



The relevance of geospatial information in the SBR of Mexico

Session 9c: Integration of Geospatial information into SBRs
UN Committee of Experts on Business and Trade Statistics

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September 20, 2023

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1. The Statistical Business Register of Mexico (RENEM)

In 1983

INEGI was created by presidential decree, integrating the general directorates into its structure:

- Statistics, operating since 1882, when it belonged to the Ministry of Development, Colonization, Industry and Commerce
- Geography, established in 1968 and ascribed to the Presidency Office

This decision of joining the production of statistical and geographic information in only one institution, with the tools and means necessary for this, strengthened the collection, processing and dissemination of the information on the national territory, its population and economy

In the early 80s

- Statistical Manifestation
- National Identification System for Companies and Establishments (SINEE)

In July 2010

- A directory was created with the results of the 2009 Economic Censuses and the DENUE was published

In 2015

- The scope of the DENUE was extended in order to create the RENEM, with additional characteristics and aligned with international guidelines. From this date the DENUE is the public view of the RENEM

Contribution of the legal framework

- Explicit mention of the SBR in the Law on the System of National Statistical and Geographic Information
- Specific rules for the maintenance of SBR
 - Collaboration of the Government Agencies with INEGI
 - Use of CLEE as control identifier
- Specific rules on geographic addresses
 - Use of standardized info to identify the addresses of establishments
 - Support of geographic coordinates
- Additionally, Institutional arrangements among INEGI and Government Agencies with the aim to strengthen the collaboration and especially for accessing useful info for the SBR

International recommendations



Eurostat-OECD Manual
on Business Demography
Statistics



2007

eurostat
Methodologies and
Working papers

Business registers
Recommendations manual

2010 edition



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

**Guidelines
on Statistical Business Registers**



**United Nations Guidelines on
Statistical Business Registers**

(Final draft prior to official editing)



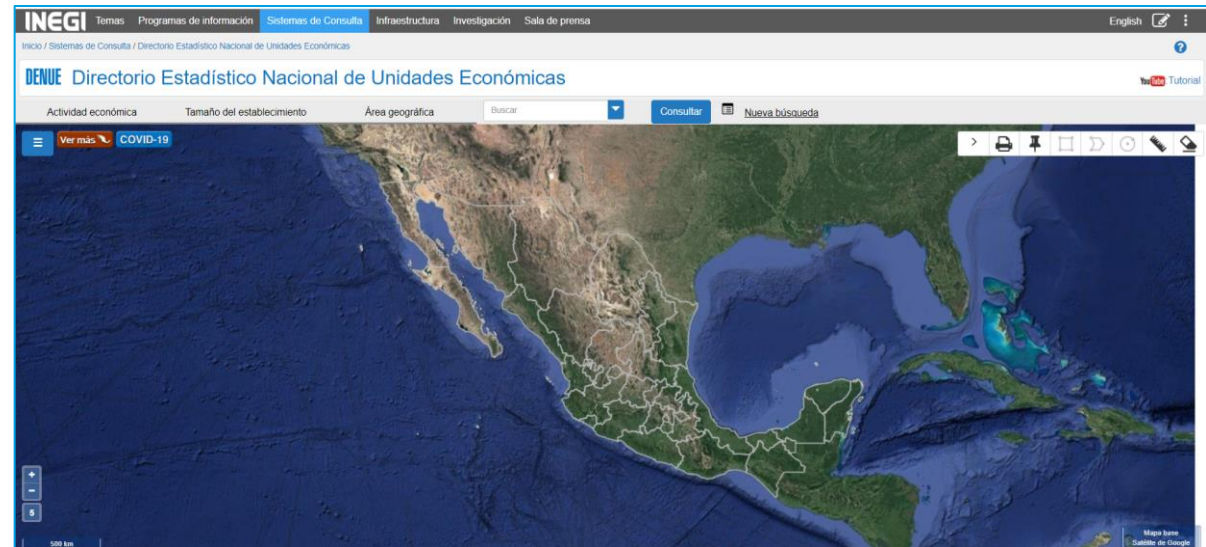
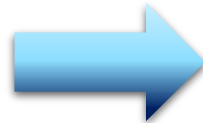
United Nations
New York, 2020

