



Amt für regionale Landesentwicklung
Leine-Weser

Interreg
North Sea Region
G-PaTRA

European Regional Development Fund



EUROPEAN UNION

G-PaTRA Covid workshop

29 March 2022

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North Sea Region
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Priority 4: Promoting Green Transport and Mobility

G-PaTRA – Green Passenger Transport in Rural Areas – will promote green transport and mobility by enhancing the capacity of authorities to reduce CO2 from personal transport in remote, rural and island areas. It will embed more zero emission vehicles in rural transport systems and improve available passenger transport resources.



Total budget received from European Regional Development Fund: **€1.82 million**

Total project budget: **€3.9 million**

INTERREG VB – North Sea Region

G-PaTRA

**Green Passenger Transport
in Rural Areas**

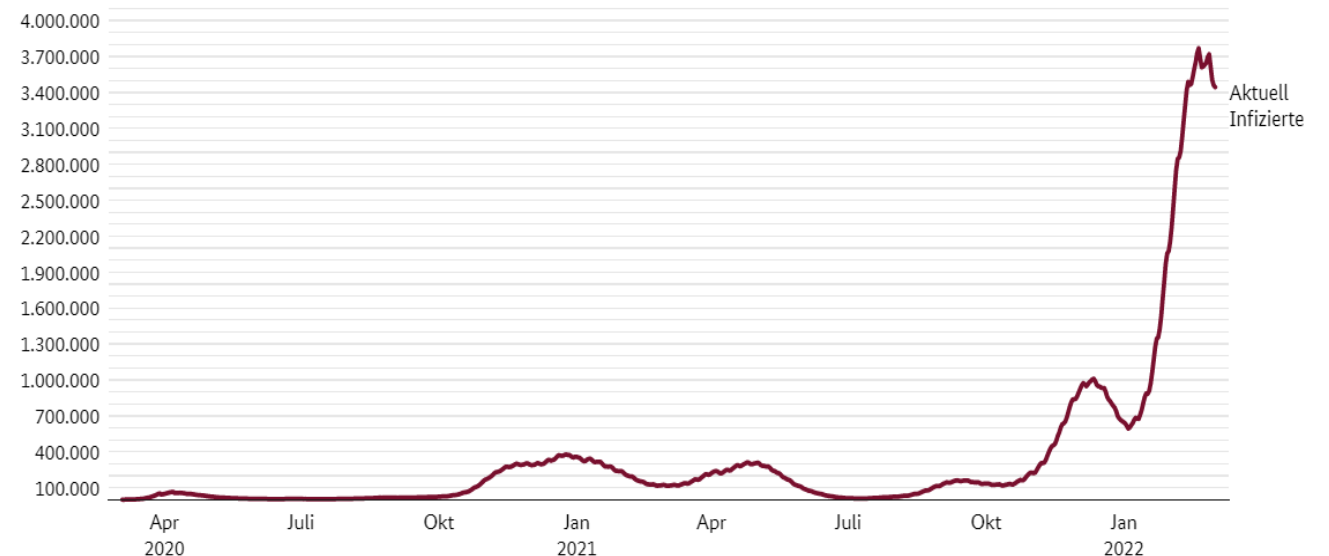


Covid 19 – timing in Germany

- **27 and 28 January 2020** - first corona cases in Germany
- **22 March 2020** first corona–lockdown in Germany
- **02 November 2020** lockdown light → contacts limited to two households, gastronomy and tourism industry have to close again
- **05 January 2021** next hard lockdown → restrictions are tightened again and later extended several times
- **march – June 2021:** the third wave of the pandemic seems to have broken → the restrictions are gradually lifted
- **end of September 2021** → 4th pandemic wave builds up
- **January 2022** → spread of the virus variant “omikron”

Covid-19-Fallzahlen in Deutschland

3.444.200 aktuell Infizierte, 11.696.600 Genesene, 123.505 Verstorbene (Stand: 03.03.2022)



source: Robert Koch-Institut;

https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4/page/page_1/



Covid impact on project activities (1/2)

