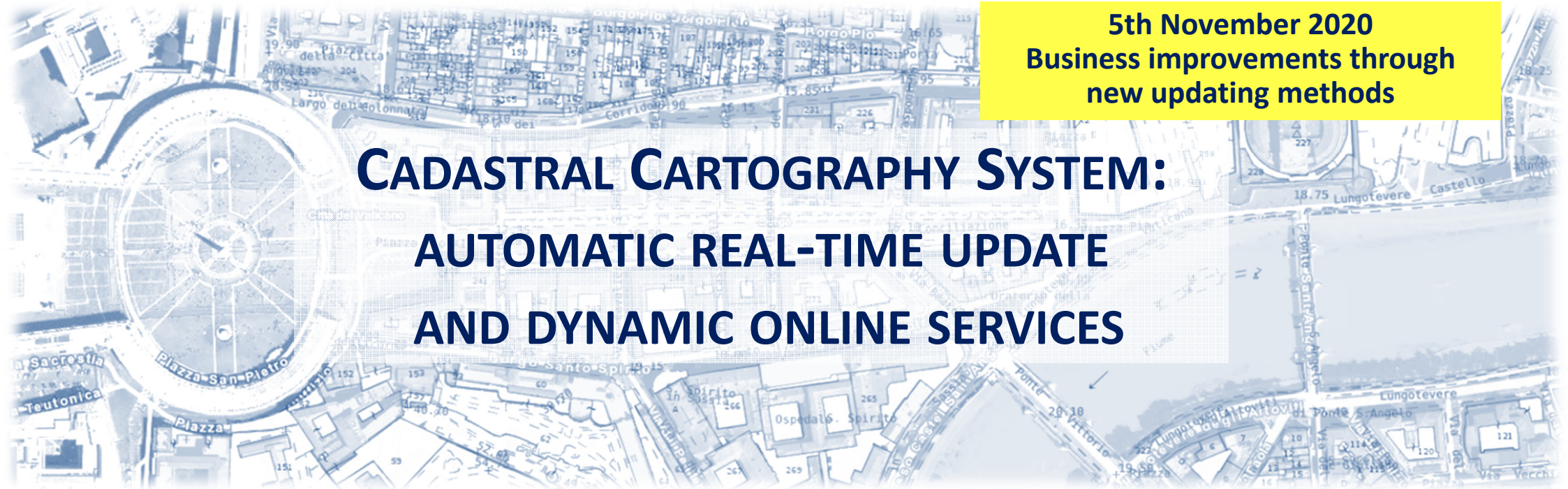


Directorate for Cadastral, Cartographic
and Land Registration Services
Cartographic Services

An aerial photograph showing a winding road through a dense forest with autumn foliage.

EuroGeographics Webinar Series

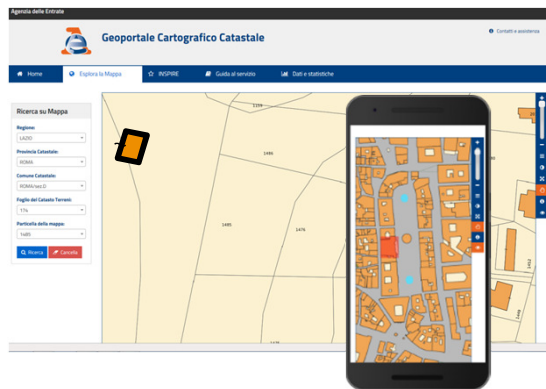
5th November 2020
Business improvements through
new updating methods

A detailed cadastral map of Rome, showing streets, buildings, and landmarks like Piazza San Pietro and Lungotevere.

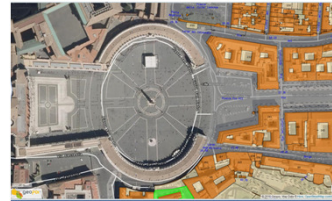
CADASTRAL CARTOGRAPHY SYSTEM: AUTOMATIC REAL-TIME UPDATE AND DYNAMIC ONLINE SERVICES

Flavio FERRANTE - Maurizio AMBROSANIO (Presenter) - Alessandro PEPI - Michele LIZZI

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**AUTOMATIC UPDATING AND
REAL TIME AVAILABILITY
THROUGH ONLINE SERVICES**



The cadastral cartography system



The automatic cartographic updating



The integrated land information
system – SIT



Cadastral cartographic online services

The **Revenue Agency** - *Agenzia delle Entrate* manages the national real estate information system. Its role in land administration is to draw up the complete inventory of real estate assets, describing technical and economic characteristics and registering real rights



The **cadastral cartography system** is designed to archive, manage and analyse geographic information on each:

- piece of land
- building
- street or surface water (rivers, lakes)

located on the national territory

The **Italian cadastre** is one of the five national official cartographic authorities and is **responsible for constant and permanent updating** of the large scale cadastral maps

The Italian cadastral cartography today

It is complete and homogeneous

It is totally available in vector format

It is based on large scale maps

240.000 maps	scale 1:2.000
30.000 maps	scale 1:1.000
30.000 maps	scale 1:4.000

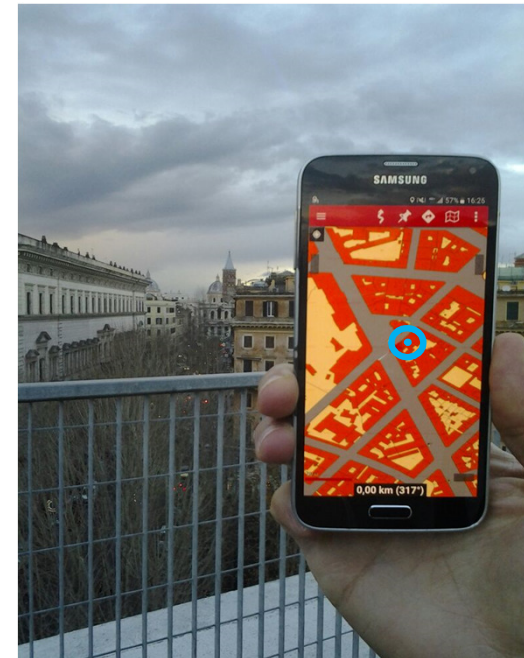
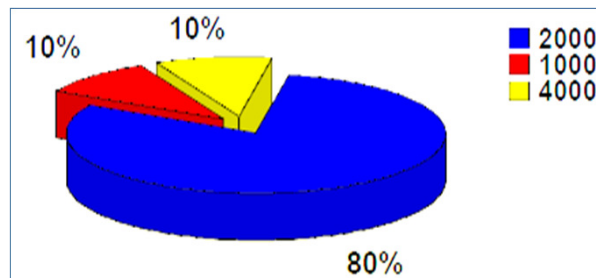
It is available in CRS based on ETRS89/ETRF2000

