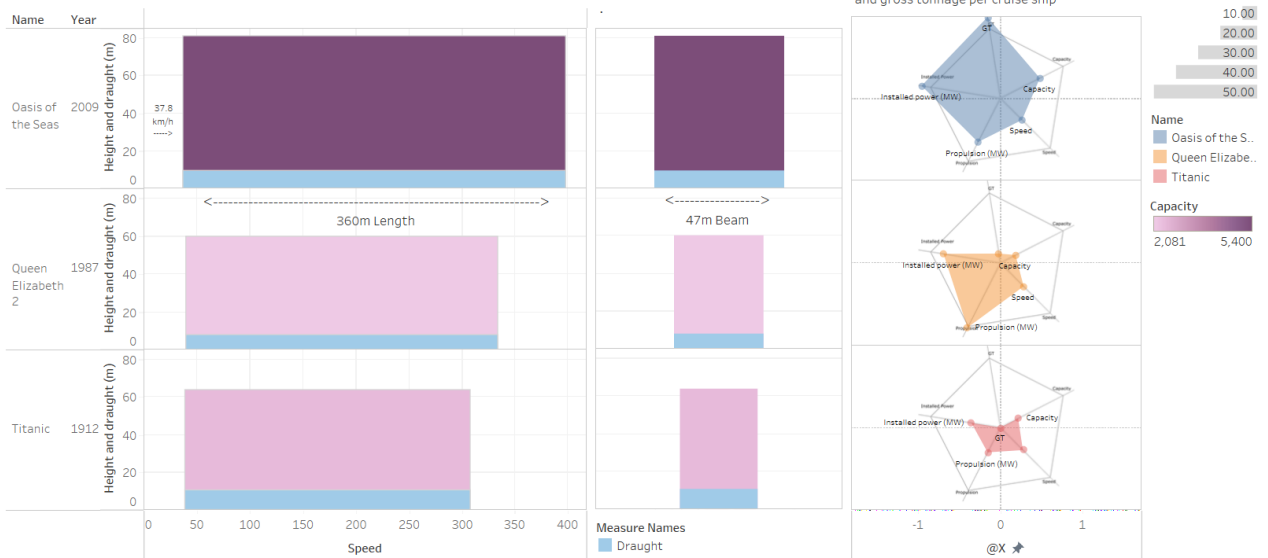# Globalisation DataViz Final Project

By:

Daan Doeleman (s2709465), Gijs de Waal (s2633779), Luuk Wessels (s2859556), Arthur van den Torre (s2688204), Casper ten Holder (s2843765), Luka van Hoeven (s2849119)

Visualisations

1 - Casper, Water transport

My own made dataset for development of cruise ships:
https://drive.google.com/drive/folders/1tBUwtW6vMqEoay8nLSJbWYJ7FLCmprwe?usp=sharing

Datasets used to make this visualization;

RMS Titanic facts | Royal Museums Greenwich (rmg.co.uk)

Wayback Machine (archive.org)

DNV Vessel Register

fichatecnica.pdf (logitravel.co.uk)

https://en.wikipedia.org/wiki/Titanic

https://en.wikipedia.org/wiki/Queen_Elizabeth_2

https://en.wikipedia.org/wiki/Oasis_of_the_Seas

2 - Casper, Water transport

Total import/export metric tonnage of cargo through seaborne transportation from 2015 to 2022 per country

