Transport Statistics Activities

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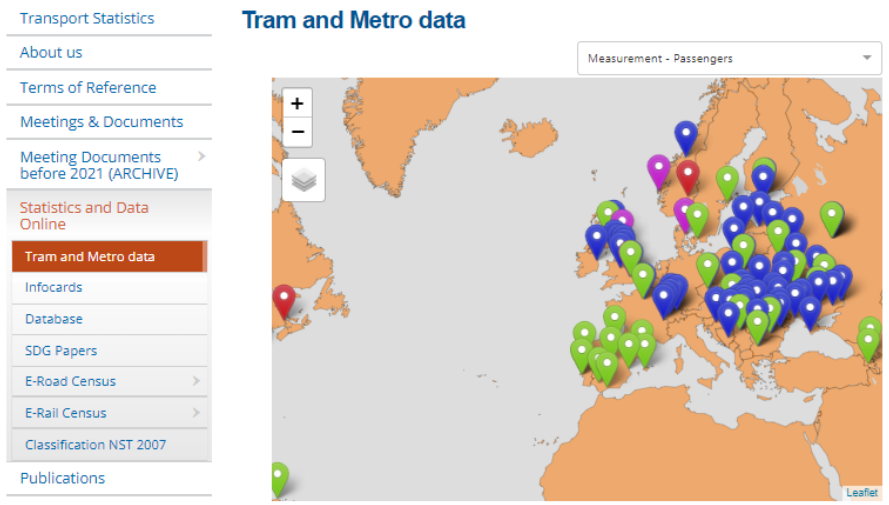
Secretary, Working Party on Transport Statistics (WP.6)

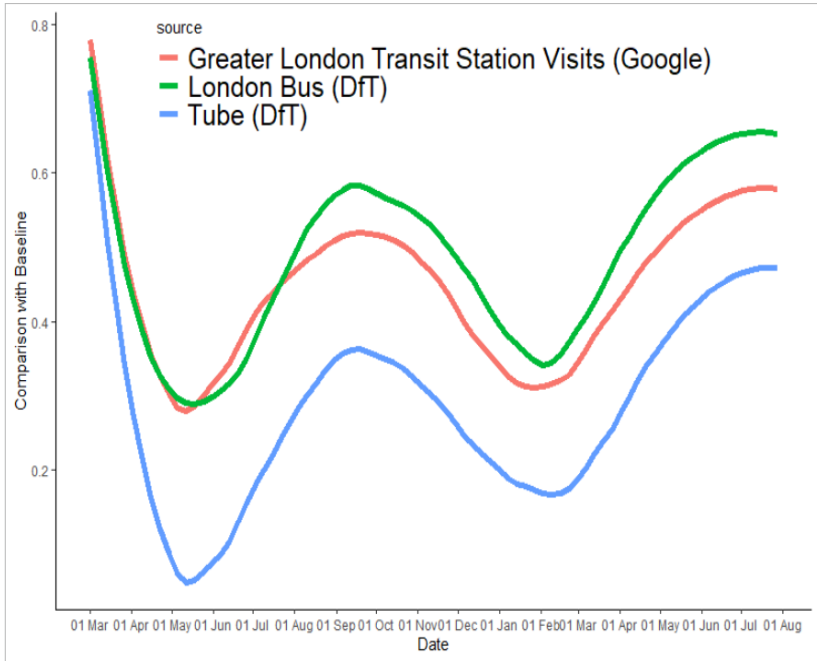
Presentation to Working Party on Transport Trends and Economics.
Geneva, 15-17 September 2021



The above map shows data availability for tram and metro systems collected by UNECE, focussing on total passenger numbers by city (or region). The map can viewed in fullscreen here.

These data were collected in a pilot questionnaire, asking for passenger numbers and passenger-km, maintaining the city (or regional) breakdown.**The full dataset can be downloaded as a CSV file here,** and metadata on the file structure and country notes (including on data collection methods) are available **here**. These data were updated 1 April 2021.

During the COVID-19 pandemic, **quarterly data** were collected as a way to quantify the impact of lockdowns in different cities. The dataset is available here. Depending on user needs and the reporting burden of this exercise, the data may be updated in the future.



