





Session 17

Cycling and walking: what does the future look like?



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Cycling and walking: what does the future look like?



Juan Caballero EUROCITIES

Project coordinator - mobility

EUROPEANMOBILITYWEEK

16-22 SEPTEMBER 2019









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Elke Sumper EUROPEANMOBILITYWEEK Coordinator in Austria Klimabündnis-Forschungsinstitut









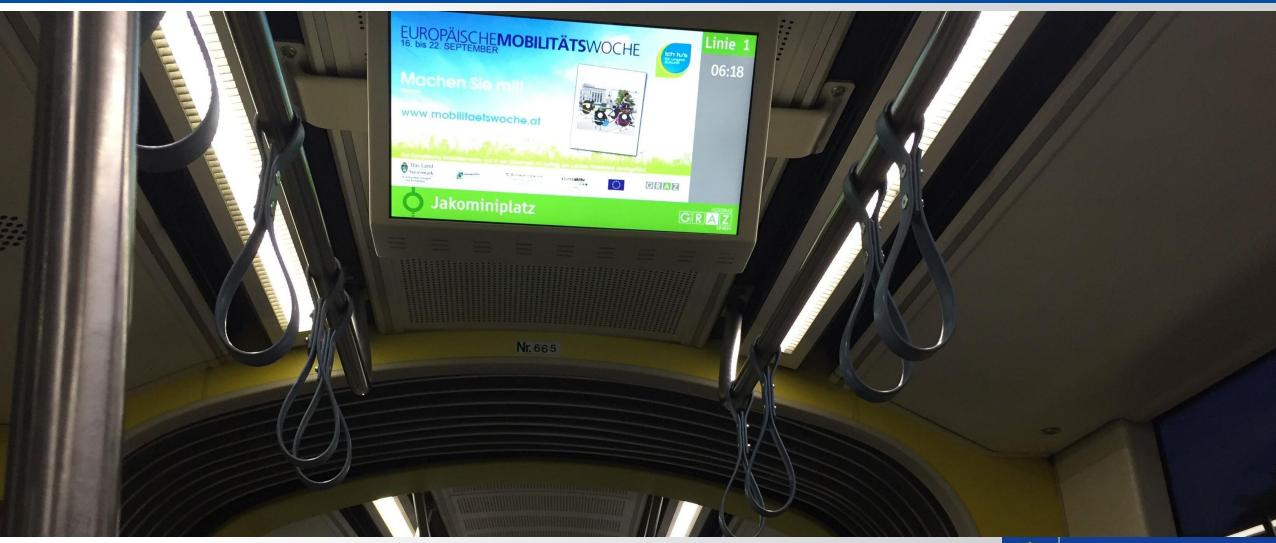






















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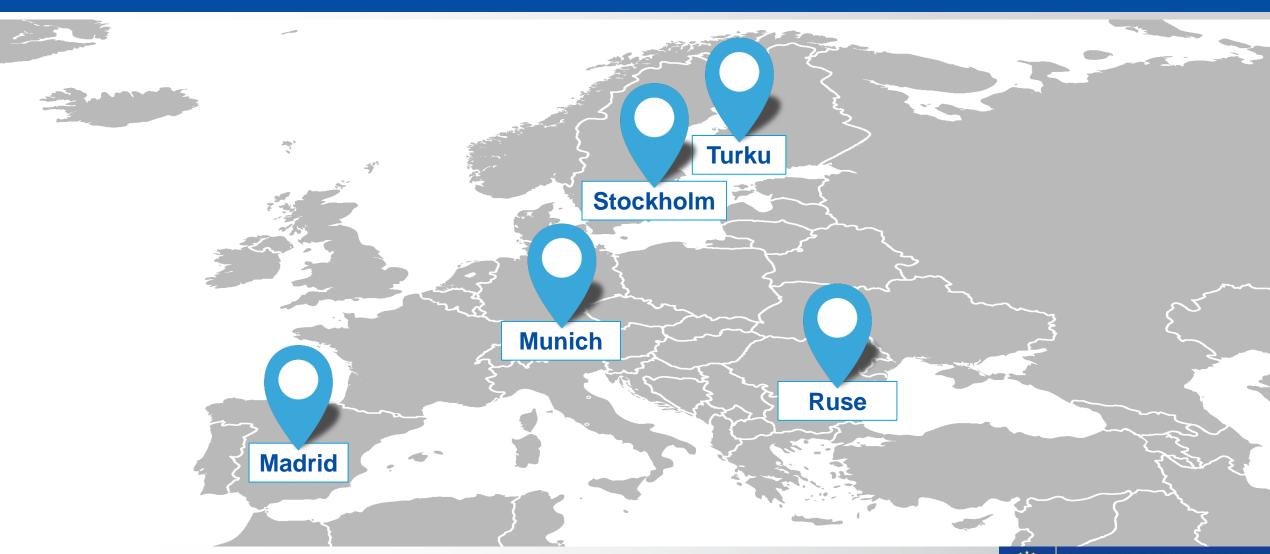