- Communiation via public presentations hindered
 - No public event in 2020
 - 2021 online event with 140 participants
- No practical trials of innovative public transport because of Covid
- Change on focus on analysis of traffic data in 2019 helped
- Purchase of traffic data in 2019
- Cooperation with University of Applied Sciences Hannover for virtual simulation of innovative public transport of goods
- On-demand project with County of Hamelin paused because of Covid



Covid impact on project activities (2/2)

- Lack of workforce at public partners due to covid
- People avoided public transport
- Traffic data very useful to analyse covid impact on mobility
- Focus on traffic data brought opportunities
- Perpetuity of Covid complicate to analyse the new normal



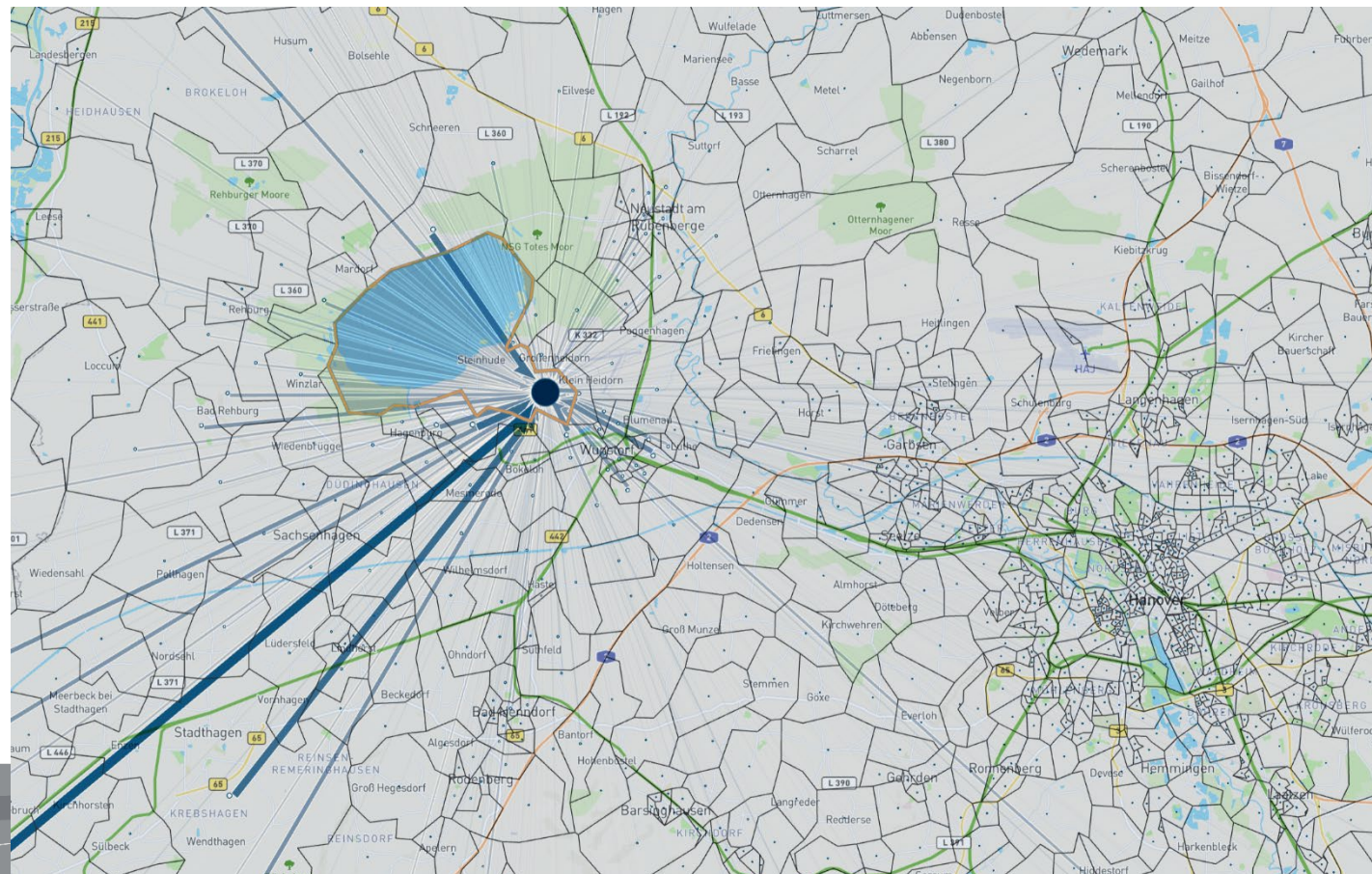
Our traffic data

- mobile signal as a data point about human mobility
- cell towers receive mobile signals throughout the day
- Movement between radio cells shows mobility
- anonymized data that are grouped
- data collection takes place in the administrative district of Leine-Weser: county Hildesheim, Nienburg-Weser, Schaumburg, Diepholz, Hameln-Pyrmont, Holzminden & region Hannover
- Data collected in mobile network of O2



Example of Steinhude

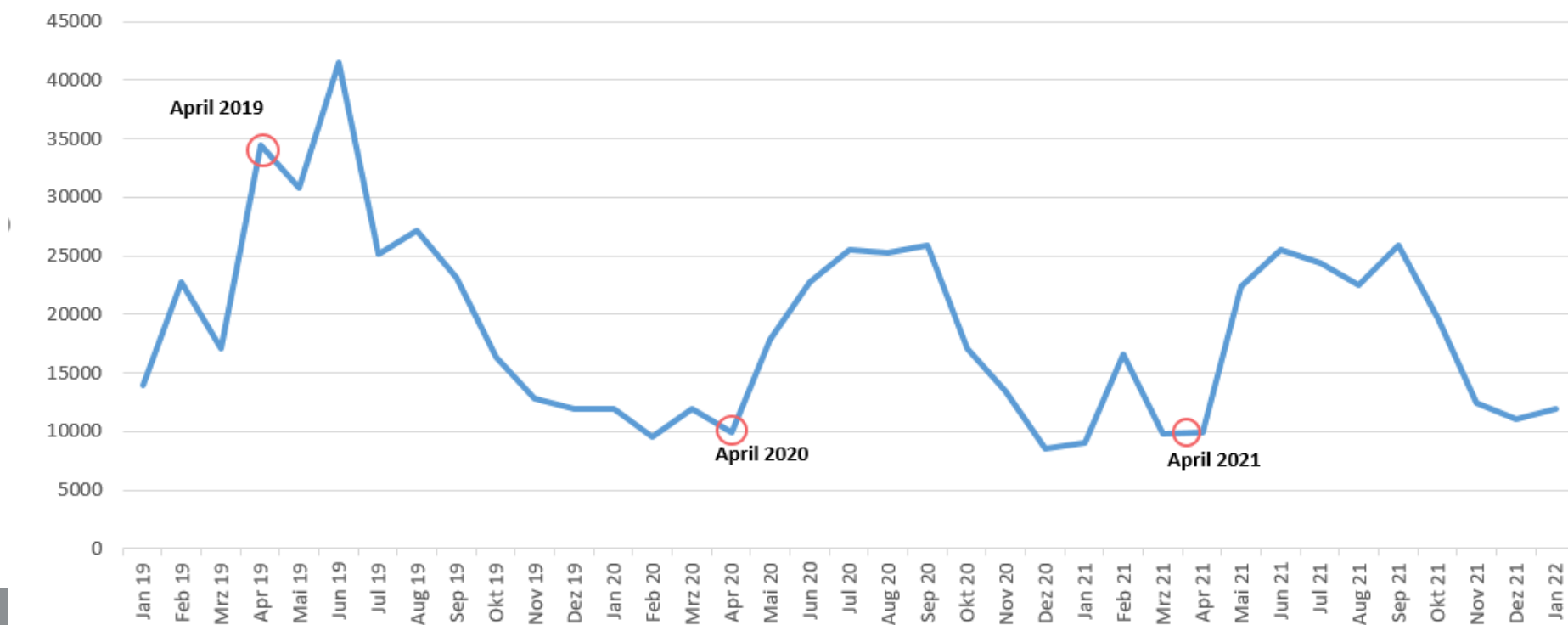
- Recreation area for the region close Hannover