The Statistical Business Register of Mexico (RENEM)

It is the backbone of the economic statistics production processes, containing information on the characteristics of the economic units located in the country and it is periodically updated

The basic statistical unit in the SBR is the establishment

It is one of the few business registers that link statistical information with digital cartography



Goals

To be the integrating element for the various sources of internal and external information, in order to enhance statistical capacity

To be the only source of updated information on economic units, providing directories and sampling frames for INEGI's and SNIEG's various projects on economic statistics

To monitor every economic unit, keeping a historical record of their changes, with the purpose of facilitating longitudinal and business demography studies

To extract the database of active establishments for updating the DENUE

The Business Register of Mexico (RENEM)

It is the only SBR that has a public part

DENUE

RENEM



Public variables

Identification (Name and company name)

Localization (Address and geographical coordinates)

Economic (Strata of employees and economic activity code NAICS)

Contact (Telephone numbers, web page, e-mail address and social networks)

Control Identifier (Enterprise Statistical Code – CLEE)

2. Updating the SBR in Mexico

The update of SBR in practice: the key relevance of field operations

- Each five years the SBR is totally updated as result of the Economic Censuses. The last complete update was carried out in 2019
- Annually during the years which there is no Economic Censuses, the update is focused to the largest businesses
- The efforts are oriented to births and deaths of businesses based on the registers provided mainly by the Mexican Revenue Agency as well as the Electricity Commission
- The collection of business surveys is also helpful to update the SBR
- Special additional economic surveys provide useful info for updating the SBR (i.e. the Business Demography Surveys)

