Pueblos

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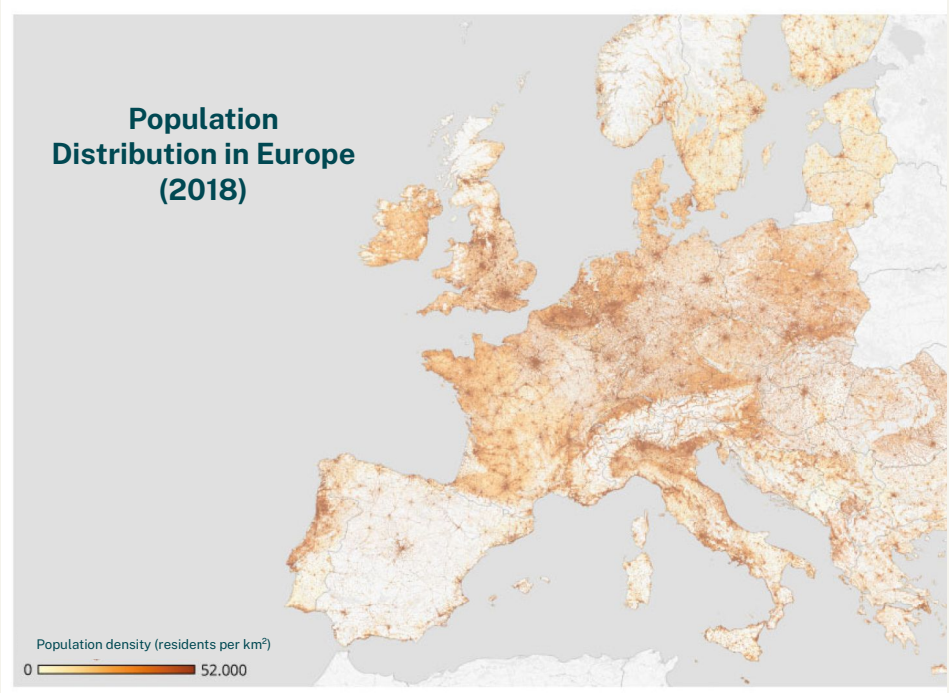
Empty Spain

- In Spain small towns suffer from a loss of population.
- Young people migrate to big cities



