



16 April 2025

TERRITORY

TERRITORIAL INFORMATION INFRASTRUCTURE - VISUALIZATION AND EXPLORATION OF DATA SETS ON THEMATIC MAPS

Portugal's [Territorial Information Infrastructure \(IIT\)](#) is a gateway to a universe of geographic data. The IIT provides a variety of resources, such as integrated databases, data sharing services and geographic information systems, enabling multidimensional spatial analysis and contributing to effective management of the national space. This innovative system, which uses state-of-the-art technology, offers free access to cartographic, demographic, socio-economic and environmental information, facilitating inter-institutional collaboration and informed decision-making at a public and/or private level. It transforms the way you see and interact with Portuguese territory.

STATISTICS PORTUGAL PROVIDES A TERRITORIAL INFORMATION INFRASTRUCTURE THAT ALLOWS THE VISUALIZATION AND EXPLORATION OF MORE THAN 100 DATA SETS ON THEMATIC MAPS, AS WELL AS THE USE OF SPATIAL PATTERN ANALYSIS AND CLUSTER MAPPING TOOLS.

The IIT project aims to create an information infrastructure for the country's territory, linked to alphanumeric, social and economic information, integrating at least 150 data sources. It is designed to provide detailed, high-quality information responses in a wide range of areas, contexts and needs, on a regional and national scale.

The IIT platform can be accessed at: <https://iit.ine.pt/> and is one of the Recovery and Resilience Plan (PRR) projects established by Statistics Portugal.

TERRITORIAL INFORMATION INFRASTRUCTURE - VISUALIZATION AND EXPLOITATION OF DATA SETS ON THEMATIC MAPS

Figure 1. Territorial information infrastructure

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STATISTICS PORTUGAL

IIT IINE INFRAESTRUTURA DE
INFORMAÇÃO TERRITORIAL

Search Advanced Search

PT v.17 Help

Statistic's Portugal Territorial Information Infrastructure

Discover Portugal's Territorial Information Infrastructure (IIT), your gateway to a universe of geographical data. The IIT uses state-of-the-art technology and provides a variety of resources, such as integrated databases, data-sharing services, and geographic information systems, enabling multidimensional spatial analysis and effective management of the national territory. This innovative system provides access to cartographic, demographic, socio-economic, and environmental information, facilitating inter-institutional collaboration and informed decision-making at public and private level. Transform the way you observe and interact with the Portuguese territory.

Information

IIT is being implemented gradually and is undergoing continuous improvement, both in terms of functionalities and responsiveness. Send your comments and suggestions to the email: iit.sugestoes@ine.pt.

TII Geoportal
Search, visualization and spatial analysis of data sets released by Statistics Portugal.

2021 Census (GeoCensos)
Map visualisation of a set of data from the 2021 Census.

House prices for the cities (GeoHab)
Interactive consultation of the median sales values of dwellings in the largest cities.

→ 133 Datasets [Access here →](#)

→ 5 Services [Access here →](#)

Useful links | [FAQ](#) | [About](#)

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PRR Plano de Recuperação e Resiliência

IIT is being implemented gradually. It is continuously improving, both in terms of functionality and responsiveness.

Now, IIT allows the visualization of around 134 data sets on thematic maps, as well as the use of some spatial pattern analysis and cluster mapping tools.

Figure 2. Advanced filter search

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Search **Advanced Search** PT v.17 Help

Criteria

Type of resources

- Dataset (133)
- Services (5)

Themes

- Enterprises (11)

Subtheme

- Credit institutions and financial enterprises (4)
- Insurance and reinsurance (1)

Last geographic level

- Municipality (11)

Sources

- SIBS, Credit institutions and financial corporations survey (1)
- Statistics Portugal, Credit institutions and financial

Datasets Generate maps →

Enterprises (No.) Persons employed (No.) in Enterprises

Enterprises

Credit institutions and financial enterprises

Description: National withdrawals on automated teller machines per inhabitant (€)

First Period Available: 2012, Last Period Available: 2023, Last update: 2024-06-21
Periodicity: Annual
Last Geographic Level: Municipality
Source: SIBS, Credit institutions and financial corporations survey

[To know more](#)

Enterprises

Credit institutions and financial enterprises

Description: Credit conceded (€) by other monetary intermediation establishments

First Period Available: 2012, Last Period Available: 2023, Last update: 2024-12-11
Periodicity: Annual
Last Geographic Level: Municipality
Source: Statistics Portugal, Credit institutions and financial corporations survey

[To know more](#)

Enterprises

Integrated business accounts

Description: Enterprises (No.)

