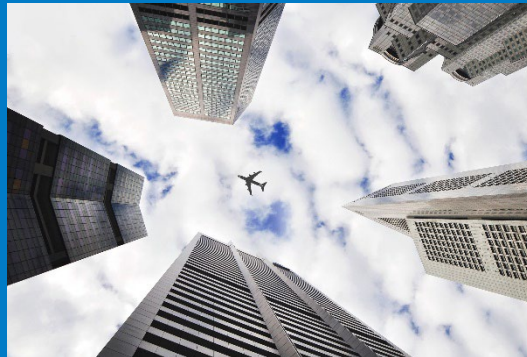




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## Mobility in a post-pandemic situation

*Developments in mobility since the  
COVID-pandemic*

**Kennisinstituut voor Mobiliteitsbeleid/**

**KiM Netherlands Institute for Transport Policy Analysis**

# Corona had a big impact on mobility



NOS

ANWB: files met 63 procent afgenomen door thuiswerken

In de zomervakantie was het wel drukker dan andere jaren. Dat kwam deels doordat mensen vakantie in eigen land vierden.

30 dec 2020

Centraal Bureau voor de Statistiek

## Veel minder druk in openbaar vervoer in maart 2020

NRC

Ov-bedrijven willen langer steun, want de reizigers blijven weg

# Structural impact was expected

ANWB: meer mensen willen ov mijden na de coronacrisis

23 mei 2020, 09:59 • Binnenland

Deel dit artikel

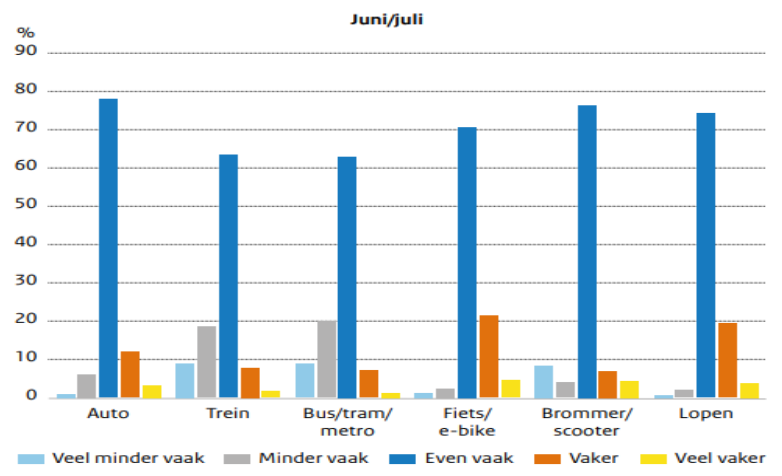
NS en TU starten groot onderzoek naar de reis van de toekomst

Door PAUL ELDERING  
24 apr. 2020 in BINNENLAND

Facebook, Twitter, LinkedIn, Email, Print

NOS NIEUWS • BINNENLAND • POLITIEK • MA 20 APRIL, 06:05

Coronacrisis verandert reisgedrag mogelijk blijvend



Centraal Bureau voor de Statistiek

In 2022 27 procent minder ingecheckt in openbaar vervoer dan voor corona

RTV Utrecht

Wandelen, wandelen en nog eens wandelen in coronatijd: 'Met name de ommetjes zijn erg populair geworden'

Vanaf 1 januari 2020 is bijna 60 procent van de Nederlanders sinds het begin van de coronacrisis meer gaan wandelen, terwijl 7 procent...

Sittard-Geleen Nieuws

Recordaantal e-bikes verkocht in mei

Fietsspecialisten hebben in mei het hoogste aantal elektrische fietsen in één maand ooit verkocht. In totaal waren het 58.000 e-bikes,...

5 jul 2020

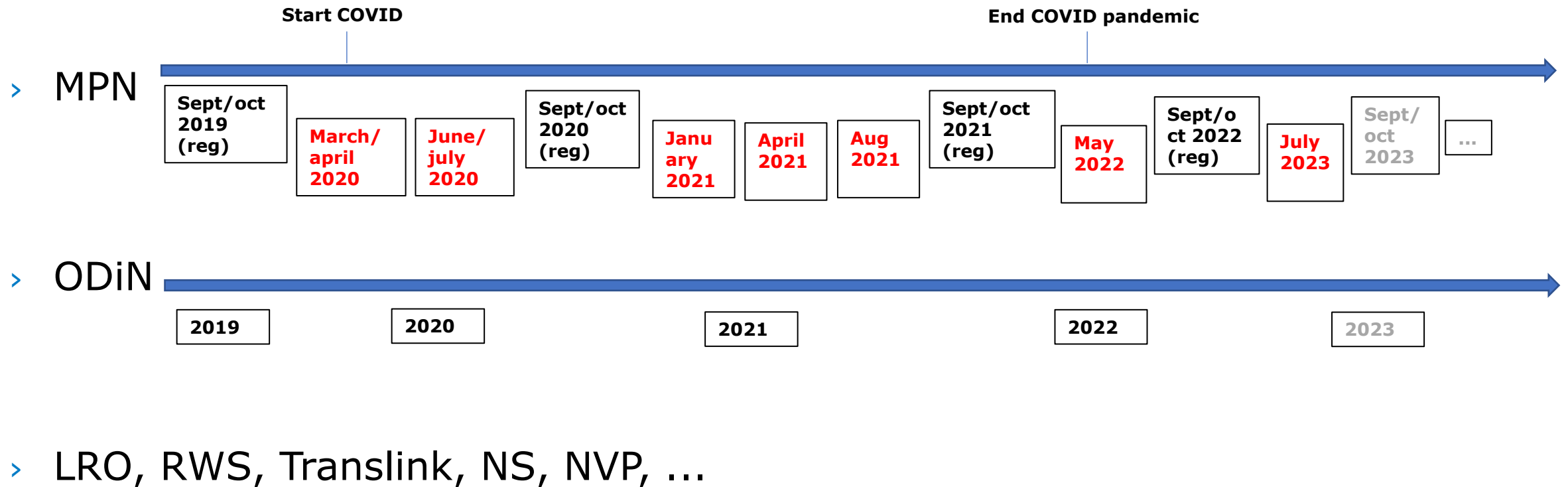
# But what do we see in practice?

AD

ANWB: Files zijn dit jaar in alle hevigheid terug, we staan zelfs vaker stil dan voor corona