UNECE

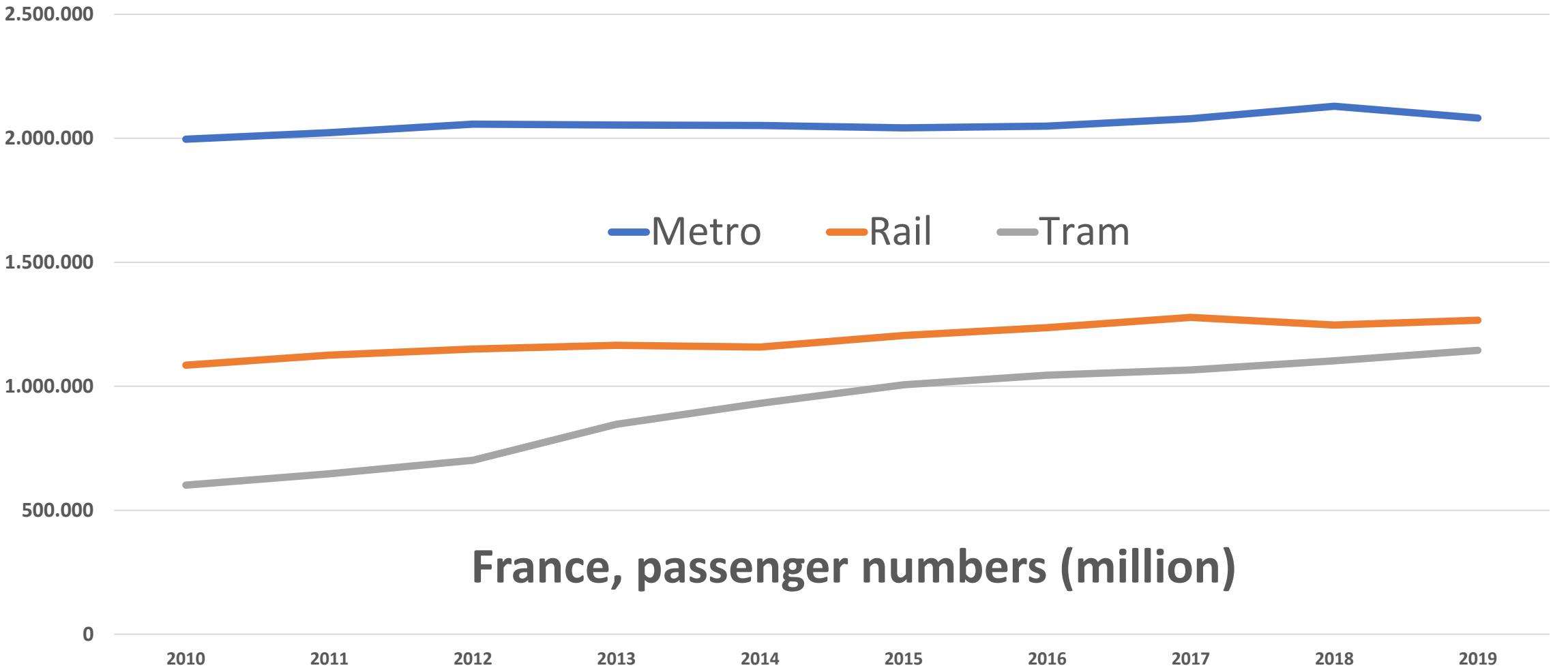
Focus

- Urban transport statistics
- Impact of COVID-19
- Traffic censuses and visualization
- Data visualization & Dashboards

Motivation

- Understanding urban mobility crucial to SDGs.
- City-specific data lose value when combined.
- No tram or metro statistics collected at the international level.
- Data for buses are hard to split between urban and inter-urban. Tram and metros don’t have this problem.
- Timely public transport data currently **high value** in post-lockdown world.

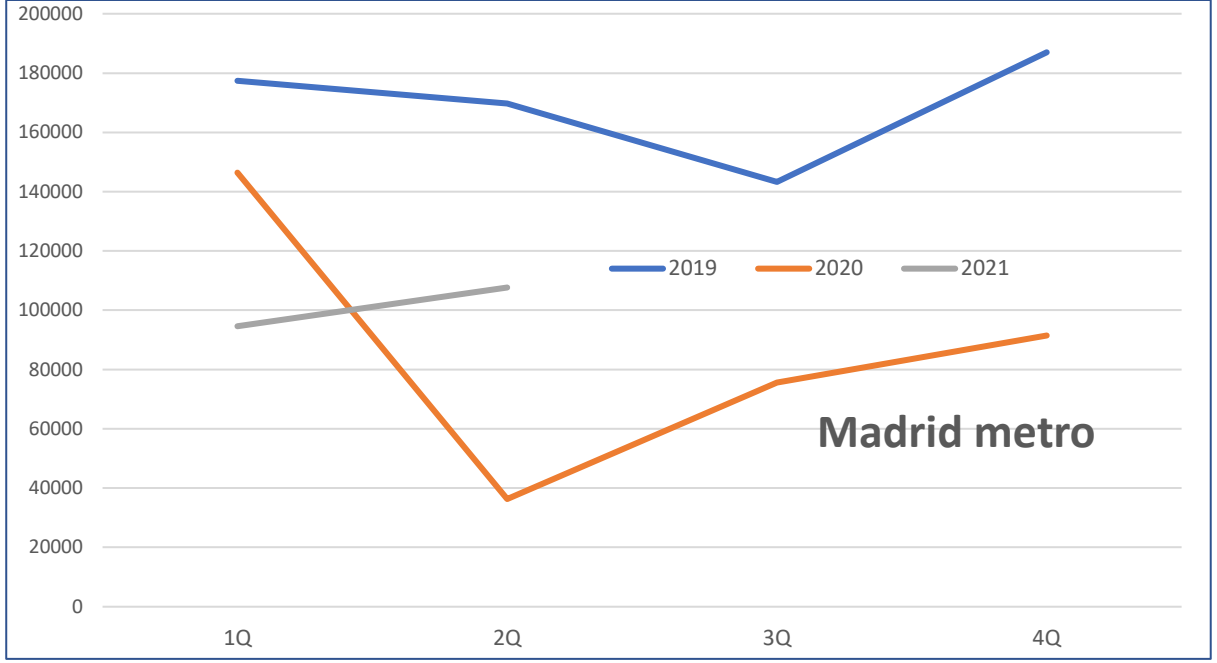
Metros and trams: important for everyday mobility

