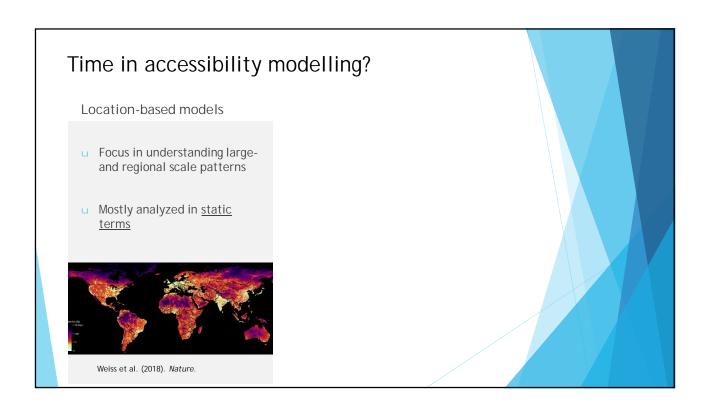
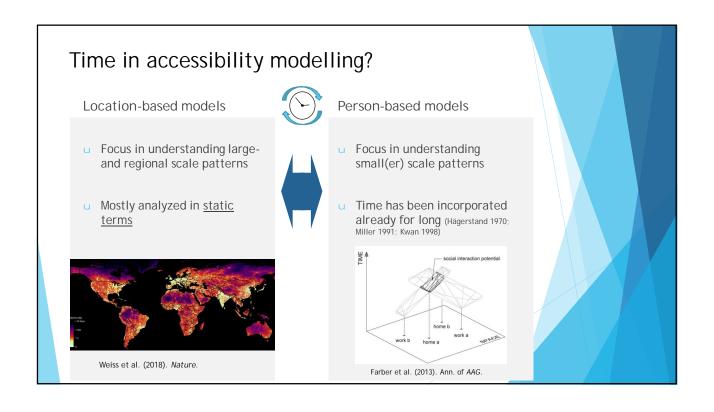


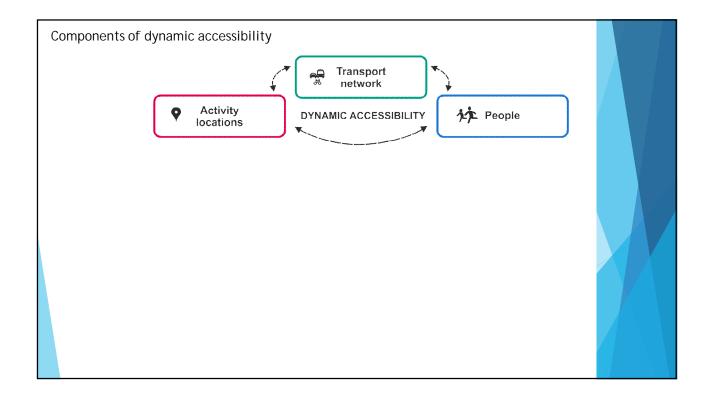
Objectives

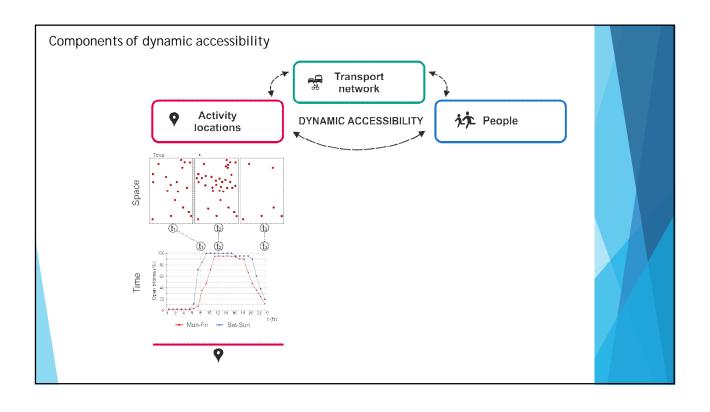
- u How to fully incorporate time to <u>location-based</u> accessibility modelling?
- u Present a generic framework for dynamic accessibility modelling
- u Conduct a systematic analysis of the importance of time into different components of accessibility