# How can we analyse mobility impacts?





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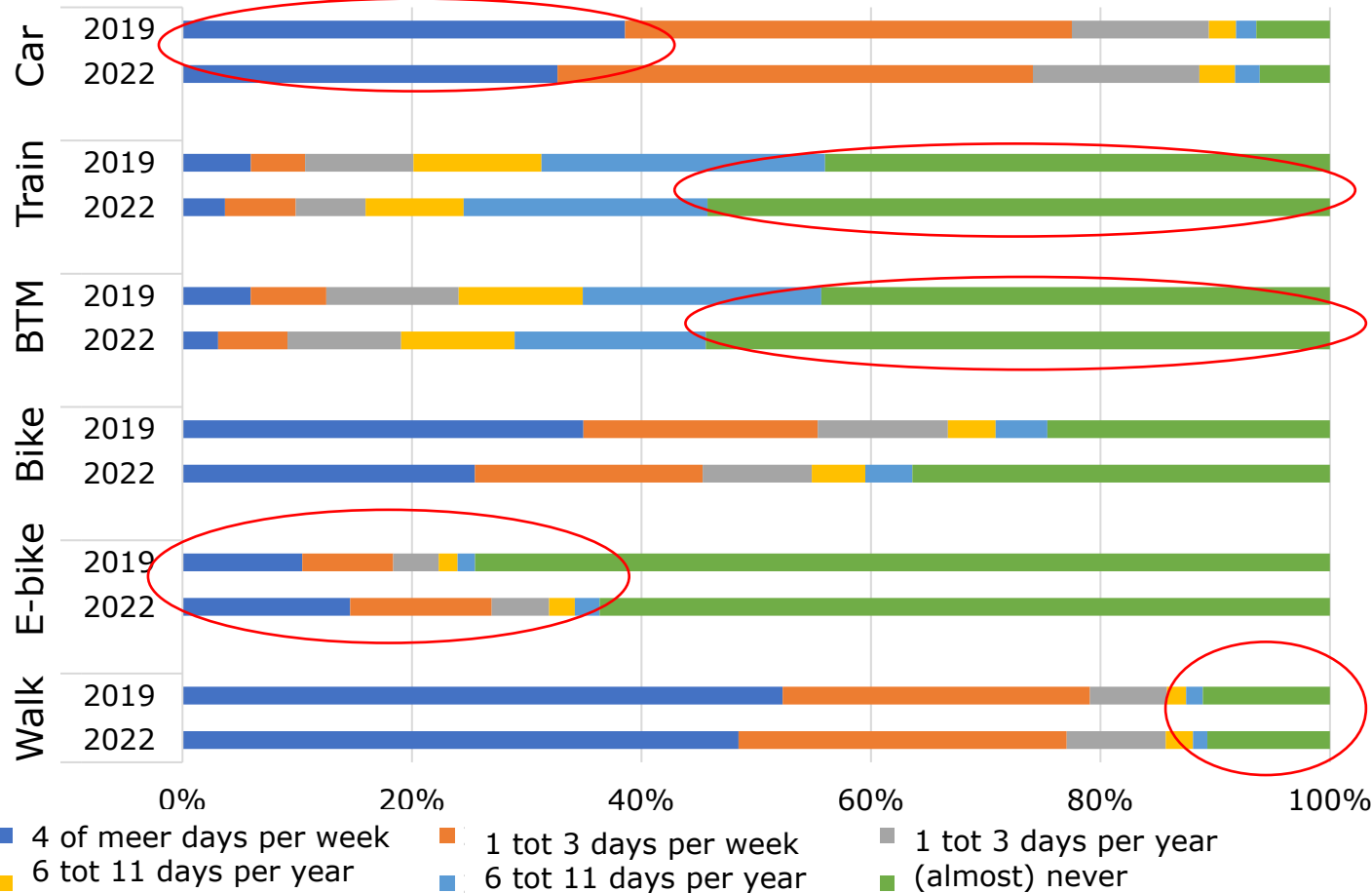
# Mobility developments since COVID-19



# Mode use (fall 2022) compared to pre COVID (fall 2019)

- Less frequent car use in 2022, clearly less pt use
- Clearly more use of electric bike compared to pre-COVID