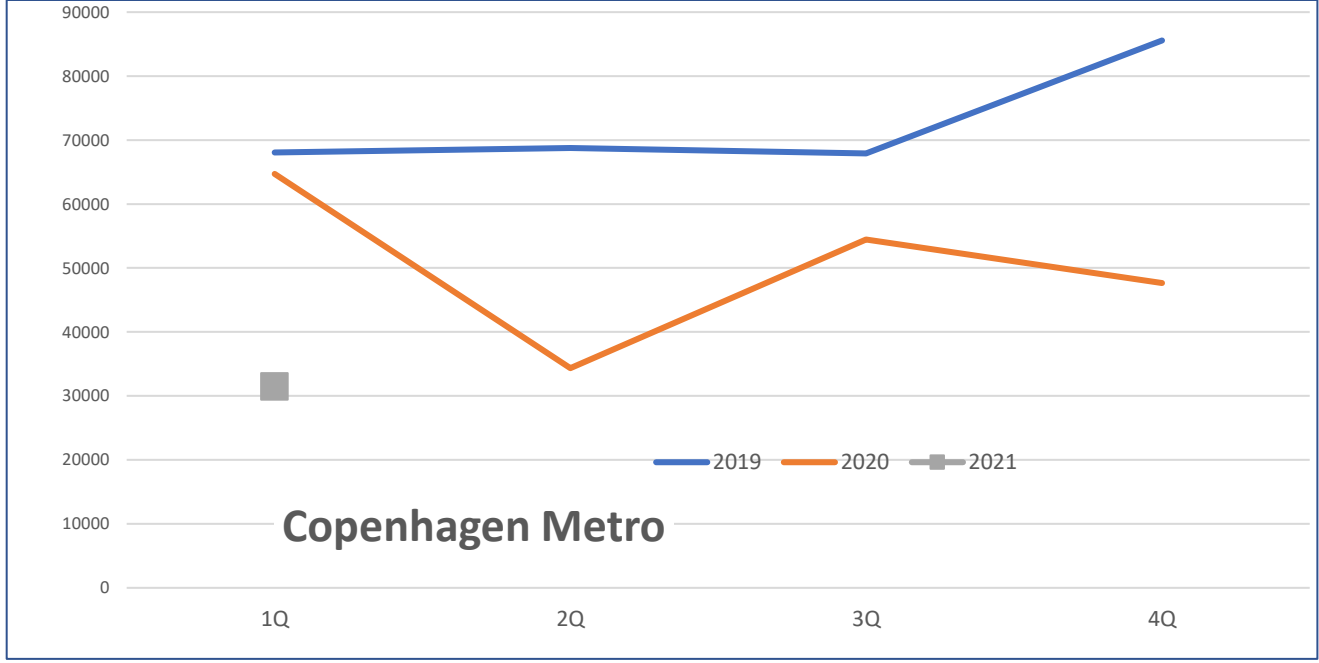


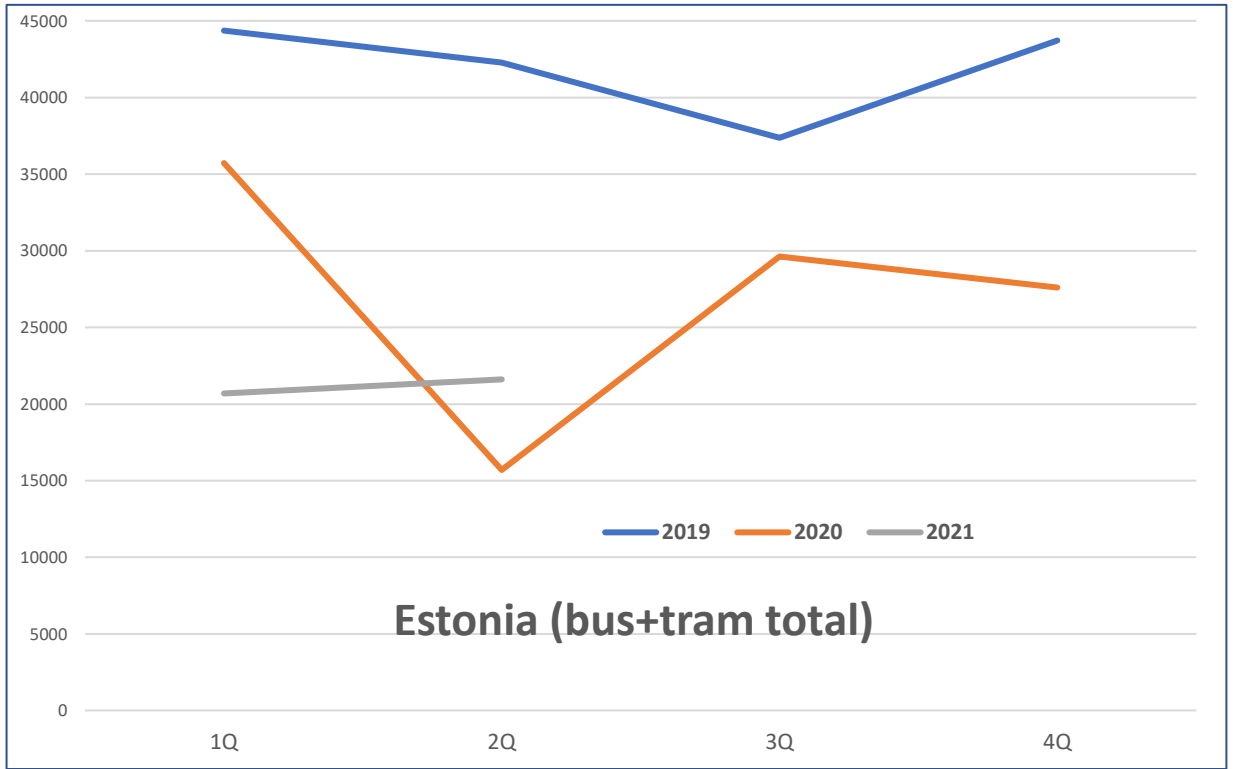
France, passenger numbers (million)

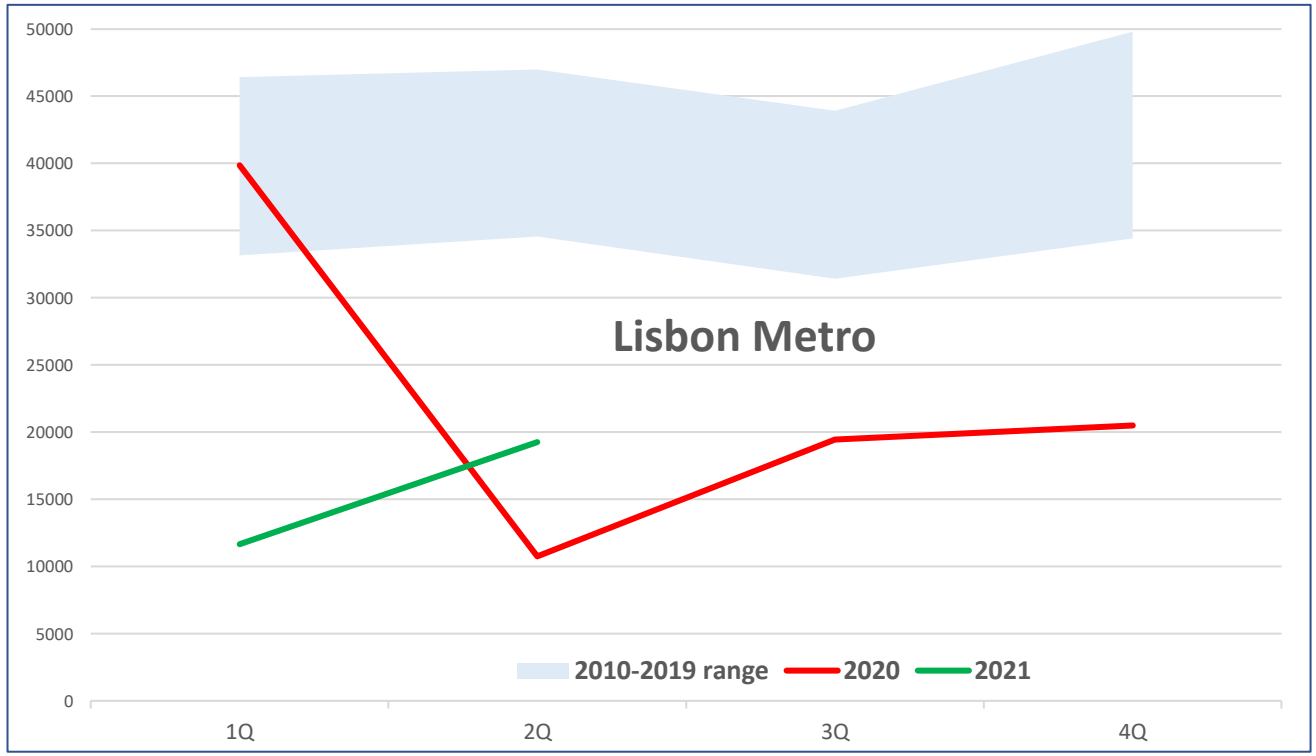
https://unece.org/tram-and-metro-data

- Data are SIMPLE: passenger numbers and passenger-km, for each system.
- Current data availability: **27 countries, 143 cities**.
- Now trying to automate collection of quarterly data…

