

# The Statistics and Geospatial Information integration in the Americas 2030 Agenda

## The Argentine Republic Case

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**2020 Round of Censuses and the Global Statistical Geospatial Framework**

July 31st 2017

New York – United Nations

National Statistics Office  
Ministry of Finance



Main Responsibility:  
Street Nomenclature  
Validation and Coding

National Cartographic Agency  
Ministry of Defense



Main Responsibility:  
Cartographic Representation  
and Georeferencing

Within the 2030 Agenda for Sustainable Development

INDEC and IGN have been conducting joint activities for a long time and, according to the UN guidelines, specific Statistics and Geospatial information integration objectives were proposed:

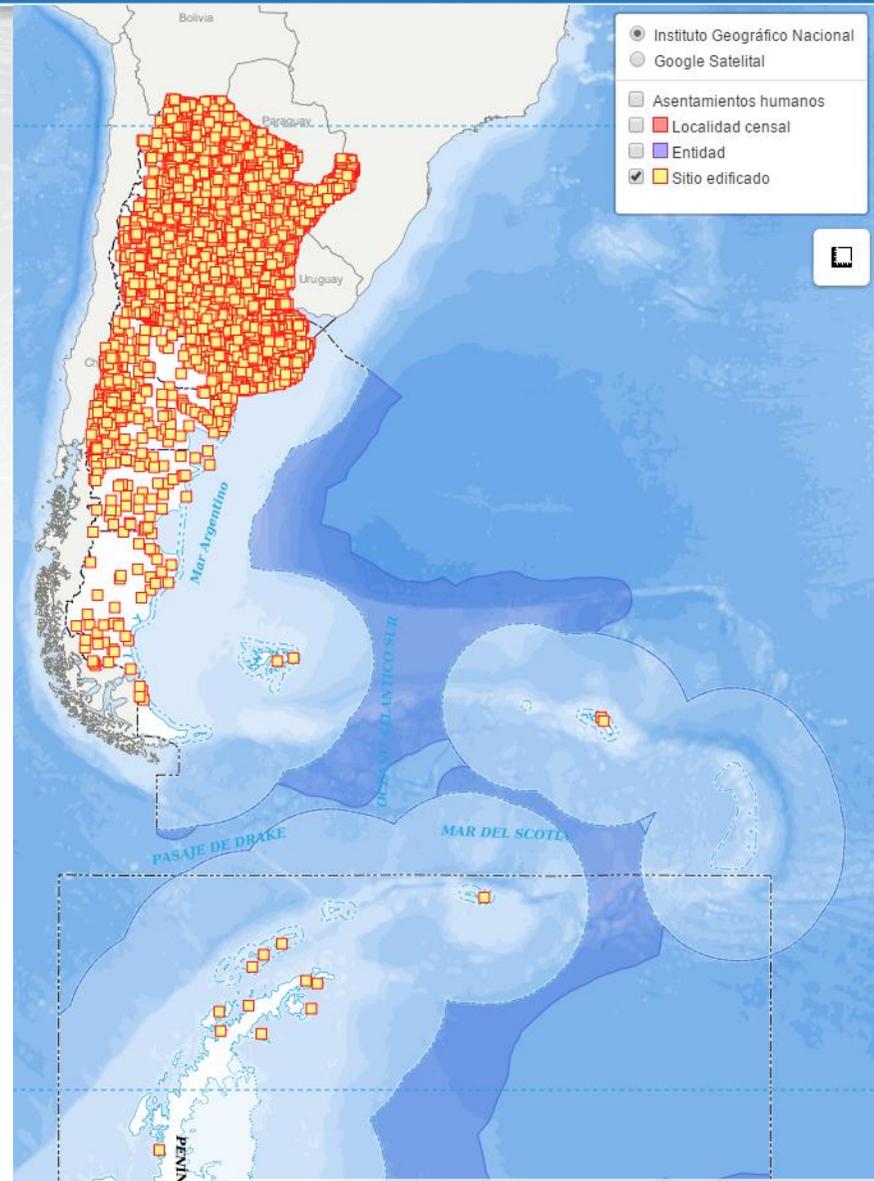
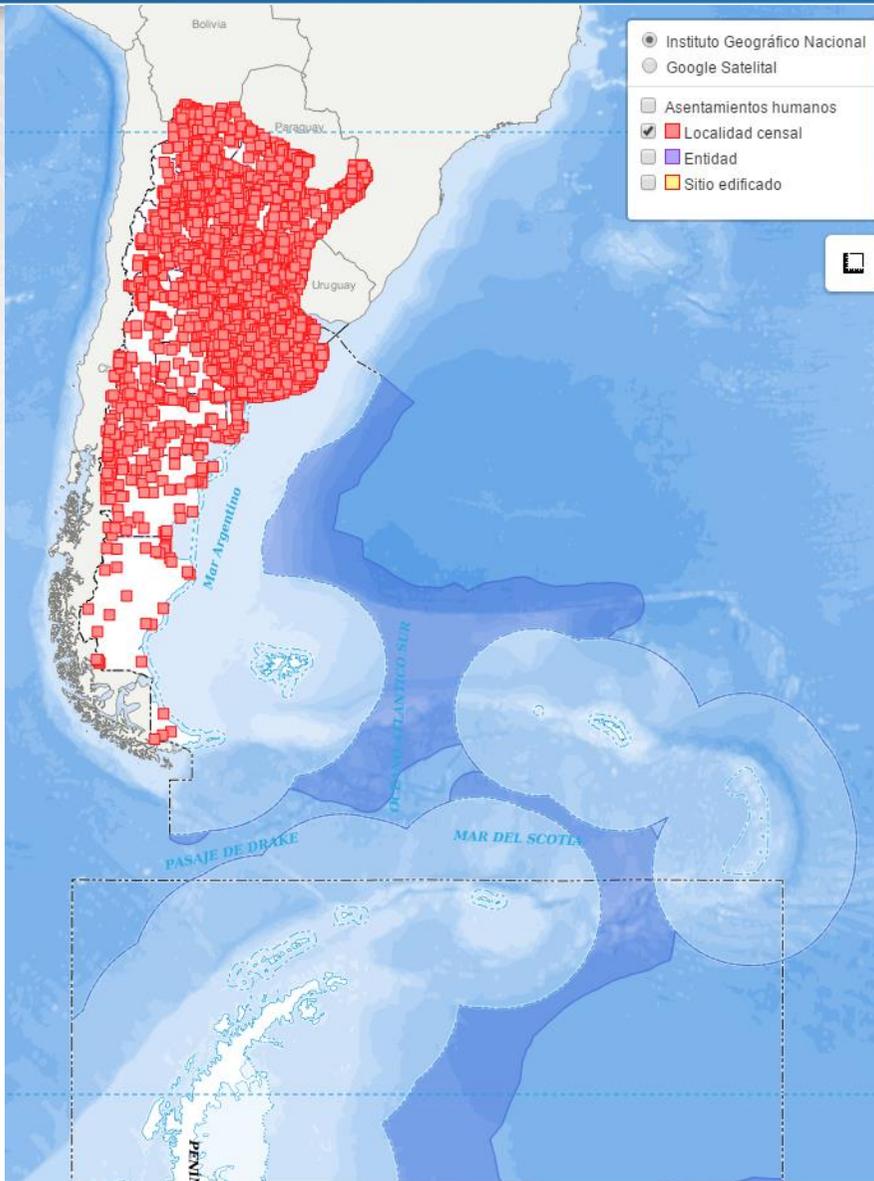
- ▶ The use of a unique Human Settlements Data Base
- ▶ The use of a unique Geospatial Data Base for the 2020 Census
- ▶ The generation of a Database for the Geocoding of addresses, used for public policies planning.