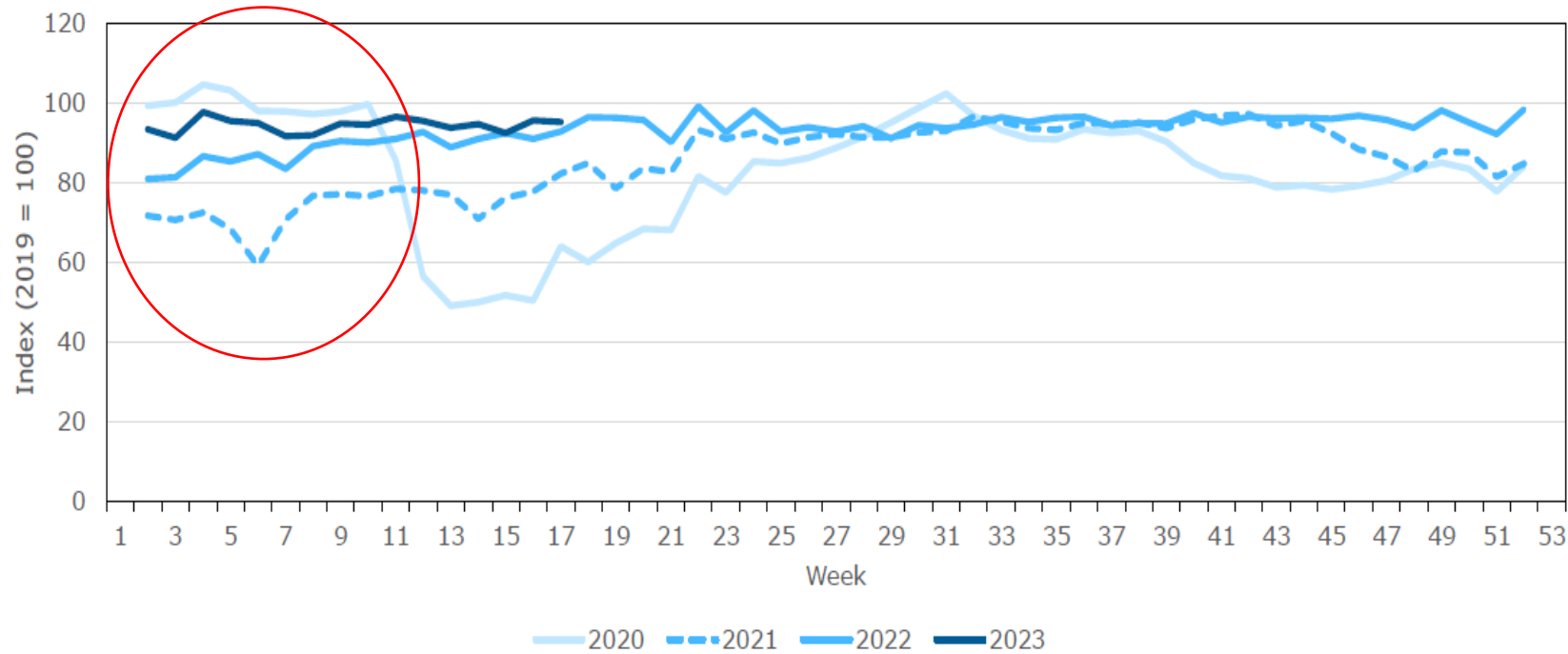
Frequency used modes



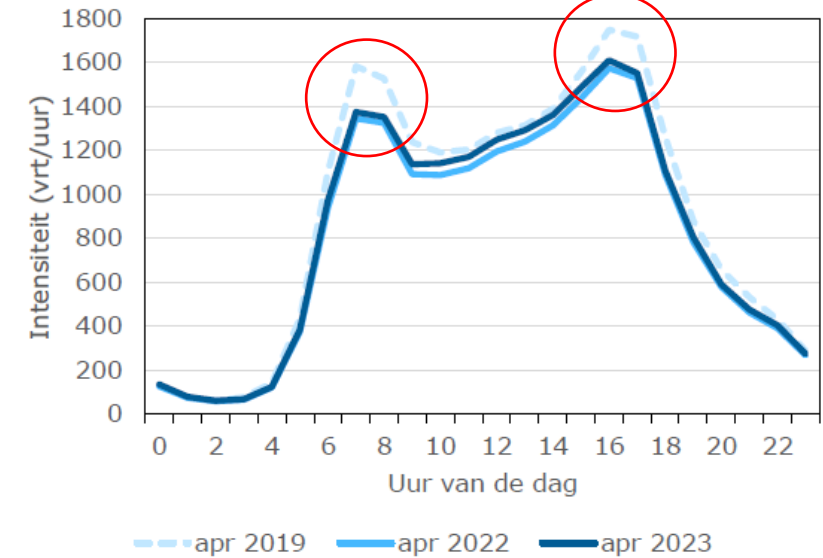
# Road traffic



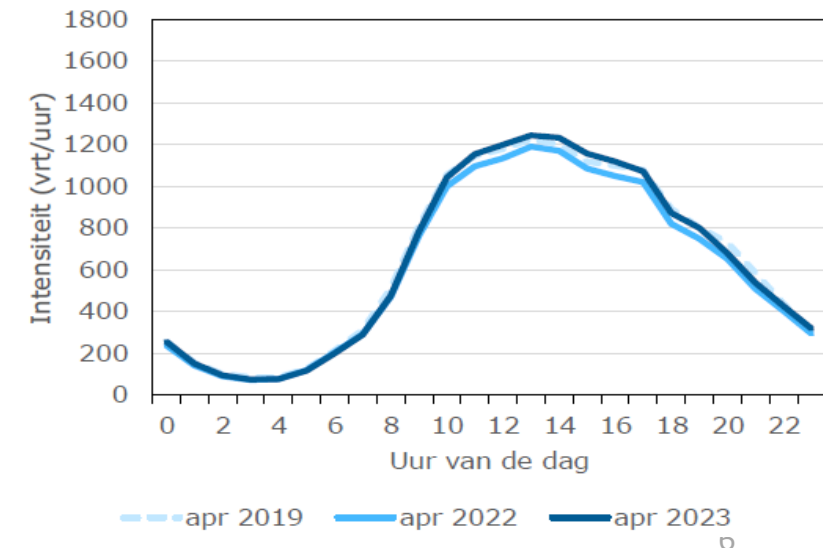
- Traffic levels move back towards pre-COVID levels
- On average less busy during peak hours



## Weekdays



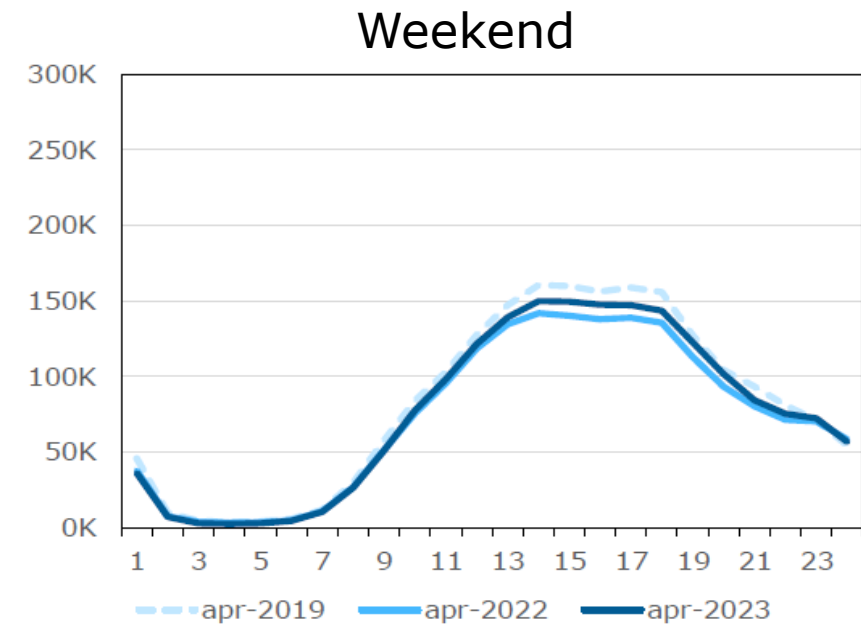
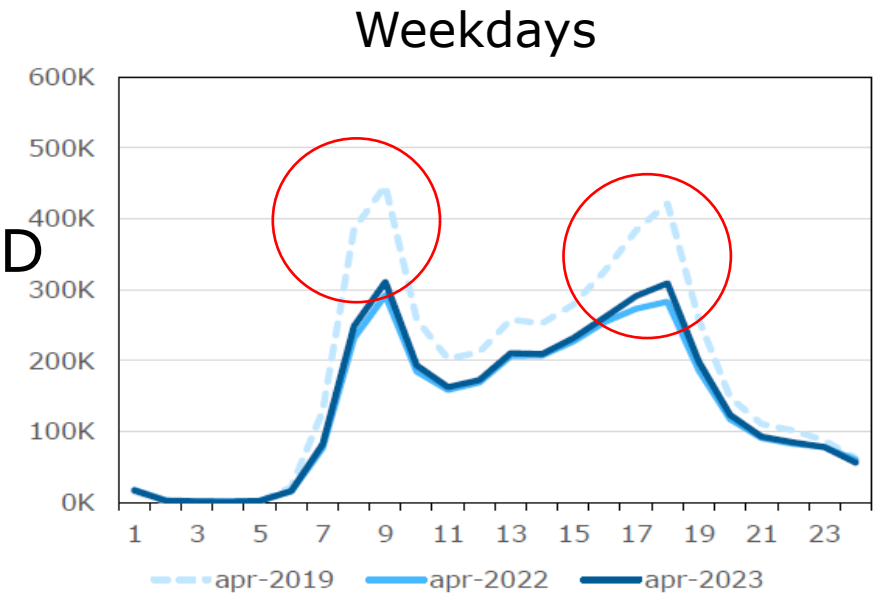
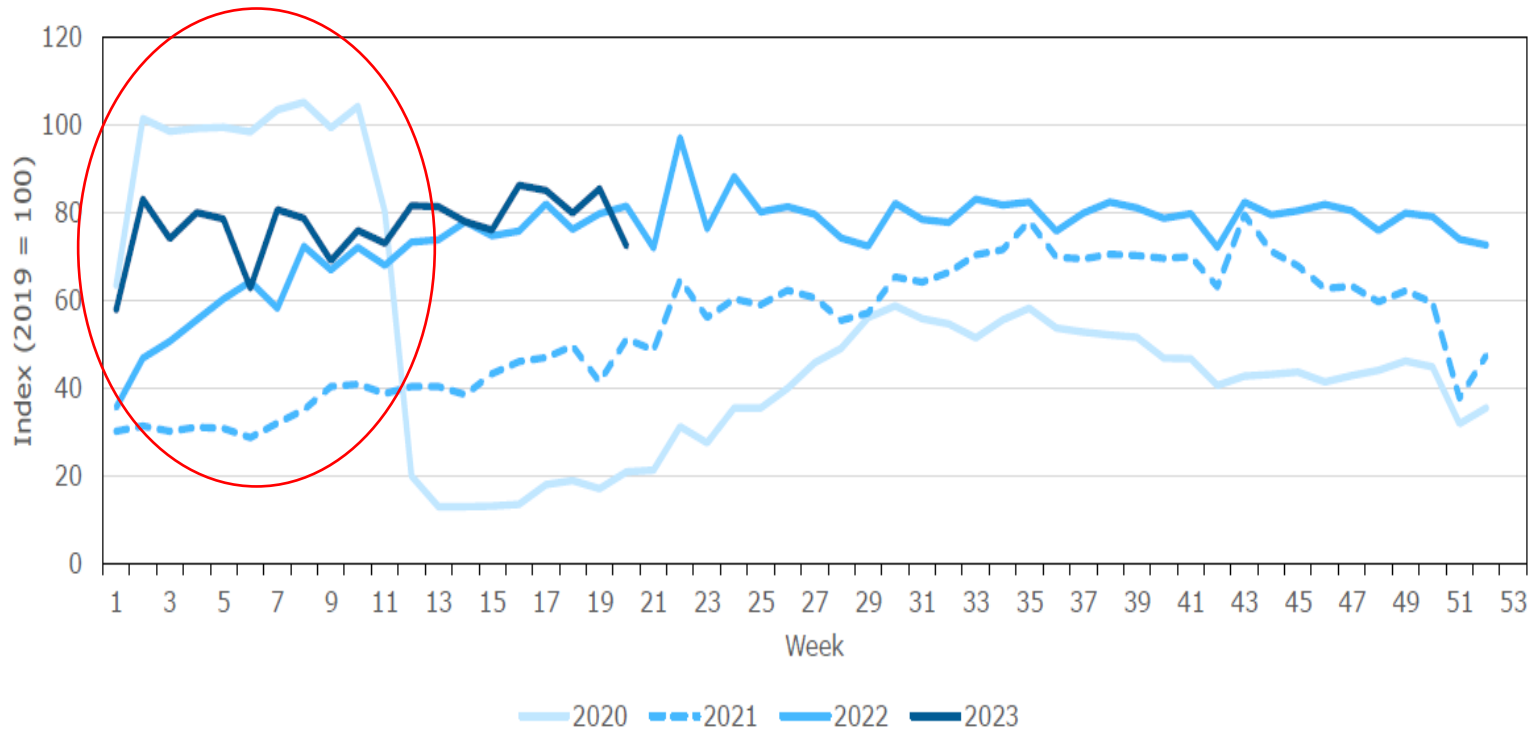
## Weekend