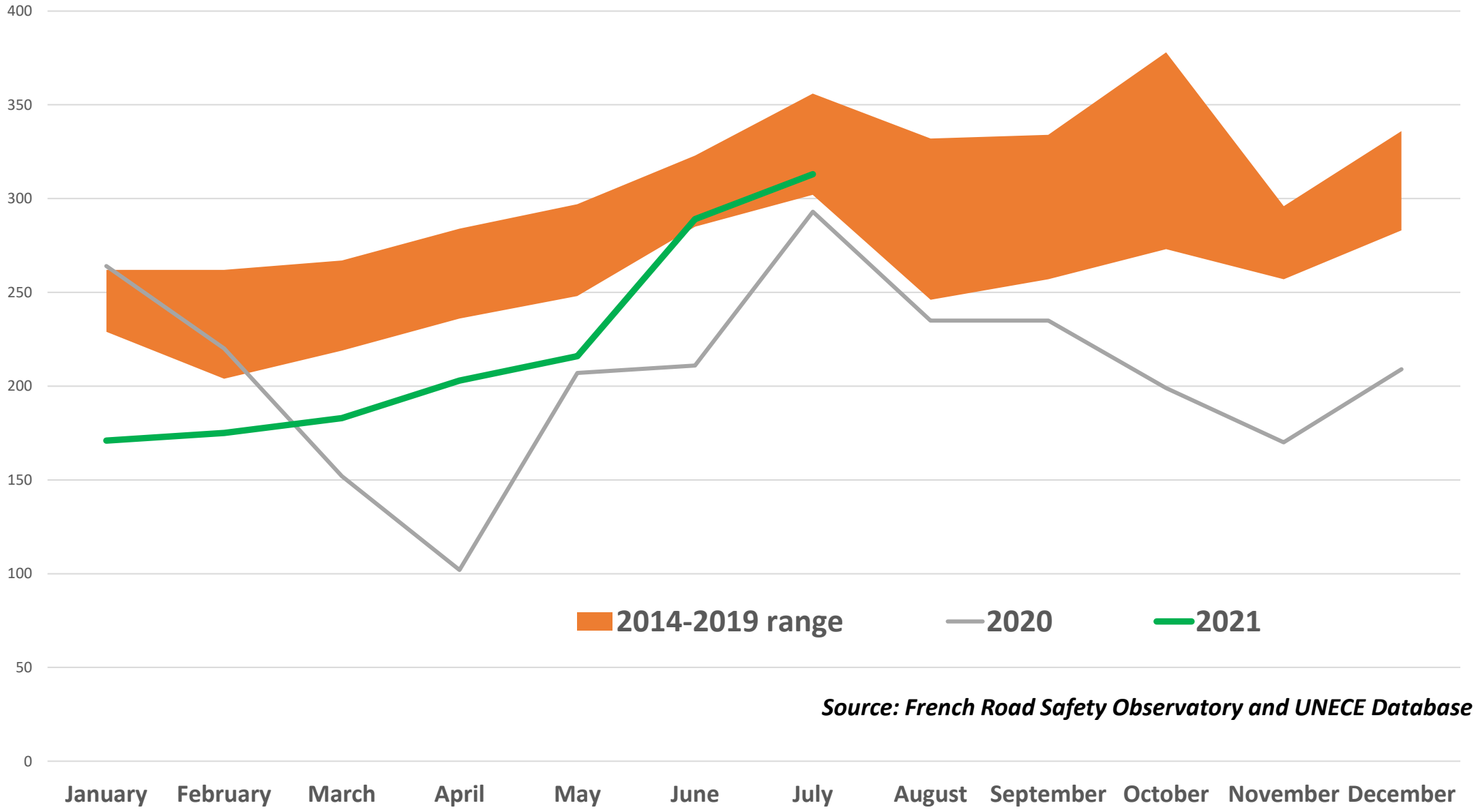

200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0
2019
2020
2021
Madrid metro
1Q
2Q
3Q
4Q


90000
80000
70000
60000
50000
40000
30000
20000
10000
0
2019
2020
2021
Copenhagen Metro
1Q
2Q
3Q
4Q

