

Spain

National Geographic Institute

Collaborating to create a single point of access to official geospatial data in Spain

“The location, or geolocation, of a place (street, city or neighbourhood) is a task that we perform continuously in our daily lives. CartoCiudad is a project that brings together the geographic identifiers of public bodies in Spain, allowing both direct and inverse geolocation to comply with European regulations.”

Emilio López Romero

Director of the National Center of Geographic Information, Spain

CartoCiudad is a collaborative project that brings together official geospatial data from a range of Spanish organisations in one place for easy reuse.

The initiative is coordinated by the National Geographic Institute working with the General Directorate for Cadastre, Post Office and National Statistics Institute. Information includes street maps and regional or local databases, orthophotos from the National Aerial Orthophoto Plan (PNOA), building numbers, postcodes, addresses, official roads names, national topographic data, boundary lines, and toponyms from gazetteers.

Geographic identifiers, such as addresses, points of interest, geographical name and administrative units, from official agencies at the national, regional and local levels are first harvested. To meet the requirements of the INSPIRE Directive, they are then published through ATOM, WFS, API Feature and REST services.

To enable geolocation, a plugin has been developed for QGIS and another created for the Spain viewer API that uses the geolocation REST service.



More information:

<https://www.cartociudad.es/web/portal>



Benefits

- Enables shipping, courier and routing companies to access millions of postal addresses and other geospatial data.
- Provides a single point of access to the data of public organisations in Spain.
- Allows reuse of data through API and bulk download.
- Supports functionality used by mobile companies via bulk mapping of coordinates to postal addresses and vice versa,
- Enables the reuse of geospatial data through open services with licence CC-BY 4.0.
- Facilitates the geolocation of a place through QGIS plugins and viewers.