# Public Transport use

- Level of check-ins (still) clearly lower than pre-COVID
- On working days and during peak larger reduction compared to pre-COVID





# Where is the (pt-)traveler since COVID?

- Other activities?
- Other modes?
- Other locations?

**Sneak preview! Study will be published soon**

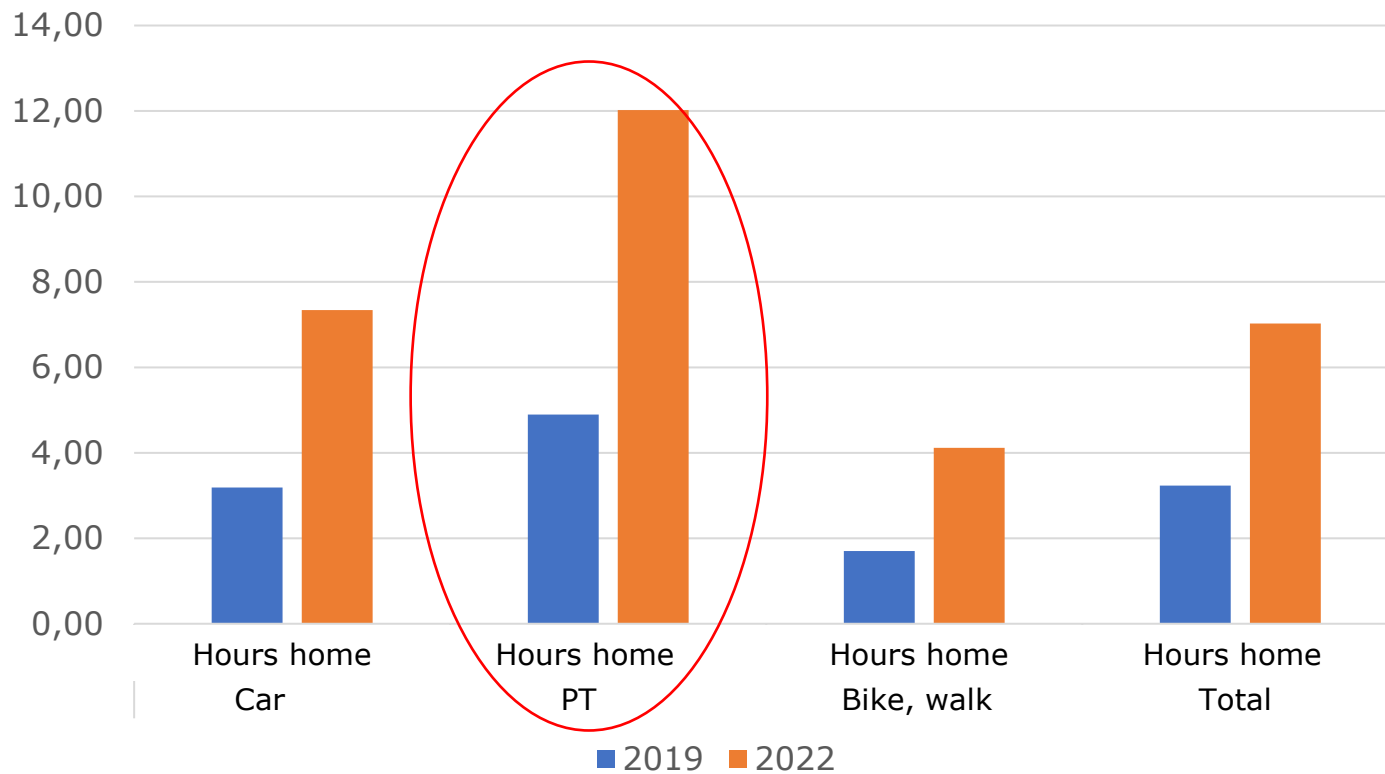




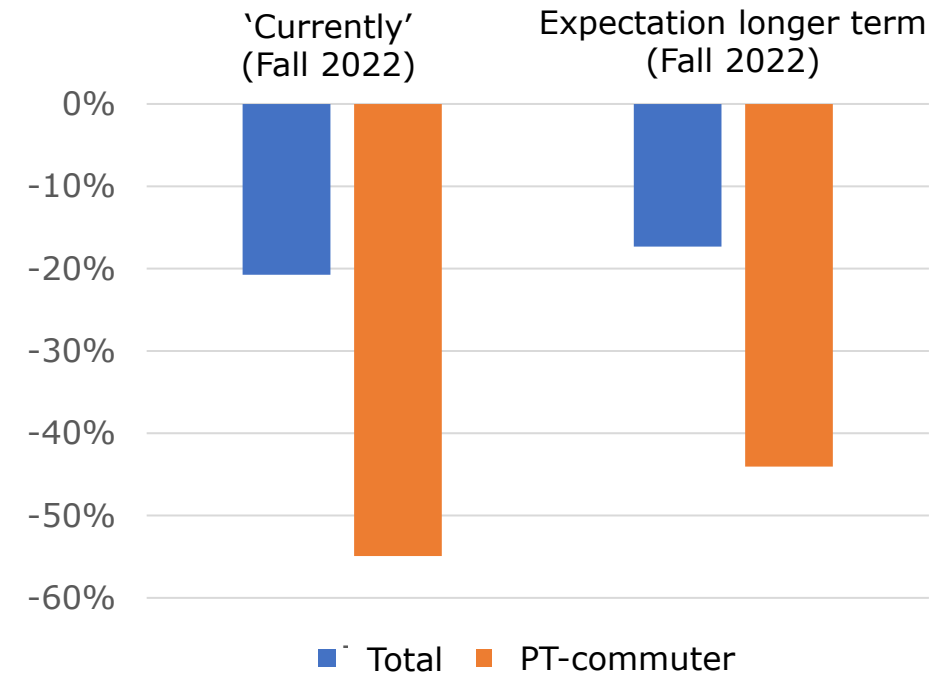
# Other activities? – work related (1)

- PT-users works more from home; also stronger increase since COVID-19
- Also clearly less business trips compared to pre-COVID