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Paul Fenton

City of Stockholm

Site Manager & WP4 Leader (Safe Walking & Cycling), CIVITAS Eccentric





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CIVITAS ECCENTRIC List of measures

Innovative and participative approach to traffic safety

Software-controlled safety management in the road network

Providing secure pedestrian crosswalks

Safe sidewalks with cycling capability towards the city centre

Policy for re-routing cyclists during construction works

Pedestrian friendly public space outside the city centre

Enabling cycling outside the city centre

Easy, safe and comfortable cycling and walking round the year

Offering test fleets of e-bikes and e-freight bikes





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"What can cities do to make cycling and walking safer?"







"What can cities do to make people choose to walk or cycle instead of using private car?"







"Which strategies can cities apply to tackle new scenarios?"







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Lilian Tilburgs Decisio Consultant













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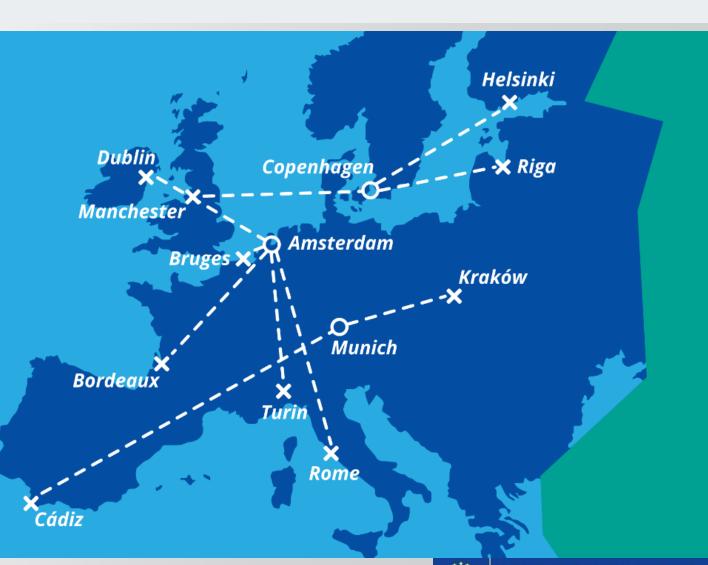




CIVITAS HANDSHAKE 13 Cities delivering change

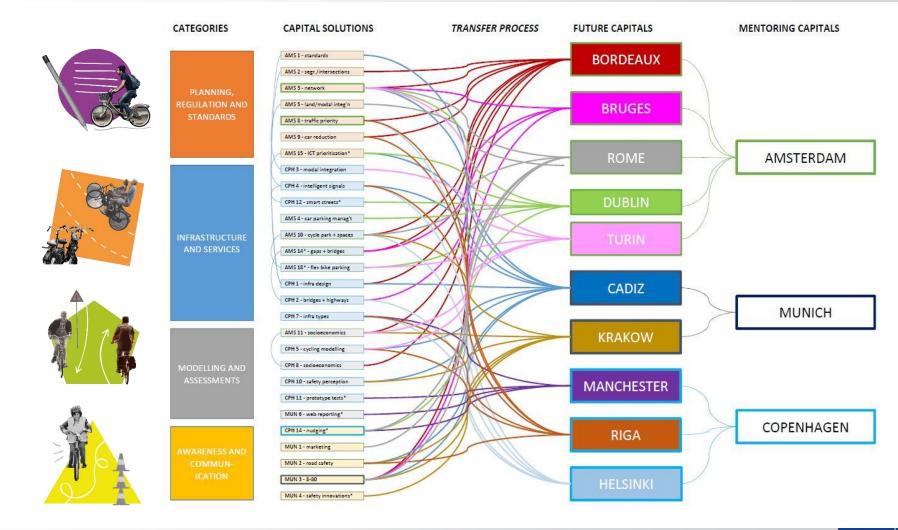
3 Cycling Capitals O supporting 10 Future Cycling Capitals X