It is directly related to the Land Cadastre Database through a unique identifier: the parcel number

approx 300.000 km²

85 million parcels

18 million buildings



The Revenue Agency daily provides **online services** based on the cadastral cartography system, to institutions, citizens, professionals, enterprises



1956

1969 - 1972

Today

1886 - 1956

Periodical checks and surveys
carried out by cadastral
surveyors (every 5 years)

Involvement of
professionals in the
updating of cadastre...

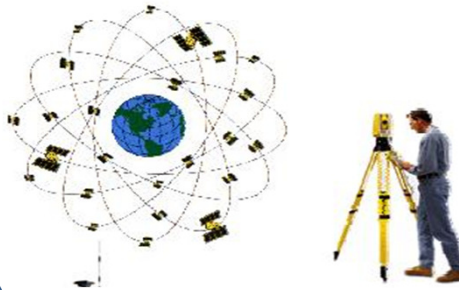
Cadastre
establishment

Owners



- Subdivision of land parcel
- Construction of new building or extension or demolition

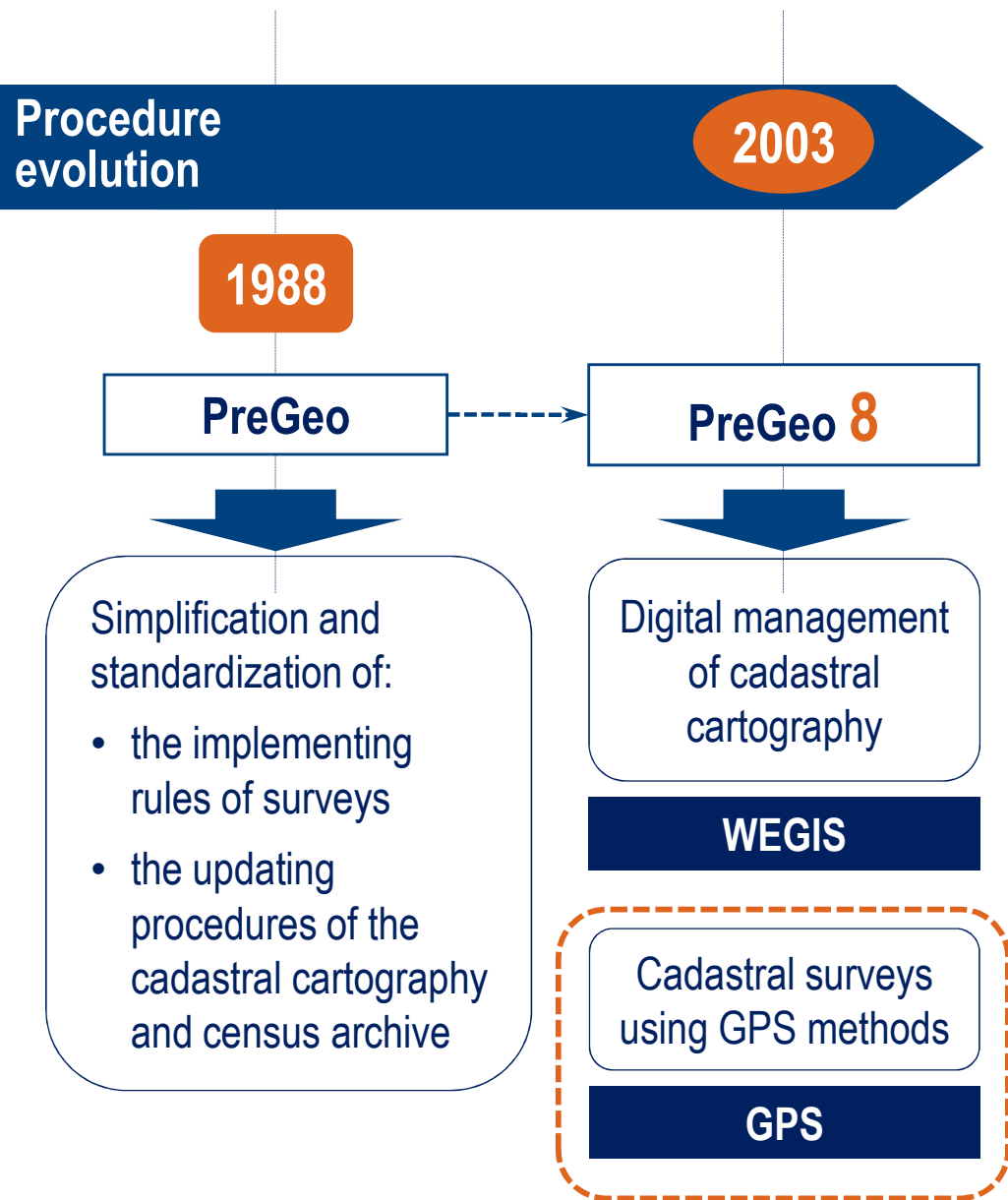
Professionals



- Technical rules
- Software (Pregeo)
- Online data exchange

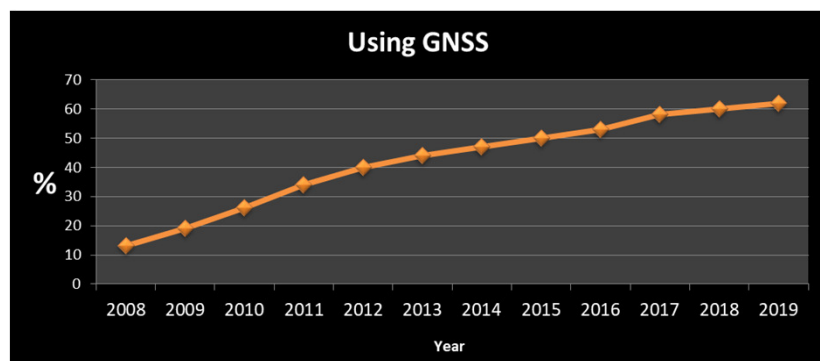
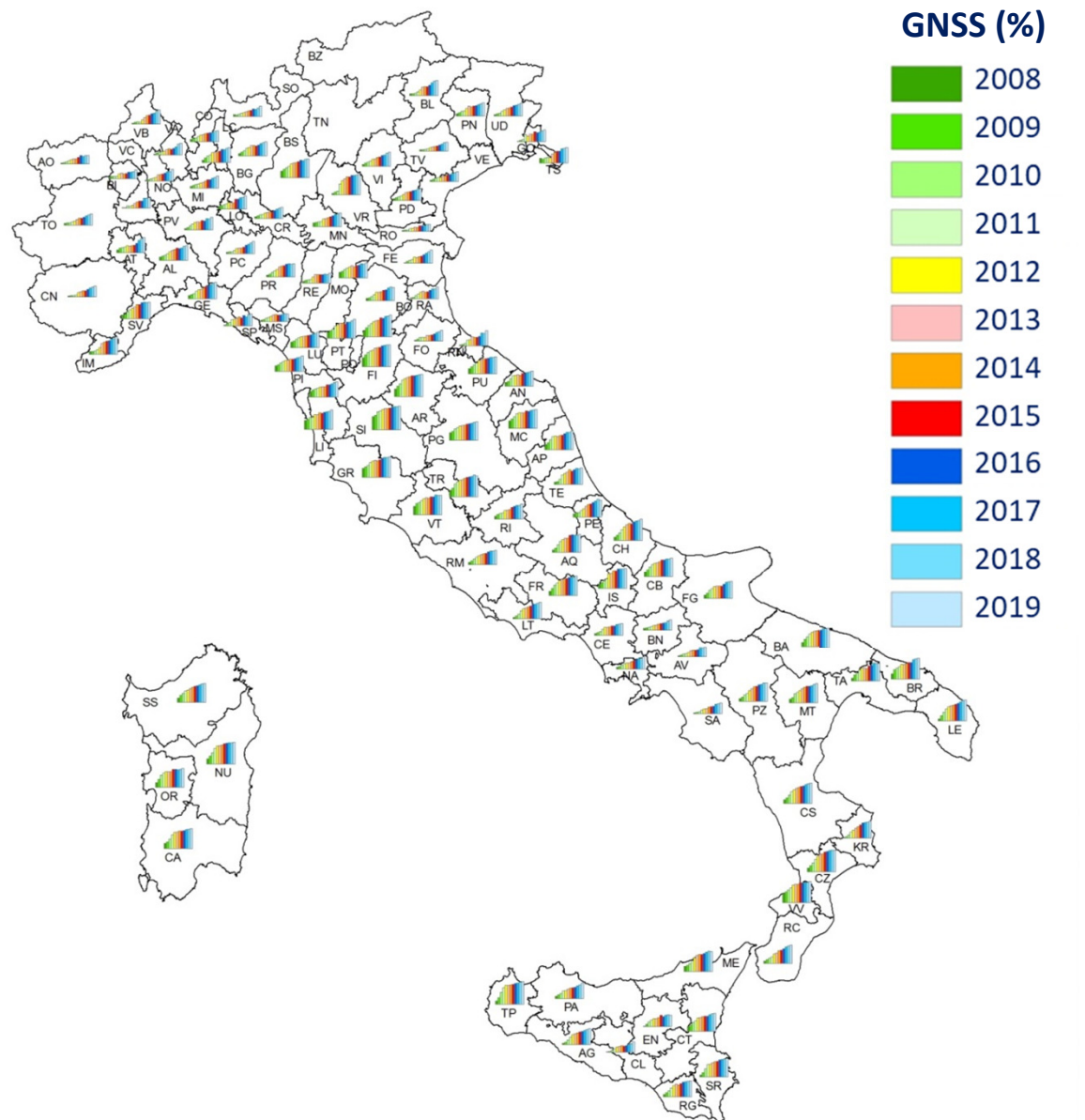


