Combining smartphone based application MobilityLog and quantitative interviews to study people`s mobility

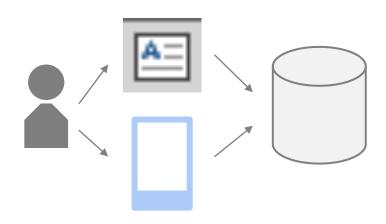
Siiri Silm

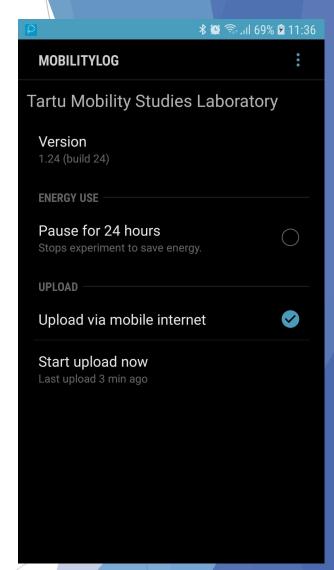
Anto Aasa, Ago Tominga



Smartphone tracking

- Smartphone application MobilityLog
 - Location data (GPS coordinates, timestamps of the coordinates).
 - Call activities metadata (start and end time of incoming and outgoing calls, SMSs).
 - Phone use data (screen on/off/unlocked, installed apps, use of alarm clock, etc.).
- Quantitative interviews
 - Important places (e.g. residence, workplace, school, leisure places etc.)
 - Members of social network
 - Transportation usage
 - Socio-demographic background
 - etc.







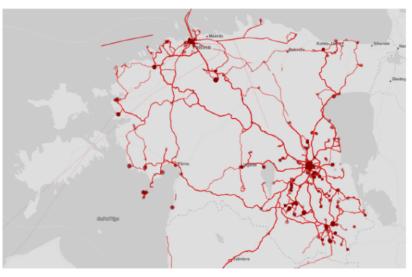


Spatial mobility

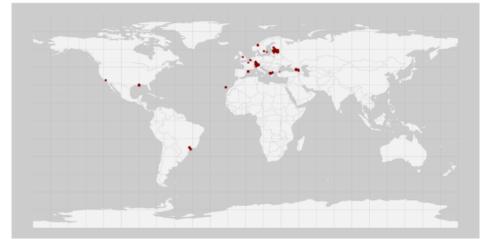
City (Tartu)



Country (Estonia)