The use of technology for updating SBR and putting geographic coordinates

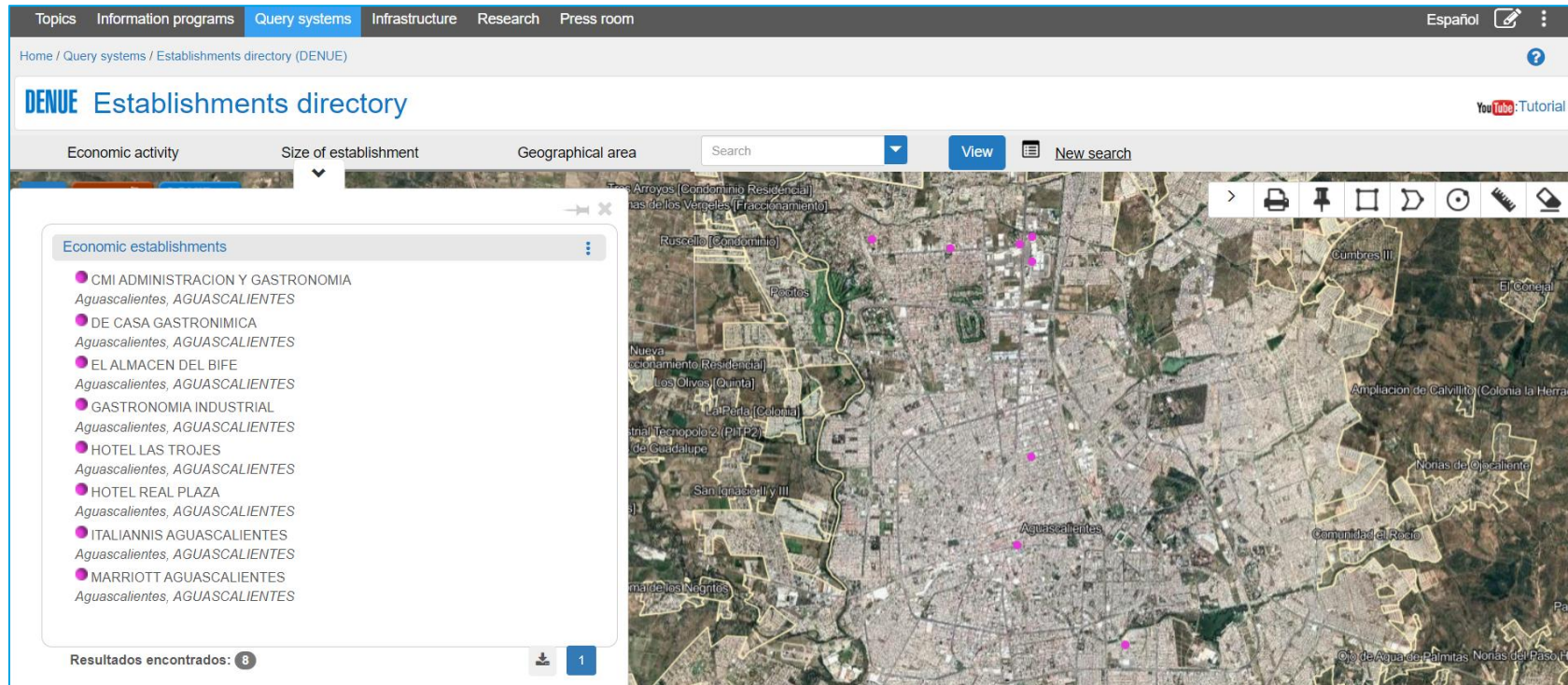
- The field operations are crucial for updating the SBR. So, INEGI is using GPS in the Mobile electronic equipment of people gathering data under the Computer Assisted Personal Interviewing (CAPI)
- Likewise, through the Computer Assisted Web Interviewing (CAWI), INEGI identifies changes in the businesses informed by the respondents of Economic Surveys, and afterwards these changes are verified directly by INEGI. In the case of new establishments (births) the geographic coordinates are assigned
- In addition, linking the SBR with the registers provided by Government Agencies INEGI also assign the geographic coordinates

Cooperation with other Government Agencies

- Based on the described legal framework INEGI takes advantage of the available info in the Governments Agencies to update the SBR
- The ways to assign geographic coordinates in the joint work, are:
 - a) Linking SBR with the registers of other Government Agencies
 - b) Direct implementation by the Government Agencies, but it depends on their interest and available technology to assign the coordinates. For instance, during some procedures with the fiscal authority.
- There is an ongoing analysis in INEGI for advising in this regard to the Government Agencies and this cooperation is subject to specific MOU

3. Geo-referencing data for statistical purposes

DENUE offers statistical information referred to a geographic area, which increases the variety of products, the interrelation of data and their analysis when visualizing them on digital cartography

