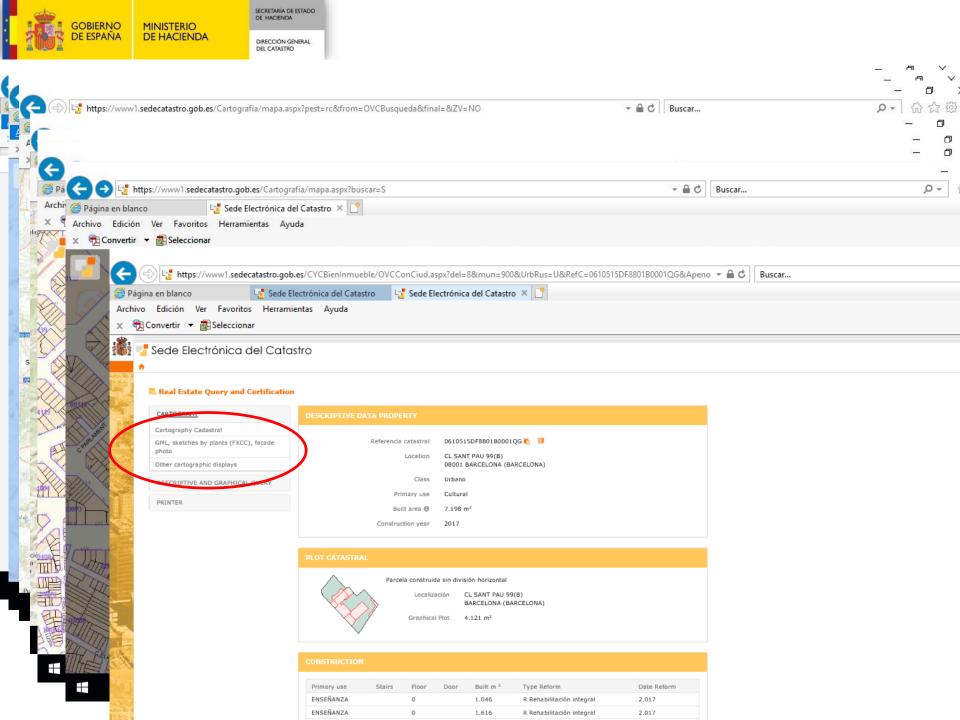
Unattended machine to machine communication



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** cartogrpahic files and certificates of each element, a zone or a complete data set







The cadastral certification, obtained by the title holders and public partners agents is the base for any transaction



The cadastral certification is an electronic document (PDF format).

It includes embedded the GML INSPIRE of cadastral parcel.

The certificate and its attached file are signed electronically using a Secure Verification Code (CSV)

Composed by 16 digits



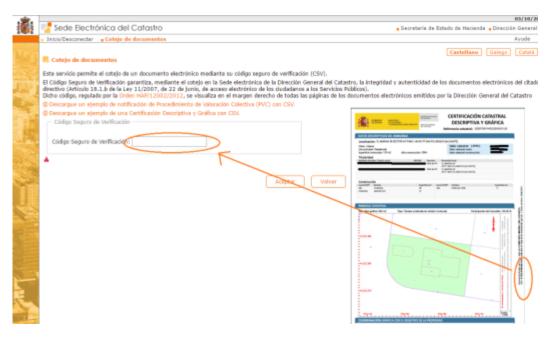
These 16 digits are the only information that is exchanged



With this code CSV on the document it is possible to access in any moment by internet to the digital file in the Electronic Office of

Cadastre.





- Citizens can be sure that the image on the document reflects the true coordinates.
- Applications of notaries and registrars use a web service to access the content of the GML attached file using only the code CSV.





GOBIERNO DE ESPAÑA

What happend when it is necessary to change the representation of the parcel?