- O Amsterdam: Bordeaux, Bruges, Dublin, Rome, Turin
- O Copenhagen: Greater Manchester, Helsinki, Riga
- O Munich: Cadiz, Krakow





Over 60 solutions











Bike

Economics



#CIVITAS2019

CIVITAS HANDSHAKE **Bikenomics**



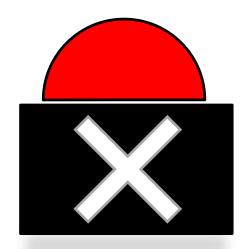


CIVITAS HANDSHAKE **Bikenomics effects**





Quiz time!

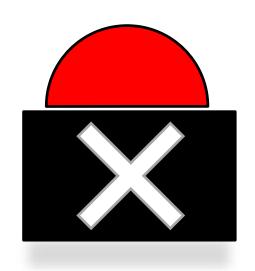








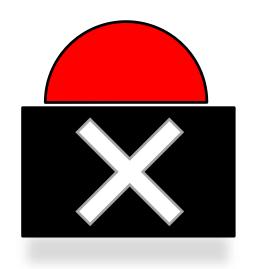
What effects do you think are important to include in the cost-benefit analysis?



- a) Financial effects (construction, maintenance costs...)
- b) Travel time (reliability, nuisance during construction...)
- c) External effects (health, climate, noise, safety...)
- d) Other (comfort, quality of public space, image...)



Which of the following is a disadvantage of cost-benefit analysis?

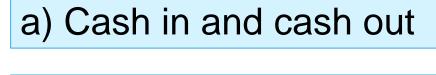


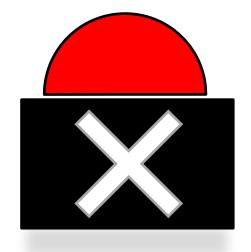
- a) It does not consider the time value of money
- b) It is too complex to implement
- c) Different projects cannot be easily compared
- d) Not all effects can be valued in monetary terms





How should we value these effects over time?

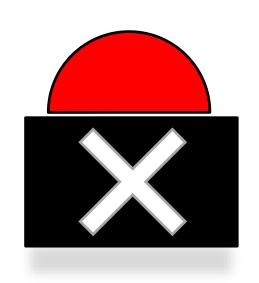




- b) Money tomorrow is worth more than money today
- c) Money today is worth more than money tomorrow
- d) Projects with more risk have a lower discount rate



What was the benefit/cost ratio for a recent project implemented in Bruges?



a) 0

b) 0,5

c) 1,5

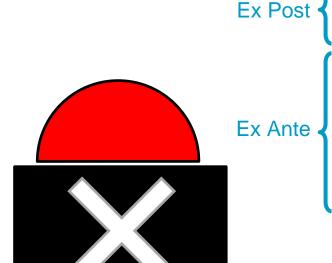
d) 5



Results	NPV in 2018, in mln 2019 EUR		
Financial effects			
Construction costs	- € 24,3		
Maintenance costs	- € 5,5		
Travel time			
Nuisance during construction (car)	- € 8,7		
Cyclists	€ 5,1		
Car	€ 41,6		
Bus	€ 4,4		
Walk	€0,0		
Travel time reliability			
Cyclists	€ 1,3		
Bus	€ 1,1		
Traffic safety	€ 0 - € 0,2 +		
Health (air pollution cyclists)	€ 0,6 +		
Qualitative			
Comfort	+		
Public Space	+		
Image	+		
Total costs	- € 29,8		
Total benefits	€ 45,4 - € 45,6 +		
Balance	€ 15,6 - € 15,7 +		
B/C ratio	1,5		



How can we use these results?