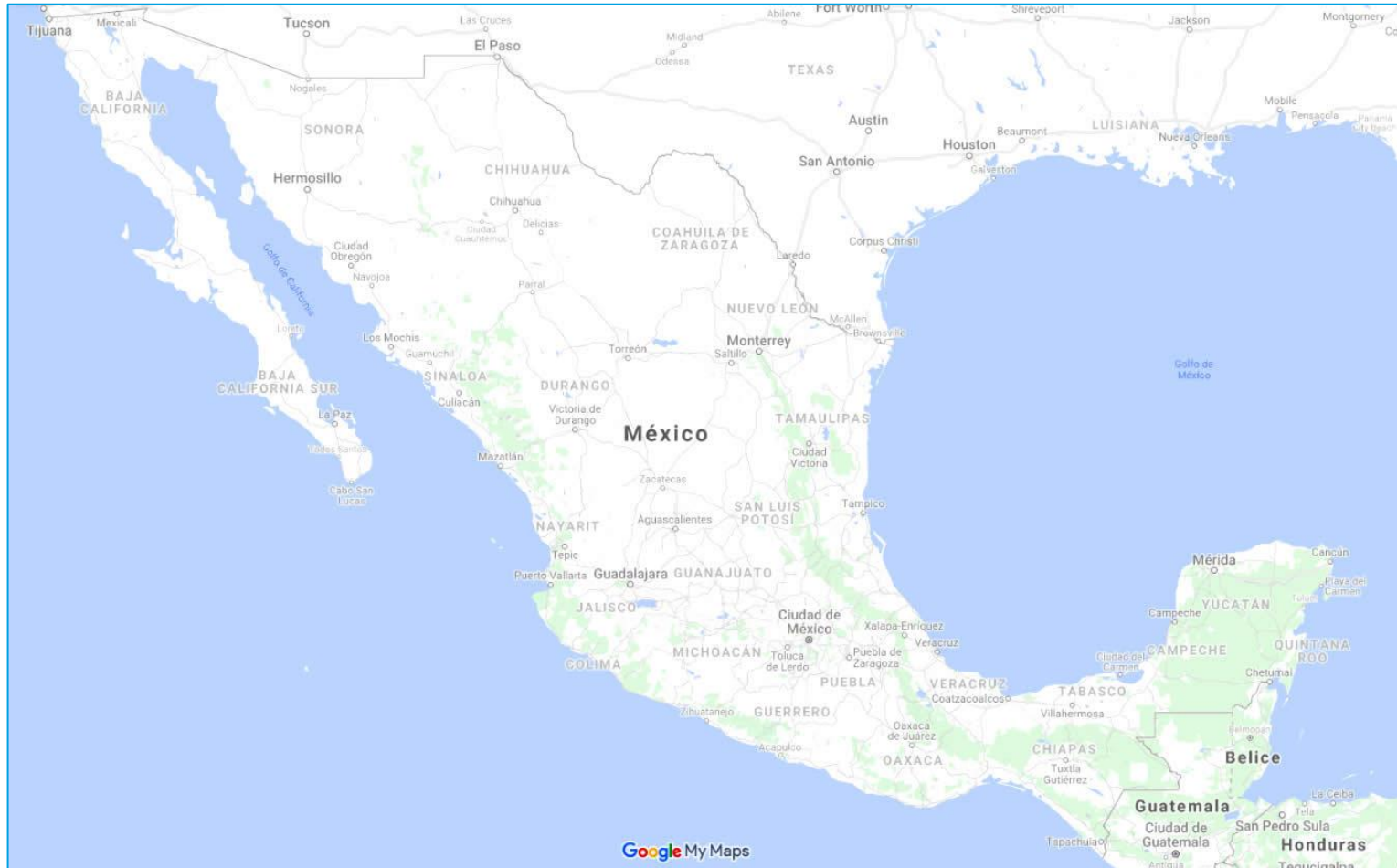


In Mexico, INEGI has developed some exercises institutionally and others in coordination with some public and private institutions