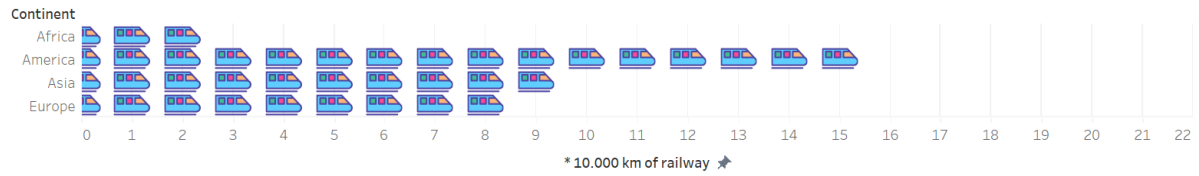World total import/export metric tonnage of cargo Through seaborne transportation from 2015 to 2022
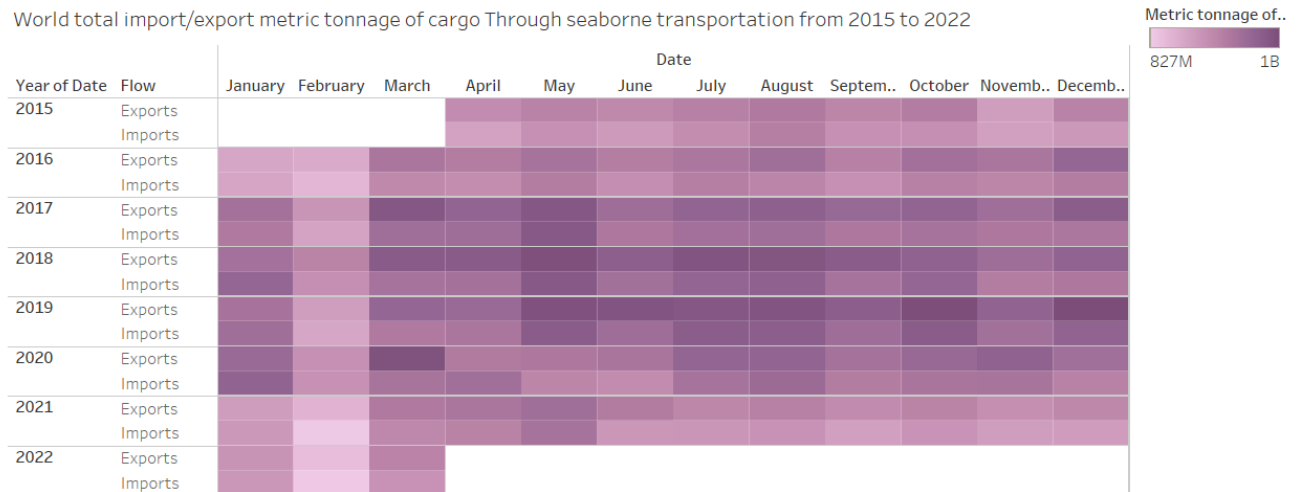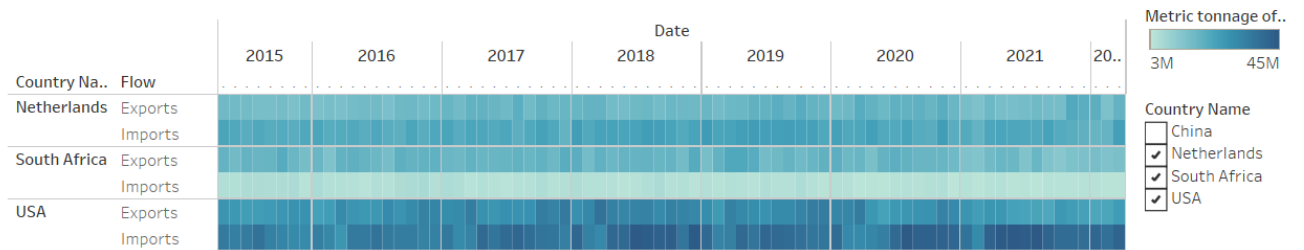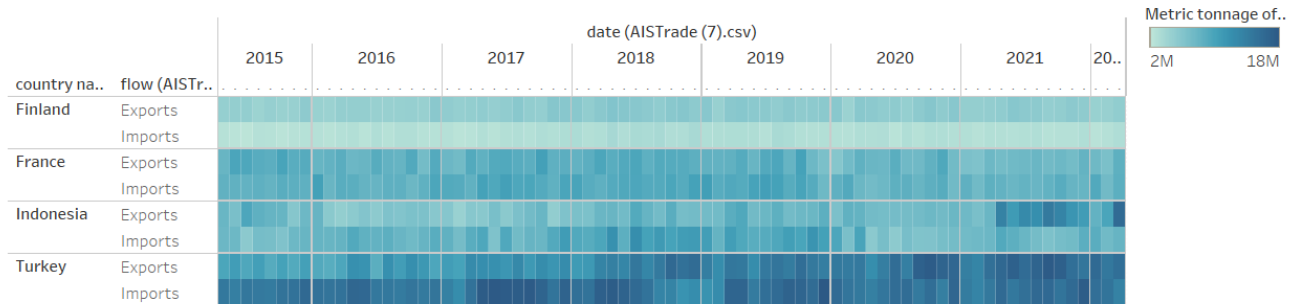
Download AIS data | UN Comtrade: International Trade Statistics

3 - Luka, Rail transport

World railway in km

Index for each Continent. Details are shown for Km of railway .The data is filtered on sum of Km of railwayandYear Year.The sum of Km of railway filter keeps non-Null values only.The Year Year filter keeps 2018.The view is filtered on Continent, which excludes NullandOceania.