**Working from home, fall 2019 vs fall 2022**



**Business trips compared to pre-COVID**

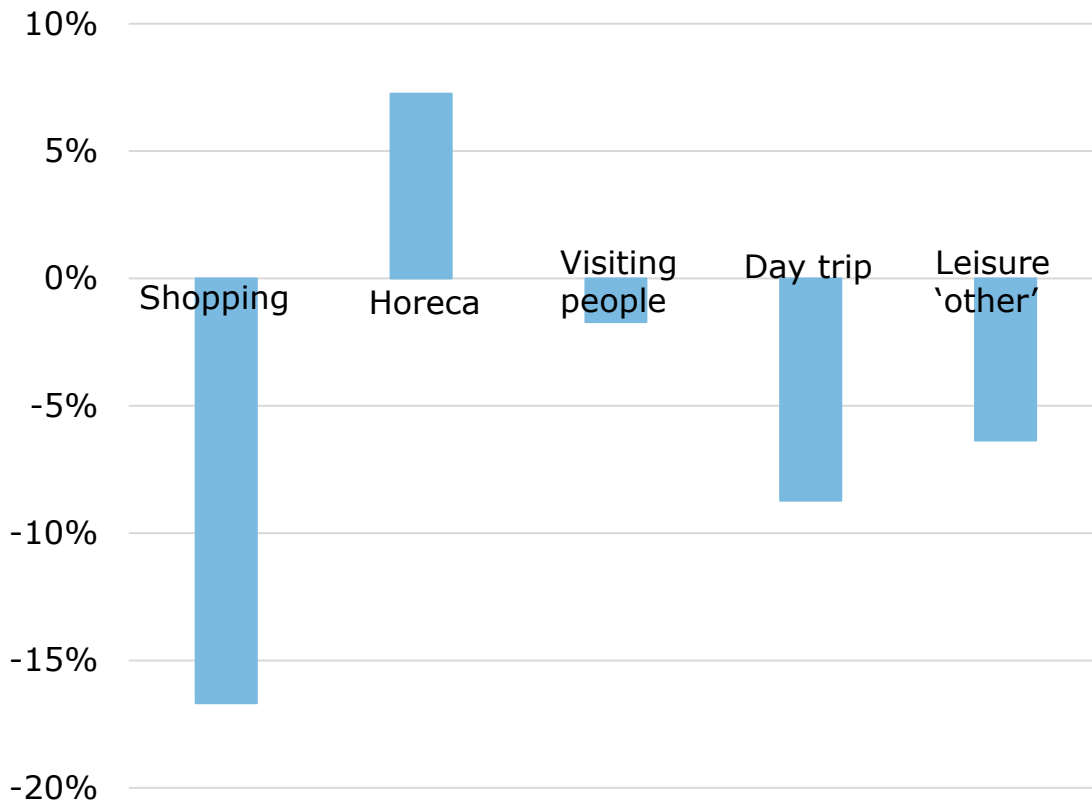




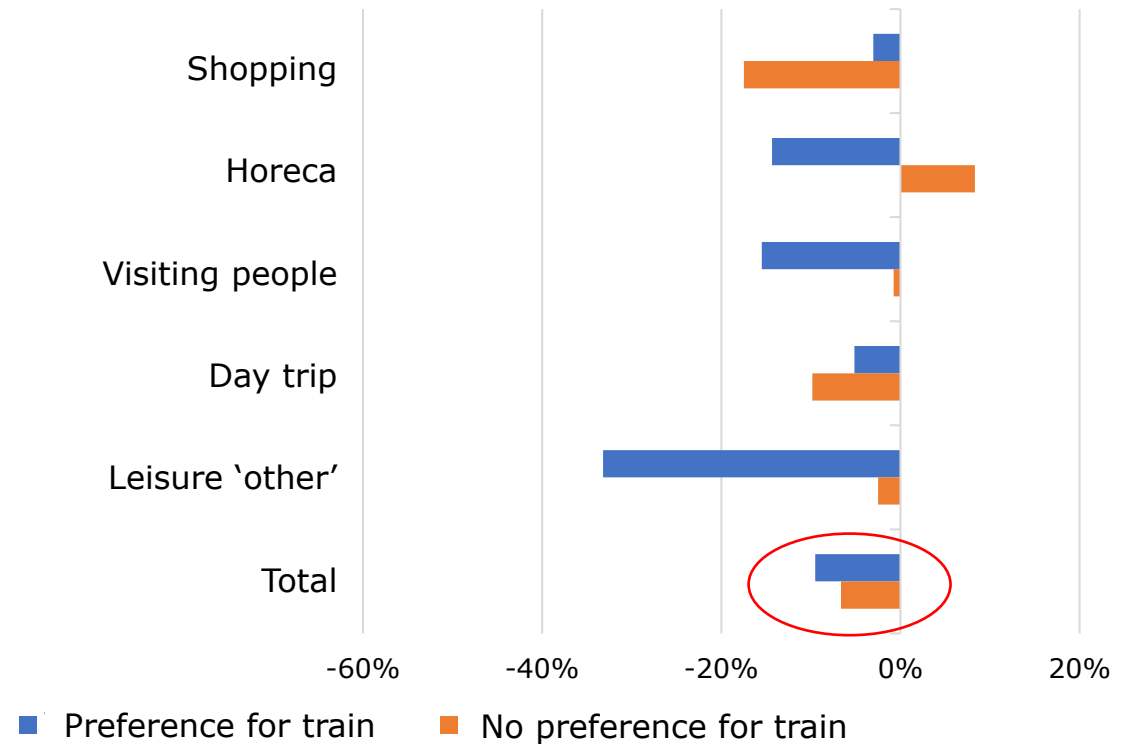
# Other activities? – other motives (1)

- Overall drop in trips for different motives
  - stronger drop for people with a (pre-COVID) preference for pt for most motives

**% change trips per motive, fall 2022 compared to 2019**



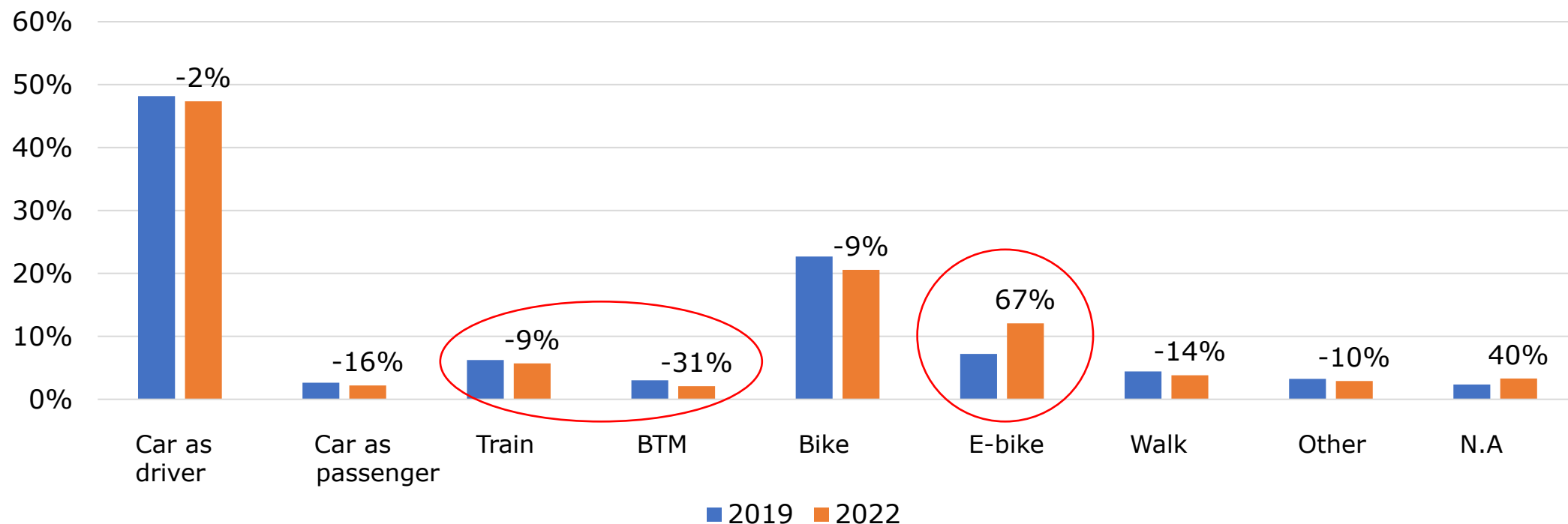
**% change trips per motive, fall 2022 compared to 2019 (preference/no preference for train)**





