



CatastoOpen

Intuitive. Standard-compliant. Open.

Cadastral data proved **strategic in various application areas**: from the responsible use of *land resources* to the definition of policies for the *economic growth* of territories, up to the field of *real estate* actions.

However, **accessing them is not** always that **easy**. Obsolete systems and fragmented databases very often cause considerable difficulties.

CadastreOpen is a complete open-source solution for the Italian cadastral data management. However, the solution can easily scale up to cover additional territories.



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CadastreOpen is a complete solution for cadastral data administration that makes interaction with cadastral information simple and intuitive

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CatastoOpen

Software System | Set of Libraries

CadastreOpen is an open-source software for managing cadastral data, which provides administrators with a complete toolset for retrieving, consulting, archiving, and historicizing information.

It is composed of four **application components**: cadastre-lib, cadastre-db, cadastre-api, cadastre-open.



Cadastre-lib

Module for the data exchange with the system of the agency in charge of managing the information (the Italian Revenue Agency in our case). The **etrflib** library implements the conversion of Sister coordinates in CXF files, including those in Cassini-Soldner.



Cadastre-db

A centralized database that, thanks to the integration with GeoServer, makes all the stored information easily accessible by OGC-compliant calls.



Cadastre-api

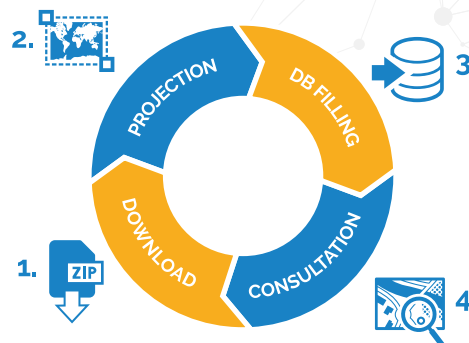
Ad-hoc Rest API services for the download of various information and cadastral records in PDF and HTML format.



Cadastre-open

Intuitive user interface. It lets the user search, locate on the map and view information and ownership boundaries of lands and buildings.

Once correctly configured, the CatastoOpen flow goes through the following steps.



This software is the outcome of a collaboration between GeoBeyond and GeoDataLab, two consolidated companies in the GIS field. Contact us for more information

Integrations

Some planned examples



Integration with the **Public Digital Identity System**. Registration of the citizen for access to the cadastral survey and other services directly from the portal.



Integration with **SMIDT**, the Massive Data Exchange Services of the Italian Revenue Agency. Automatic access to data directly and fully loaded from the agency's systems.



Integration with **Prefect** for an orchestrated management of the different workflows.

CatastoOpen

Advantages of the solution



Scalable

The modular architecture that relies on docker technology guarantees the scalability factor.



Safe

Access to data and services is protected thanks to the integration with GeoServer and Mapstore.



Standard-compliant

The software exposes web services according to OGC standards. Therefore, it integrates with other GIS solutions and systems.



Open-source

CatastoOpen is open-source and integrates on the backend side with GeoServer cartographic data. On the front-end side is a MapStore plugin.



Intuitive

A simple and intuitive user interface to access all the information in a few steps.