- declarations of citizens: segregations, divisions, joints ..
- land consolidations,
- reparcelling,
- administrative demarcation,
- expropriation
- acts of urban planning and urban managing
 - first registration in the PRR
 - Cadastral errors
 - Property Right Register errors

Citizens and administrations can provide an alternative geo-referenced representation



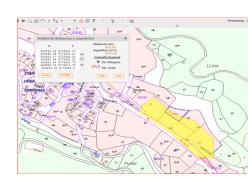


That is used to update the cadastre if it passes the appropriate validations

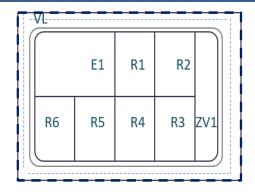


Alternative geo-referenced representation

The technicians are required to represent the reality as an overlay on the cadastral cartography,

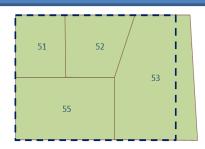


New parcelation

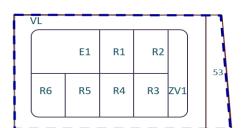


- 1. Download GML or other formats: DXF, etc
- 2. Modify
- 3. Include the alternative geo-referenced representation That must be expreses in GML of CP

Cadastral original data



Alternative georreferen representation







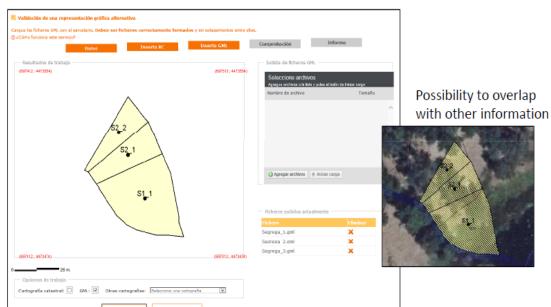
MINISTERIO DE HACIENDA SECRETARÍA DE ESTADO
DE HACIENDA

DIRECCIÓN GENERAL
DEL CATASTRO







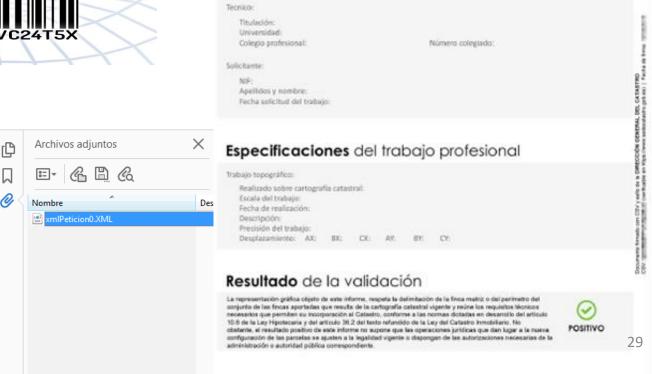




The system validates the new representation

and gives back a validation report that is an electronic document signed with the secure verification code.





Datos del solicitante

Nombre y spellidos: suchesió mella composi-

Domicilio: Its immediates and state the figure of suppliers promotion and

Dates generales: NF: \$1040514 INFORME DE

VALIDACIÓN GRAFICA



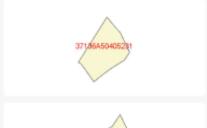






Parcelas catastrales afectadas

La representación prifica alternativa objeto del presente informe efecta a las parcelas calestrales que se relacionen a continuación. La incorporación de esta representación prifica en la cantigarella catastral podrá producir una alternación de la delimitación y superficie de estas parcelas, por lo que se requiere la neofilización previa a las ofilulares catastrales de las preismas en el procedimiento correspondiente.



Referencia Catastral: 37136A50405231

Dirección

FUENTEGUINALDO [SALAMANCA]

AFECTADA TOTALMENTE



Referencia Catastral: 37136A50405230

Dirección

FUENTEGUINALDO [SALAMANCA]

AFECTADA TOTALMENTE







INFORME DE VALIDACIÓN GRAFICA

Parcelas resultantes



PARCELA UOK_30-31 superficie 1370 m2

> LINDEROS EXTERNOS: 37136A50405228 37136A50405232

37136A50409021 37136A50409032

COORDENADA UTM



8.- 697453.99 4473497.78 9.- 697459.70 4473490.06 10.- 697455.36 4473493.61 18.- 697469.16 4473632.08 19.- 697475.37 4473618.82



Comunication with the Notary

The report avoids physical exchange of files, only de 16 digits are exchange between cadastre and notary

- All the exchange of information is made through web services
- Notaries don't need to use GIS. And they can check the content using its CSV code in a service available in the Electronic Office of the Cadastre.
- If the validation report is correct, in between 5 days the cadastre send the new cadastral certificate to the Notary

Articles of the law fallowed by Land Registrars:

In any case, the alternative graphic representation must respect the delimitation of the parent parcel or the perimeter of all the parcels of the cadastral cartography.