- Evaluating decisions and/or helping future decisions about improving society Making sure tax money is spent well
- Choosing the best alternative (even if alternative is investment in different mode)
- Getting support for a project
- Optimising the investment for the project
- Making it clear who benefits from the project
- Getting a sense of the uncertainties of the project

contact@handshakecycling.eu





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Linda Dörrzapf

Vienna University of Technology - Institute of Spatial Planning Research Unit of Mobility and Transportation Planning









In cooperation with:

aspern.mobil LAB Mobility Lab GrazUrbanen Mobilitätslabor (UML) Salzburg



New methods for recording and evaluating Walkability



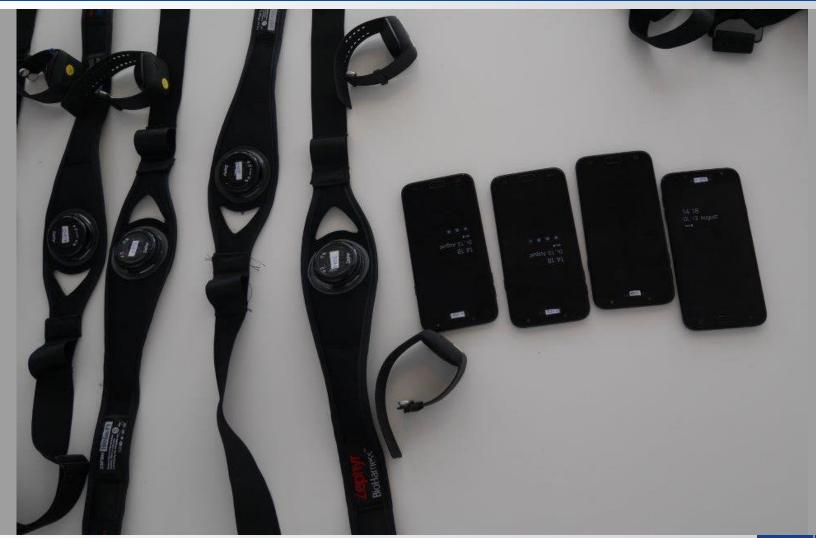


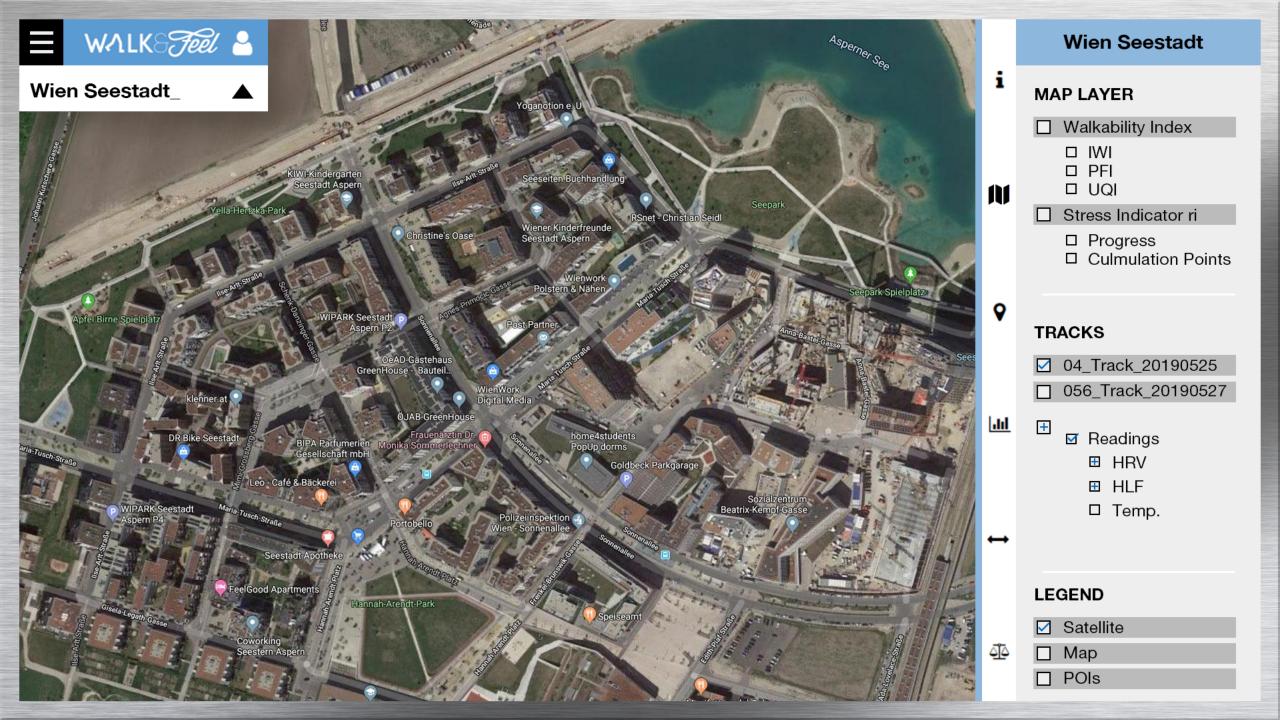
New methods for recording and evaluating Walkability



