


365 days of COVID19 in Switzerland

Results of the GPS tracking panel

Presentation

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365 days of COVID19 in Switzerland: Results of the GPS tracking panel

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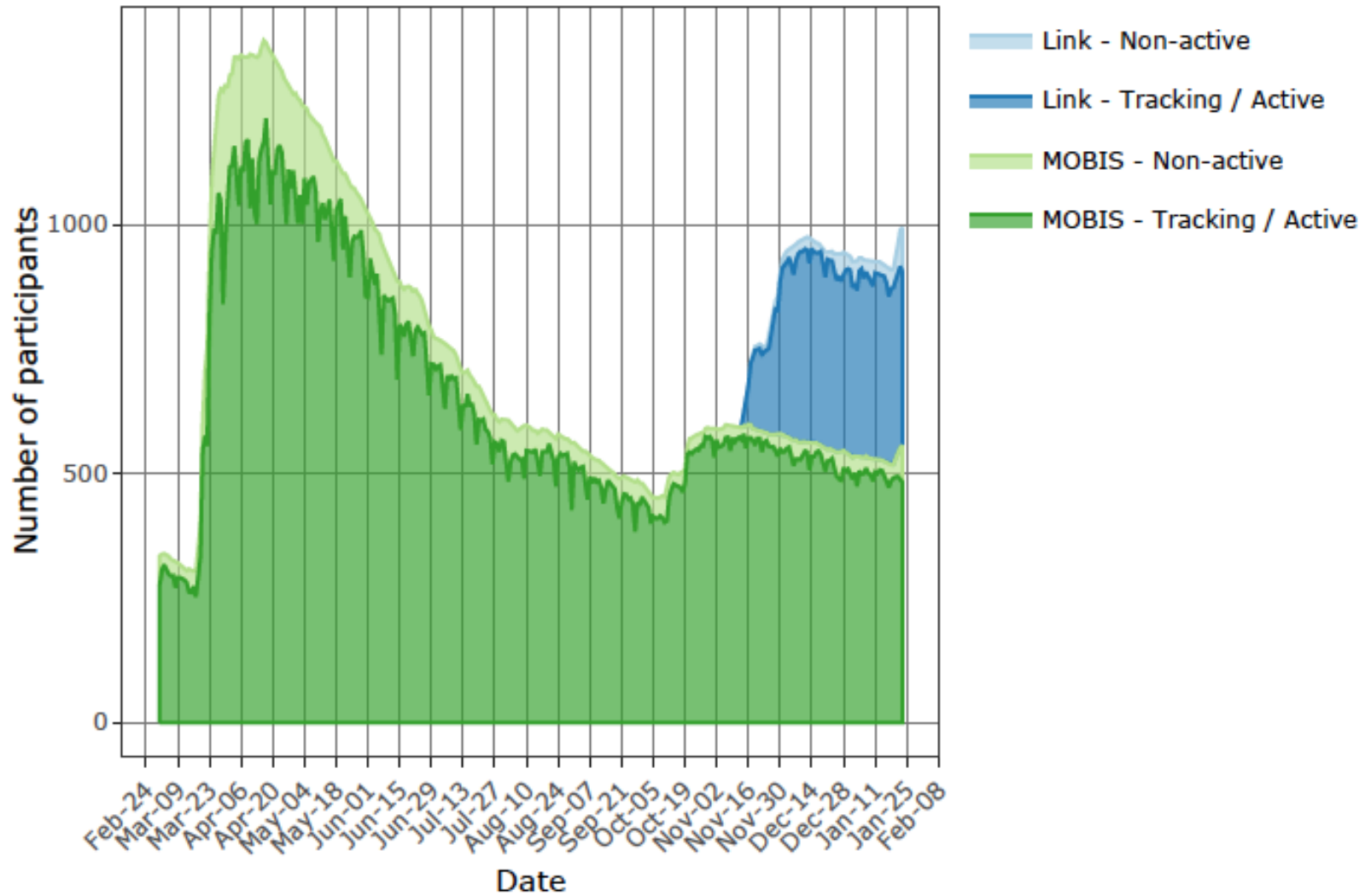
MOBIS Sample

MOBIS sample of fall 2019

- A virtual mobility pricing study with car and transit users
- Yes, the traveller respond substantially
- Agglomerations of the German and French speaking Switzerland
- 3750 participants for 8 weeks; 100 Franks incentive
- About 25% of eligible participated
- Roughly representative on the usual dimensions
- Catch-a-day app (motion-tag, Berlin)

