# Project 1: Interpret a Data Visualization

❖ **Insight 1: Structure of the Population**

Madrid City shows the distribution between Spaniards and foreigners, with Spanish people representing 87.9% of the population while foreigners make up 12.1%. Latin America and the Caribbean are the most common destinations for foreigners, at 40%, with European citizens representing 16% of the population. The 15% representation by Asia and Oceania citizens, while EU 15 people make up 12%. On the other hand, people from Africa and other countries represented low percentages of the population.
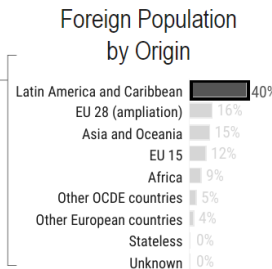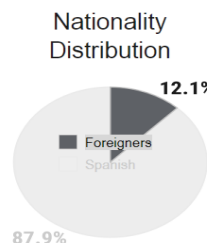
According to the graphics below, Casco Historico de Vallecas is the neighborhood in Madrid with the highest population, with approximately 78,000 inhabitants, while Atocha is the least populated, with only 1,000 inhabitants.
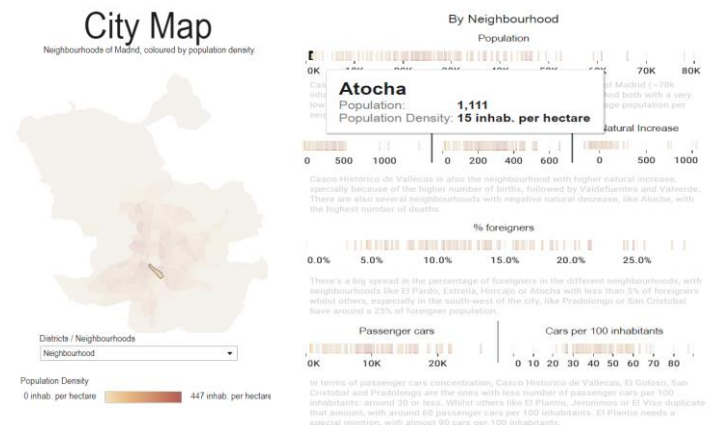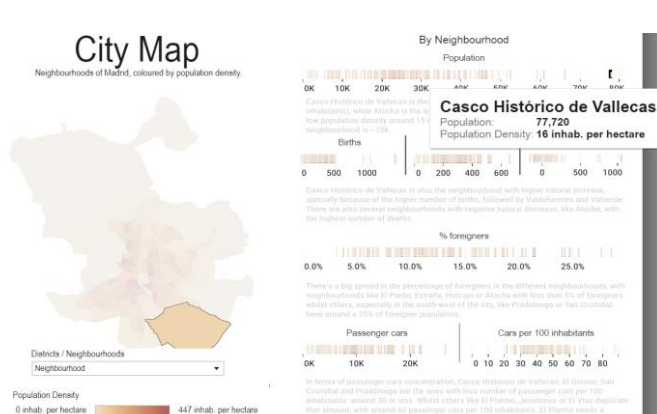
Casco Historico de Vallecas also has a higher natural increase with a high number of births, followed by Valdefuentes and Valverde. Although there are some neighborhoods with a negative natural decrease, such as Aluche, which has the highest number of deaths.
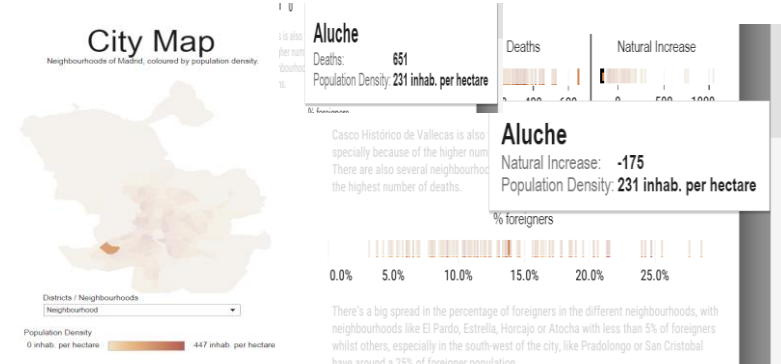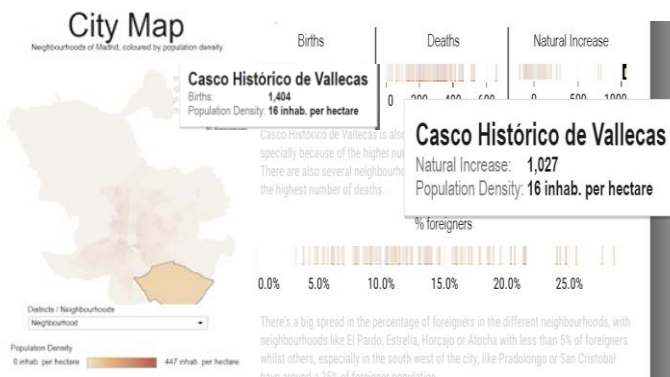
In El Pardo, Estrella, Horcajo, or Atocha, foreigners are less than 5%, while in San Cristobal or Pradolongo it is around 25%.
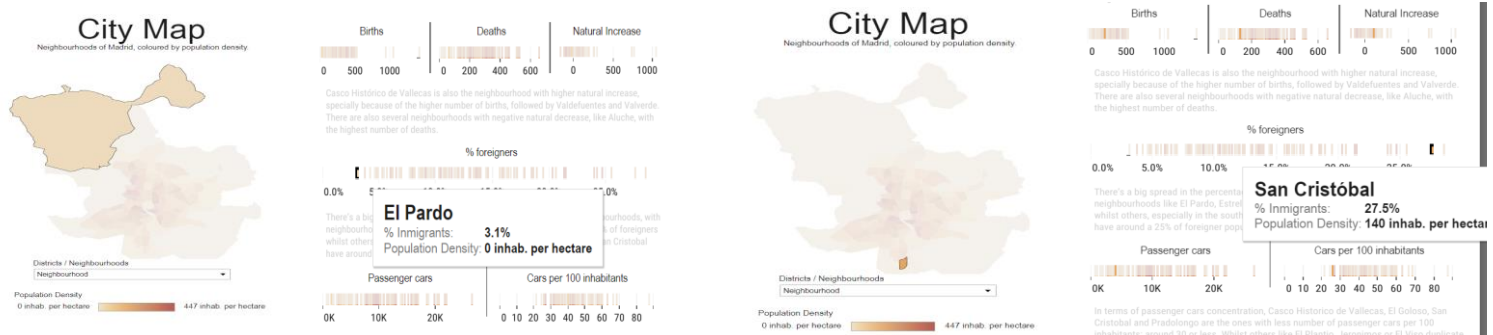