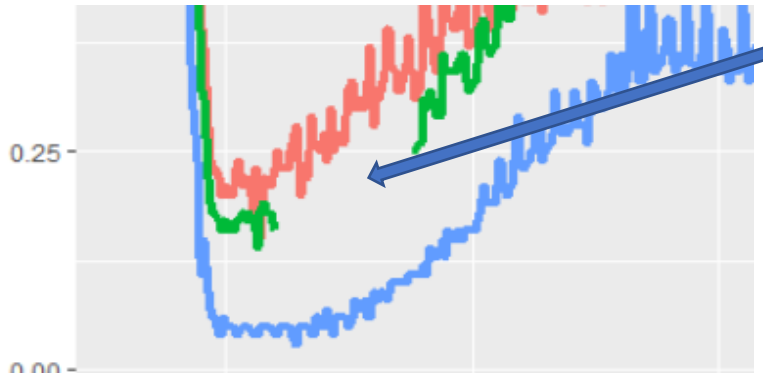

45000
40000
35000
30000
25000
20000
15000
10000
5000
0
2019
2020
2021
Estonia (bus+tram total)
1Q
2Q
3Q
4Q

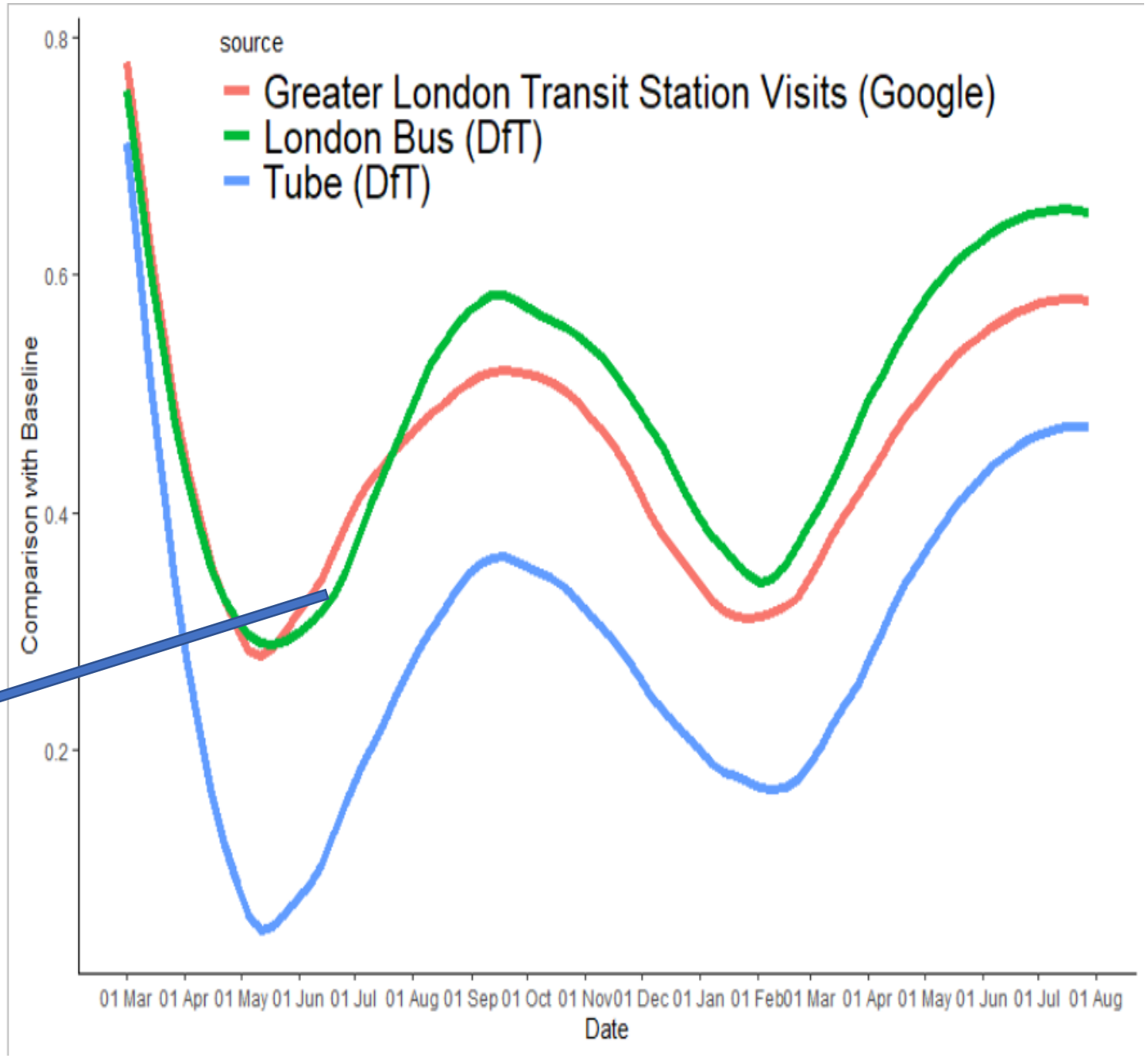

50000
45000
40000
35000
30000
25000
20000
15000
10000
5000
0
Lisbon Metro
2010-2019 range
2020
2021
1Q
2Q
3Q
4Q