## Argentine Republic Human Settlements Data Base (BAHRA)

It's the result of the joint work between the **National Statistics Office (INDEC)**, the **National Geographic Institute (IGN)**, and the **Educational Map National Program** through the **Ministry of Education**.

- It's the first official and standardized towns and built-up areas data base in the Argentine Republic.
- It consists of a sole data record which allows the identification of every and each human settlement (census town, built-up location or area) by a unique code and a geographic coordinate, linked to the **Global Geodetic Reference Frame**.

# Argentine Republic Human Settlements Data Base (BAHRA)

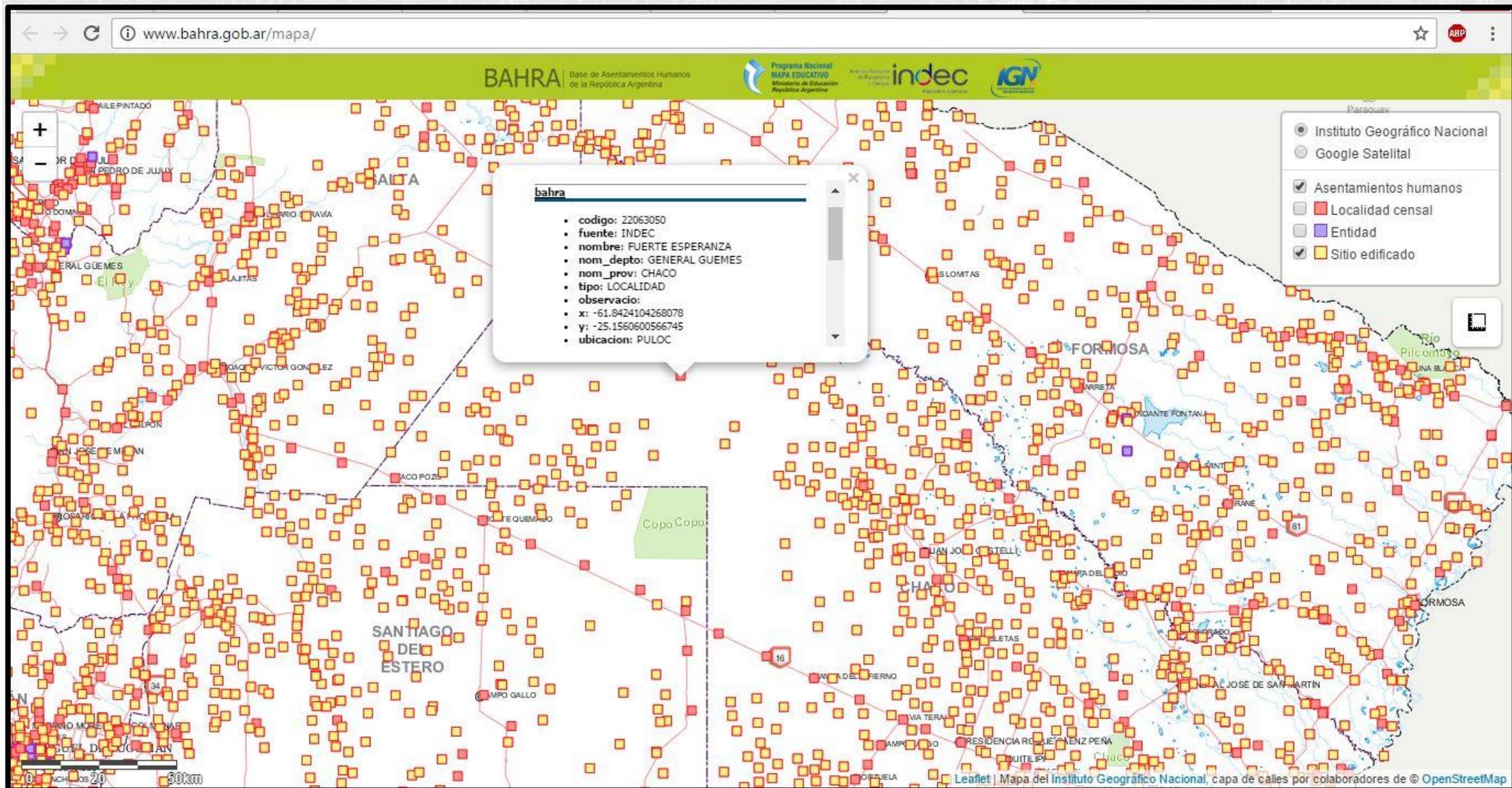


**BAHRA** | Base de Asentamientos Humanos de la República Argentina

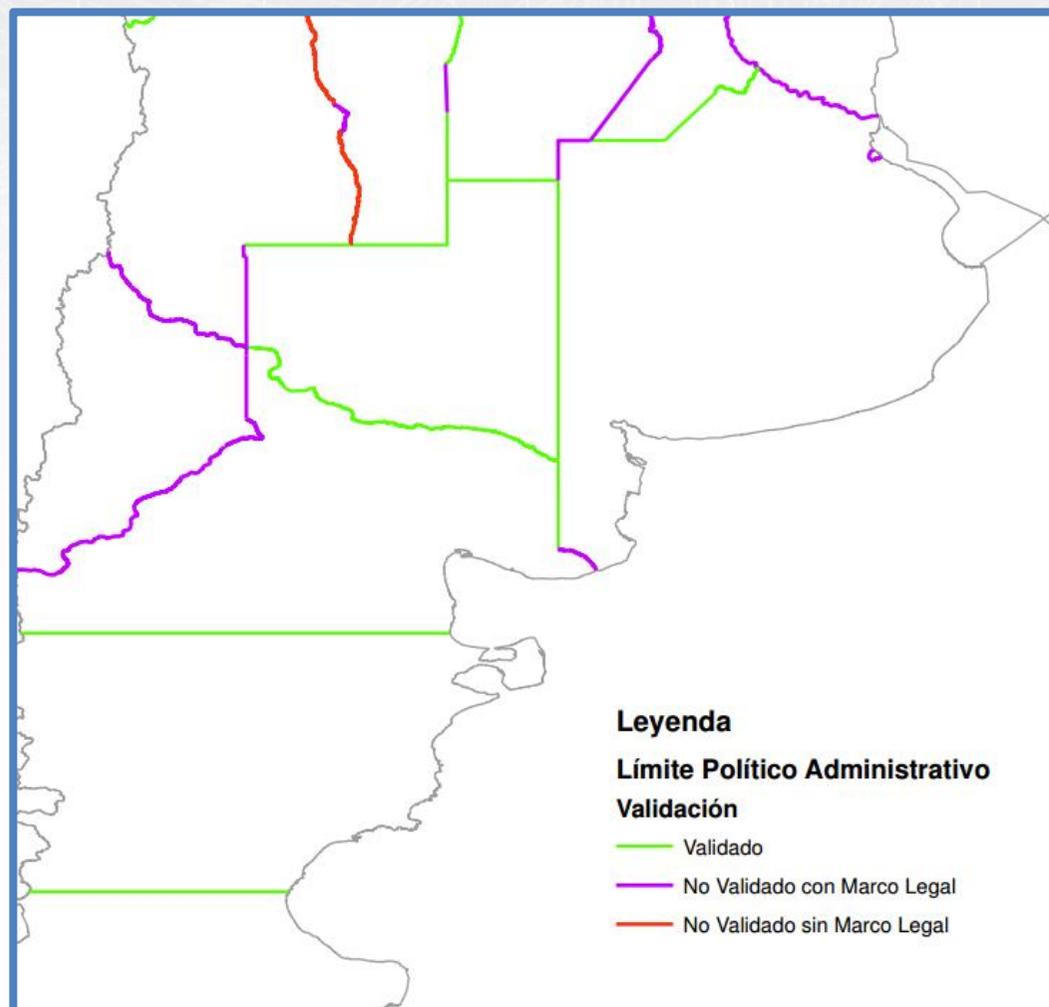


# Argentine Republic Human Settlements Data Base (BAHRA)

Detail listing the official place name, code and georeferenced location



## Second order Political-Administrative Units (Interprovincial Borders)



Interprovincial borders are defined by using Regulations passed and recognized by the National Congress.

Validation of said borders is essential for statistical calculations, such as population density in a province.