In tableau there is an interactive slider which lets you select the year 1995-2021 and it shows the data from that year.

Rail lines (total route-km) | Data (worldbank.org)

4 - Luka, Rail transport

Transport of humans and goods
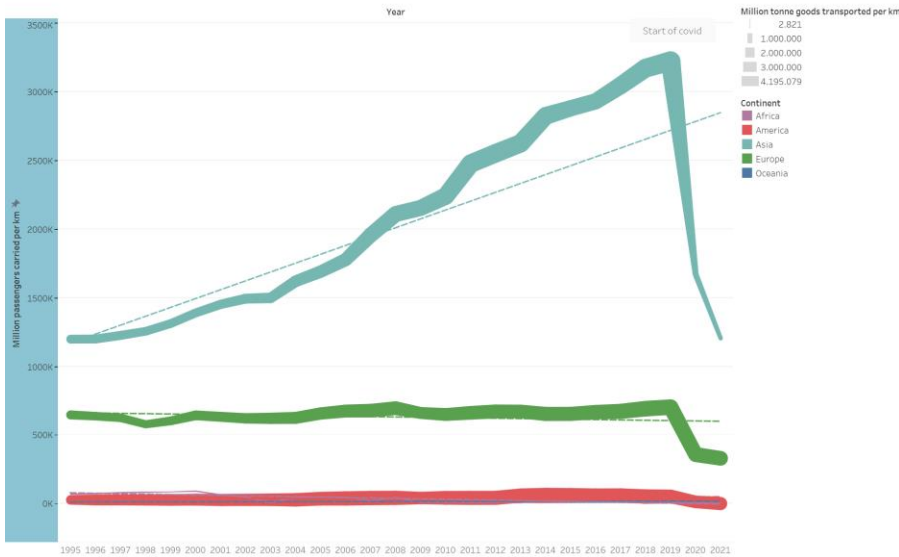
The trend of sum of Milliopn passengers carried per km (Data+ (Multiple Connections)_Da+ (Multiple Connections)) for Year Year. Colour shows details about Continent. Size shows sum of Million tonne transported per km.The view is filtered on Continent, which excludes Null.
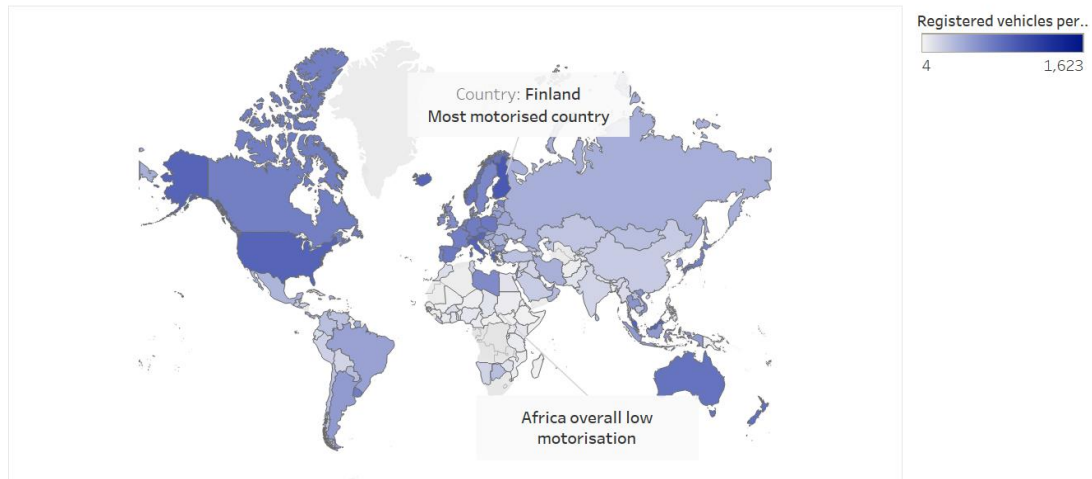
Railways, goods transported (million ton-km) | Data (worldbank.org)
Railways, passengers carried (million passenger-km) | Data (worldbank.org)