Source: Eurostat

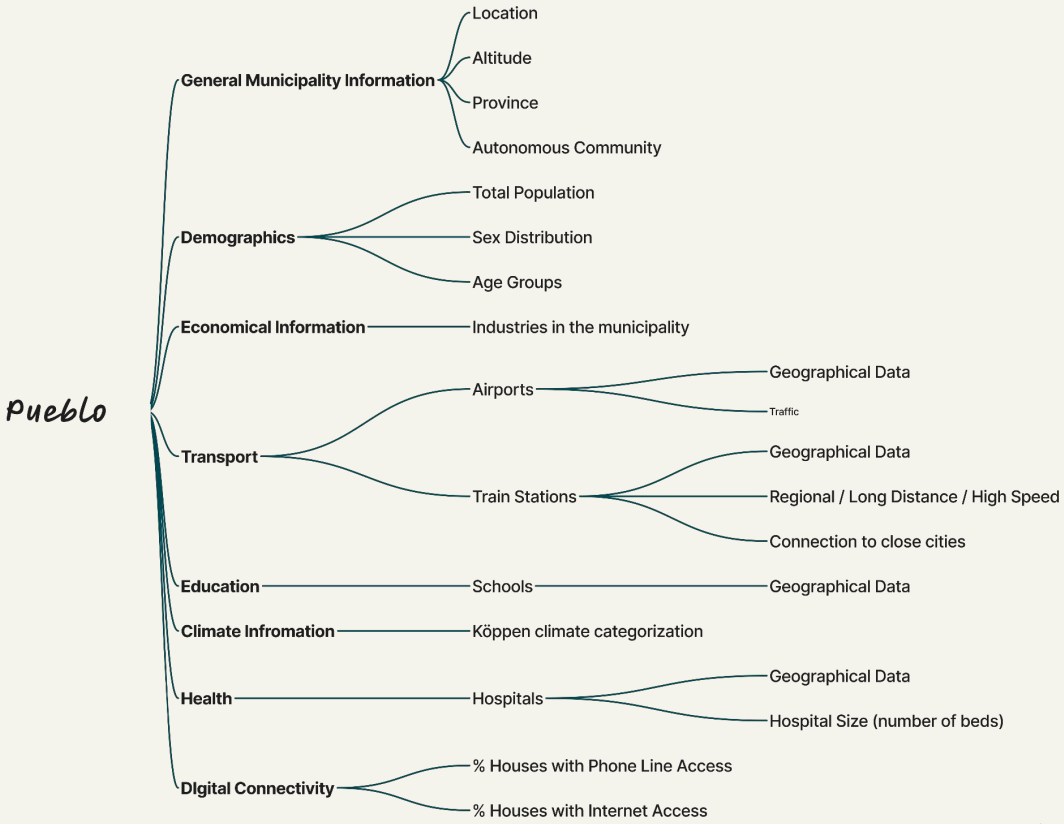
Our Goal

- Aggregate relevant information of ALL the small towns and villages in Spain!
- We want to show a modern way of life is possible in the rural areas.
- And recommend the best locations based on multiple factors, promoting repopulation and sustainable living.

Scope & Constraints

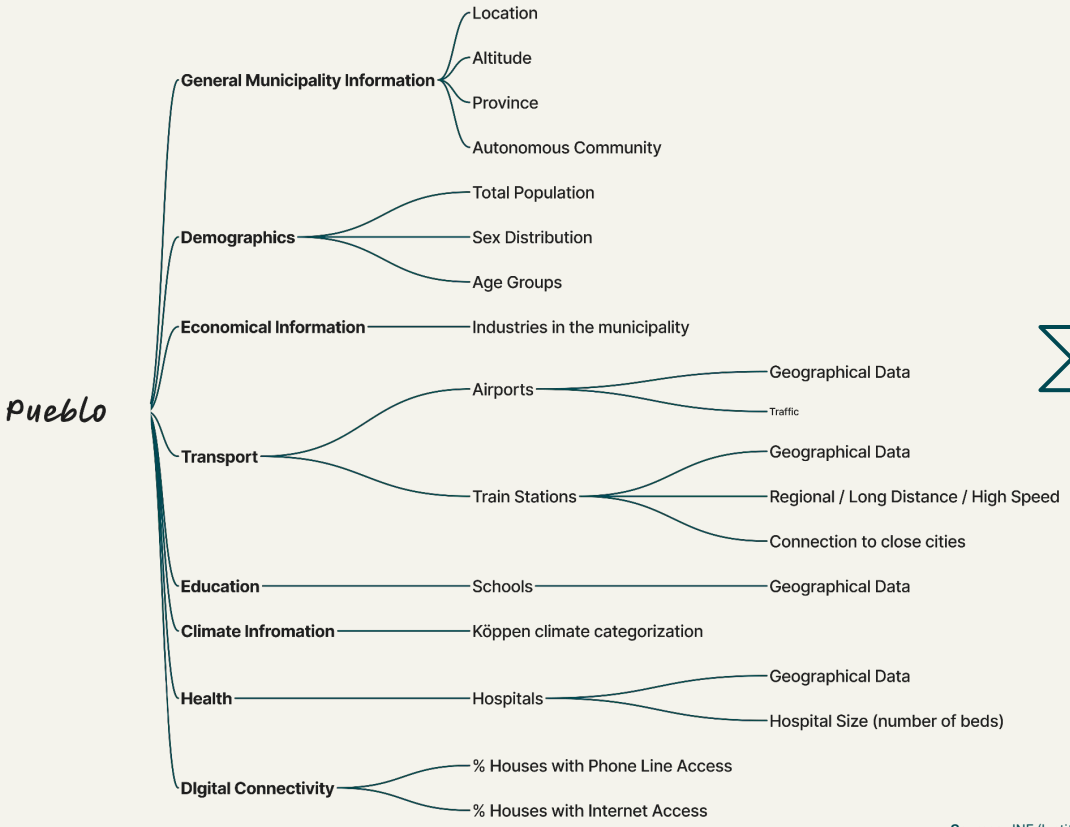
- **Towns with fewer than 6,000 inhabitants**
- **Focus in mainland Spain** (sorry, the islands are not included yet!)
- The project considers **only a limited number of features**, but its structure allows for **easy scalability**.