## Other mode use? (1)- Work related

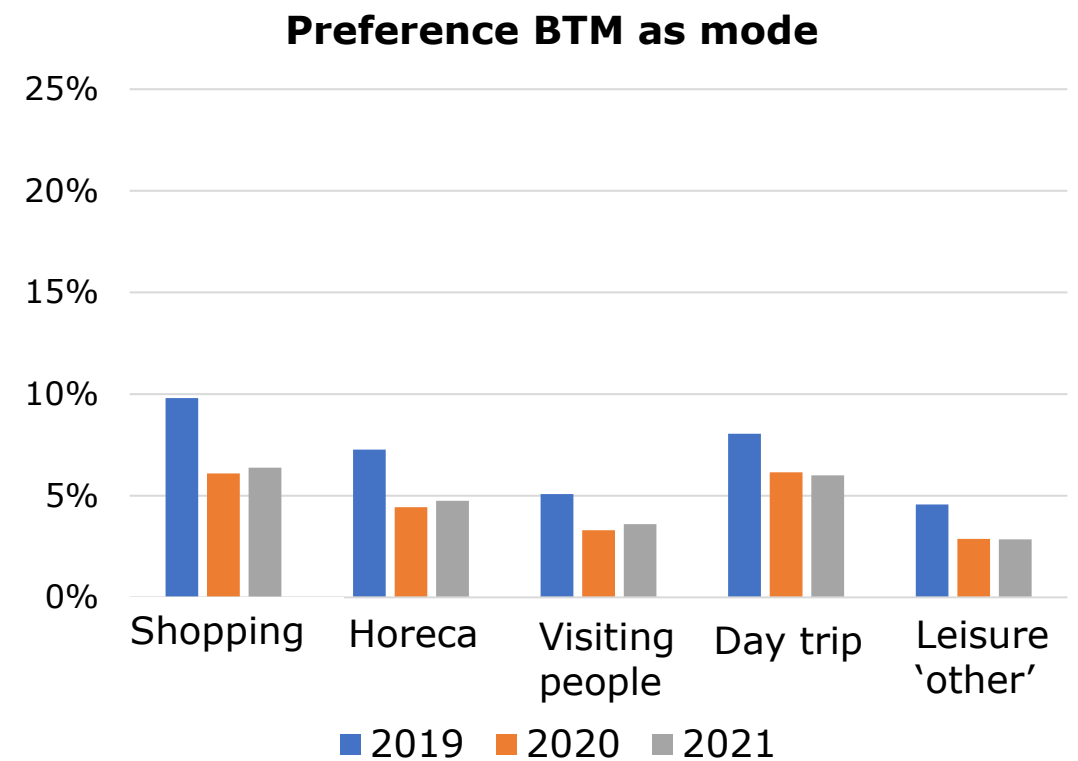
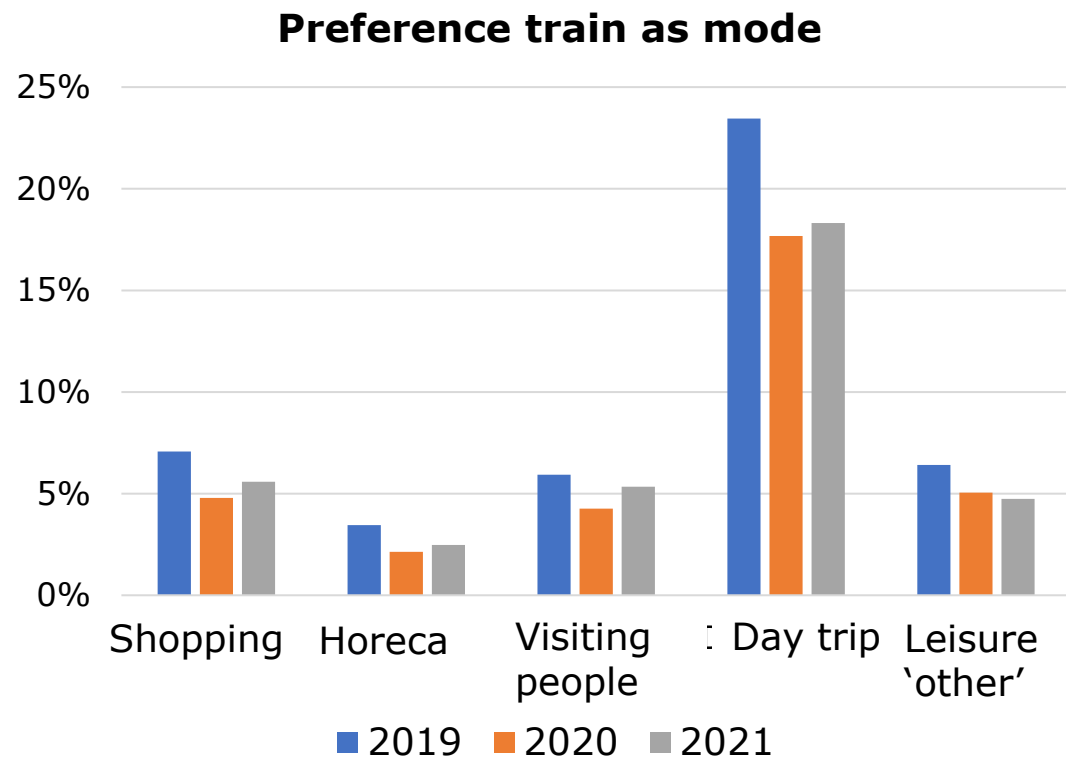
- E-bike much more popular (+67%), train (-9%) & btm (-31%) much less popular for commuting





## Other mode use? (2)- Other motives

- Preference to choose train or btm clearly dropped (in 2021 en 2020 compared to 2019)