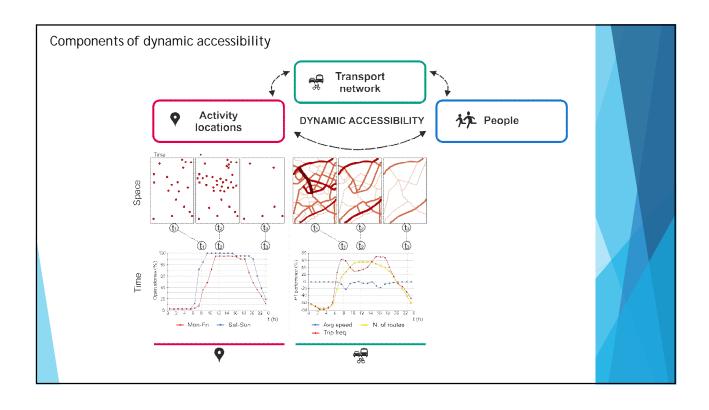


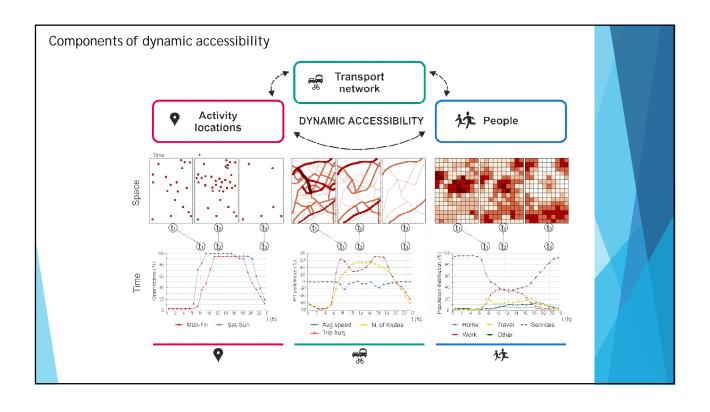




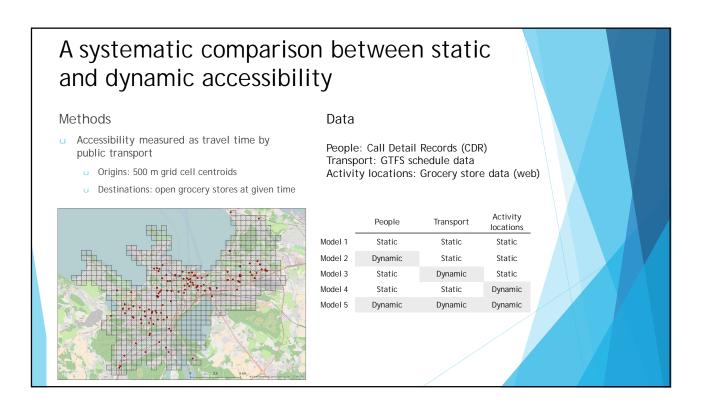


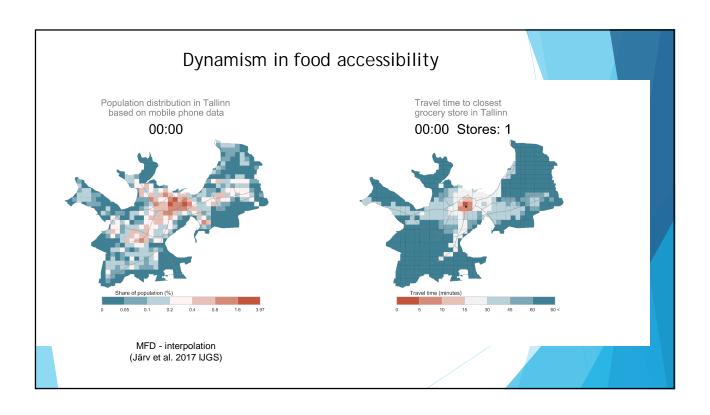








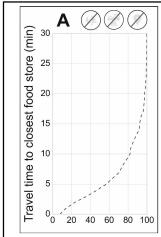




Does time matter?

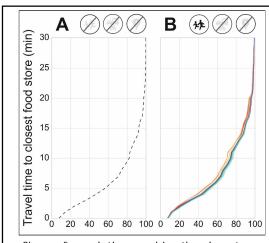
Adding one dynamic element at a time

What is the share of population that reaches their closest grocery store within given travel time?



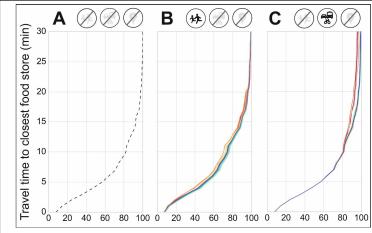
Share of population reaching the closest grocery store