❖ **Insight 2: Passenger Cars and Population**

Regarding the concentration of passenger cars, Casco Historico de Vallecas, El Goloso, San Cristobal, and Pradolongo have the least number of passenger cars per 100 inhabitants (around 30 or less). Whilst others like El Plantio, Jeronimos, or El Viso have around 60 passenger cars per 100 inhabitants. El Plantio is worth a special mention for having almost 90 cars per 100 inhabitants.
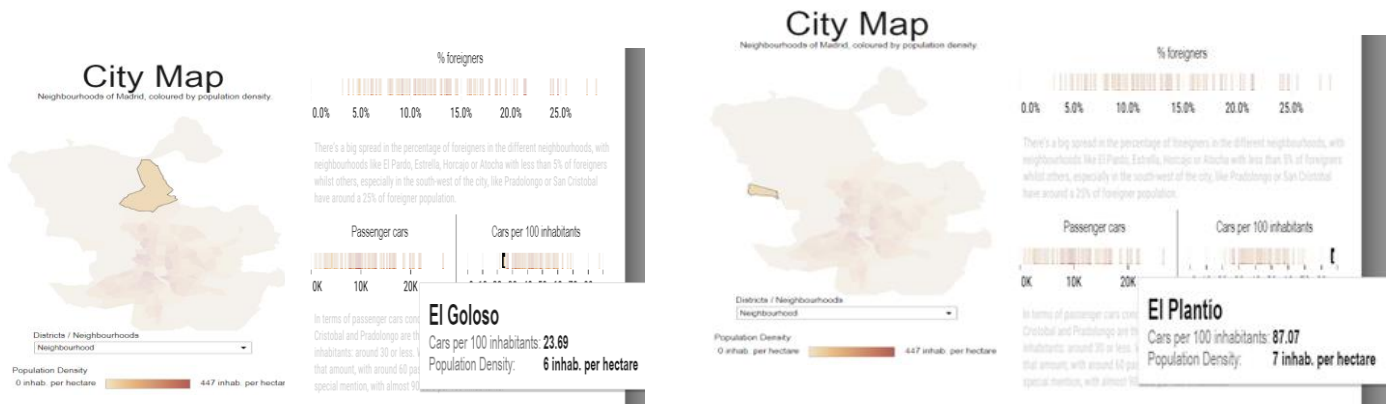
❖ **Insight 3: Relation between House Prices and Votes, and between House Prices and Passenger Cars.**

According to the dashboard, there is a relationship between house prices and votes in the 2015 elections to City Hall, and between house prices and passenger cars per 100 inhabitants. By clicking on the graphic of the relationship between house prices and votes, I could see that right-wing parties like Ciudadanos and PP have more votes in neighborhoods with the highest house prices, whereas left-wing parties like PSOE or Ahora Madrid have more votes in neighborhoods with the lowest house prices.
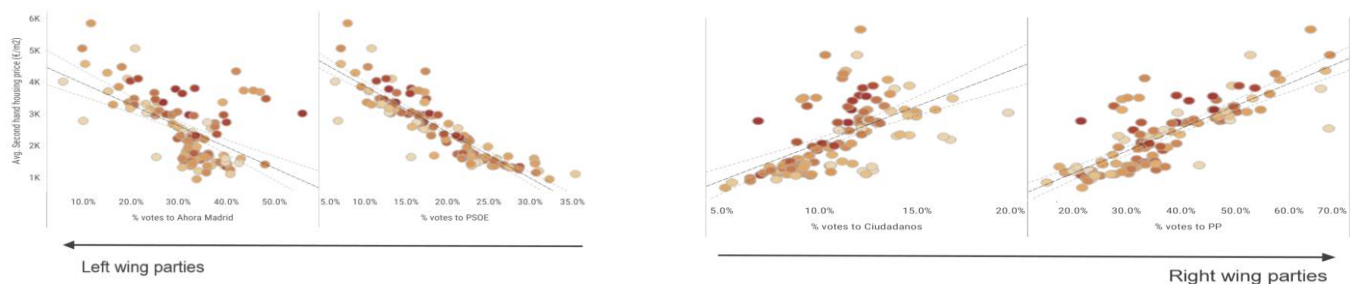
When I clicked on the graphic of the relation between house prices and passenger cars per 100 inhabitants, I could find that Recoletos neighborhood has the highest second-hand housing price and is one of the neighborhoods with the highest number of cars per 100 inhabitants.

Relation between house prices (€/m2) in 2015 and passenger cars per 100 inhabitants

Recoletos
Avg. Second hand housing price: **5,843**
Cars per 100 inhabitants: **68.12**
Population Density: **177 inhab. per hectare**