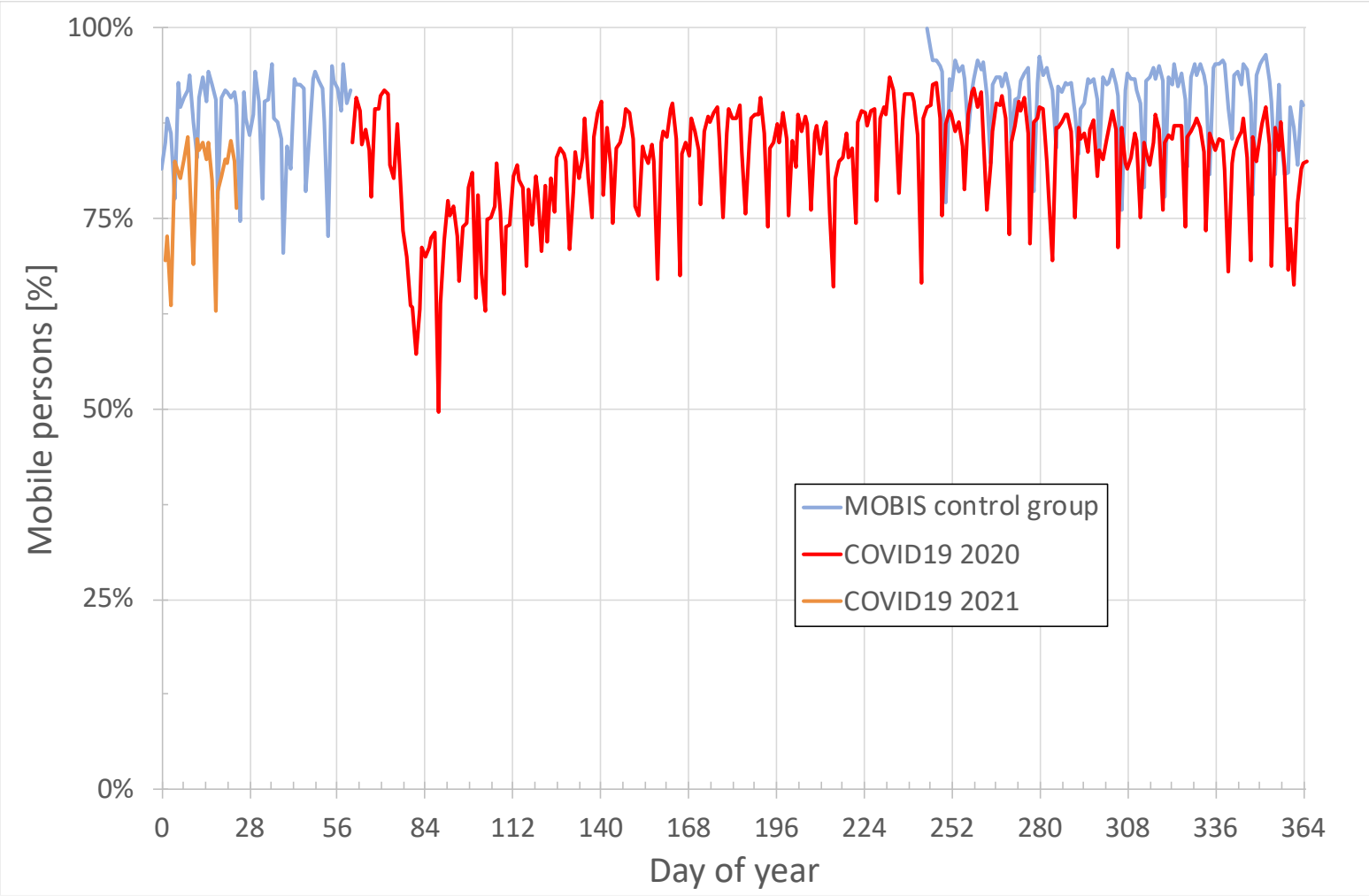
MOBIS COVID19 sample

MOBIS/COVID19 sample since March 2020



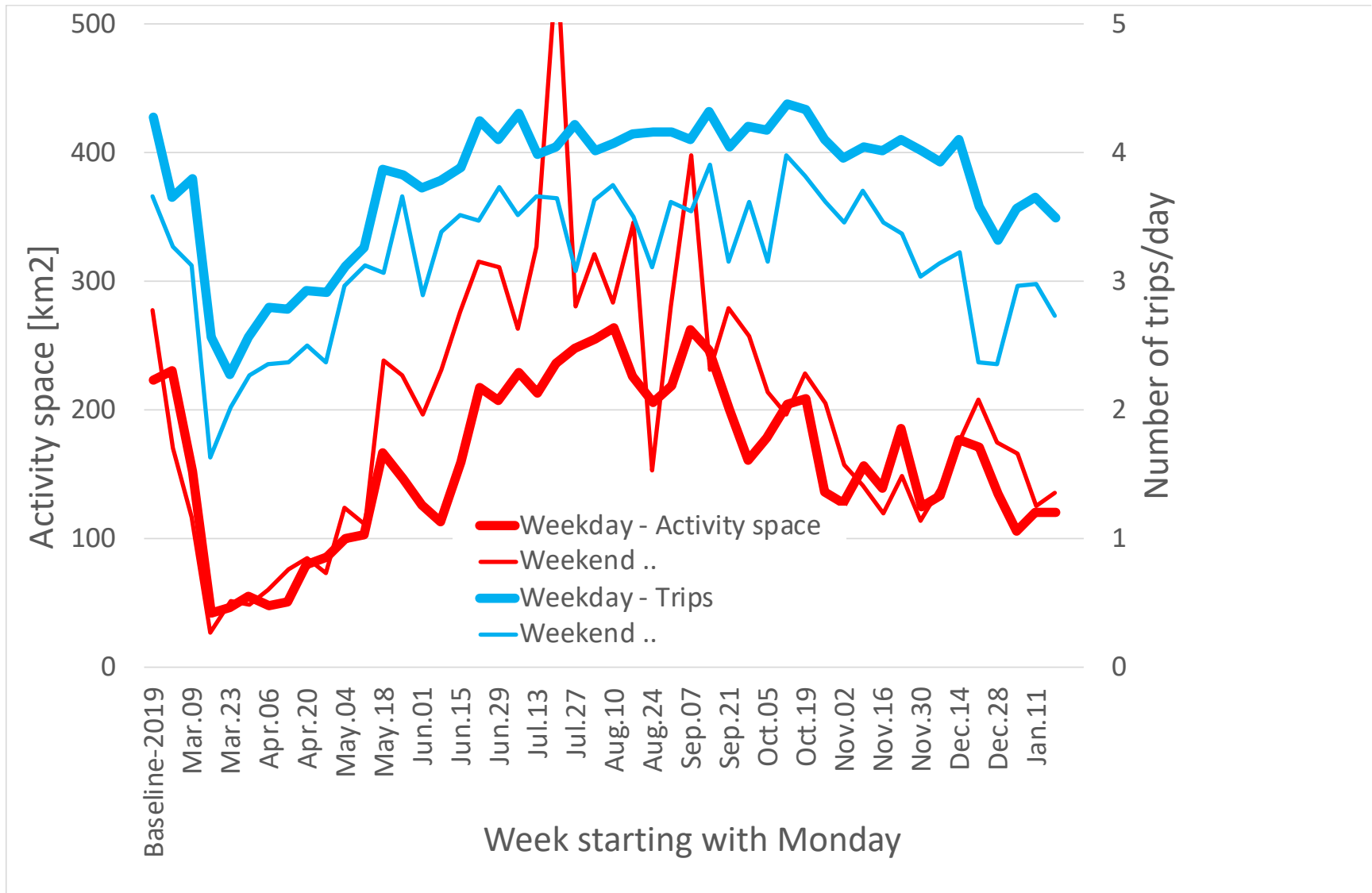