5 - Arthur, Motorisation
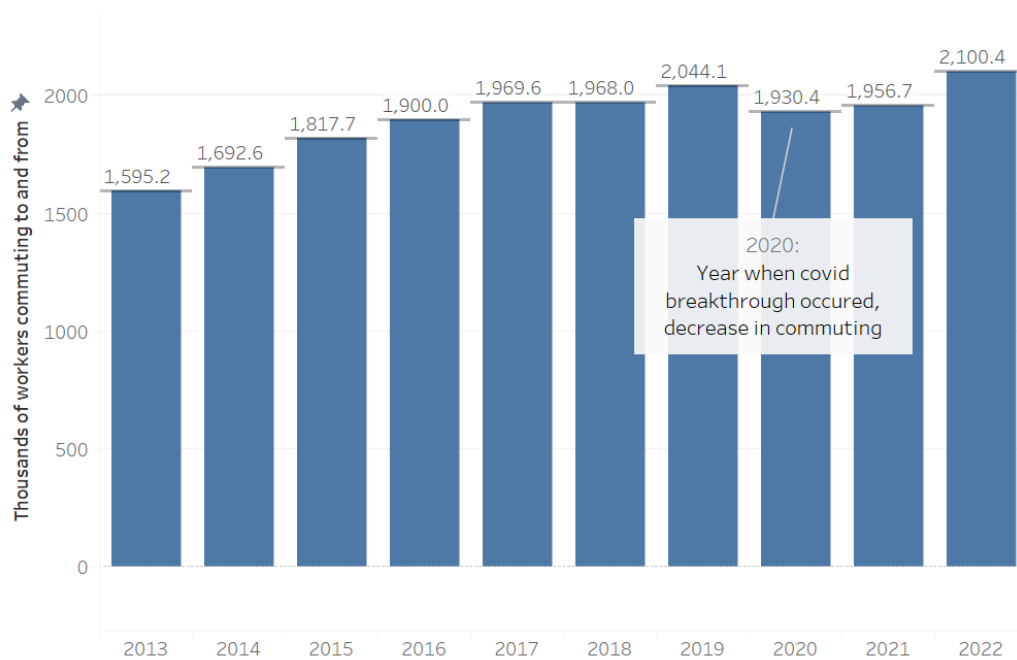https://www.oica.net/world-vehicles-in-use-all-vehicles/

6 - Arthur, Commuting

https://ec.europa.eu/eurostat/web/products-eurostat-news/-/ddn-20210610-1

7 - Gijs, Aviation
Own JSON file to make network graph + combined dataset:

Aviation network Gijs - Google Drive

Datasets:
Flight Route Database | Kaggle
List of busiest airports in North America - Wikipedia
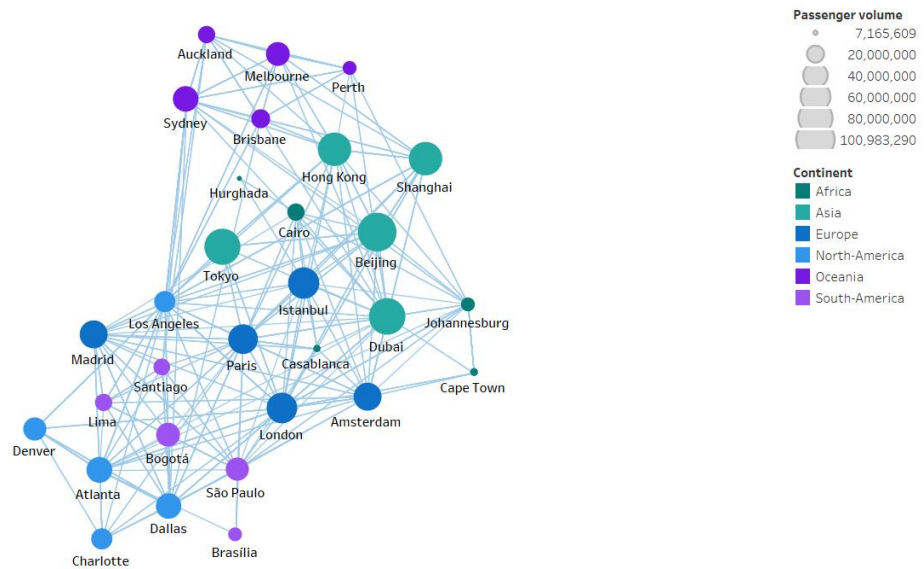List of the busiest airports in South America - Wikipedia
List of the busiest airports in Asia - Wikipedia
List of the busiest airports in Oceania - Wikipedia
OpenFlights: Airport and airline data
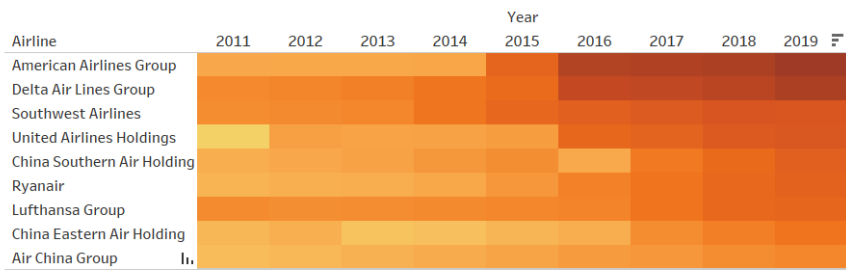https://www.kaggle.com/datasets/statchaitya/country-to-continent