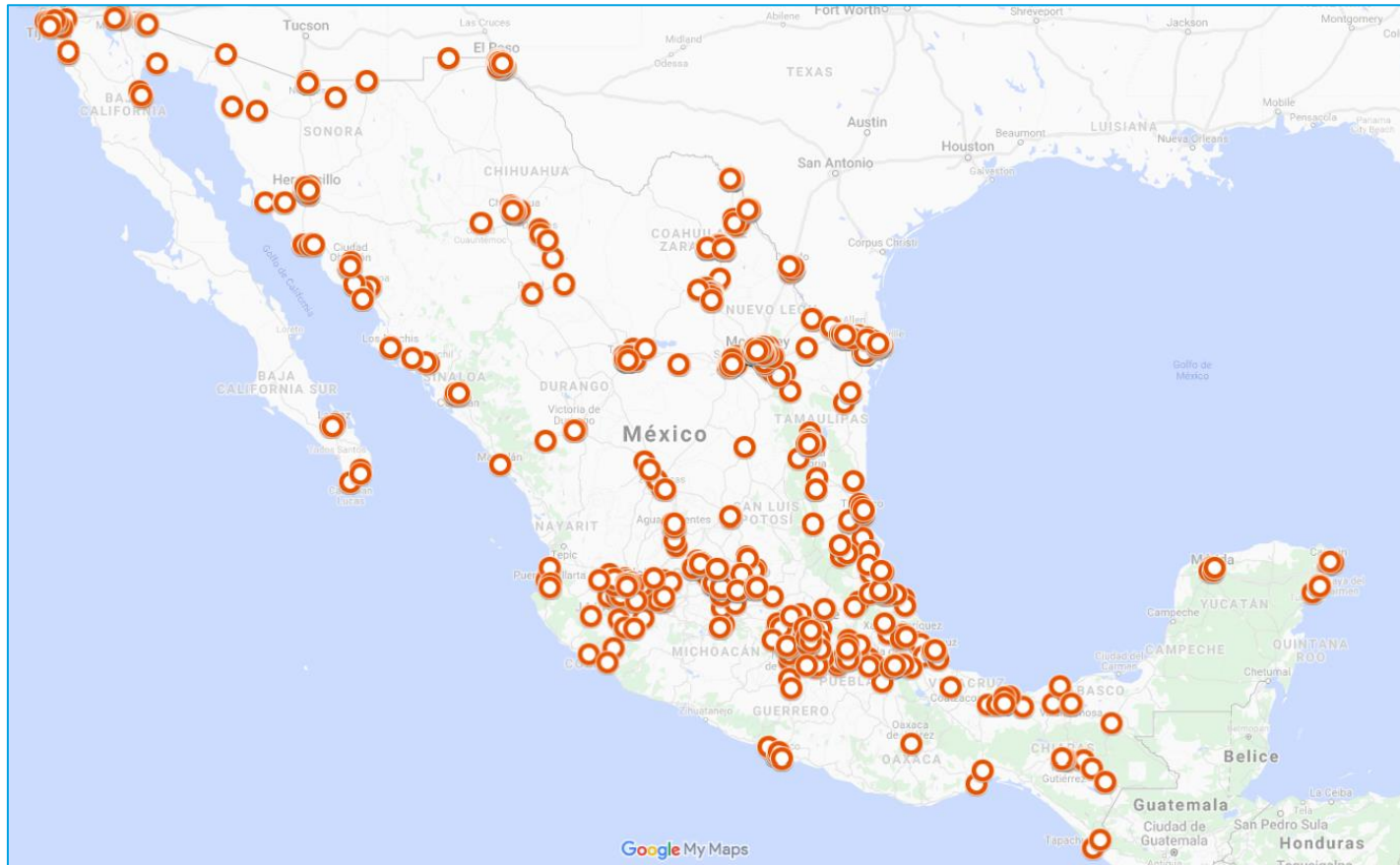
DENUE is available in: <https://www.inegi.org.mx/app/mapa/denue/default.aspx>