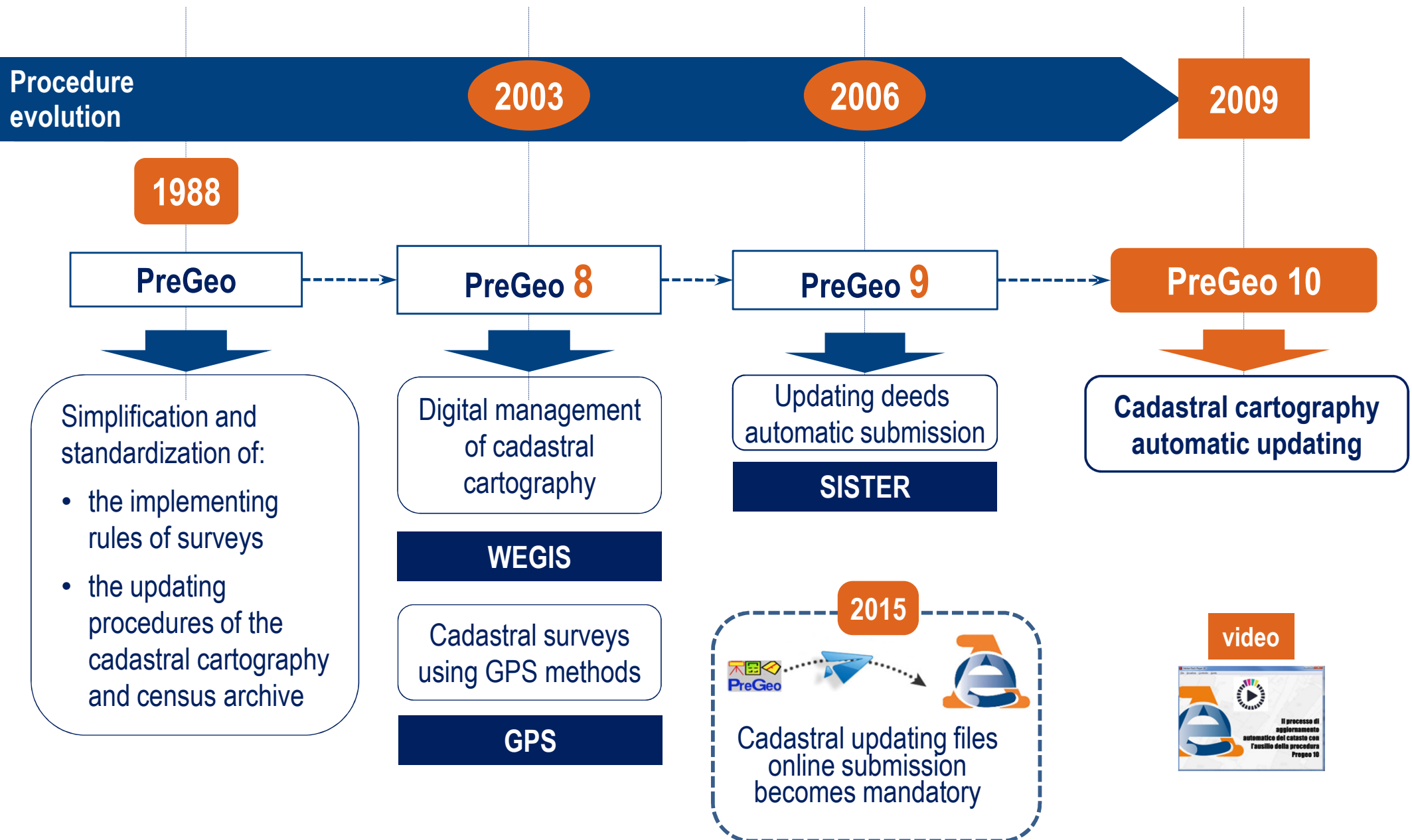
- Automatic checks
- Automatic updating



Surveys using Global Navigation Satellite System

	Total updating deeds	Using GNSS	%
2008	404.672	52.900	13
2009	385.029	72.621	19
2010	413.674	107.067	26
2011	473.572	162.931	34
2012	386.953	156.179	40
2013	259.359	114.446	44
2014	200.617	93.874	47
2015	177.705	88.256	50
2016	180.324	95.542	53
2017	208.694	120.215	58
2018	187.097	112.408	60
2019	168.752	105.236	62





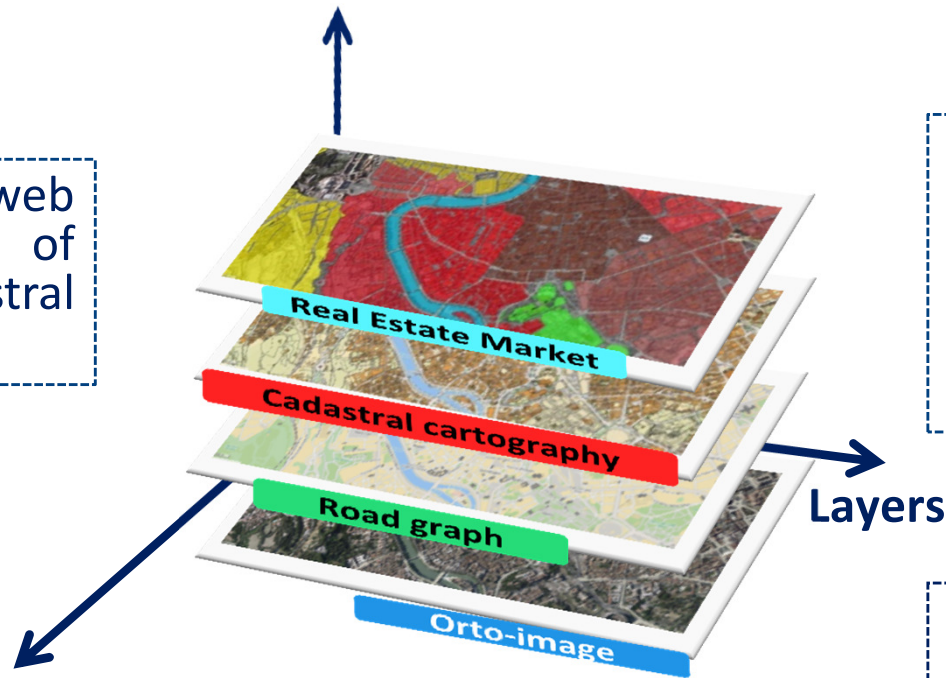


1

SIT is a modern web GIS, an evolution of the current cadastral cartography system

2

SIT is part of a wider project for the implementation of the integrated national real estate information system. The data historically managed in different systems are integrated in it



3

In the integrated national real estate information system the whole information asset is unified into one national system, whose elements are conveniently integrated each other

5

SIT goes beyond the current system based on the separation of all the archives (Cartography, Census DBs, Plans) and a web-architecture spread on 101 Provincial Offices of the Agency

4

SIT allows the geo-based data surfing and searching for all the information managed, the spatial analysis and integration with other data external to the cadastral domain

Risultato

Catasto	Comune	Cod. Com.	Sez.	Sez. Urb.	Foglio	Mappale	Destinazione	Sup. Cart.	Sup. Cens.
T	ROMA (RM)	H501	A		476	243	Urbana	2.432	2.440
F	ROMA (RM)	H501	-	-	476	243	Non residenziale	-	-