5 busiest airports per continent and their inter-connectedness

Longitude (generated) vs. Latitude (generated). For marks layer Nodes.csv.Nodes Point: Details are shown for Index (Links.Csv) and Highlight. For marks layer Nodes.csv.Nodes Point (2): Color shows details about Continents. Size shows sum of Size. The marks are labeled by Id. Details are shown for Id and Highlight. For marks layer Nodes.csv.Nodes border: Details are shown for Index (Links.Csv). The view is filtered on Continents, which excludes -1, -2, -3 and -4.

8 - Gijs, Aviation

Passenger volume of the largest airlines
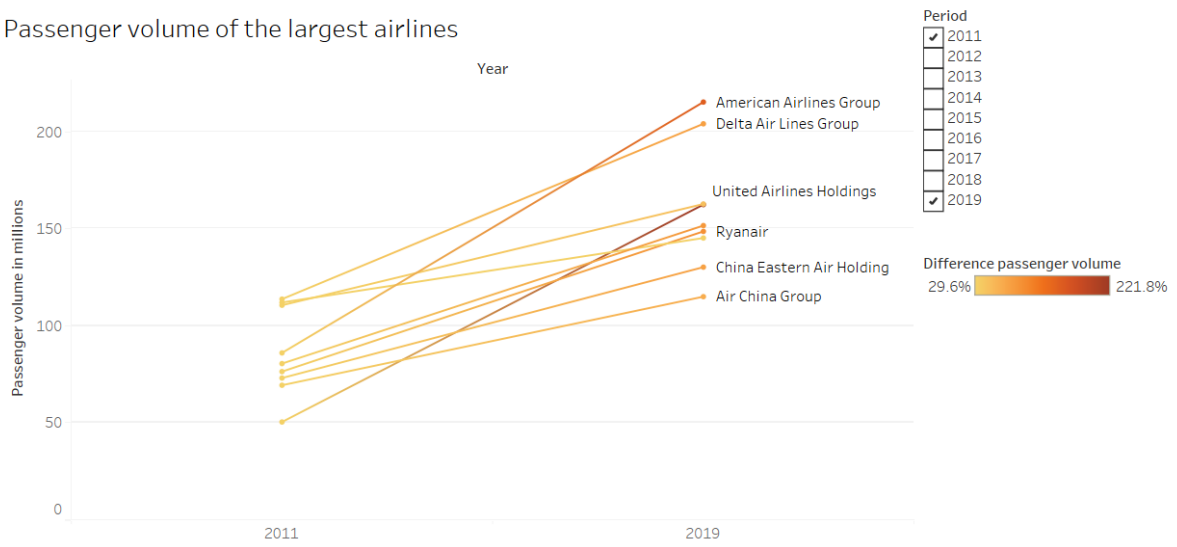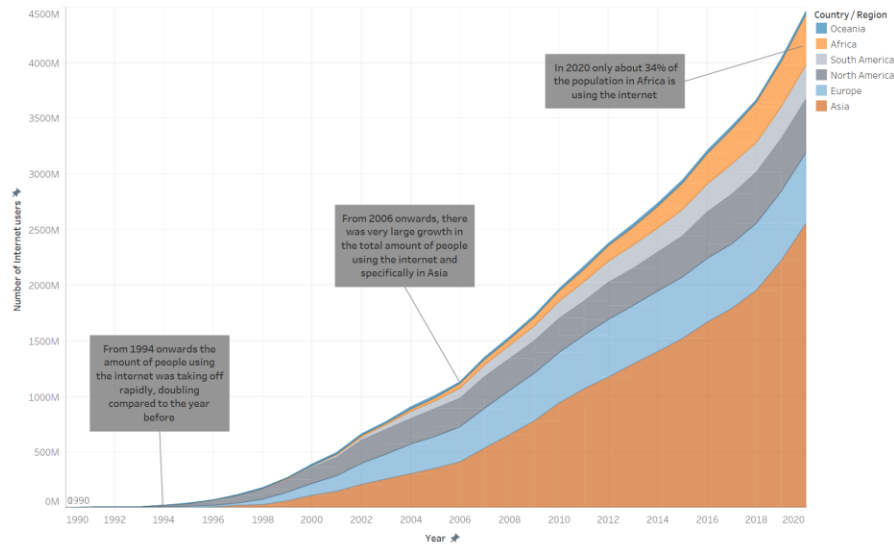
Year