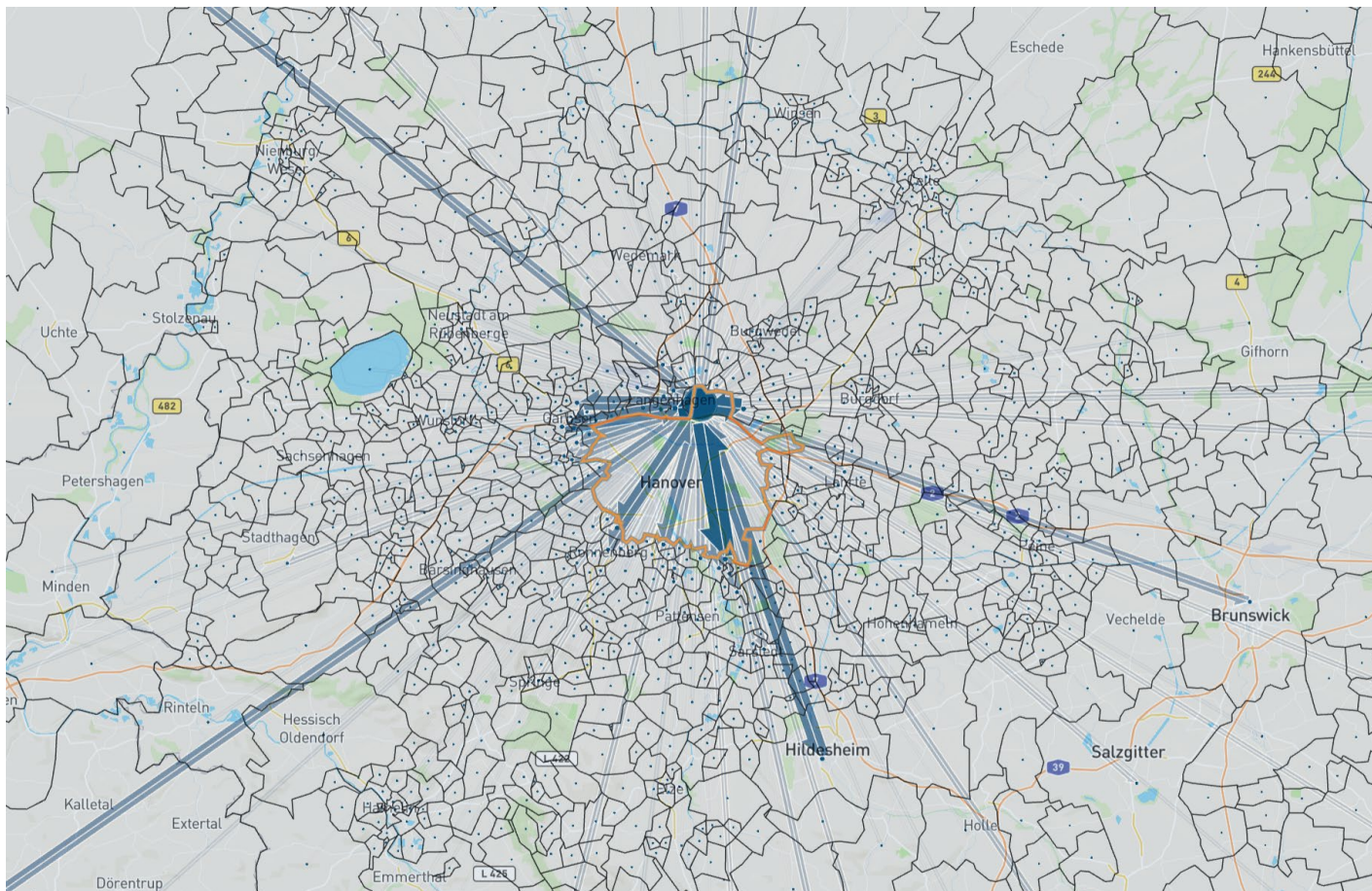
example steinhude

local recreation Steinhude - weekly breakdown (sundays & public holiday)
january 2019 - january 2022
number of trips