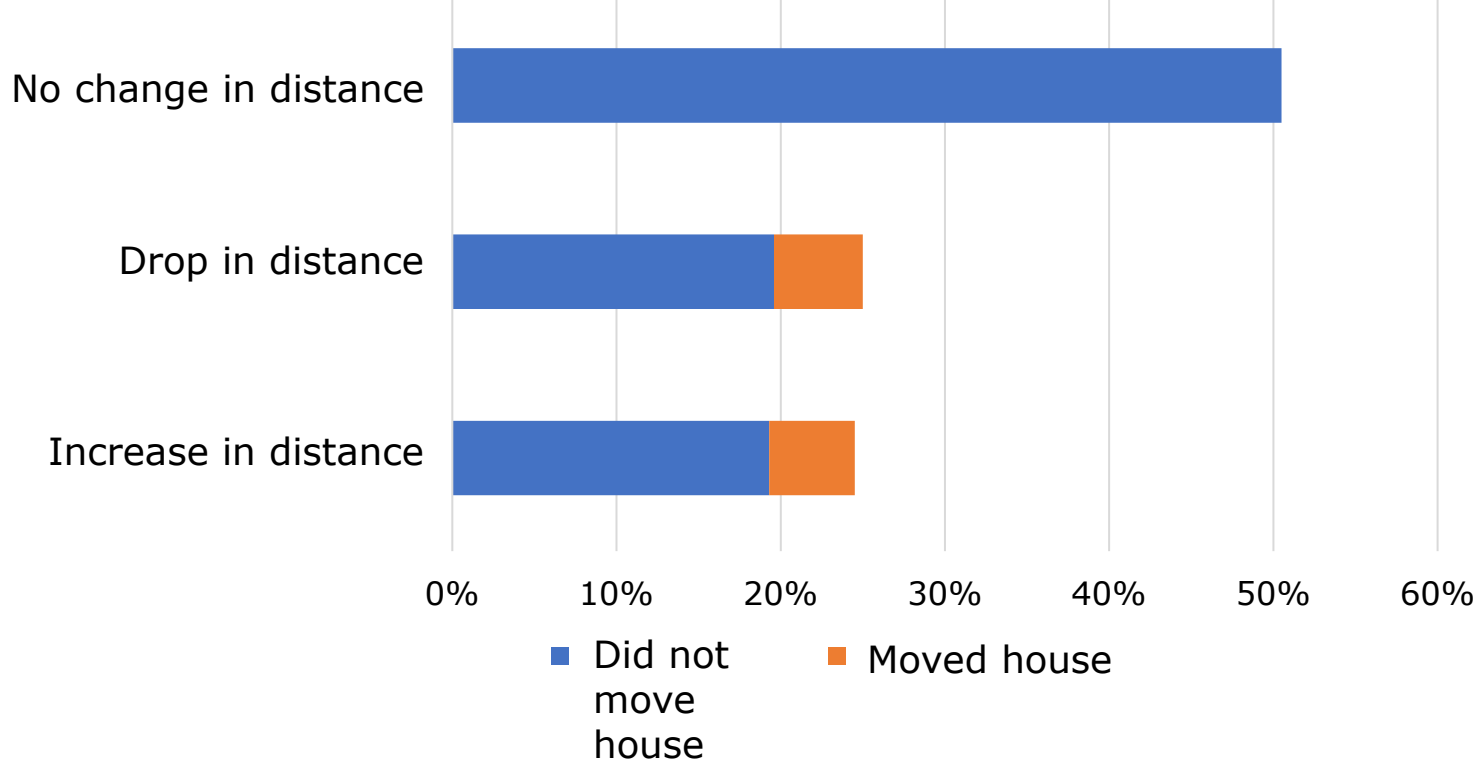




## Other locations? – work related (1)

- About 25% had an increase, another 25% a decrease in commuting distance
  - Change can be caused by moving house or job
  - Average commute distance has somewhat increased

**Development commuting distance 2022 (fall) vs 2019 (fall)**

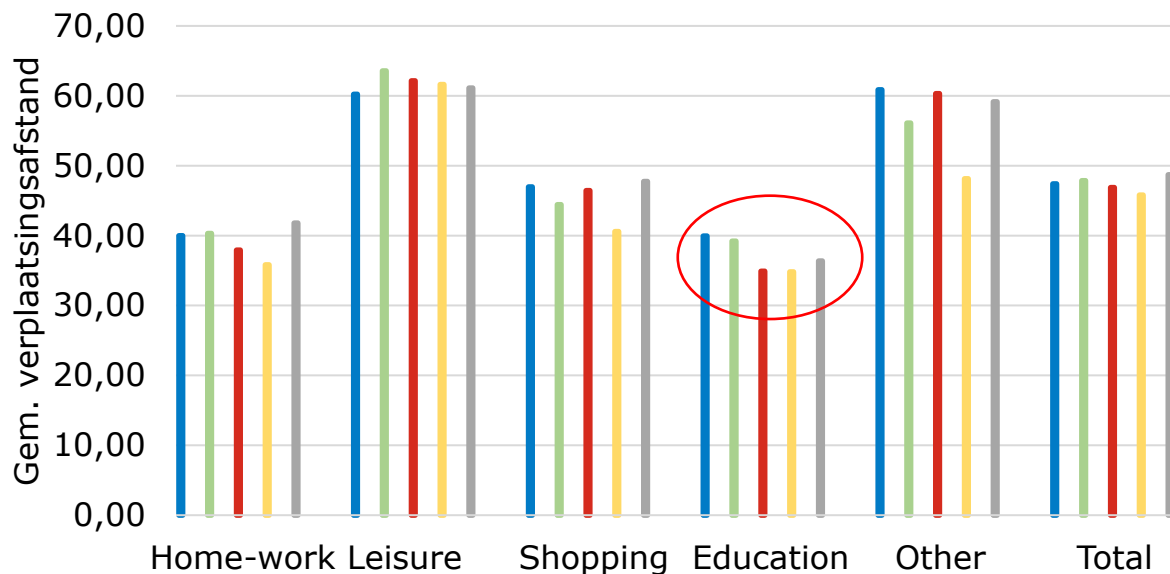




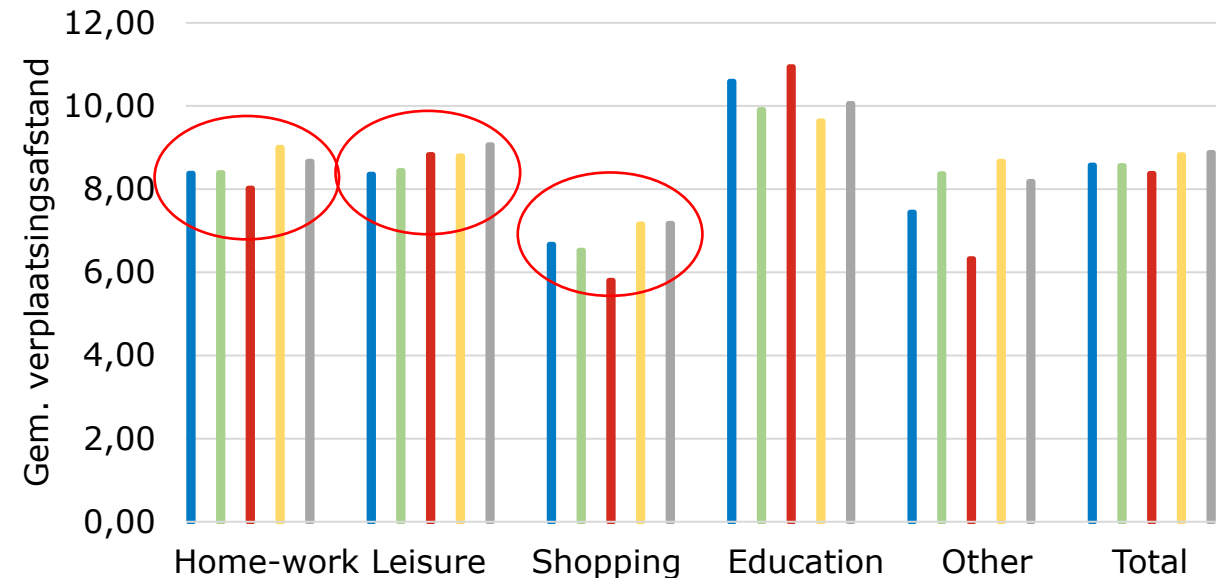
## Other locations? (2) – other motives

- Average travel distance could be a proxy for visiting other locations
- No clear pattern in average distance travelled by train or btm compared to pre-COVID

Development average traveled distance by train, absolute  
(source: ODiN)



Development average traveled distance by btm, absolute  
(source: ODiN)



■ 2018 km/vpl ■ 2019 km/vpl ■ 2020 km/vpl ■ 2021 km/vpl ■ 2022 km/vpl ■ 2018 km/vpl ■ 2019 km/vpl ■ 2020 km/vpl ■ 2021 km/vpl ■ 2022 km/vpl



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What will the (near) future bring?