## Third order Political-Administrative Units (Interdepartmental borders)

### Provincial Cadastre Administration

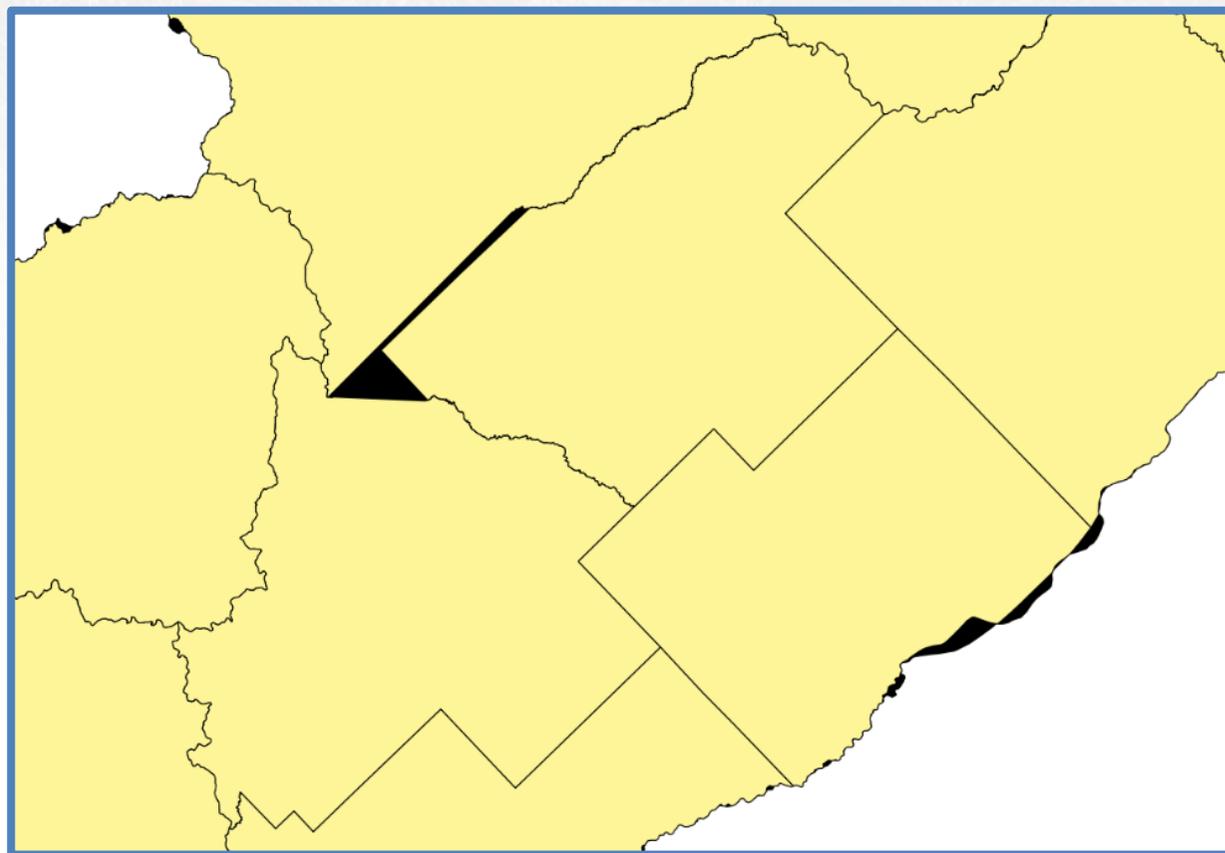


Borders are defined by the  
**Legislative Power** of each  
province



### Provincial Statistics Directorate

Border gaps analysis between the INDEC and IGN geographic data bases

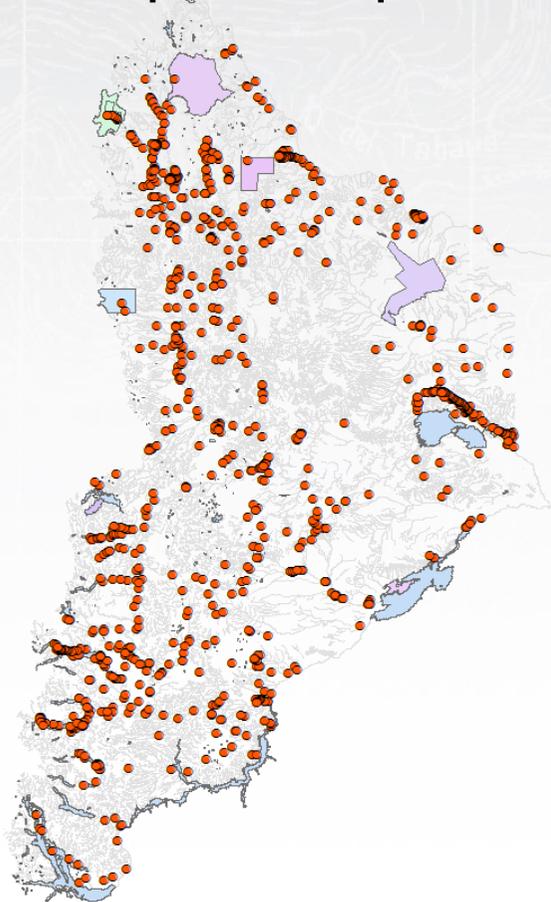


Joint work programme among different level governmental agencies, (National, Provincial, Municipal), in order to coordinate actions for residences geocoding:

- Municipal Affairs Secretariat (Ministry of the Interior, Public Work and Housing)
- Province Secretariat (Ministry of the Interior, Public Work and Housing)
- INDEC (Ministry of Finance)
- IGN (Ministry of Defence)
- Provincial Cadastres (Provinces)
- Municipal Cadastres (Municipalities)

# Data Base for the Geocoding of residences

Quality assessment and information integration from municipal and provincial agencies.



Capture



Validation



Integration to Data Bases

## Street nomenclature

Encoded

Related to BAHRA

With valid height ranges

Including highways agency information (routes, etc).

## Street Georeferenced Data Base

Towns and locations.

Routes with kilometer marking

Neighborhoods

Blocks

Towers

Etc.

## Residence geocoding service

User interface

API

# Integration of standardized information to IDERA

Municipal agencies

Provincial agencies



## IDERA

Infraestructura de Datos Espaciales de la República Argentina



**Ministerio de Defensa**  
**Presidencia de la Nación**

**MUCHAS GRACIAS**