



World food production analysis

Federico Trotta

DATA VISUALIZATION PROJECT



Description of the project

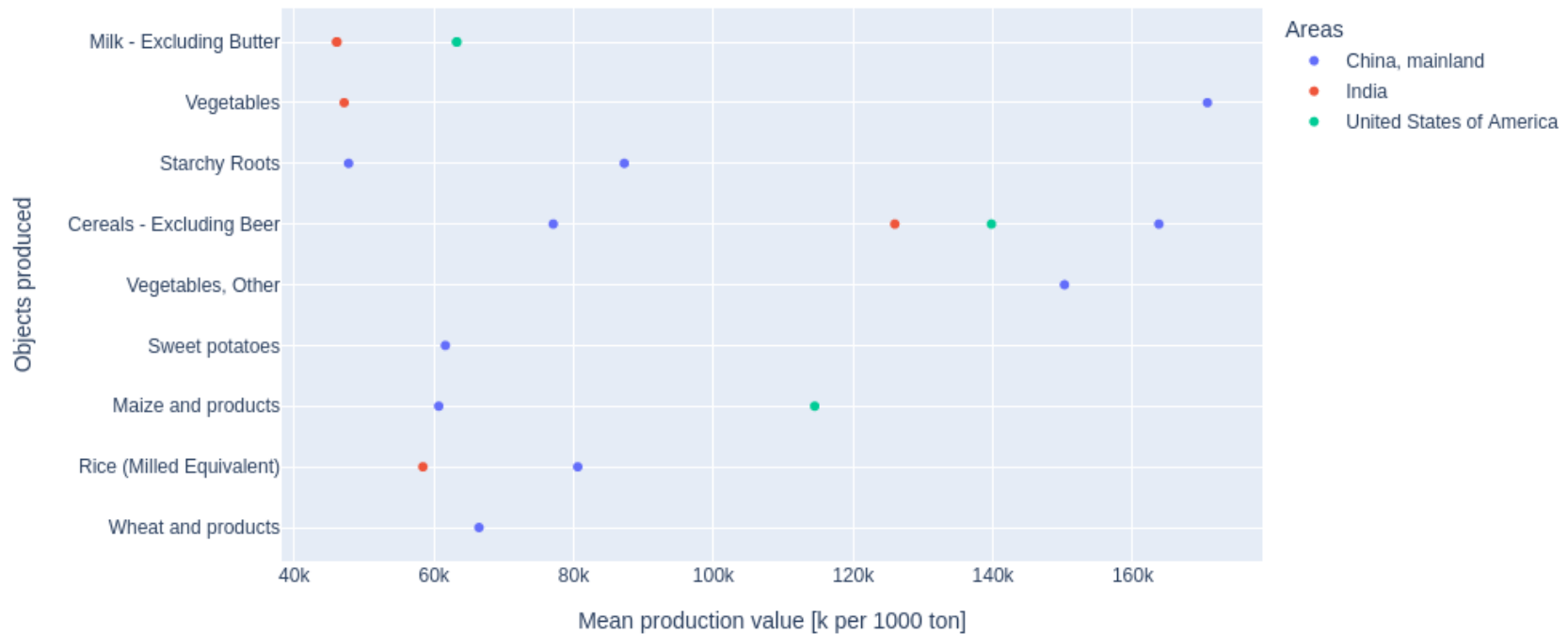
The specifics of the project were to compare the production of food to the pollution in producing it.

I was not satisfied, so I wanted to compare food production to population evolution and food waste.

Exploratory Data Analysis

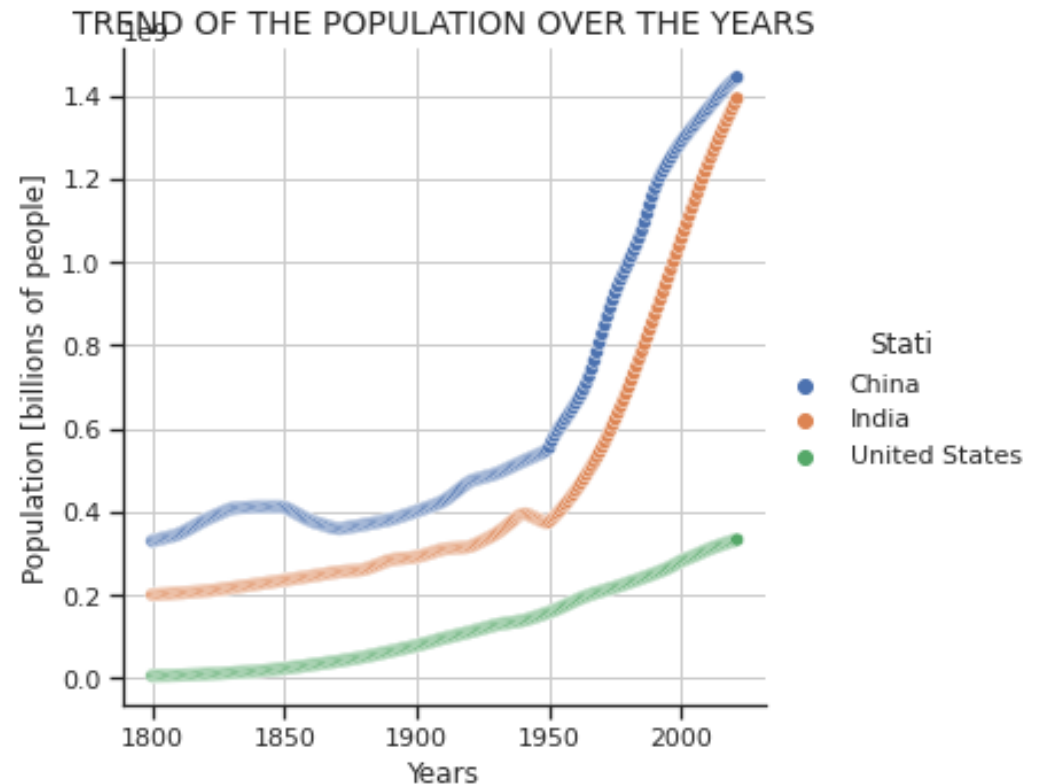
In the exploratory phase I discovered that the world's largest food production is in China, India, and the USA and is for human consumption