MOBIS/COVID19: Out-of-home share

Share of mobile persons by day since September 2019

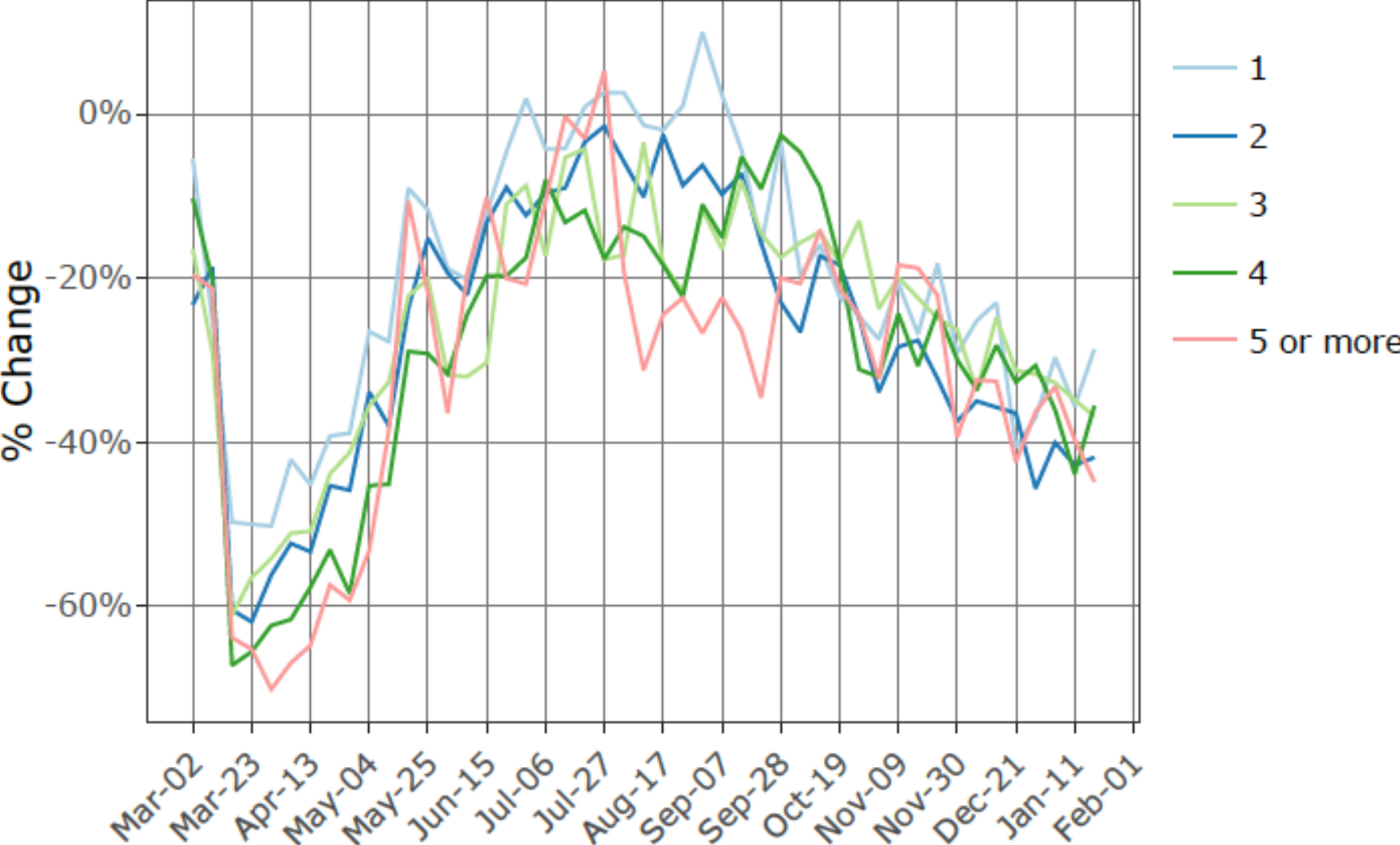