First Period Available: 2008, Last Period Available: 2023, Last update: 2024-12-13
Periodicity: Annual
Last Geographic Level: Municipality
Source: Statistics Portugal, Integrated business accounts system

[To know more](#)

Enterprises

Integrated business accounts

Description: Persons employed (No.) in Enterprises

First Period Available: 2008, Last Period Available: 2023, Last update: 2024-12-13
Periodicity: Annual
Last Geographic Level: Municipality
Source: Statistics Portugal, Integrated business accounts system

[To know more](#)

Enterprises

Integrated business accounts

Description: Gross value added (€) of Enterprises

First Period Available: 2008, Last Period Available: 2023, Last update: 2024-12-13

Enterprises

Integrated business accounts

Description: Turnover (€) of enterprises

First Period Available: 2008, Last Period Available: 2023, Last update: 2024-12-13

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Figure 3. Spatial analysis services

Criteria

Type of resources

- Dataset (133)
- Services (5)

Themes

- Living conditions and citizenship (2)

Subtheme

- Citizenship (2)

Last geographic level

- Municipality (2)

Sources

- General Secretariat of Internal Administration - Electoral Administration (2)

Services

Clusters Mapping - Anselin Local Moran's I

The tool uses Local Moran's I_i by Anselin (1995) to evaluate spatial autocorrelation and identify local clusters (hot spots, cold spots) and outliers. Unlike Global Moran's I , each location receives a unique index, z-score, expected value and variance, distinguishing clusters of high values (HH), low values (LL), and outliers (HL and LH).

Clusters Mapping - Hot Spot Analysis (Getis-Ord G_i^*)

This tool uses the Getis-Ord G_i^* model to identify significant hot spots and cold spots by comparing the local sum of a variable with the global total. Statistically significant z-score values indicate spatial clusters of positive attributes (hot spots) or negative attributes (cold spots), without identifying outliers.

Spatial Pattern Analysis - Global Moran's I

This tool measures global spatial autocorrelation, for which location information and object attribute values are simultaneously considered. Results range between -1 and 1. A positive z-score indicates positive global spatial autocorrelation and a negative z-score indicates negative global spatial autocorrelation. A z-score of 0 indicates a random distribution (there is no autocorrelation).

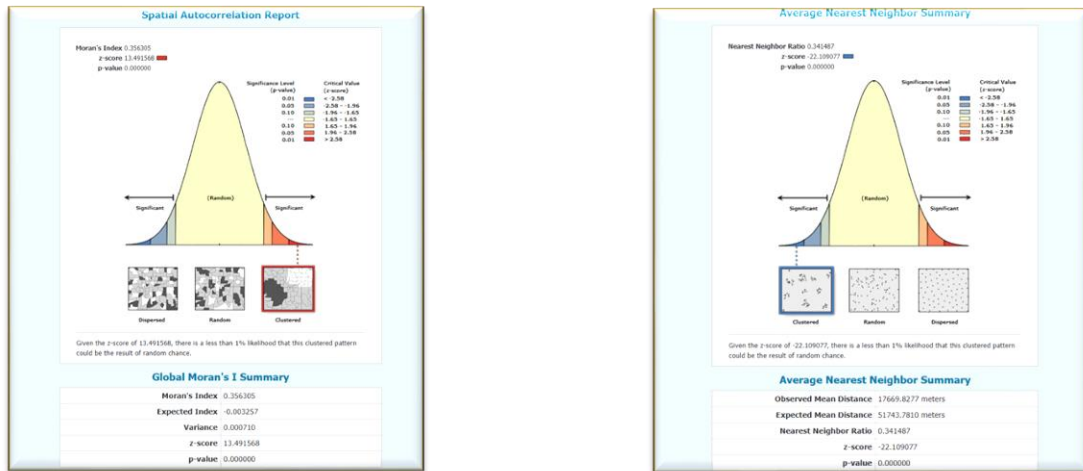
Spatial Pattern Analysis - Average Nearest Neighbor

This tool determines the spatial autocorrelation of a variable, calculating the average distance between the centroid of each object and the centroid of its nearest neighbor, and compares it with the average distance expected in a random distribution, with the same number of objects and the same total area.

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Figure 4. Spatial analysis services - Reports



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The second phase of the IIT project is expected to include more data sets, new advanced geographic functionalities for bivariate and multivariate analysis, user areas, API availability and additional search criteria.