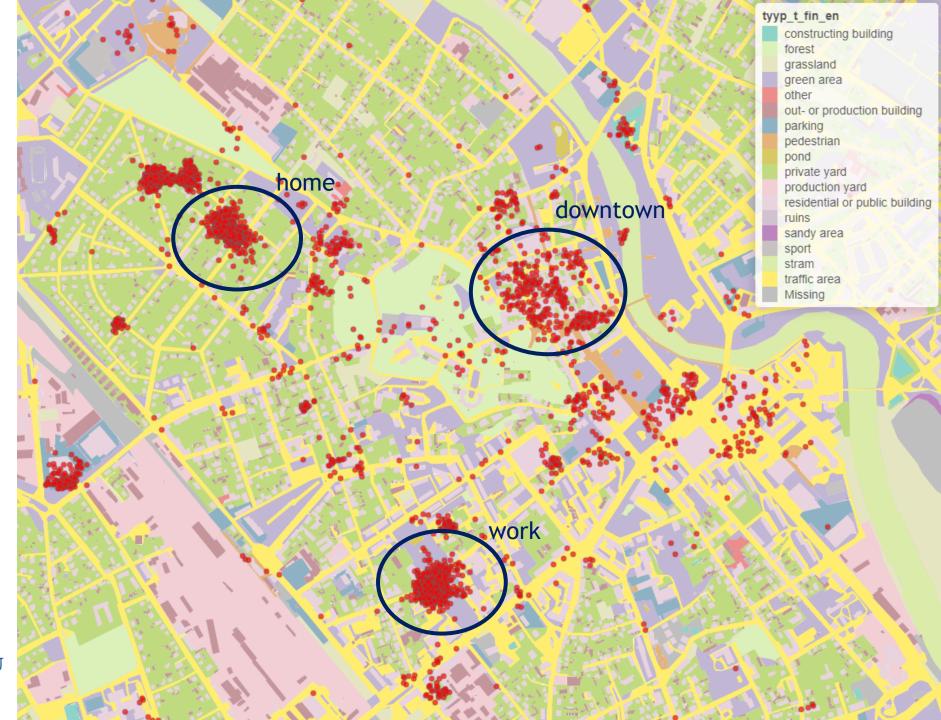


Whole world



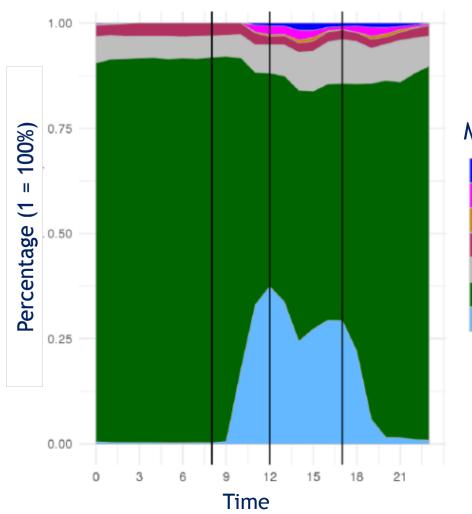


Stops and meaning of the places



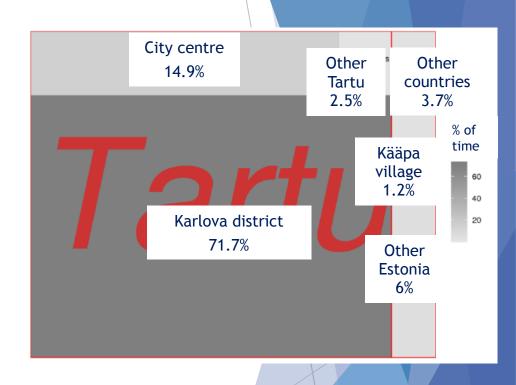


Distribution of visited places



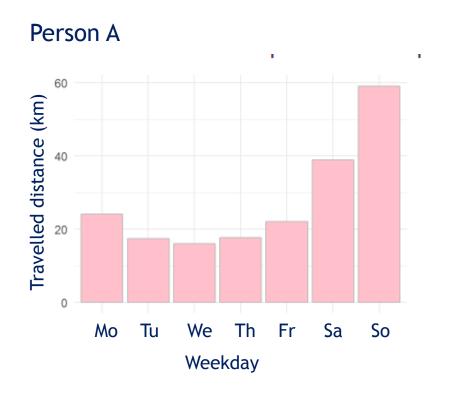
Meaning of the places

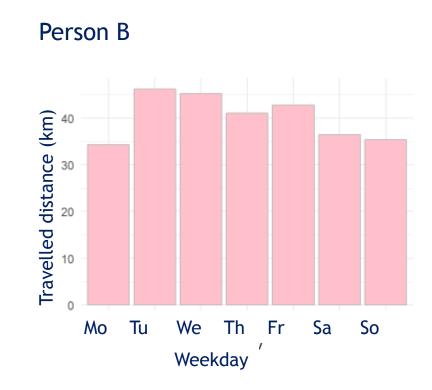






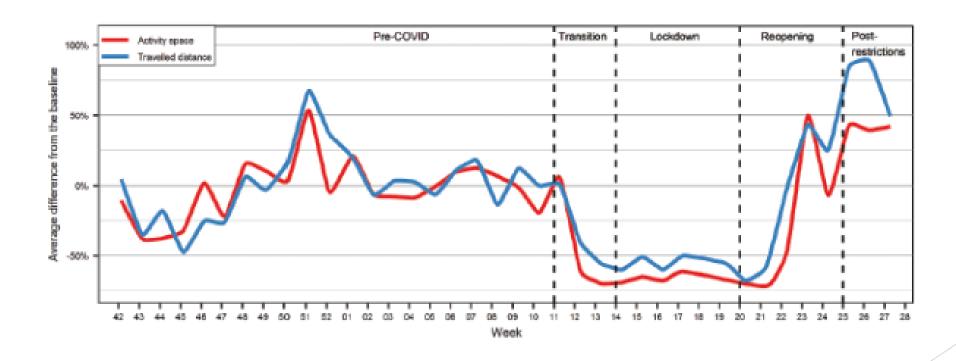
Mobility types







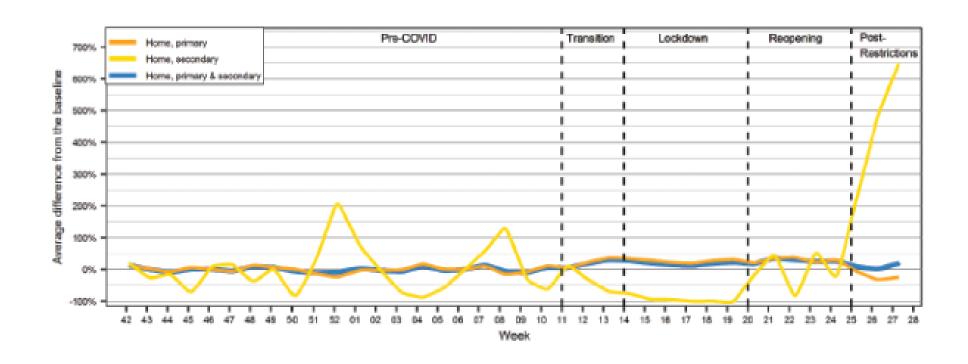
Distance travelled and activity space extent



Järv, Olle; Tominga, Ago; Müürisepp, Kerli; Silm, Siiri (2021). The impact of COVID-19 on daily lives of transnational people based on smartphone data: Estonians in Finland. Journal of Location Based Services, 1–29. DOI: 10.1080/17489725.2021.1887526