 A Fully atemporal model



Share of population reaching the closest grocery store

- A Fully atemporal model
- B Only people dynamic

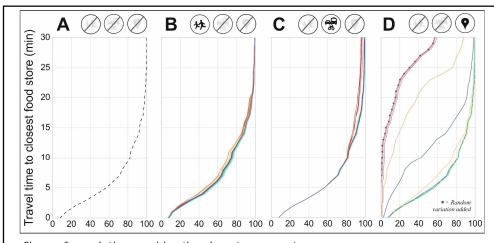


Share of population reaching the closest grocery store

A Fully atemporal model

B Only people dynamic

C Only transport network dynamic



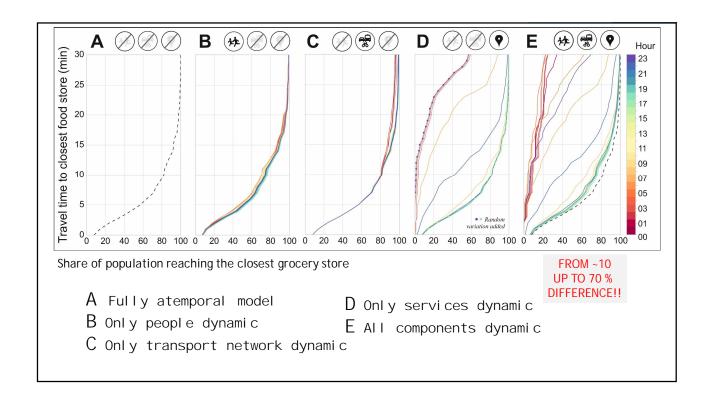
Share of population reaching the closest grocery store

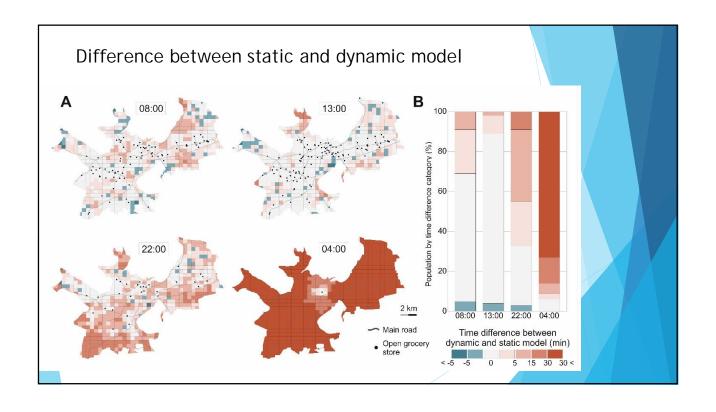
A Fully atemporal model

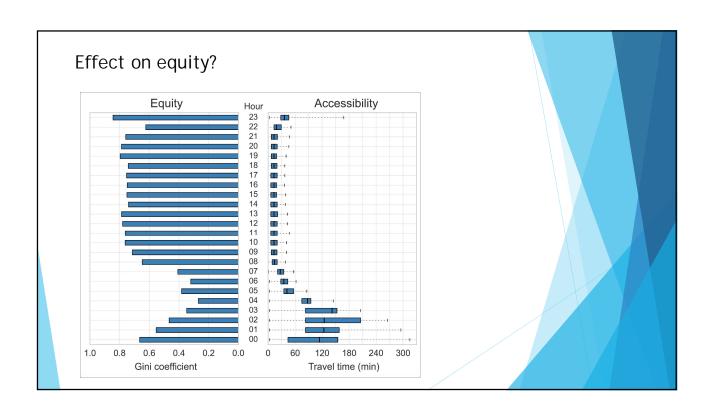
D Only services dynamic

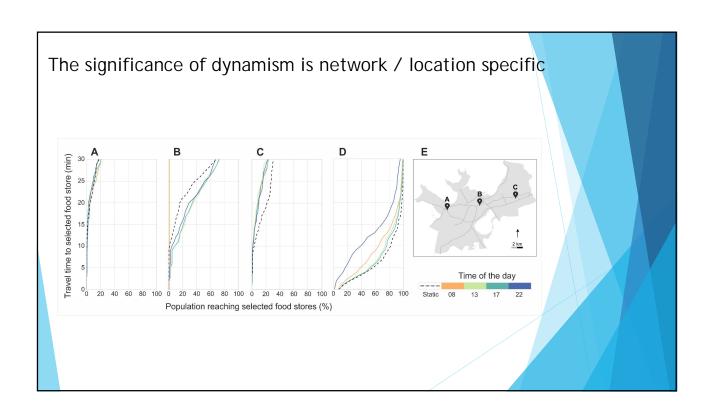
B Only people dynamic

C Only transport network dynamic









Conclusions

- u Time makes a difference (e.g. Tenkanen et al. 2016; Widener et al. 2017; Kujala et al. 2018)
 - u Static model tends to overestimate accessibility (case specific)
- Data and tools for handling temporality (and multimodality) in location-based accessibility analyses are increasingly available

Conclusions

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Location-based models

- u Large scale analyses possible
- Data intensive
 - Getting access to transport and activity location data is easy
 - u Getting access to data about whereabouts of people can be difficult (e.g. CDR) à Social media as an alternative data source?

Person-based models

- u Small(er) samples
- u Detailed in-depth information
- More difficult to generalize