Evolution of an enterprise of convenience stores



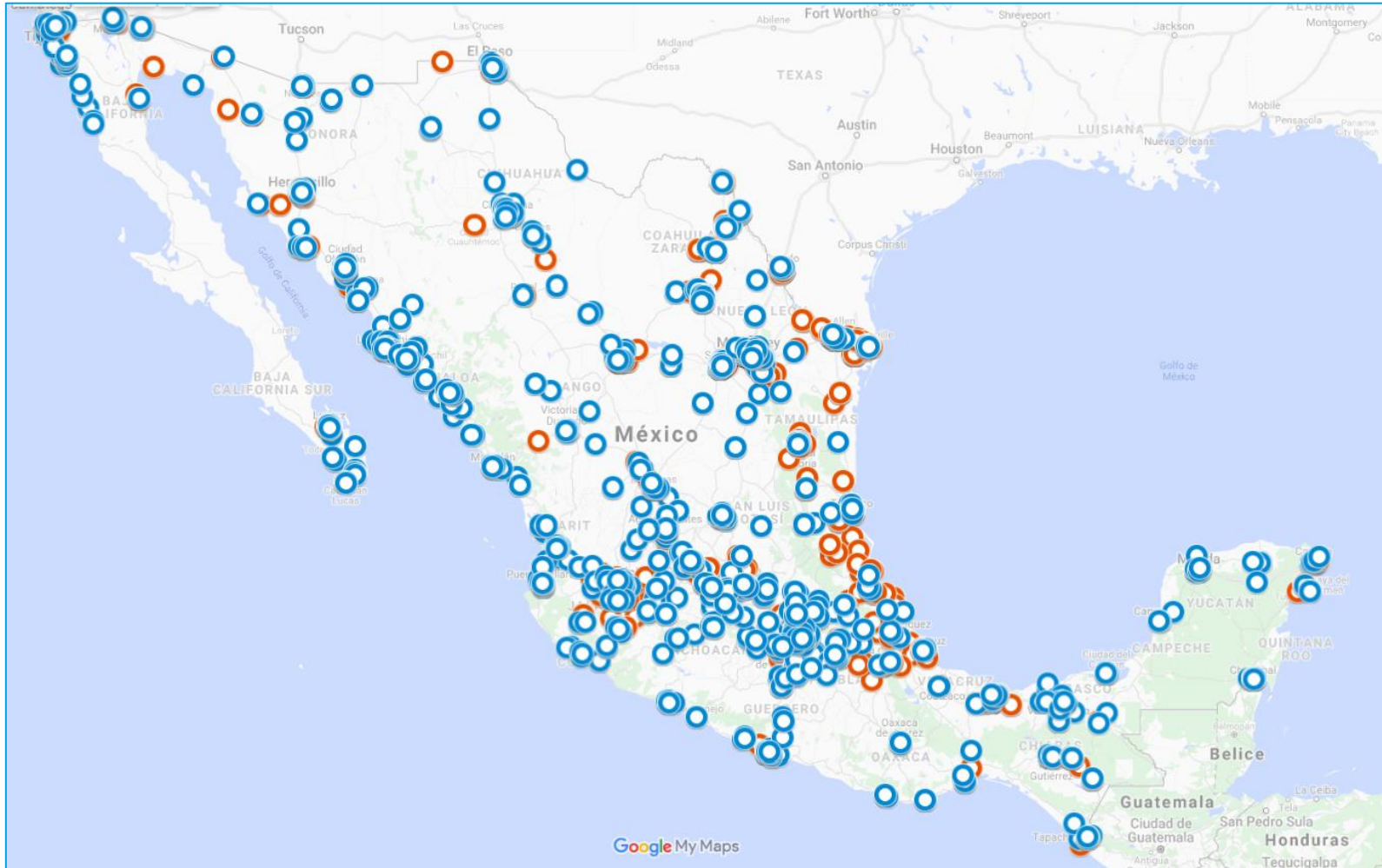
Evolution of an enterprise of convenience stores