MOBIS/COVID19: PKm, trips and activity spaces

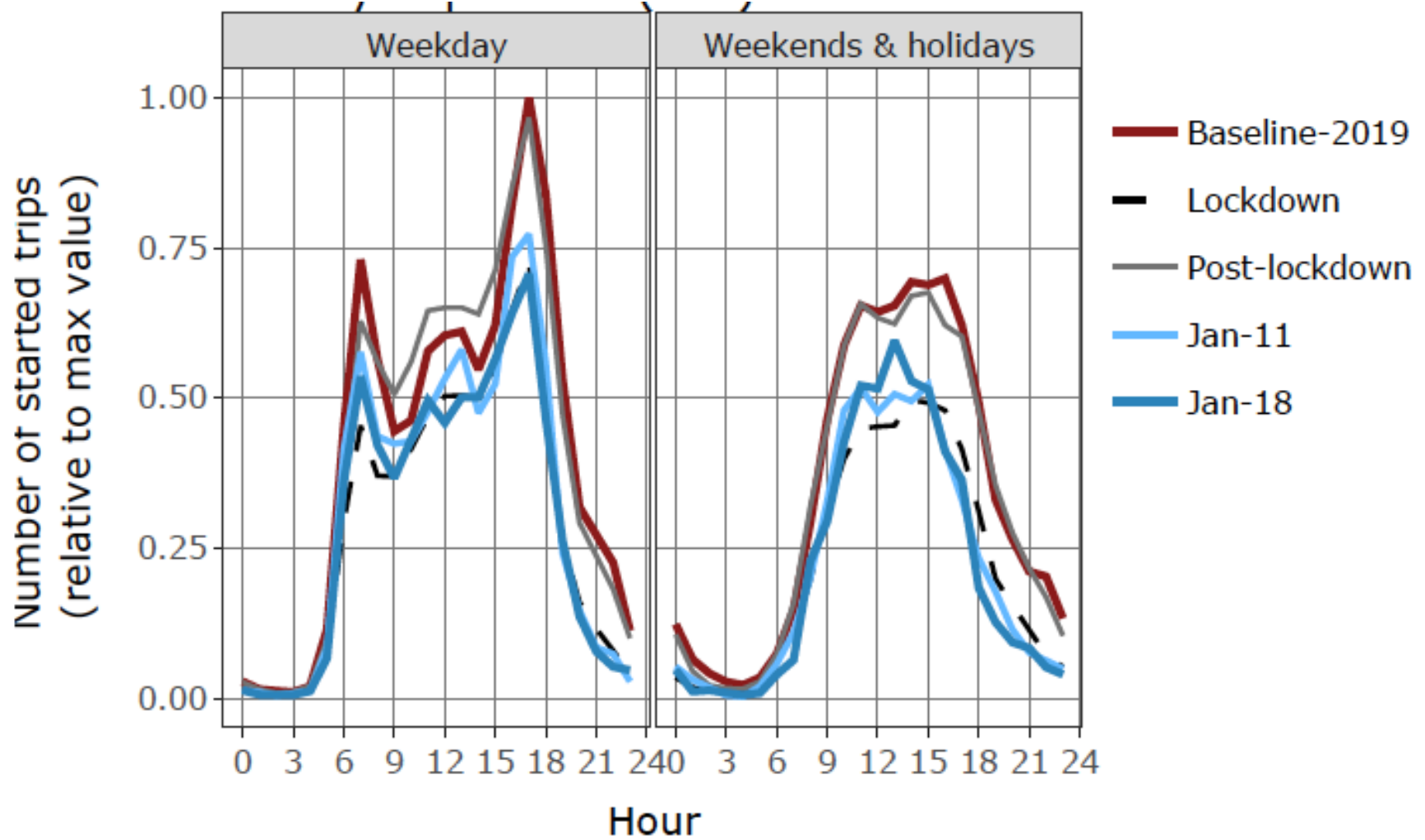
$\Delta\%$ of number of trips and size of activity space