Covid Impact: Road fatalities, France



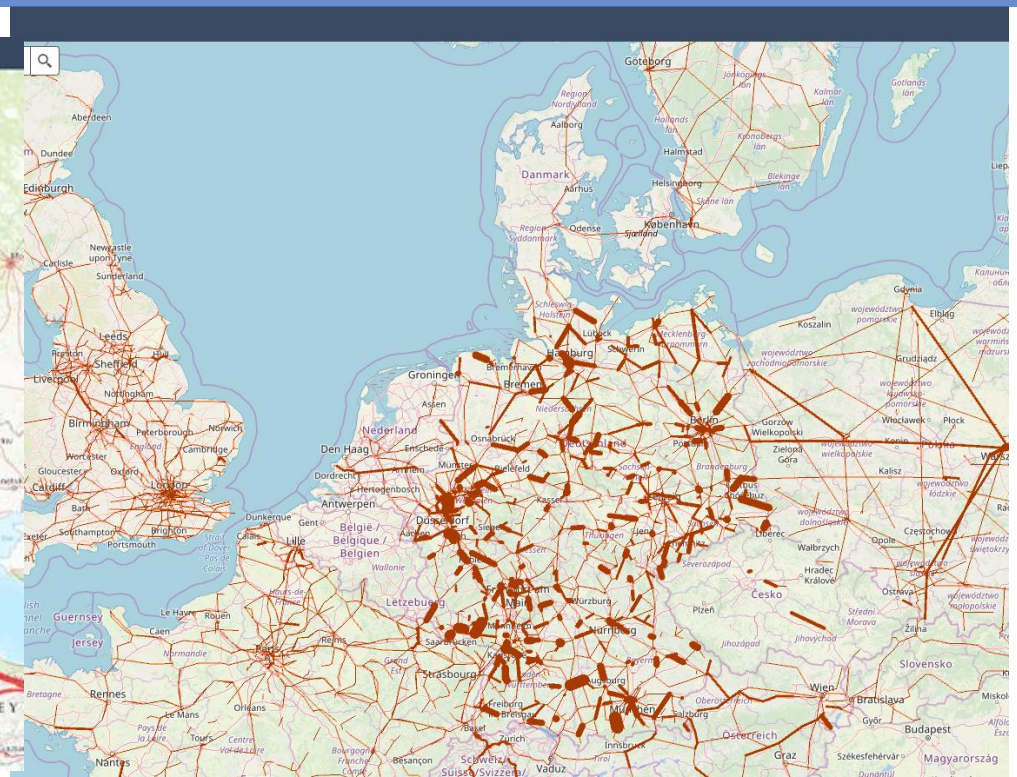
Source: French Road Safety Observatory and UNECE Database


0.25
0.00


source
Greater London Transit Station Visits (Google)
London Bus (DfT)
Tube (DfT)
Comparison with Baseline
0.8
0.6
0.4
0.2
01 Mar 01 Apr 01 May 01 Jun 01 Jul 01 Aug 01 Sep 01 Oct 01 Nov 01 Dec 01 Jan 01 Feb 01 Mar 01 Apr 01 May 01 Jun 01 Jul 01 Aug
Date