The location of the most produced products in the world



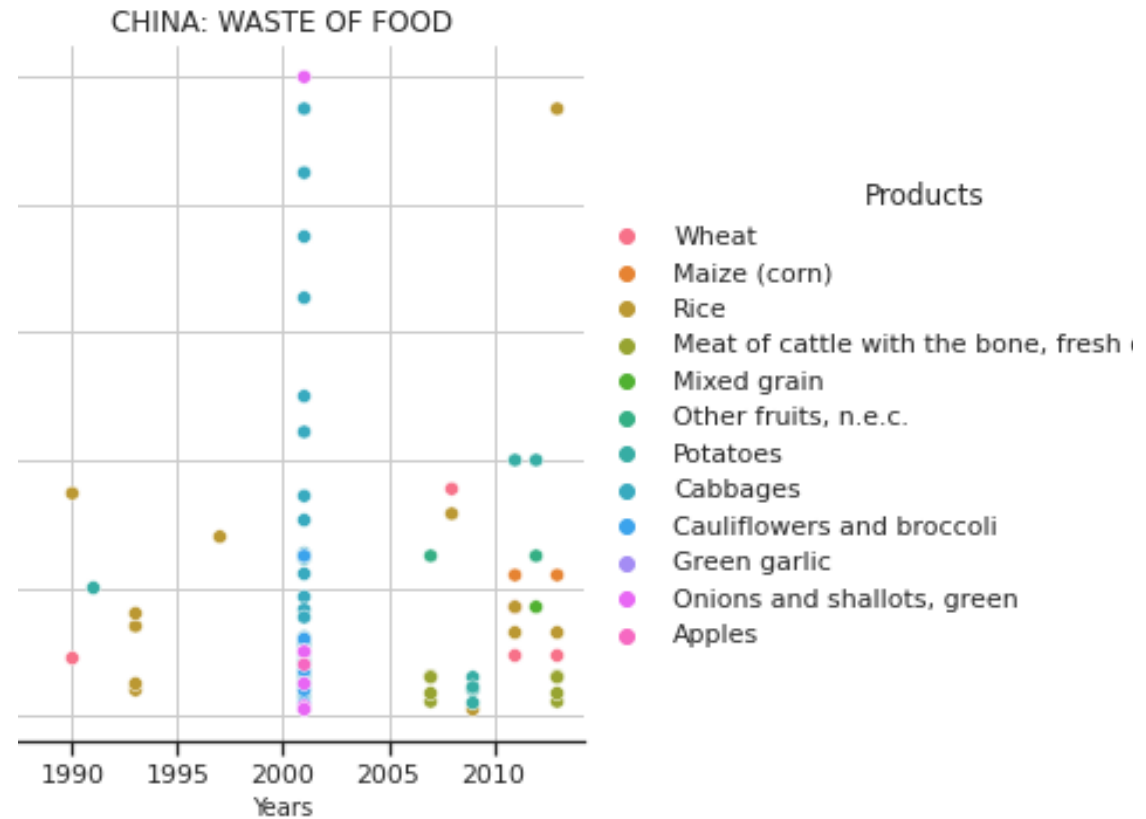
Population trend

In these three areas of the world the trend of the population over the years is growing; in particular, it is strongly growing in China and India, which justifies high food production