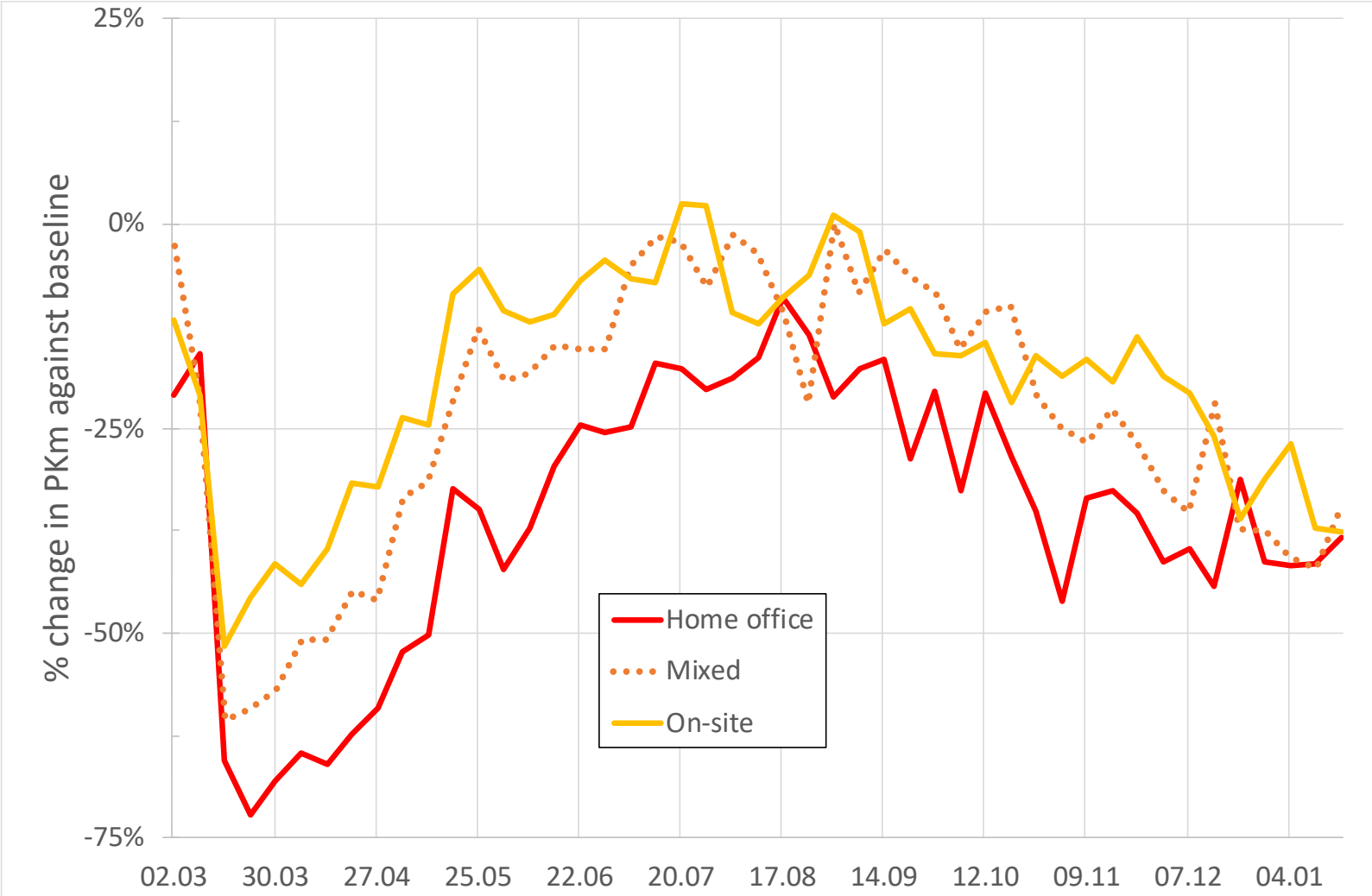
$\Delta\%$ in PKm by household size



Shift in temporal patterns