Esci

Navigazione SIT

Località Posizione Ricerca Avanzata

Mappa Satellite Etichette

8 Piazza Papa Pio XII
Roma, Lazio
[Visualizza su Google Maps](#)

Data Immagine: 2019-09

Google

2/2

geoPoi®

50 m

Roma (RM) - Lazio

LARGO LEOPARDI

VIA NELLE ANA

TERRAZZO

Alfabetico del edificio

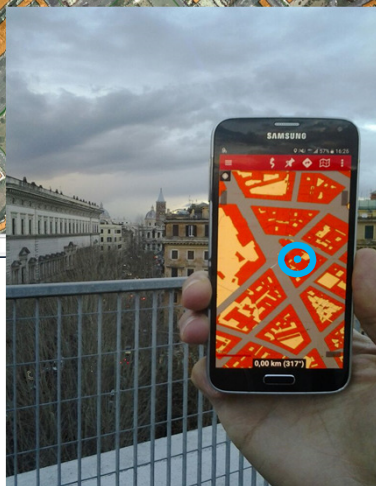
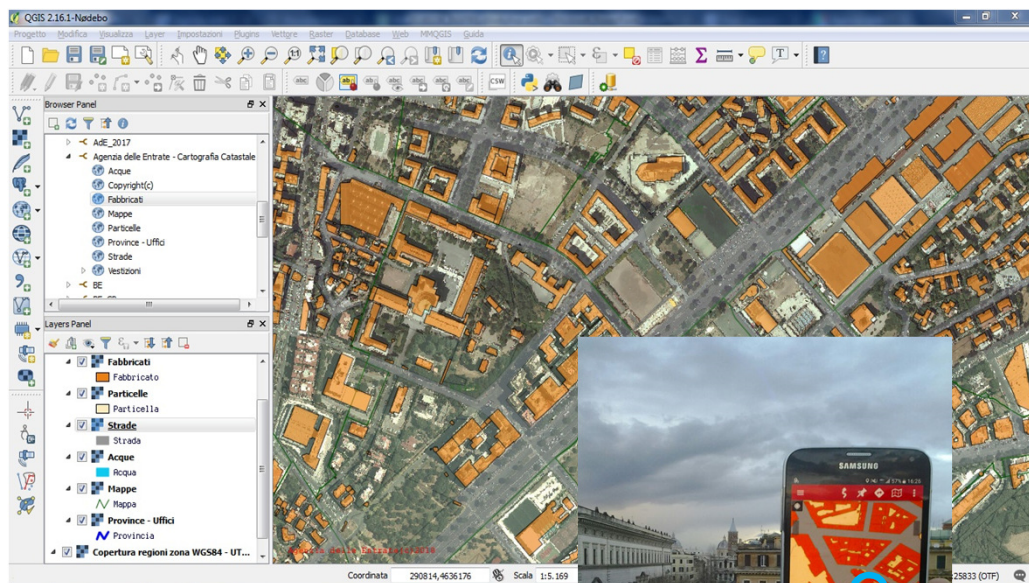
COORDINATE

Decision of the General Director of the Agency 23th November 2017 n. 271542

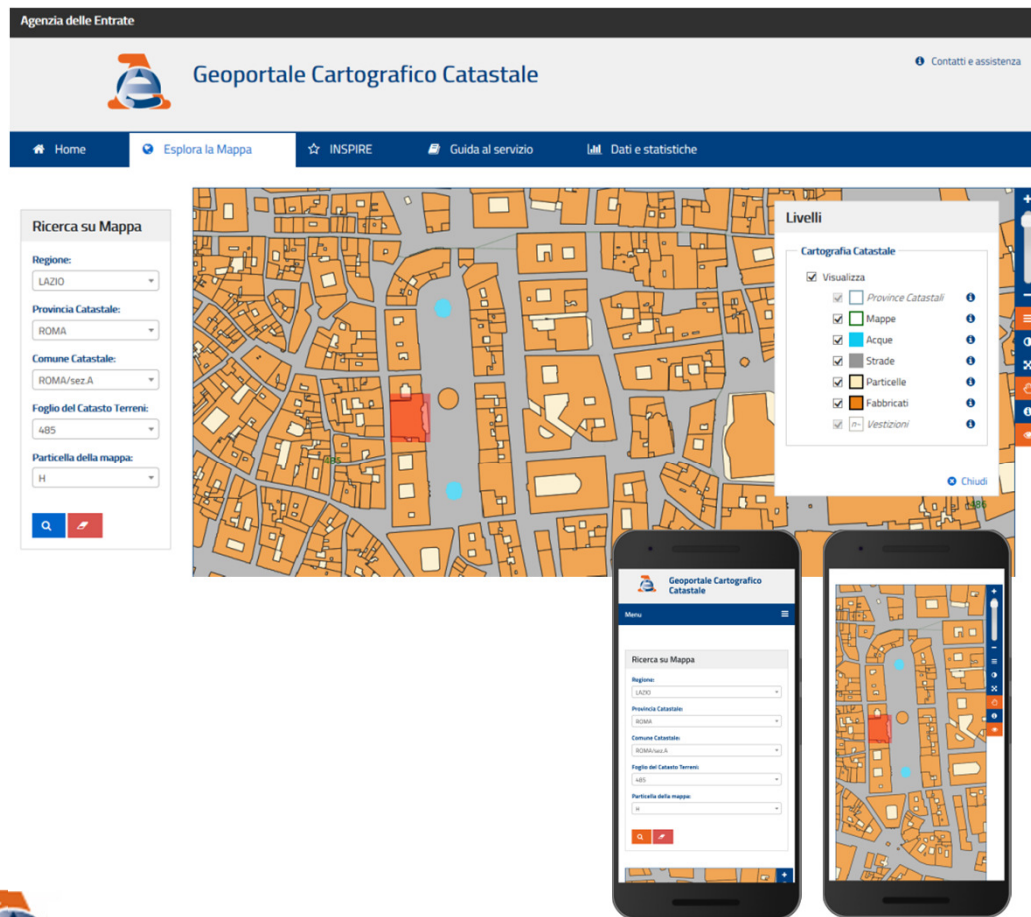
Implementation of the Italian Legislative Decree 27th January 2010 n. 32, concerning the establishment of an Infrastructure for Spatial Information in the European Community (INSPIRE). View services of parcels data sets