Data Gathered



Sources: INE (Instituto Nacional de Estadística), Business Intelligence, Spanish, Airports (ArcGIS Hub), Renfe Train Stations (Data Portal), Köppen Climate Classification, ADSL Zones (ArcGIS), Spanish Hospitals (ArcGIS Hub), Spanish Schools (ArcGIS Hub)

Data Gathered



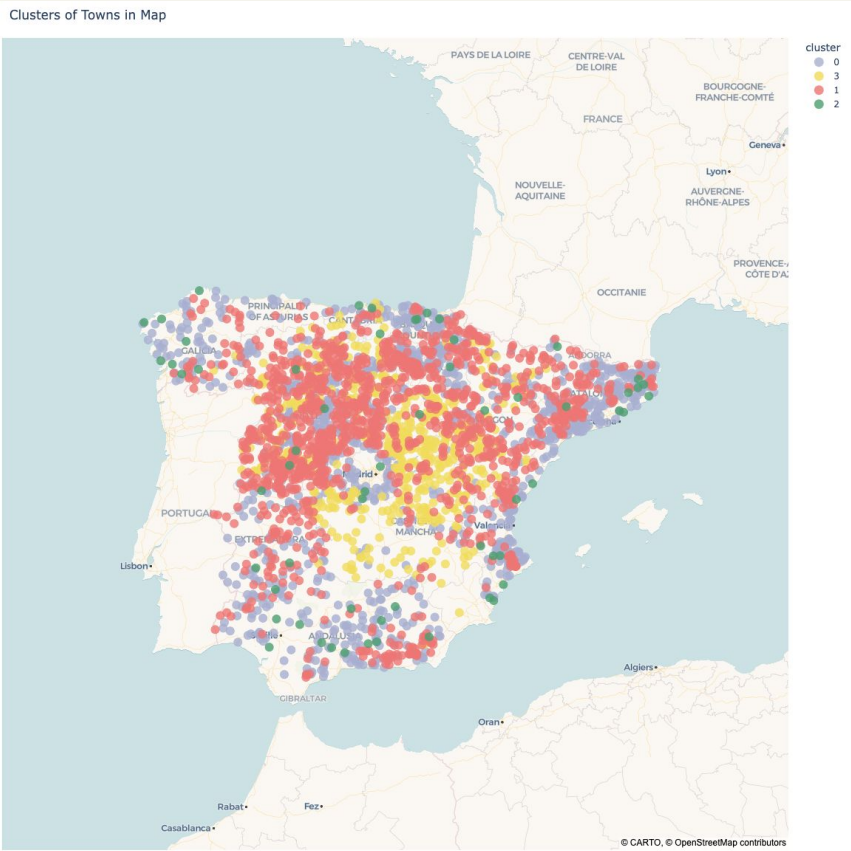
Pueblo
Location
Size
Age (Risk of Depopulation)
Transport Score
Connectivity Score
Health Score
Education Score
Köppen Climate

Sources: INE (Instituto Nacional de Estadística), Business Intelligence, Spanish, Airports (ArcGIS Hub), Renfe Train Stations (Data Portal), Köppen Climate Classification, ADSL Zones (ArcGIS), Spanish Hospitals (ArcGIS Hub), Spanish Schools (ArcGIS Hub)

Pueblos Clustering

1. Using aggregated **clustering** we group towns in a way that maximizes variance

2. We present the user with different options from each cluster to understand **user preferences**



User Selection Demo

How does this work?

Draw a similarity Graph of all towns

Find hidden patterns between the user profile and the towns graph

Find most similar towns to recommend users

Graph Demo

Next Steps

- Analyze the recommendation performance and quality
- Tune the recommendations
- Build enhanced Web UI
- Introduce Feedback Loop (let users rate recommendations for future improvement)

Q&A