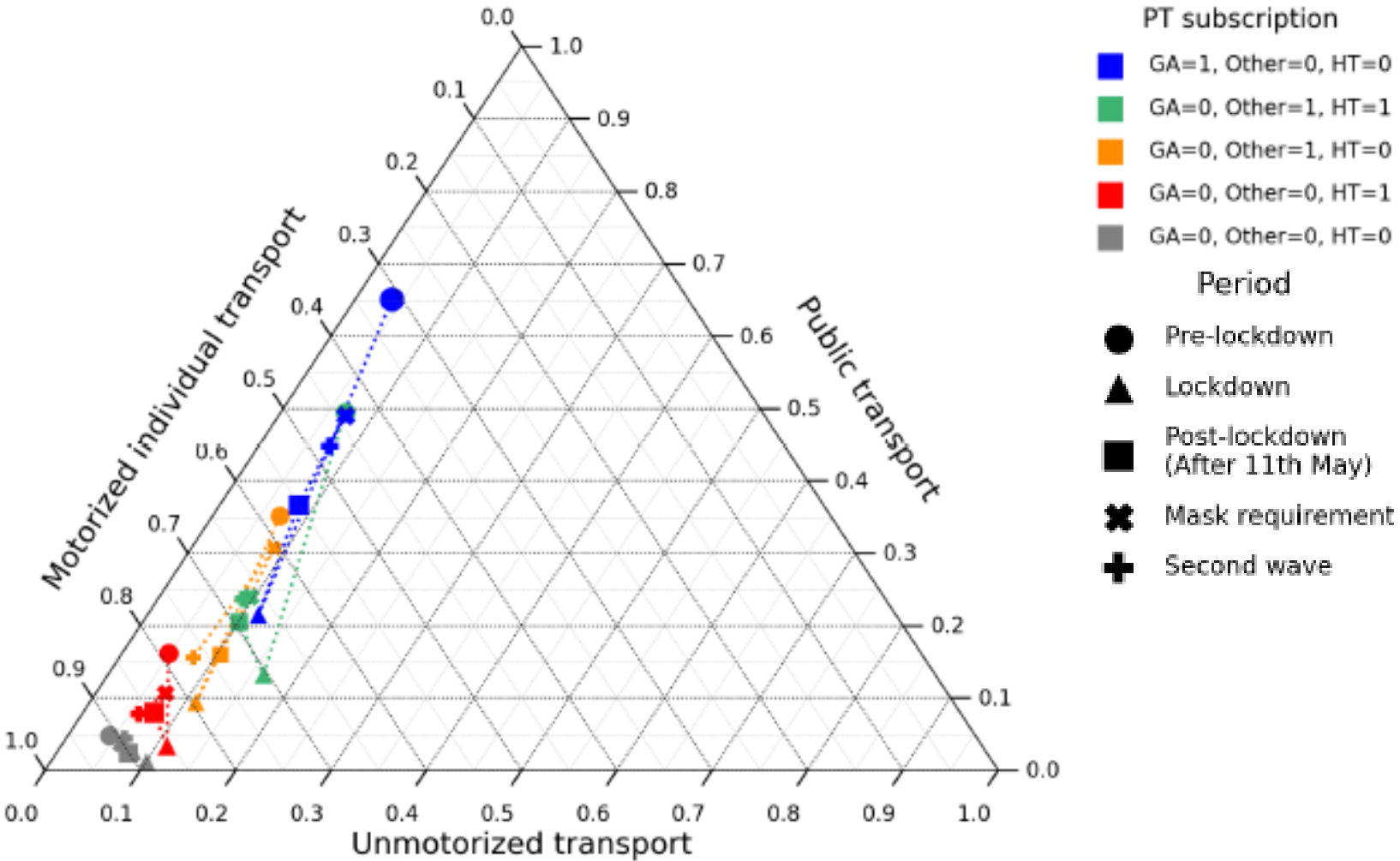


$\Delta\%$ change in PKm by work location: WFH impact?