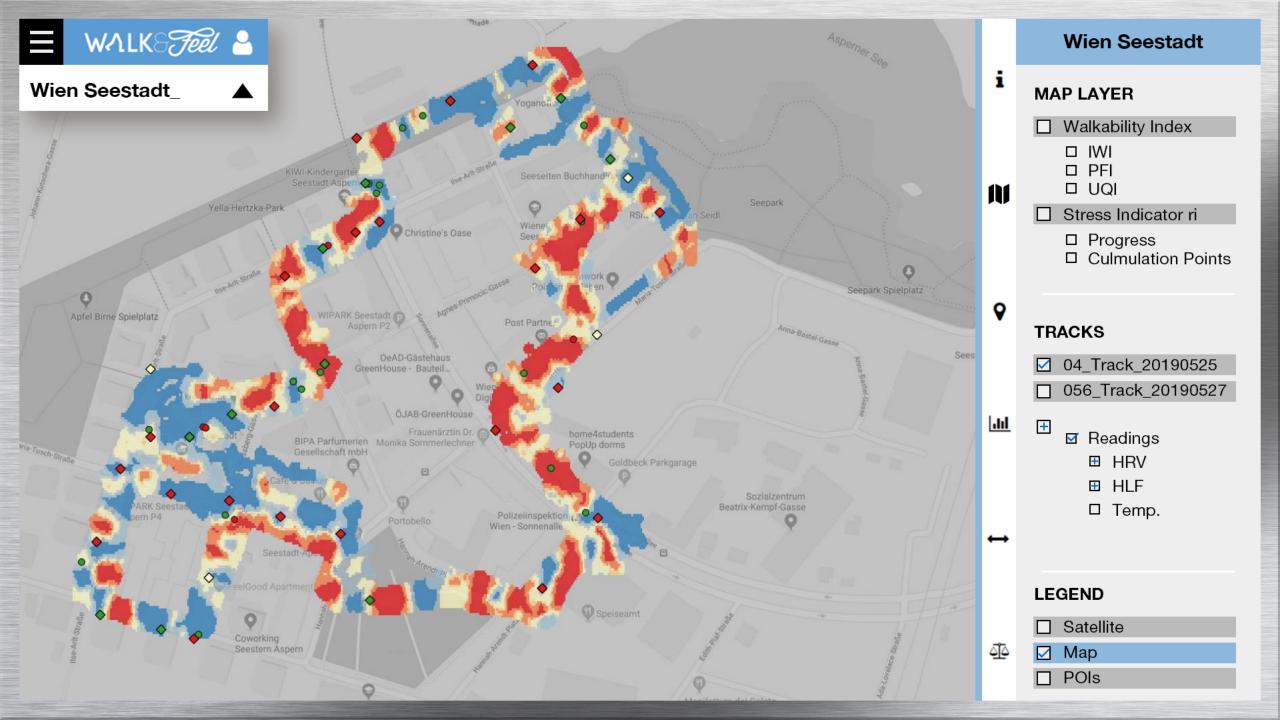


New methods for recording and evaluating Walkability

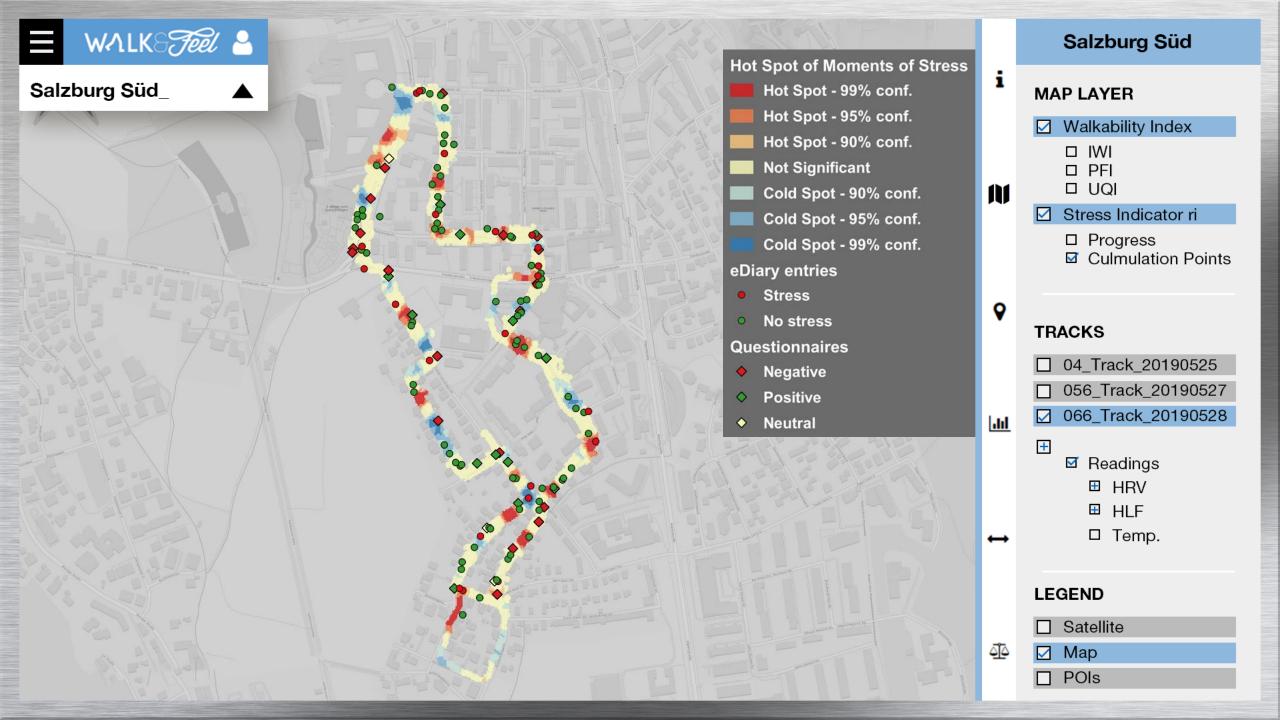














New methods for recording and evaluating Walkability WALKSTEEL



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Petra Jens