# Different uncertainties, such as:

- COVID: Other behavioral patterns?
- (Quality) supply..?
- Environment (economy, demography)
- *Policy...?*

NB: Estimations of last year, will be updated soon

Afgelegde afstand <sup>6</sup>	Auto	Trein	Bus, tram, metro	Fiets	Lopen
Effect thuiswerken, digitaal vergaderen en thuisonderwijs	(-5%, -1%)	(-10%, -3%)	(-8%, -2%)	(-2%, 0%)	(-1%, 2%)
Verschuiving vanuit de trein	+0,49%	-3%	n.v.t.	+0,17%	n.v.t.
Verschuiving vanuit bus, tram, metro	+0,05%	n.v.t.	-3%	+0,37%	0,35%
<b>Totale structurele gedragseffect</b>	<b>(-4,5, -0,5%)</b>	<b>(-13%, -6%)</b>	<b>(-11%, -5%)</b>	<b>(-1,5%, +0,5%)</b>	<b>(-0,5%, 2,5%)</b>

Worked out in 3 scenario's: "minder" ("less"), "basis" ("basic"), meer ("more")





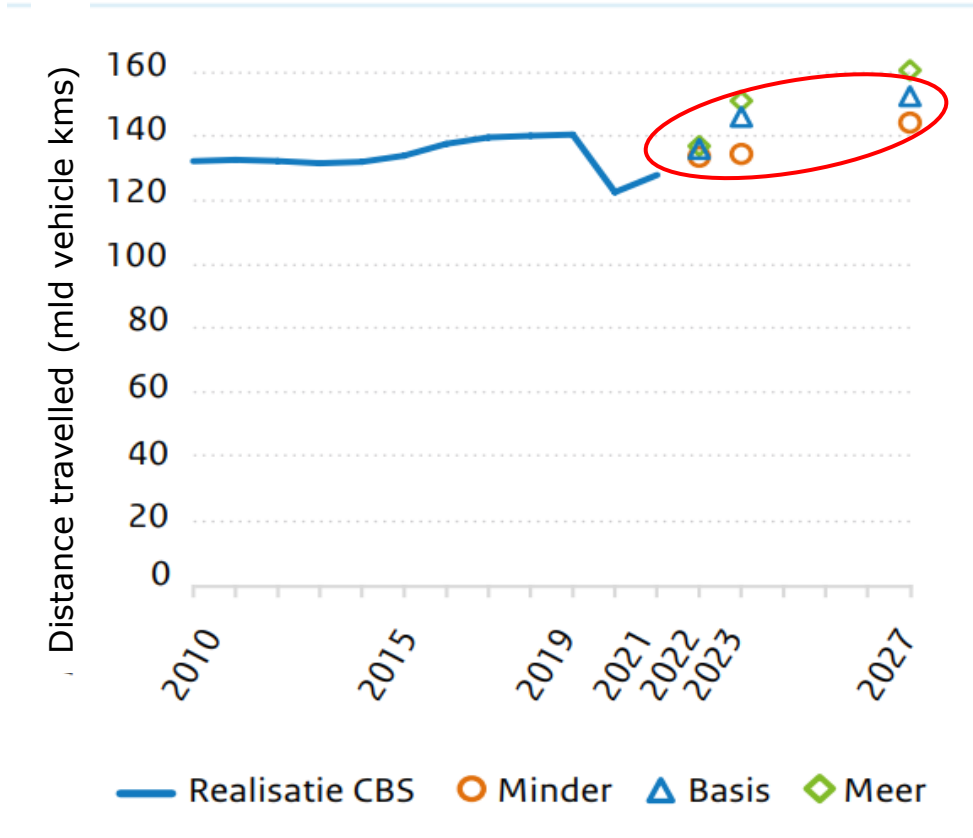
# Projections (fall 2022)

## Soon to be updated in Mobiliteitsbeeld 2023 (fall)

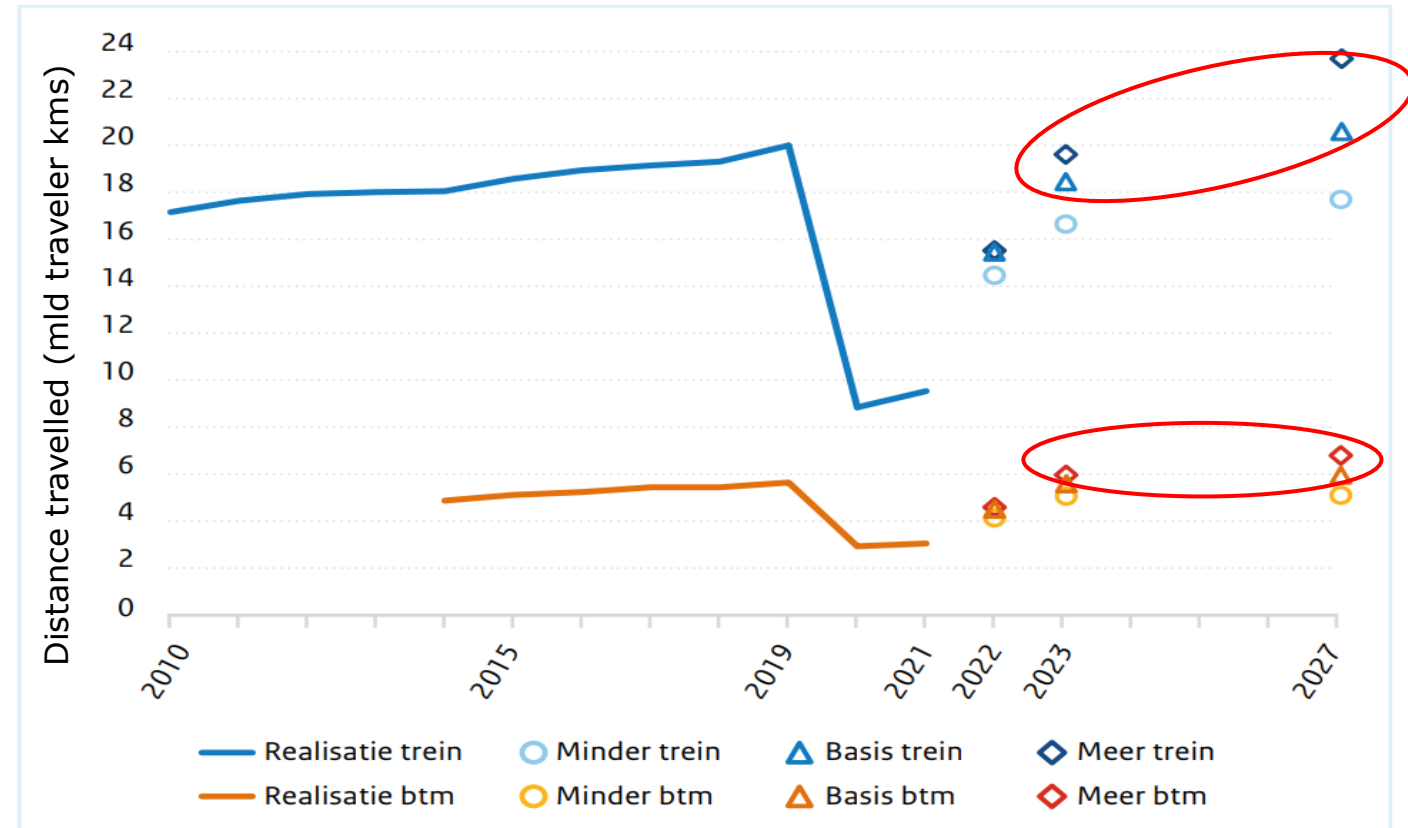
Car traffic in 2023 ("basis") or in 2024 ("minder") above 2019 levels?

Train in 2026 ("basis") or after 2027 ("minder") above 2019?  
Btm in 2024 ("basis") or after 2027 ("minder") above 2019?

### Projection highway network



### Projection public transport



Bron: [Kerncijfers Mobiliteit](#)



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# Conclusion



# Conclusion

- Partly back to pre-COVID, but not entirely
  - More working from home, less pt, more (e)bike
  - Consequences for carriers and travelers
- Level of 2019 will be reached again in time
- MPN useful source to study developments; other sources could help to reach a richer picture

## Further study?

- Questions remain, for instance concerning short and longer term structural impacts on pt
- On short term: study “waar is de reiziger gebleven”, “Mobiliteitsbeeld 2023”
- Suggestions for follow up studies welcome!





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Questions?