If the alternative graphic representation affects part of cadastral parcels, it must specify the delimitation of the affected and unaffected parts, and all of them must respect the delimitation contained in the cadastral mapping.

Such graphic representation must comply with the technical requirements that allow its incorporation into the Cadastre after the registration operation has been carried out.

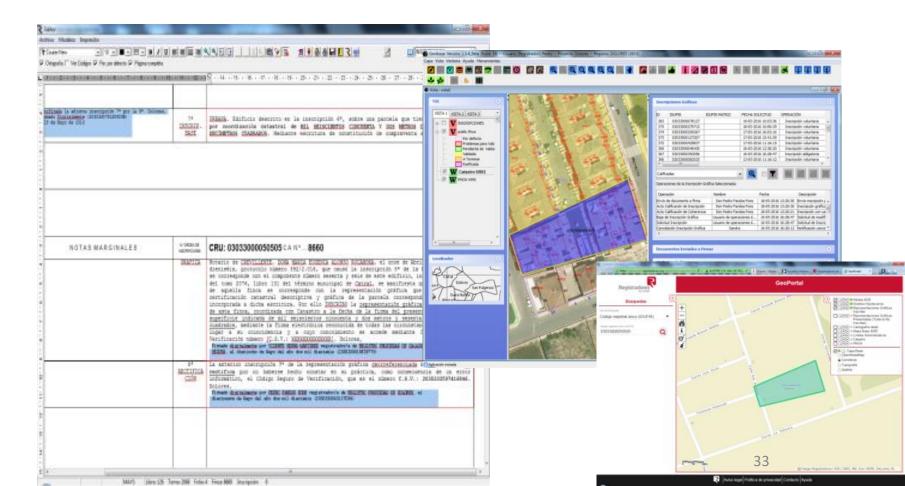
Metric tolerances are important Well defined for different situations

PROPETARIO: RIGHT TO IMPROVE METRIC PRECISION



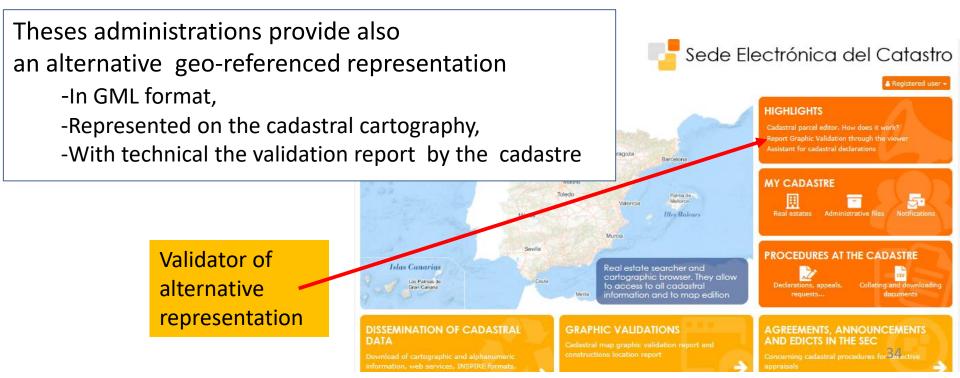


- The technical solution developed by the Directorate General of Cadastre allows registrars to link, without the need for specialized GIS tools, the list of coordinates present in the format and its graphic representation.
- The coordinates are incorporated to the registration in a paper sheet.