Walking officer for the City of Vienna Mobility Agency Vienna







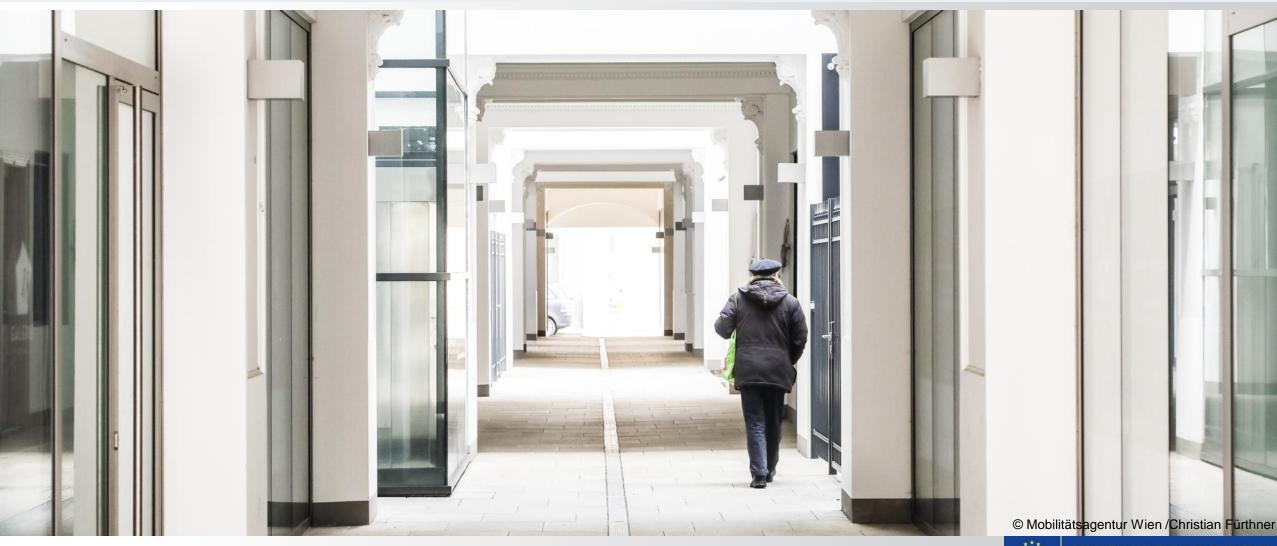




Shortcuts









Shortcuts signs







StreetLife Festival







School streets





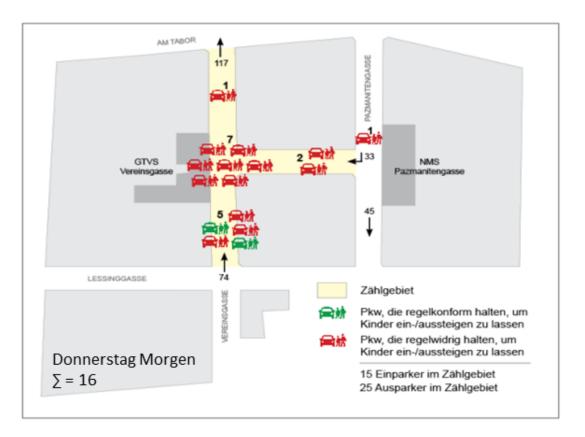


Wrong parking reduced



Pilot Survey

Juni