Period
✔ 2011
☐ 2012
☐ 2013
☐ 2014
☐ 2015
☐ 2016
☐ 2017
☐ 2018
✔ 2019

Passenger volume in millions

- American Airlines Group
- Delta Air Lines Group
- United Airlines Holdings
- Ryanair
- China Eastern Air Holding
- Air China Group

2011   2019

Difference passenger volume
29.6%   221.8%

Year

Airline	2011	2012	2013	2014	2015	2016	2017	2018	2019
American Airlines Group									
Delta Air Lines Group									
Southwest Airlines									
United Airlines Holdings									
China Southern Air Holding									
Ryanair									
Lufthansa Group									
China Eastern Air Holding									
Air China Group									

9 - Luuk, The internet

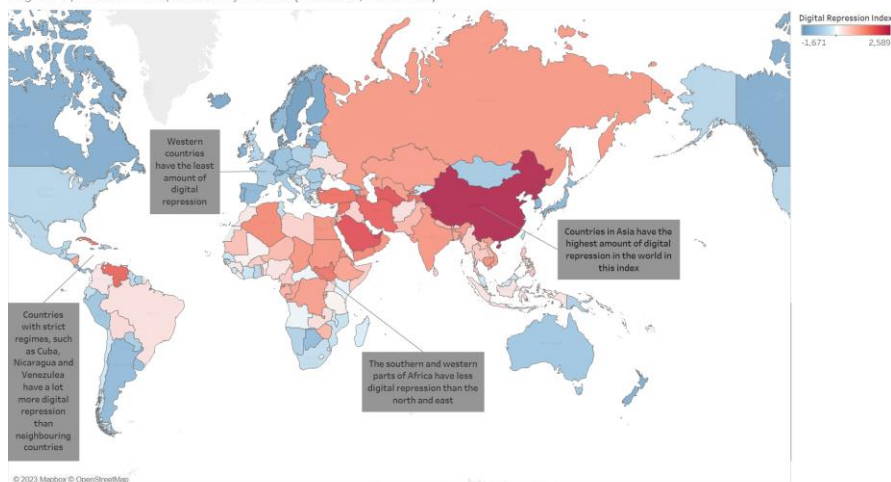Area graph: Number of people connected to the internet from 1990-2020
Hannah Ritchie, Edouard Mathieu, Max Roser and Esteban Ortiz-Ospina (2023) - "Internet". Published online at OurWorldInData.org. Retrieved from: 'Number of people using the Internet (ourworldindata.org)' [Online Resource]
World Population Growth - Our World in Data

10 - Luuk, The internet

World map with intensity: Digital repression index (2019)
2019 Digital Repression Index - Mendeley Data

This map also has an interactive slider which controls the Digital repression index, so you can sort the map to get an overview of only a specific amount of Digital repression.