TOP 2008

1. Nuevo León
2. Tamaulipas
3. Baja California
4. Mexico City

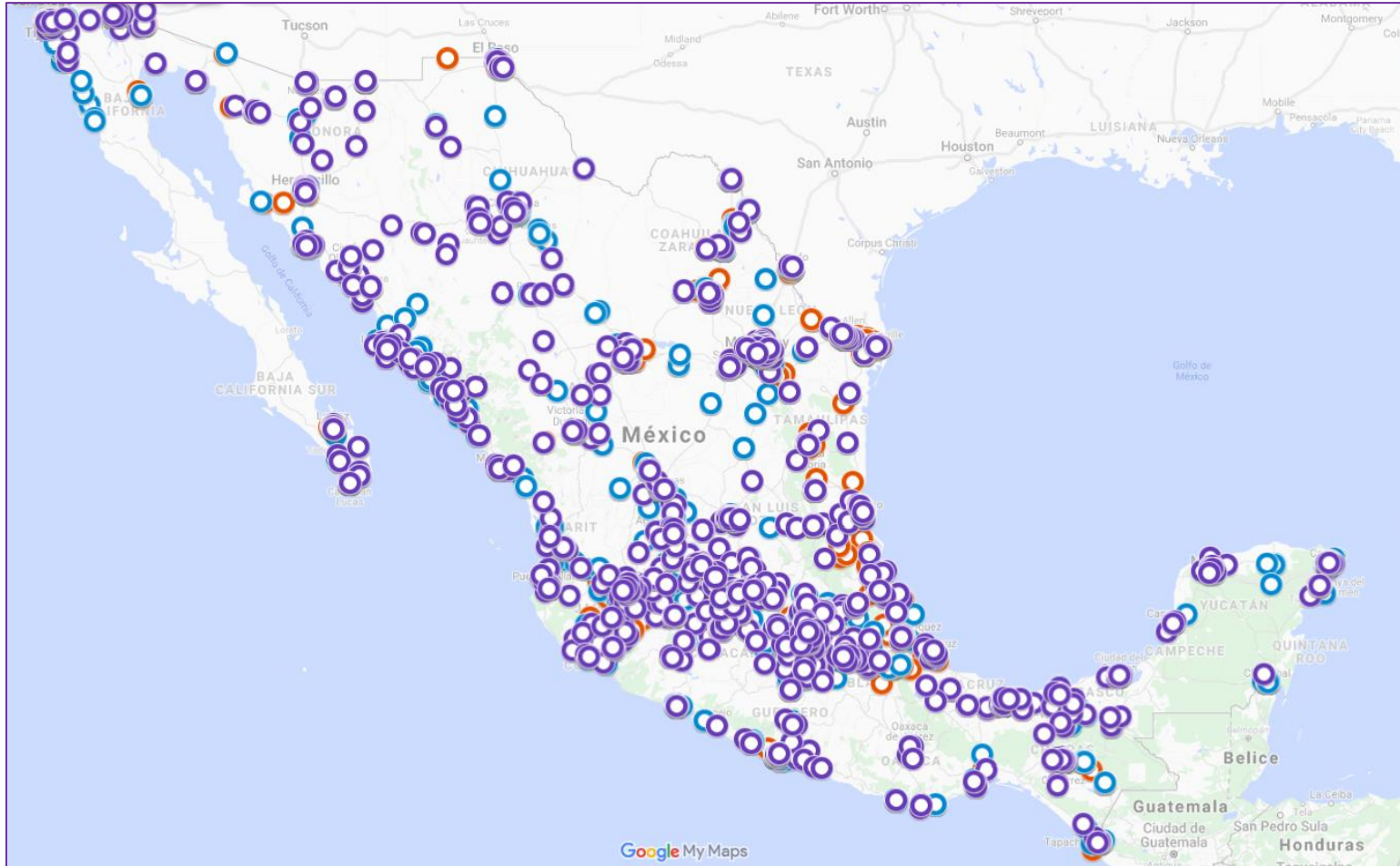
Evolution of an enterprise of convenience stores