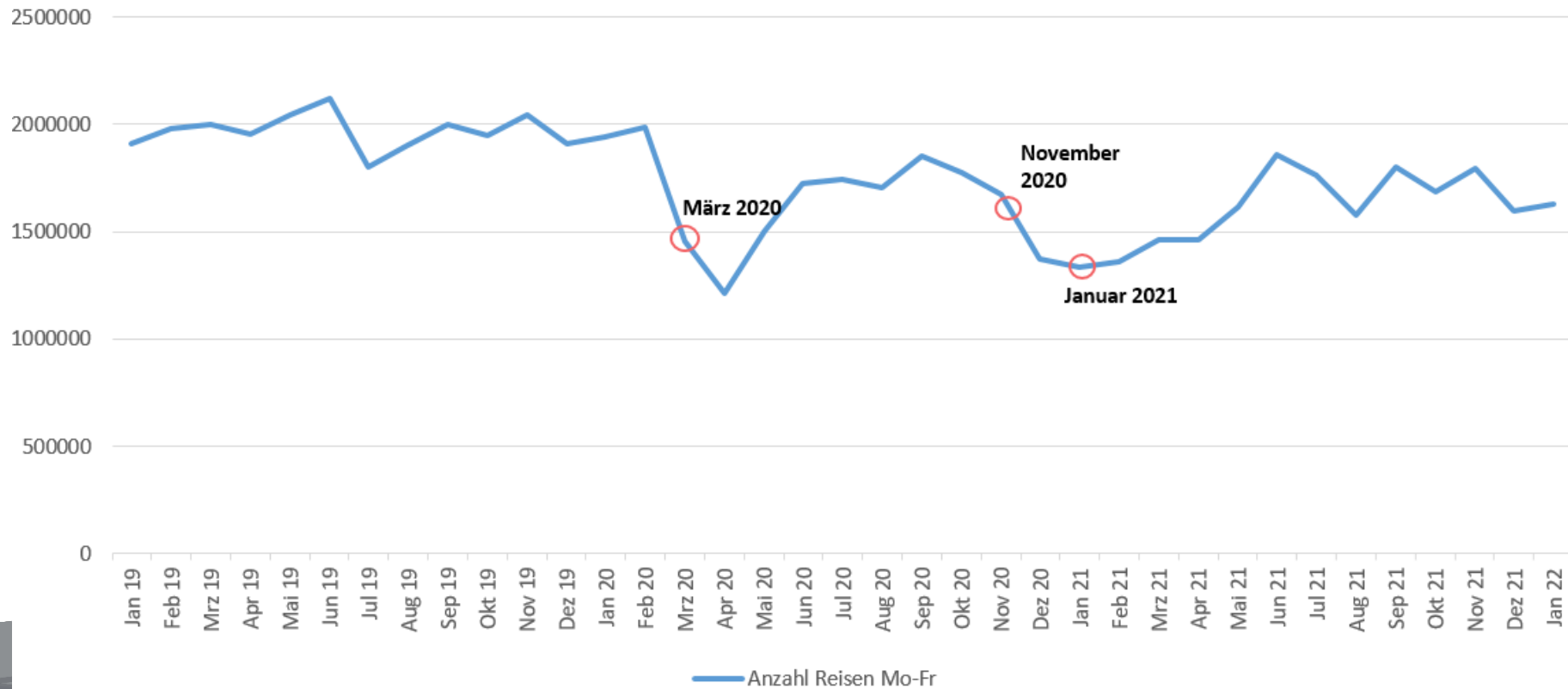
Example City of Hannover





example city of hanover

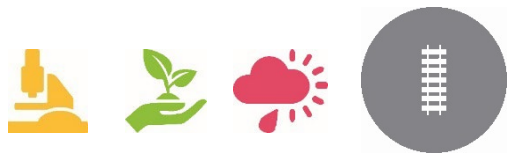
city of hanover - weekly breakdown
january 2019 - january 2022 (mo - fr)
number of trips





