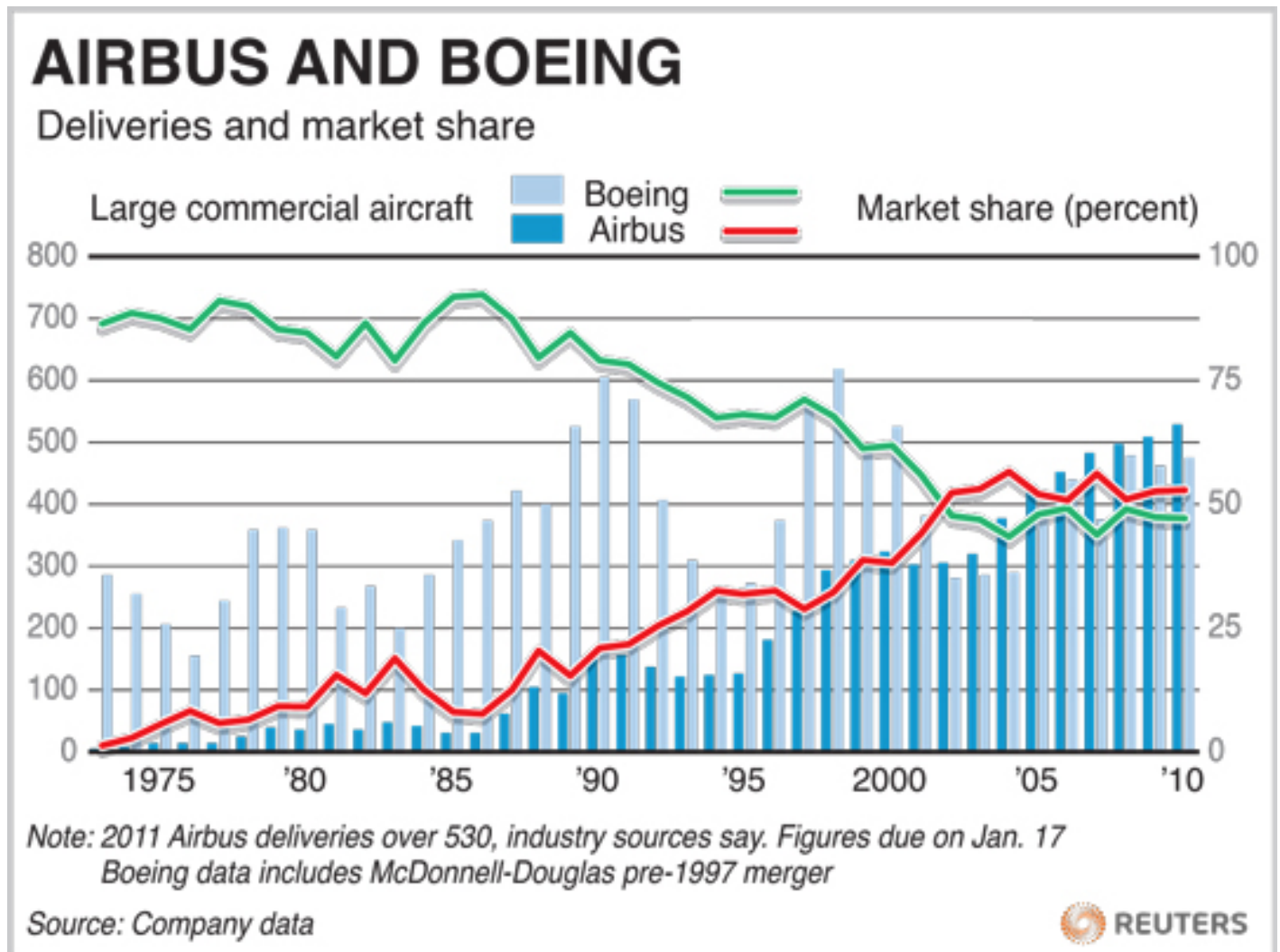# Toulouse Vs Seattle

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Coursera Applied Data Science Capstone Assignment

1. Description of the problem and discussion of the background

Airbus and Boeing are the two leader of the commercial aircraft industry. Each one is sharing about 50% of the this market.

AIRBUS AND BOEING
Deliveries and market share

Note: 2011 Airbus deliveries over 530, industry sources say. Figures due on Jan. 17
Boeing data includes McDonnell-Douglas pre-1997 merger

Source: Company data

Both competitors are fighting to be the One, designing and delivering the best aircraft regarding market acceptance. Aeronautics Industry is more than these two companies. A dense network of subcontractors has grown to leverage and support the industry.

Boeing biggest factory is based at Seattle (USA):

Airbus' one in Toulouse (France).

It will be interesting to compare the two cities, located on two distinct continents, to see if they have similar characteristics, and if the long distance in between can be compensated by the major industry that live there.

In a concrete way, the two competitors need and attractive city background to retain best talents. Results from this study should also be used to discuss with the respective cities governance some action plan to improve some neighborhood services offer.

2. Description of the data and how it will be used to solve the problem

To consider the problem we can list the data as below:

- First, we can find detailed information on cities neighborhoods from wikipedia, for Seattle (https://en.wikipedia.org/wiki/List_of_neighborhoods_in_Seattle (https://en.wikipedia.org/wiki/List_of_neighborhoods_in_Seattle)) and for Toulouse (https://fr.wikipedia.org/wiki/Quartiers_de_Toulouse (https://fr.wikipedia.org/wiki/Quartiers_de_Toulouse)).
- Then we can use GeoPy (https://geopy.readthedocs.io/en/stable/ (https://geopy.readthedocs.io/en/stable/)) to localize these neighborhoods.
- The foursquare API (https://developer.foursquare.com/ (https://developer.foursquare.com/)) can be used to gather venues informations.

All these information can be processed to analyze the two cities and to see if they sharing to the same structure or not.