TOP 2013

1. Mexico City
2. Nuevo León
3. México
4. Jalisco

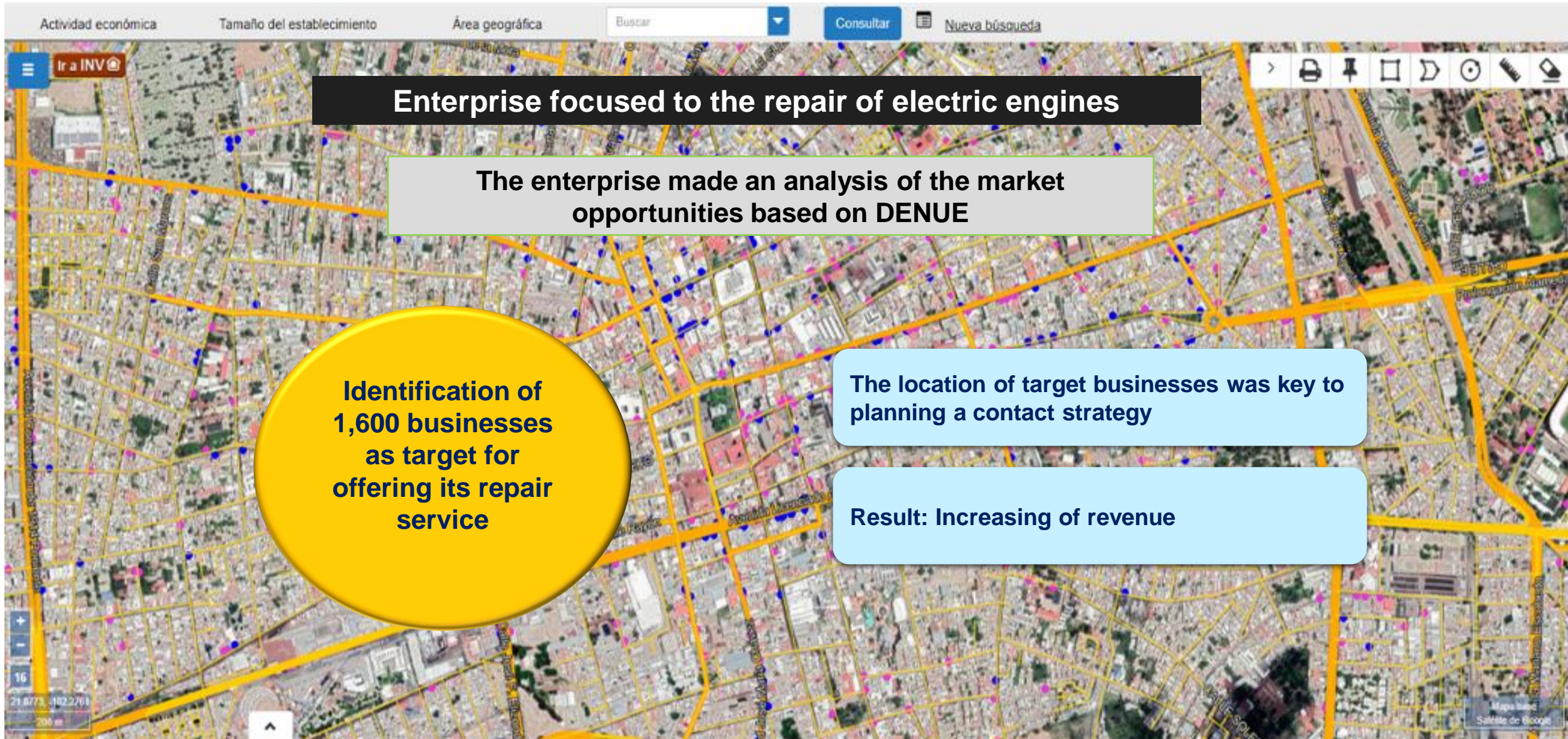
Evolution of an enterprise of convenience stores



TOP 2018

1. Mexico City
2. Nuevo León
3. México
4. Jalisco

Successful experience on the use of DENUÉ by the private sector



4. Final remarks

Final remarks

- There is an increasing demand of users that request detailed figures by regions and specific areas
- The combination of statistical and geographic information enriches the response to information needs at a mayor disaggregation level (subnational level)
- Institutional agreements allow responding to information needs in a more accurate way
- Linking information with various statistical and geographic sources is strategic, since it opens the analytical perspectives, therefore it is necessary to enrich the SBRs with geographic information



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    **INEGI** Informa

Thank you!