Time spent at primary and second home

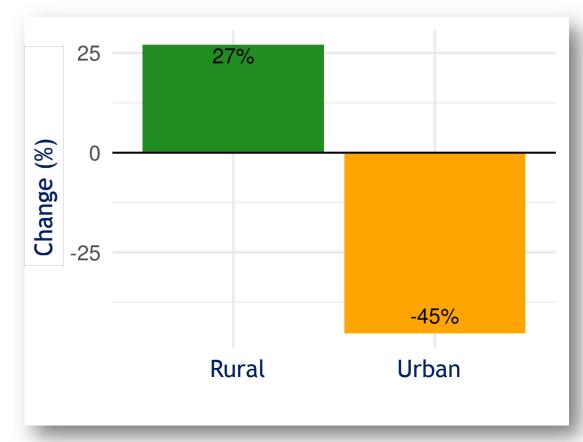


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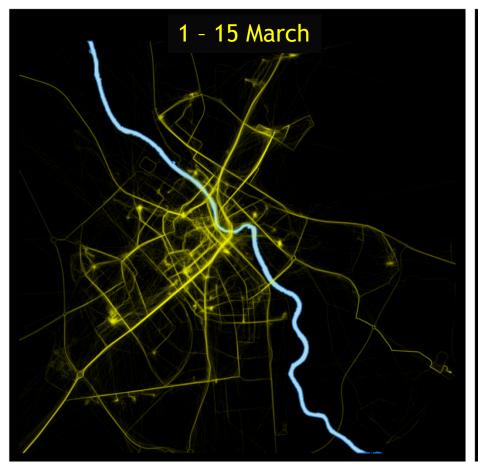


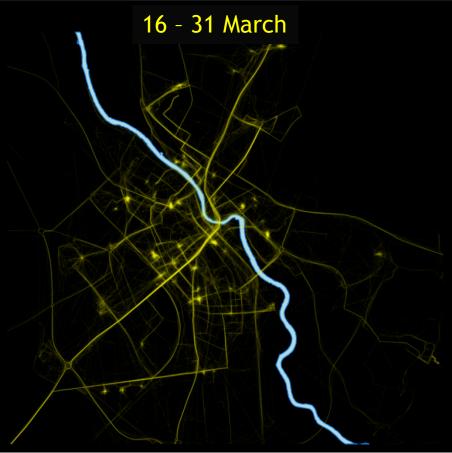
UNIVERSITY OF TARTU
Mobility Lab

Change in visits to urban and rural areas



Change in City (Tartu)







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The impact of COVID-19 on daily lives of transnational people based on smartphone data: Estonians in Finland

Olle Järv, Ago Tominga, Kerli Müürisepp & Siiri Silm

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