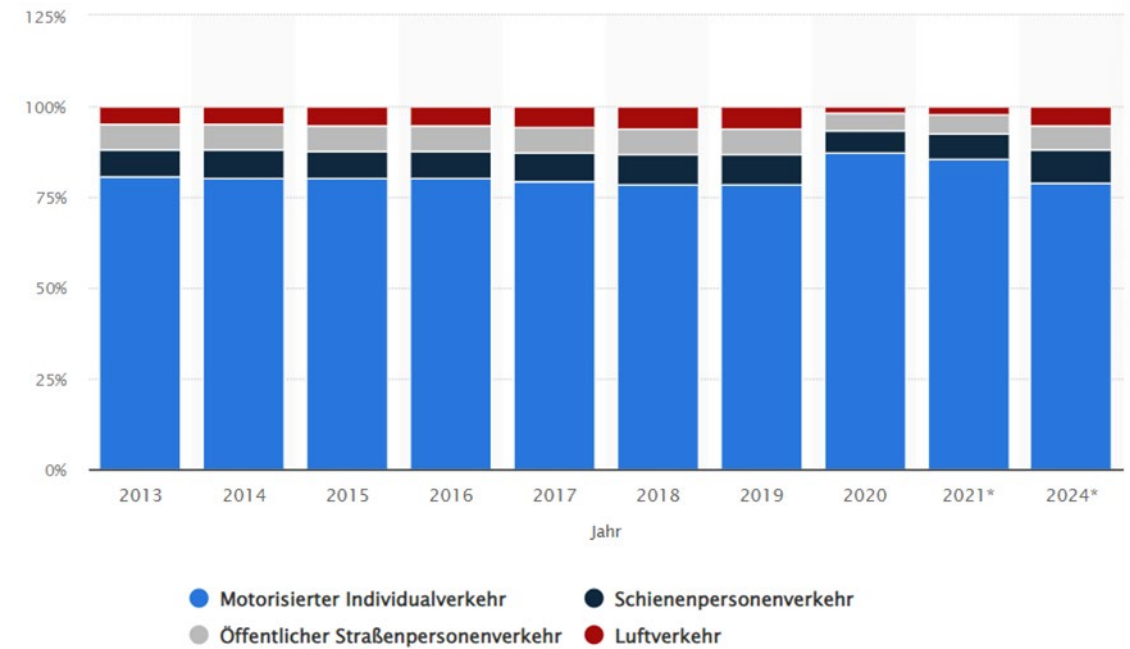
Insights of traffic data analysis

- Huge impact of first lockdowns on mobility
- Majority of traffic in rural areas also within short distances
- Great potential of CO² savings by decarbonization of traffic in near range
- Focus not only on improvement of public transportation, but also potential by traffic minimization (home office etc.)



outlook

- traffic trends before and during the pandemic
- CO₂ savings due to Covid 19 pandemic → potential analysis of home office
- improving mobility, particularly in rural areas
- analysis of mobility needs → commuter relations and leisure mobility
- optimization of the mobility offer
- use of traffic data for urban and spatial planning
- Cooperation with impact in county of Hamelin



source:

<https://de.statista.com>



sources

- <https://de.statista.com/statistik/daten/studie/168397/umfrage/modal-split-im-personenverkehr-in-deutschland/#:~:text=Der%20private%20Pkw%20bleibt%20das,im%20Personenverkehr%20in%20Deutschland%20aus.>
- <https://www.bundesregierung.de/breg-de/aktuelles/fallzahlen-coronavirus-1738210>
- <https://de.statista.com/statistik/daten/studie/1185253/umfrage/veraenderung-der-taeglichen-mobilitaet-durch-das-coronavirus-in-deutschland/>
- <https://www.umweltbundesamt.de/bild/vergleich-der-durchschnittlichen-emissionen-0>
- <https://www.handelsblatt.com/politik/corona-chronik-bundesregierung-bestellt-80-millionen-dosen-omikron-impfstoff-bei-biontech/25584942.html>



Thank you for your attention!

Are there any questions?