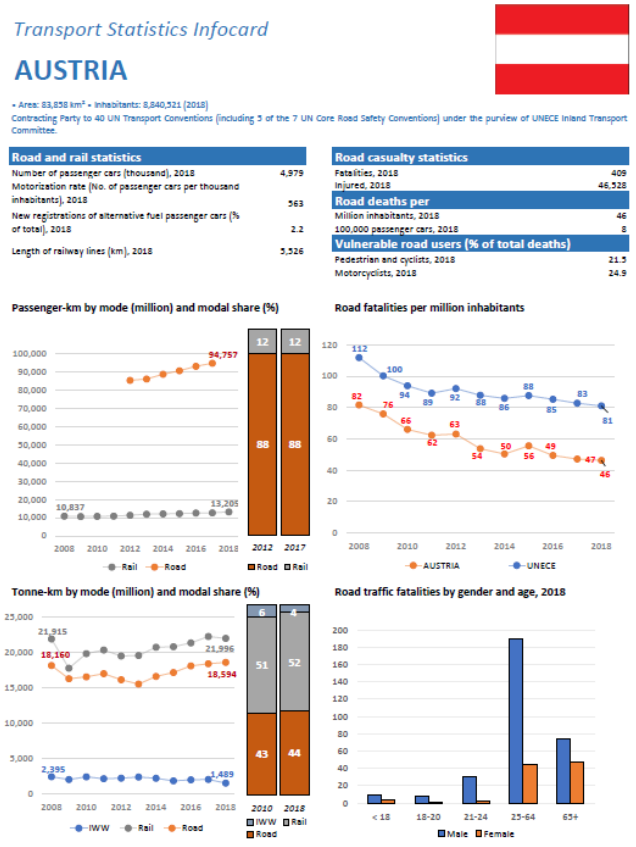
Background on Censuses

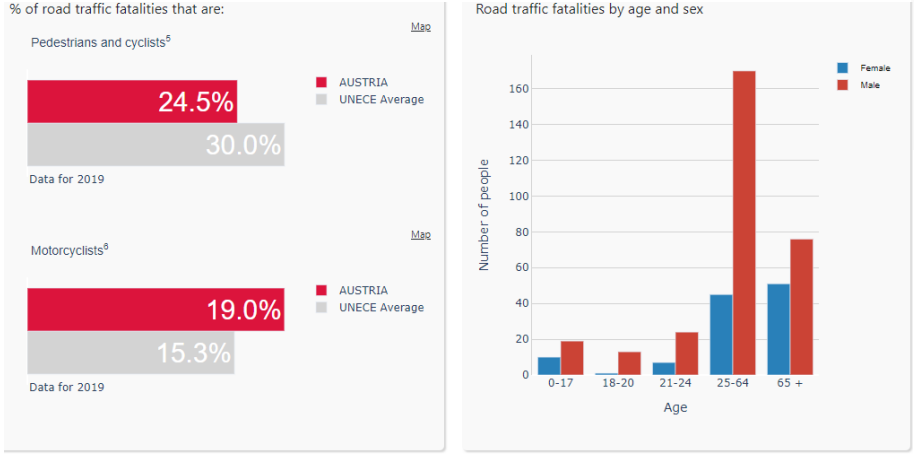
- UNECE has for decades collected traffic information on the E-Road and E-Rail networks, allowing an assessment of network capacities + a geospatial element to traffic statistics.
- The results are applicable to many WP.5 projects, such as corridor analysis, shifting to less polluting modes of travel, climate change adaptation.

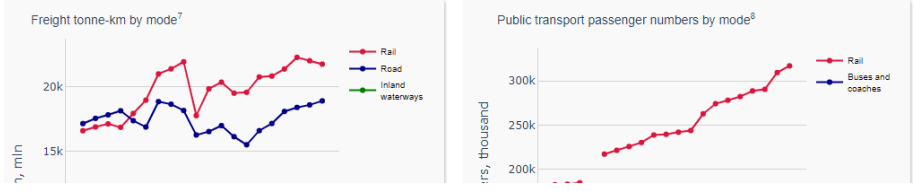


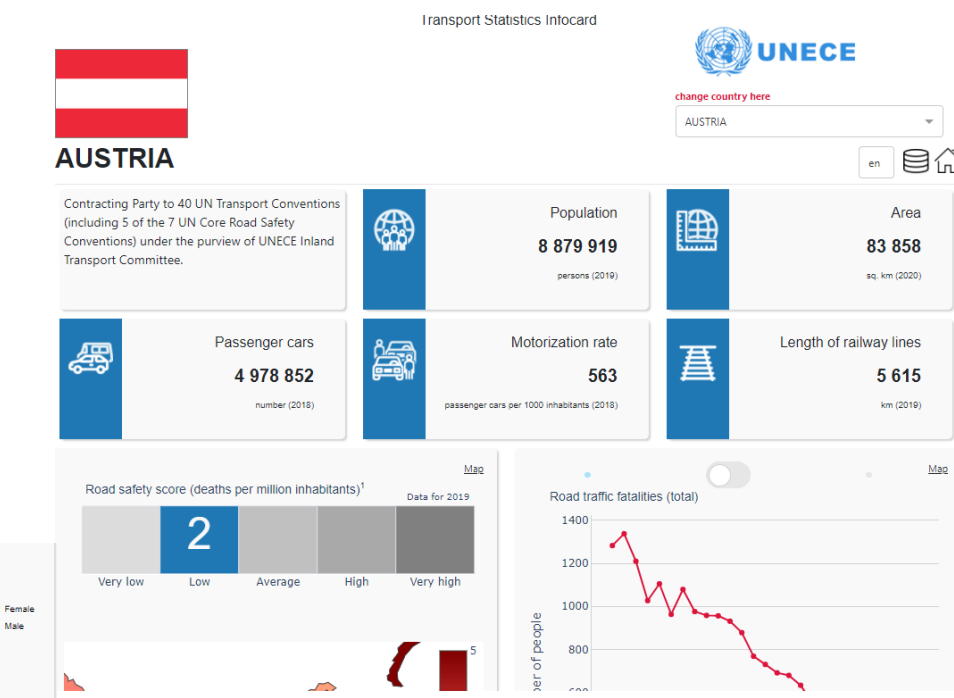
https://stats.unece.org/infocard/

Infocards









And SDG interactive Data Stories on the horizon…

Summary

- https://unece.org/tram-and-metro-data
- https://stats.unece.org/infocard/
- Any help on road traffic data sources outside NSOs is welcome.
- WP.6 is ready to work with other WPs on data projects (collection, analysis, visualization, maps, “data stories” etc). What are your statistical needs?