

# Promoting active, healthy commuting

Velo City – Cycling for the Ages Dublin, June 26 2019

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https://i.imgur.com/Ittqu.jpg

ZGIS

Guthold et al. 2018, The Lancet

**42.3 out of 100** do not meet WHO recommendations for physical activity (150 minutes per week) in western countries.

Lee et al. 2012, The Lancet

**9%** of premature mortality caused by physical inactivity worldwide.

WHO 2018, GAPPA

**54 billion \$** per year direct health care costs caused by physical inactivity.

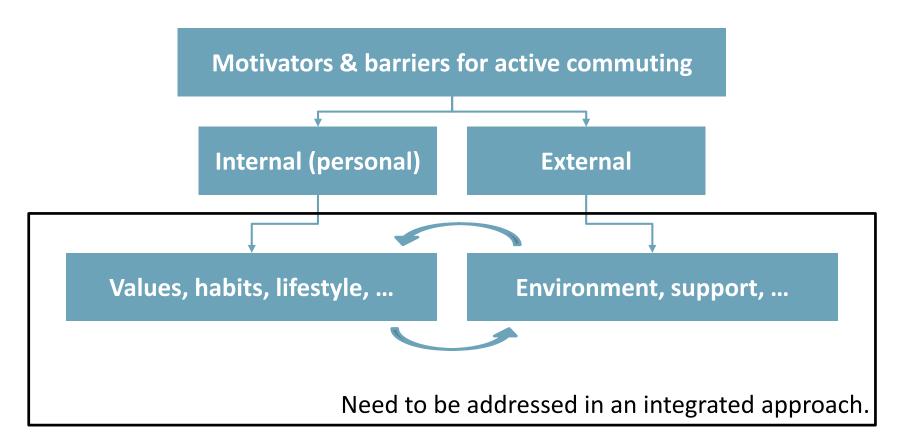


lack of time = #1 reason for insufficient physical activity



using daily commute by switching to active modes









- Commuting trips as opportunity for physical activity
- Evidence for companies
- Individual recommendations for commuters

















investigation of health effects of interventions



spatial models and optimization approaches



web-based information platform





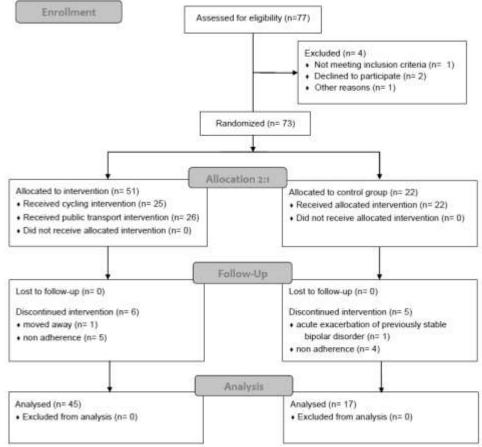
## Triggering behaviour change

Pre-/post examination

**Mobility tracking** 



Clinical intervention study, N = 73 (2:1) 1 year



Niederseer et al. (under review)





### Health effects IG

Improved exercise capacity ("fitness") Reich et al. (under review)



- Reduction of body fat Sareban et al. (under review)
- Increase in QoL scores (SF-36) Neumeier et al. (under review)



For all investigated parameters: the more active mobility (dose), the larger the health gain (effect) Schmied et al. (under review)

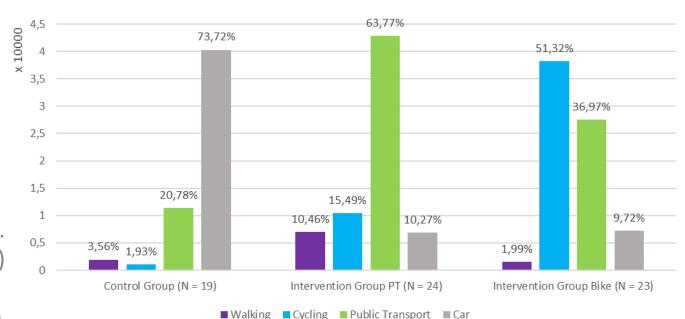




## **Mobility behaviour**



Mileage (km) & Modal Split per Group
GISMO Intervention Study (1 year)