WEB MAP SERVICE



CADASTRAL CARTOGRAPHIC GEOPORTAL





Geoportale Cartografico Catastale

CADASTRAL CARTOGRAPHIC GEOPORTAL

<https://geoportale.cartografia.agenziaentrate.gov.it>

Home

Esplora la Mappa

INSPIRE

Guida al servizio

Dati e statistiche

Ricerca su Mappa

Regione:

VENETO

Provincia Catastale:

VENEZIA

Comune Catastale:

VENEZIA/sez.A

Foglio del Catasto Terreni:

15

Particella della mappa:

AD

Ricerca

Cancella

Livelli

Cartografia Catastale

☒ Visualizza

☐ Province Catastali

☒ Mappe

☒ Acque

☒ Strade

☒ Particelle

☒ Fabbricati

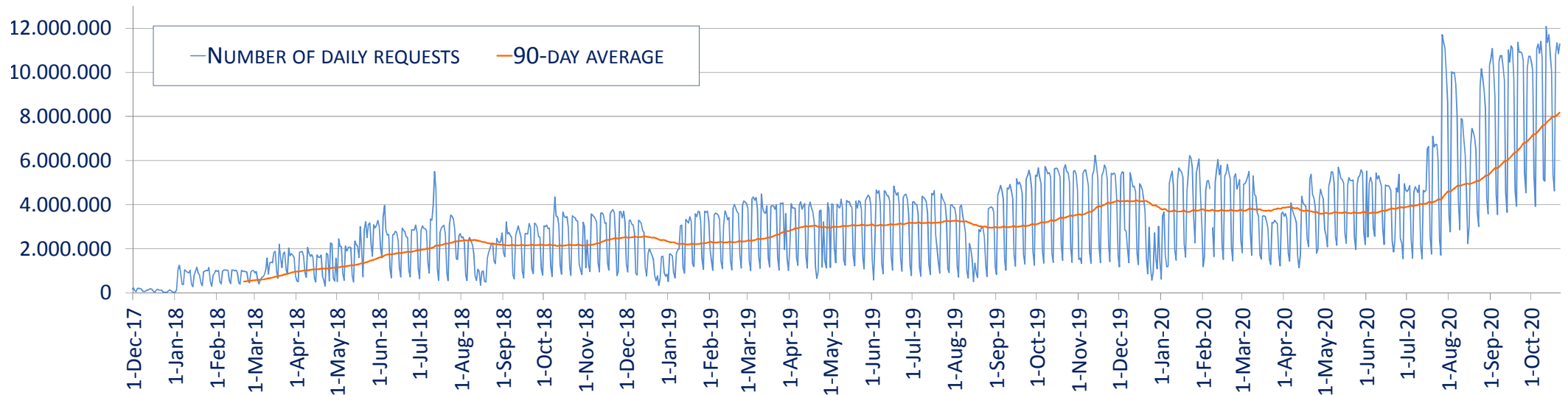
☐ Vestizioni

Chiudi

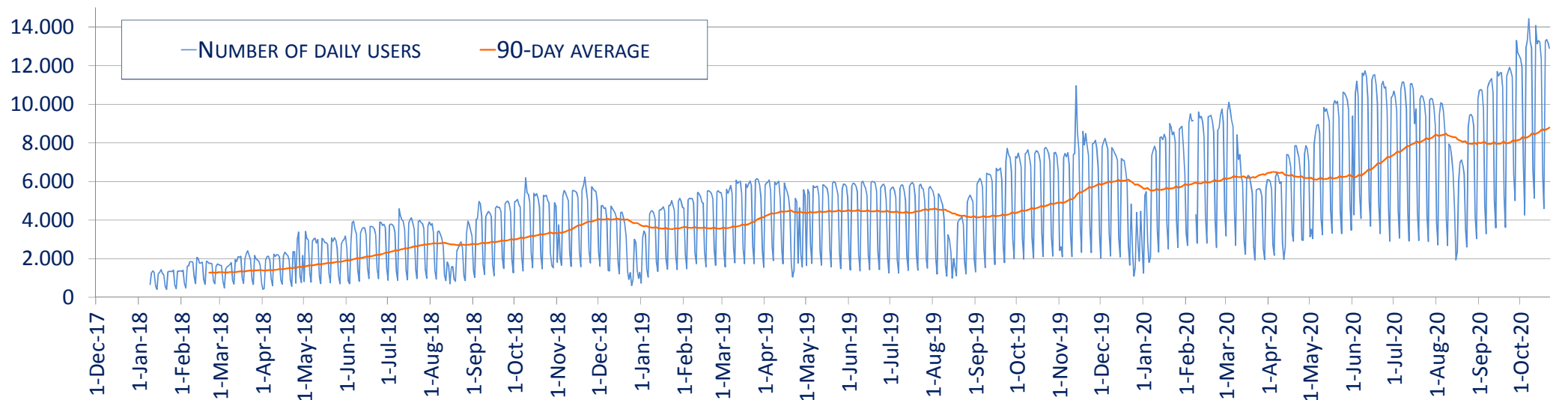
The Geoportal allows, for the whole national territory, the search of a single cadastral parcel and its view on the cadastral map



CADASTRAL CARTOGRAPHY WEB MAP SERVICE (WMS) - DAILY REQUESTS



CADASTRAL CARTOGRAPHY WEB MAP SERVICE (WMS) - DAILY USERS





Geoportale Cartografico Catastale

Home Esplora la Mappa INSPIRE Guida al servizio Dati e statistiche

Dati e statistiche

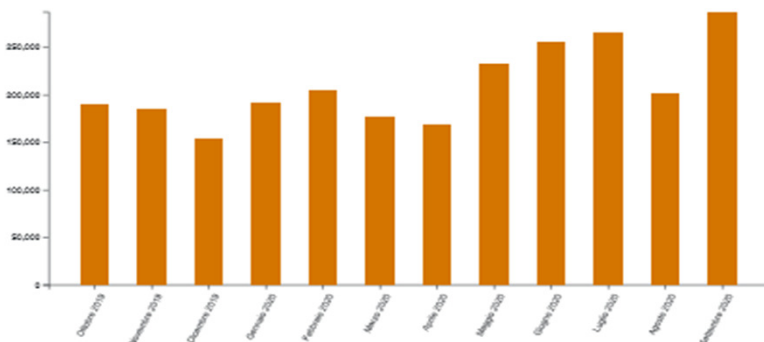
Servizio Web Map Service (WMS)