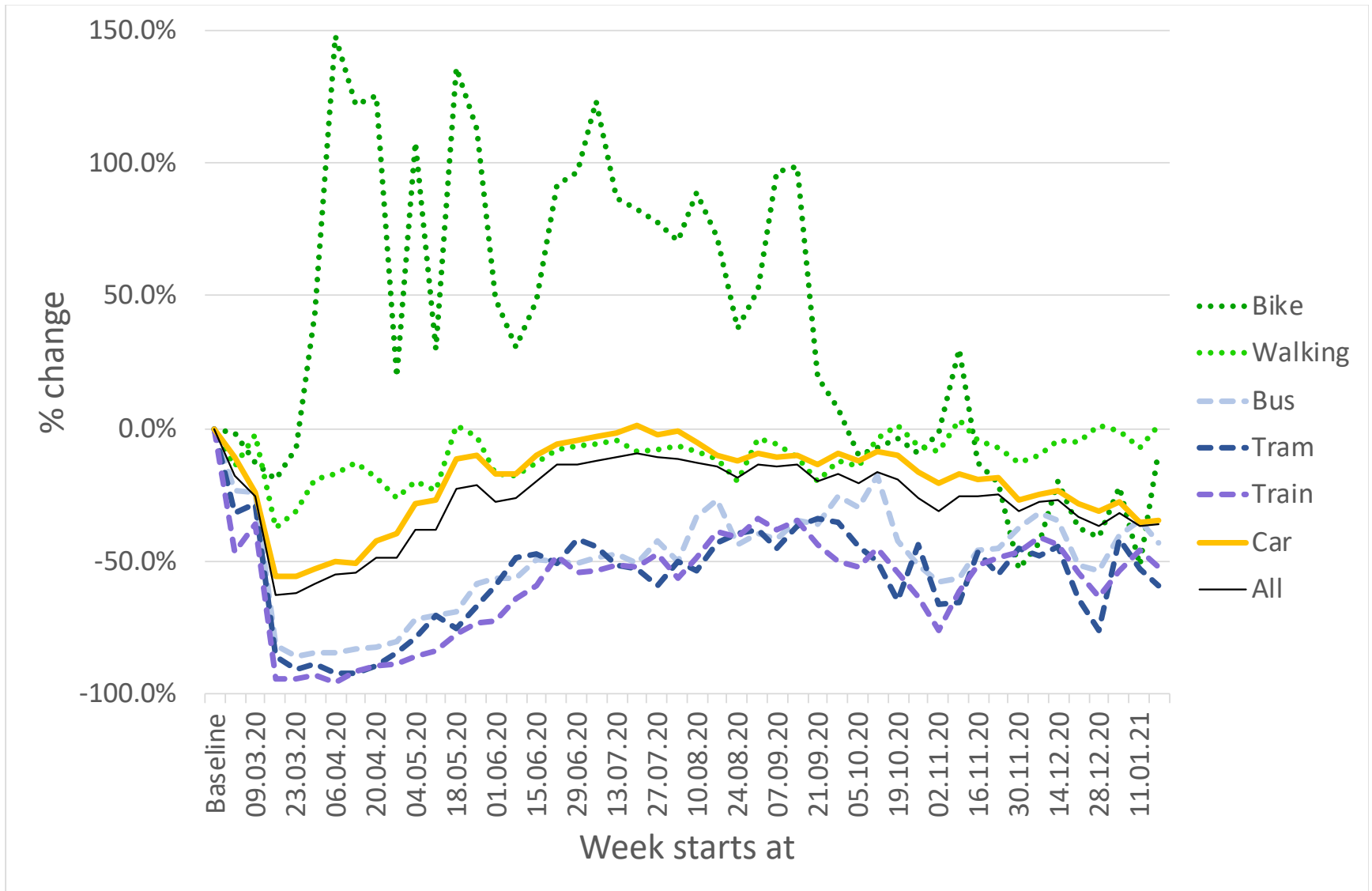


MOBIS/COVID19: Mode choice

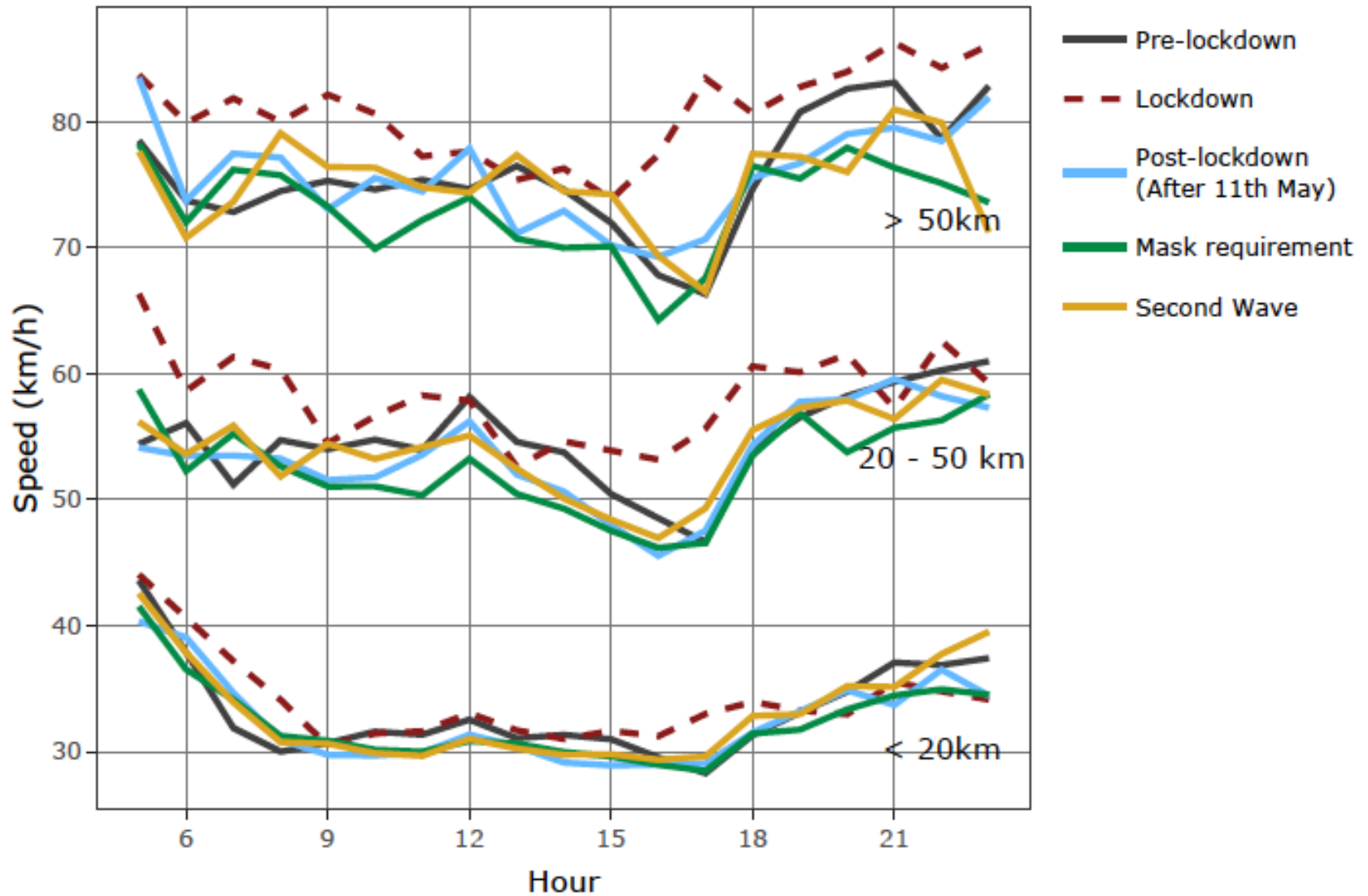
Working day Pkm by mode and phase of the pandemic



MOBIS/COVID19: PKm change by mode



COVID19 door-to-door car speeds



Dilemma of transport policy and long term changes

Dilemma of transport policy

Accessibility ~ Productivity ~ Social welfare

Car accessibility ~ Car ownership ~ 1/Commitment to transit use

Accessibility ~ VMT ~ CO₂ emission for current fleet technology

Accessibility ~ Sprawl ~ VMT

Challenge of COVID19 for spatial policy making

Pandemic threat ~ Sprawl ~ VMT

Pandemic threat ~ WFH ~ VMT without control (reorganisation of time)

Pandemic threat ~ WFH ~ 1/productivity without household reallocation of tasks

Sprawl and WFH ~ 1/commitment to transit use ~ congestion

Sprawl ~ 1/spatial equity

Questions ?

ivtmobis.ethz.ch/mobis/covid19/

www.ivt.ethz.ch