Passengers transported per category in 2013
The size of the circle represents the total number of passengers per 100.000 residents of a country
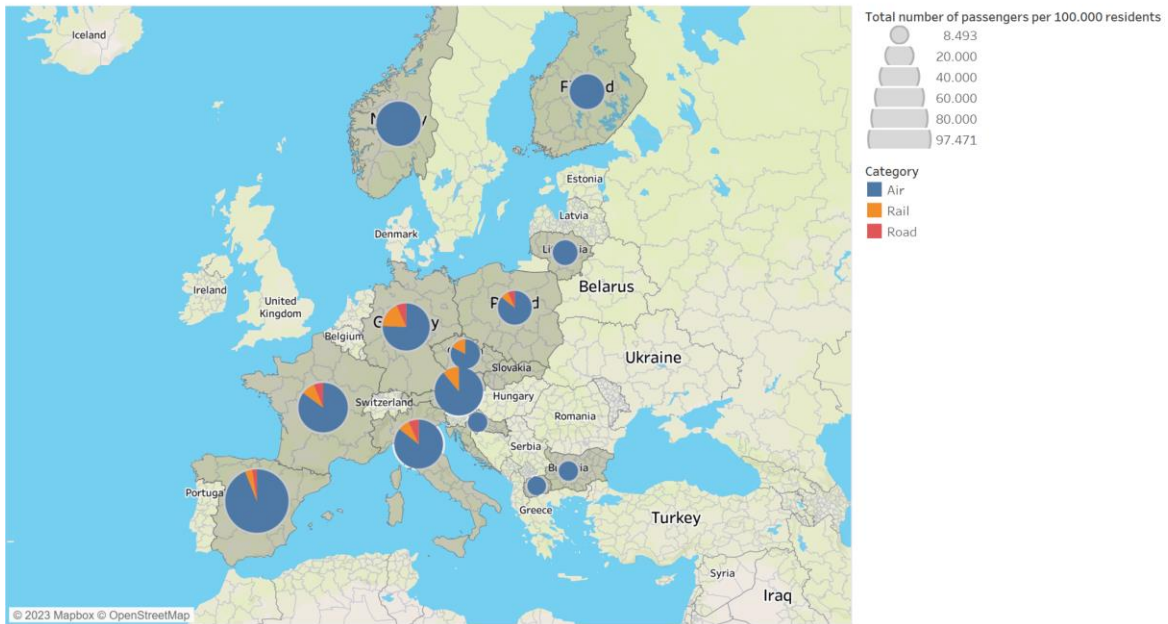
Map based on Longitude (generated) and Latitude (generated) and Latitude (generated). Details are shown for Country. For pane Latitude (generated) (2): Color shows details about Category. Size shows sum of Total number of passengers per 100.000 residents. The data is filtered on Total passengers and Total number of passengers per 100.000 residents. The Total passengers filter ranges from 149.959,7 to 15.406.945. The Total number of passengers per 100.000 residents filter ranges from 7113,851992410 to 47689,201183432.

Passengers transported per category in 2013 (excluding air travel)
The size of the circle represents the total number of passengers per 100.000 residents of a country
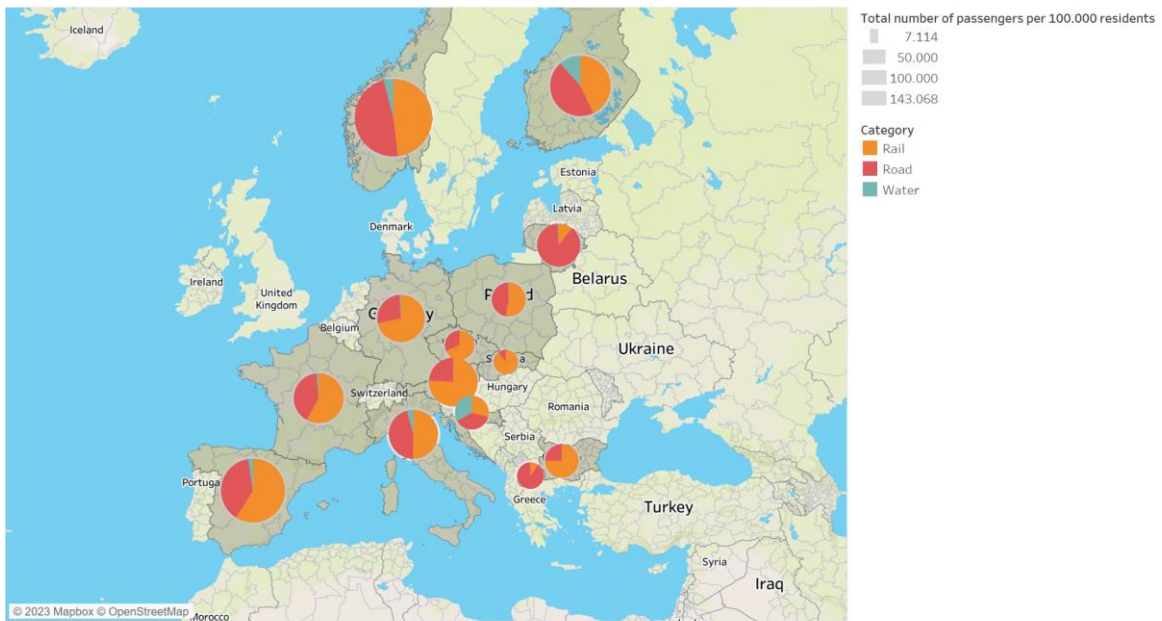
Map based on Longitude (generated) and Latitude (generated) and Latitude (generated). Size shows sum of Total number of passengers per 100.000 residents. Details are shown for Country. For pane Latitude (generated) (2): Color shows details about Category. The data is filtered on Total number of passengers per 100.000 residents, which ranges from 7113,851992410 to 47689,201183432. The view is filtered on Category, Latitude (generated) and Longitude (generated). The Category filter excludes Air. The Latitude (generated) filter keeps non-Null values only. The Longitude (generated) filter keeps non-Null values only.