Utenti giornalieri nell'ultimo mese

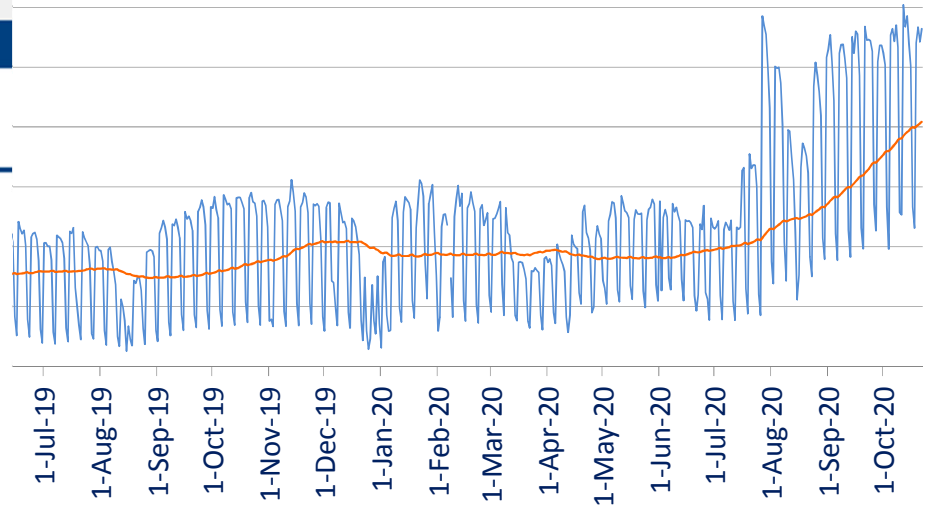
Numero degli utenti che nell'ultimo mese hanno usufruito del servizio WMS, distribuiti per ciascun giorno.



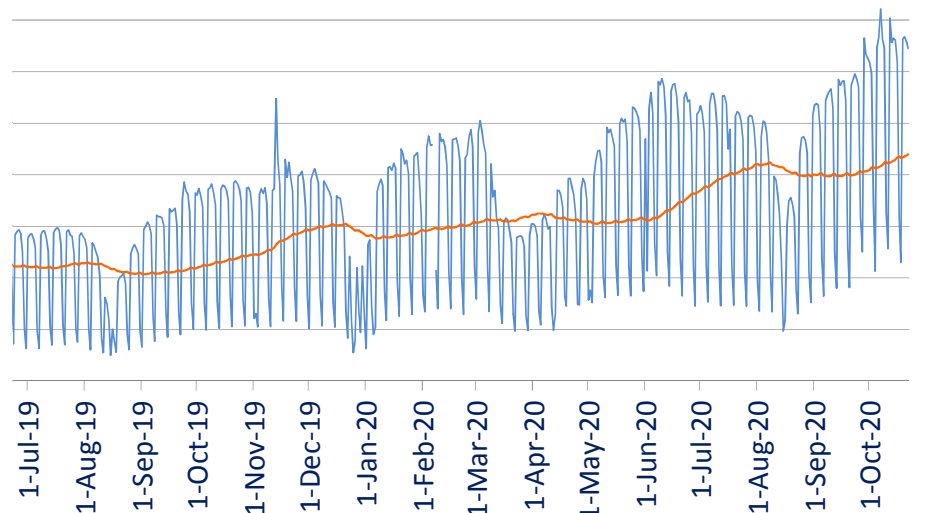
Totale mensile degli utenti giornalieri - ultimi mesi completi