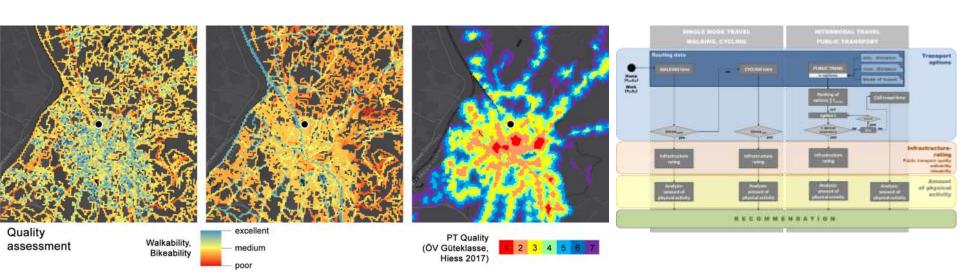


Loidl et al. (under review)



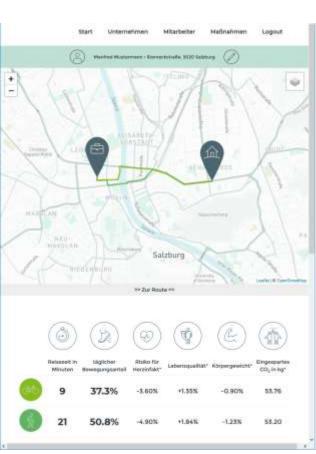


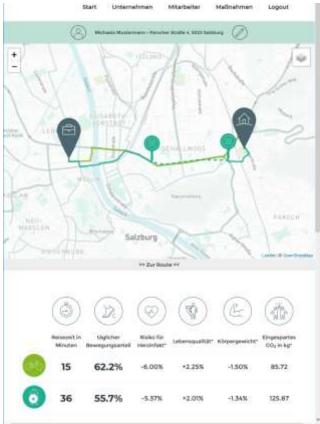
## **Environmental factors**

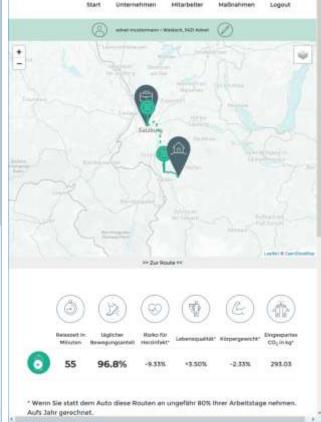


Loidl et al. 2018, GI Forum





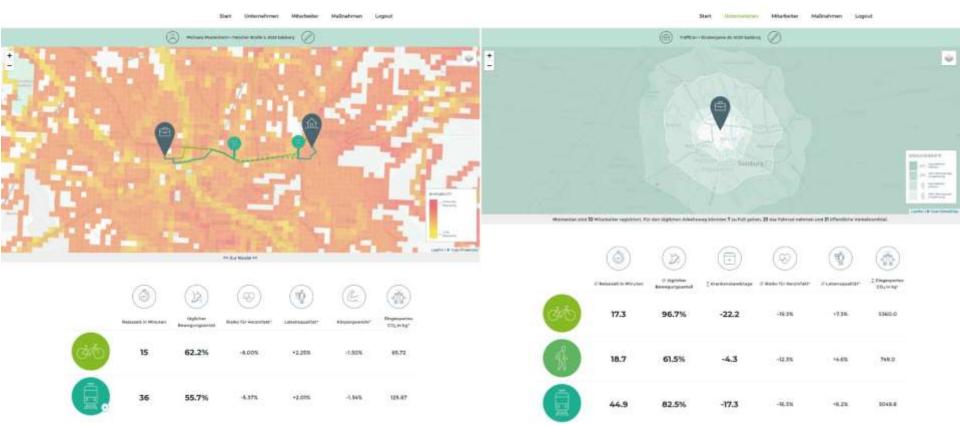








## Interactive web tool



### Conclusion

- Health gains through active commuting
  - Contribution to fight prevalent physical inactivity
  - No additional time ressources required
- Behaviour change is possible
  - Targeted measures + individual recommendations
  - Requires cross-sectional collaboration
- Big effects with little investment

Thank you for your attention!



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