Waste analysis

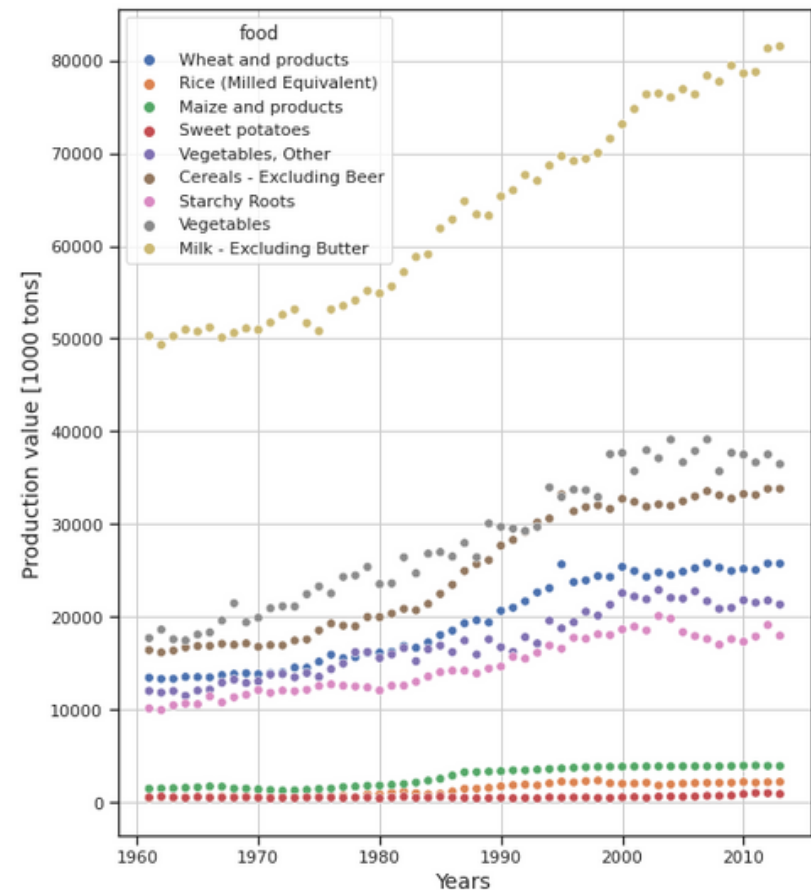
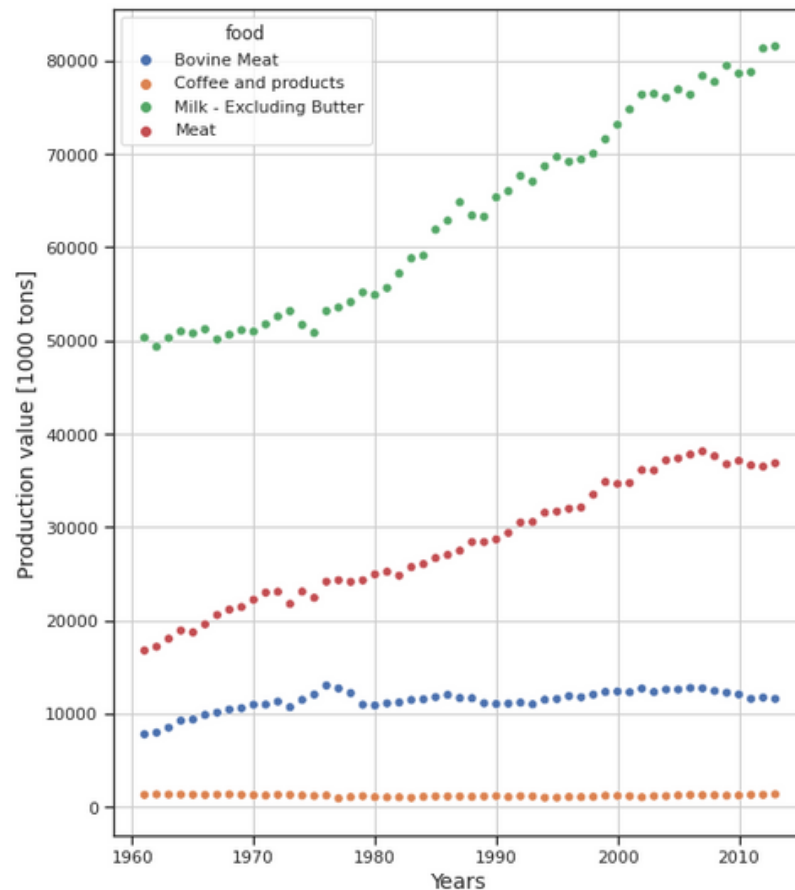
China was the one with the least waste of all, having practically zero in a few years



Comparison between the most produced and the most polluting foods

Only in the USA the most produced product is also the most polluting and it is milk

USA, FOOD PRODUCTS: THE MOST POLLUTING (L) VS THE MOST REALIZED (R)



Conclusions

In this project I was able to test myself in depth with visualizations and data analysis, carrying out in-depth Exploratory Data Analysis and Data Transformation.

The results of this study are:

- the largest food production in the world is for humans (and not for animals)
- the areas of maximum food production are India, China, and the USA
- large production, in general, does not coincide with population growth, so a lot of production is for export (for example, a large part of the milk produced in the USA is actually exported)
- not all products with the highest production are also the most polluting (except in the case of milk in the USA)
- in the USA and India, food waste is exorbitant. Considering, then, that the US is "the mirror of the West", we can realize how much food is wasted in the Western world.