(WMS) - DAILY REQUESTS

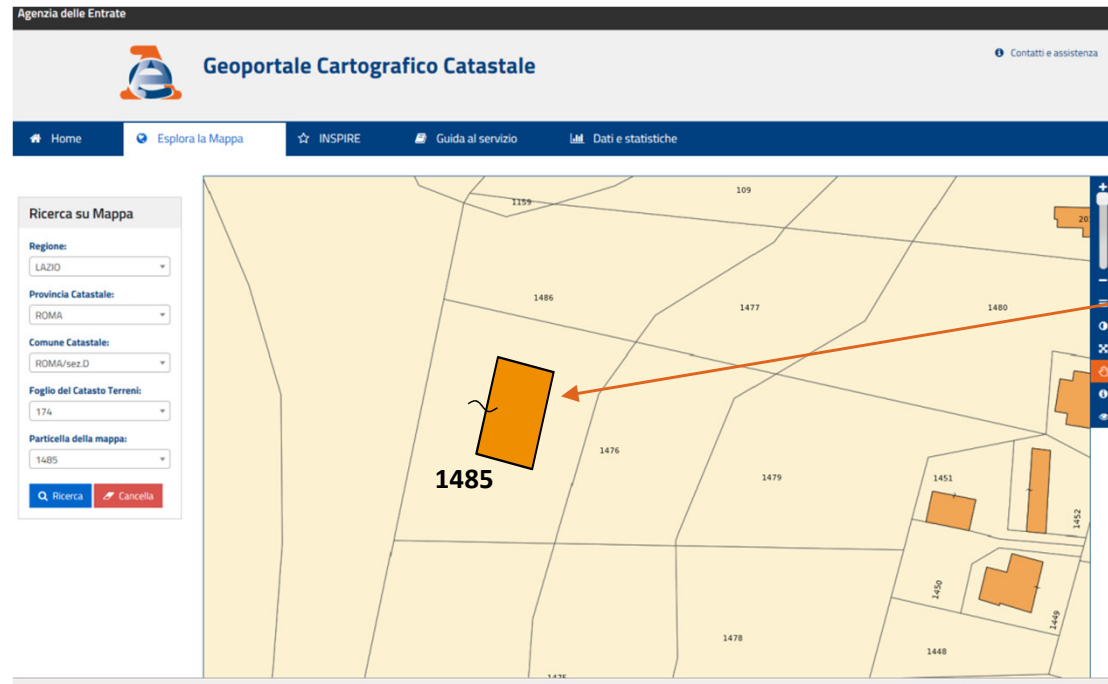


ICE (WMS) - DAILY USERS



CADASTRAL CARTOGRAPHIC ONLINE SERVICES

1



6

Updating
in real time

Professionals

2

Map extract

3

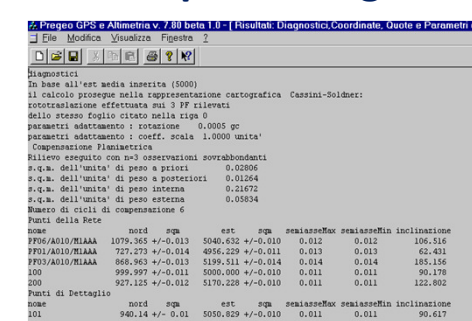
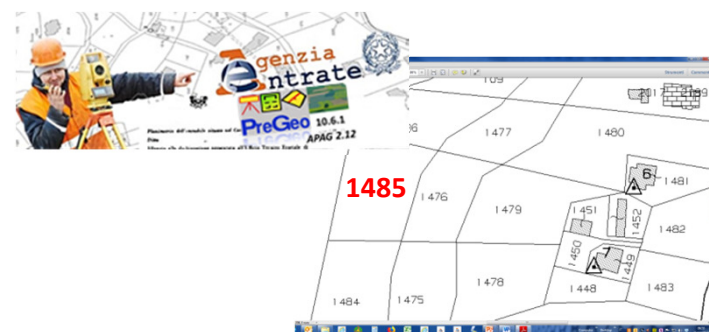
Survey on field

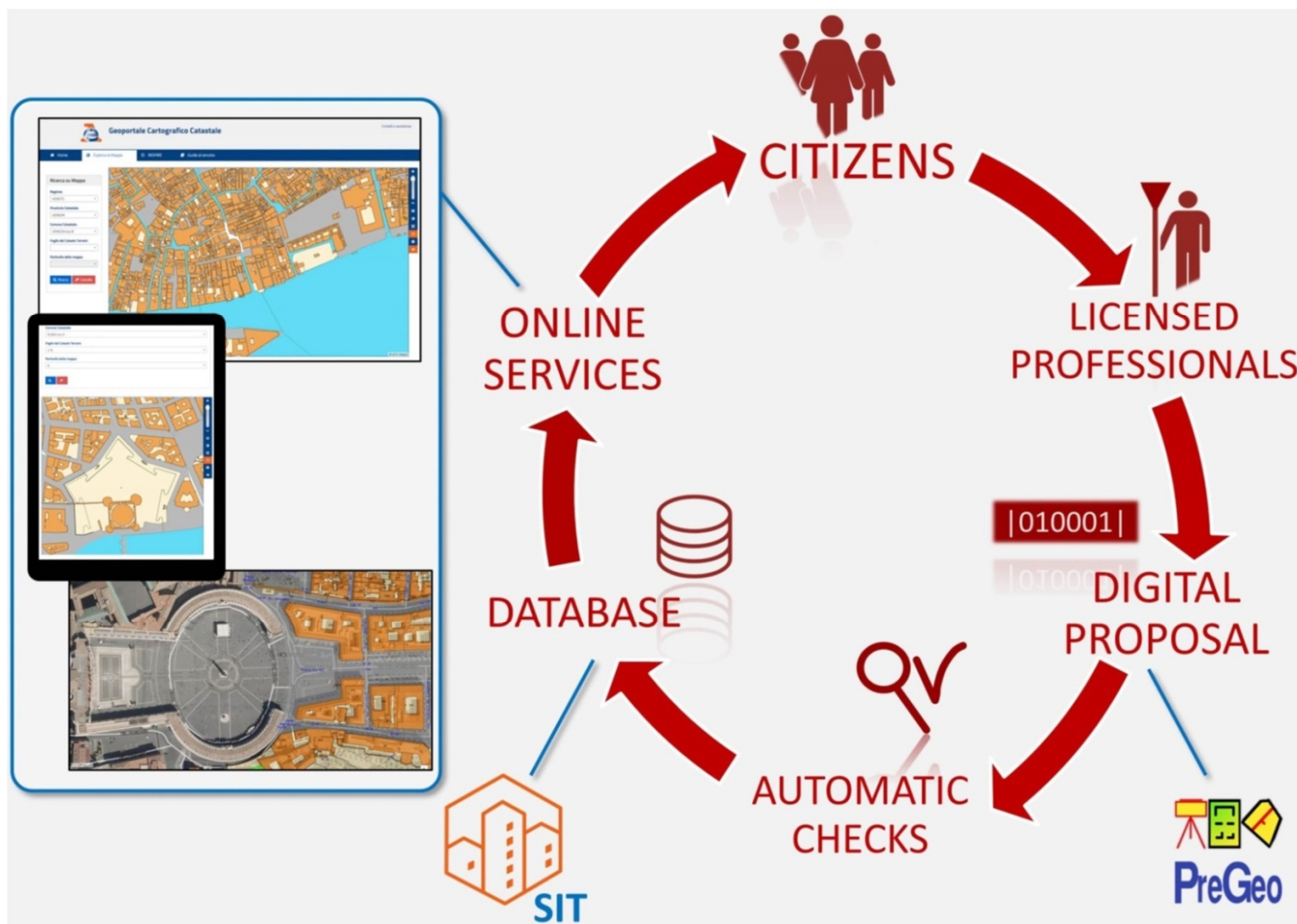
4

Pregeo proposal
processing

5

Map & Land
cadastre database
updating





Our commitment to constant improvements, in terms of data quality and in opportunities for use through increasingly advanced services

An aerial photograph showing a dense forest with a winding road or path cutting through it.

EuroGeographics Webinar Series

5th November 2020
Business improvements through
new updating methods

A detailed cadastral map of a city, showing streets, buildings, and landmarks like 'Piazza San Pietro' and 'Borgo Santo Spirito'.

Thank you for your kind attention

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