In tableau there is also an interactive slider for both visualisations which allow you to select a certain range of travellers per 100.000 residents. In that way you can for example exclude the smaller sized circles and only show the larger ones.

Number of air, rail and road passengers within Europe: Eurostat transport database
Number of residents per country: Population, total | Data (worldbank.org)

12 - Daan, Globalisation/combined

Airport connections across the world in 2012
Each line represents one direct flight connection between two airports


© 2023 Mapbox © OpenStreetMap

Map based on Longitude (generated) and Latitude (generated). The data is filtered on Distance, which ranges from 0 to 9993,666352965.

In tableau there is also an interactive slider which allows you to select flights of only a certain range of distances. In that way you can for example only show shorter or longer flights.

Locations of airports, stations and ports across the world in 2017
Each dot represents one airport, station or port, dependent on their color

Category
- port
- station
- airport

© 2023 Mapbox © OpenStreetMap
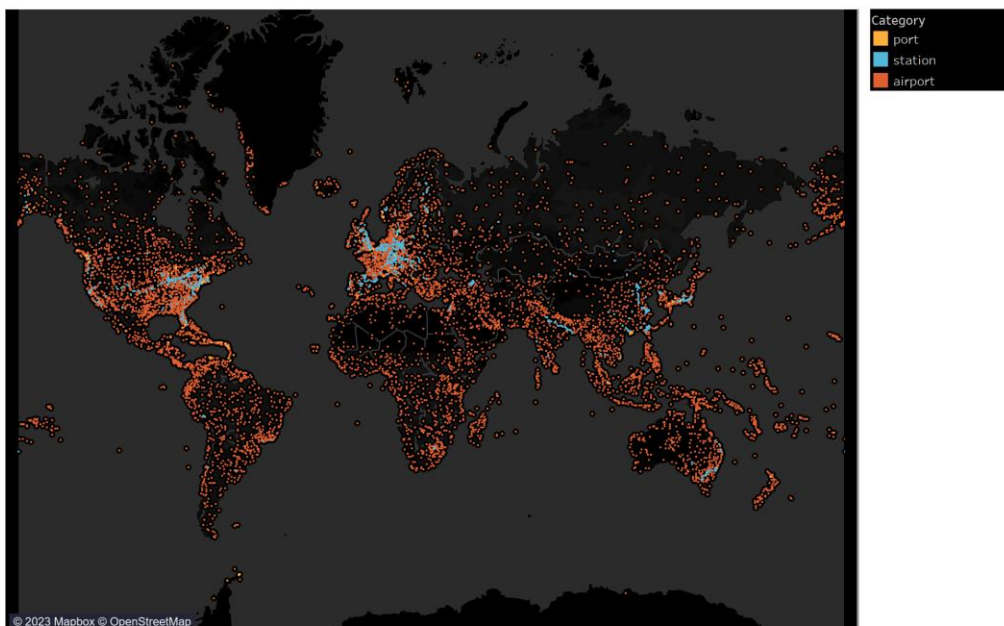
Map based on Longitude and Latitude. Color shows details about Category. The view is filtered on Category, which keeps airport, port and station.

Flight routes across the world: [Flight Route Database | Kaggle](#)
Airport, port and railway locations: [Airports, Train Stations, and Ferry Terminals | Kaggle](#)
All datasets combined in Google Drive: [Link to the drive](#)