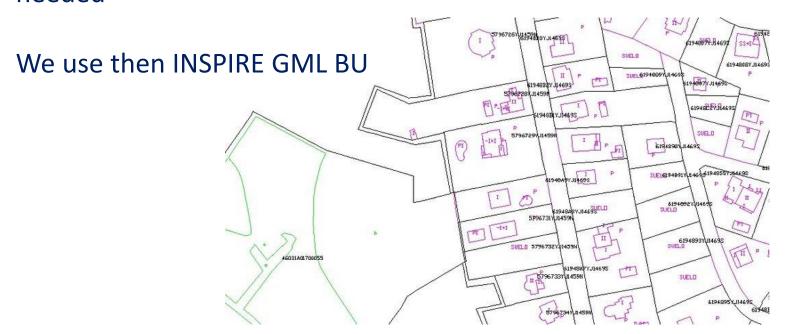


Not only citizens but the public authorities that work in the territory have the duty to communicate to the Cadastre: land consolidations, reparcelling, administrative demarcation, expropriation and acts of urban planning and urban managing





In order to register a building the georreference of its position is also needed



The alternative geo-referenced representation is **voluntary** in several other cases as for example the Georreference of

Crops

Instalations and improvements

Or buildings allready registered



Assistan for cadastral declarations



http://www.catastro.minhap.es/ayuda/asistente
 declaraciones catastrales ciudadanos.pdf

Notaries and registrars of the property

required, in the exercise of that activity.

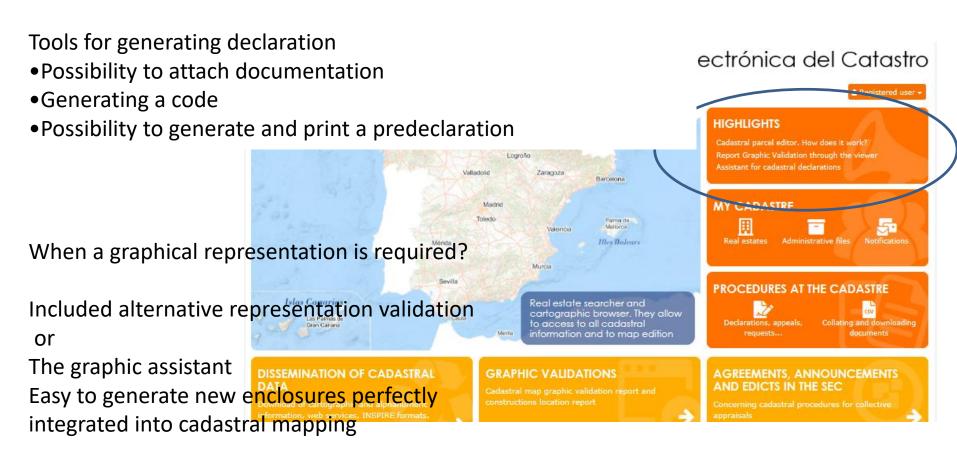
for which compulsory collegiality is



The presentation is divided into two stages

1st Generation of declaration (free)

2a Presentation of the declaration (authentication + legitimation)



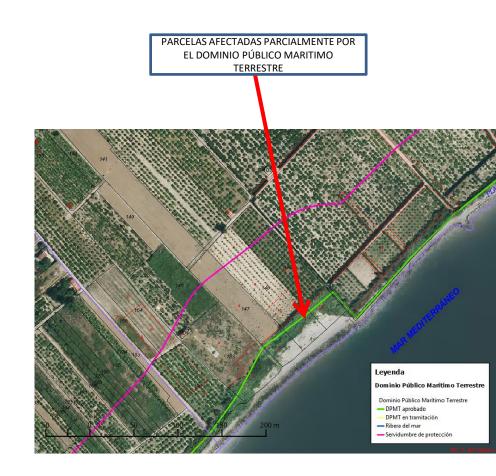
http://www.catastro.minhap.es/ayuda/videodemo/C3/CASO3.htm

When the statements submitted affects the graphic representation of adjoining parcels

Not only the documentation supporting the proposed graphic representation (public deed, administrative document or other equivalent) is needed.

But also written document containing conformity or non-opposition with the graphic representation proposed by cadastral owners of all affected neighbouring parcels.

If this information is not provided, the Directorate-General of the Catastro may obtain it on its own.



Also, after in the Land Registry OWNERS IN LR AND COLINDANTS ARE NOTIFYED THAT MAY ALEGATE IF ANY ARE NOT LOCATED: BOE AND GEOPORTAL



Thanks for your attention



http://www.catastro.minhap.es/ayuda/ videodemo/C3/CASO3.htm