Survey

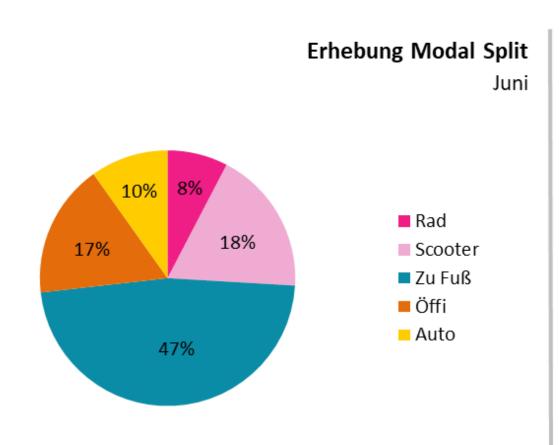
September





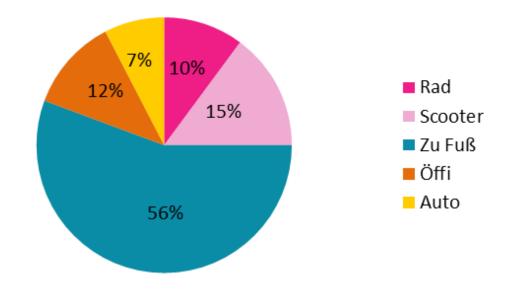
Modal share of students





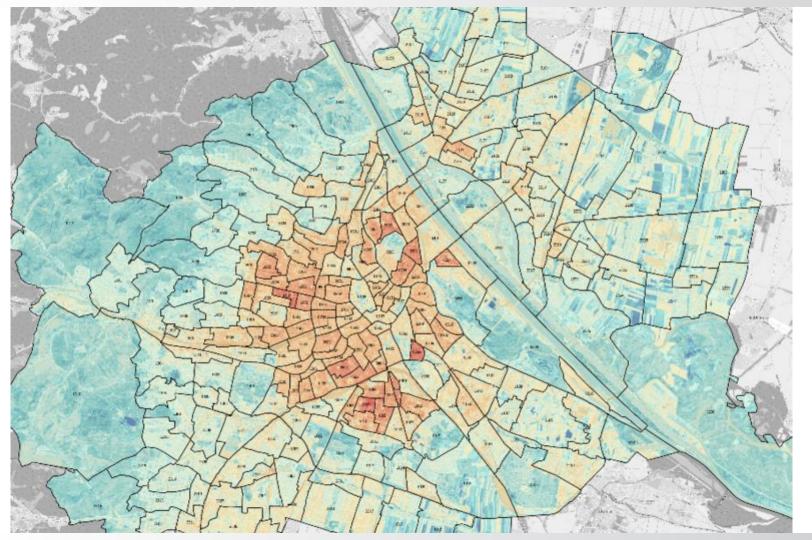
Erhebung Modal Split

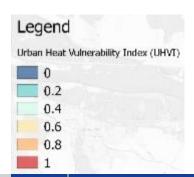
September/Oktober













Cool Streets











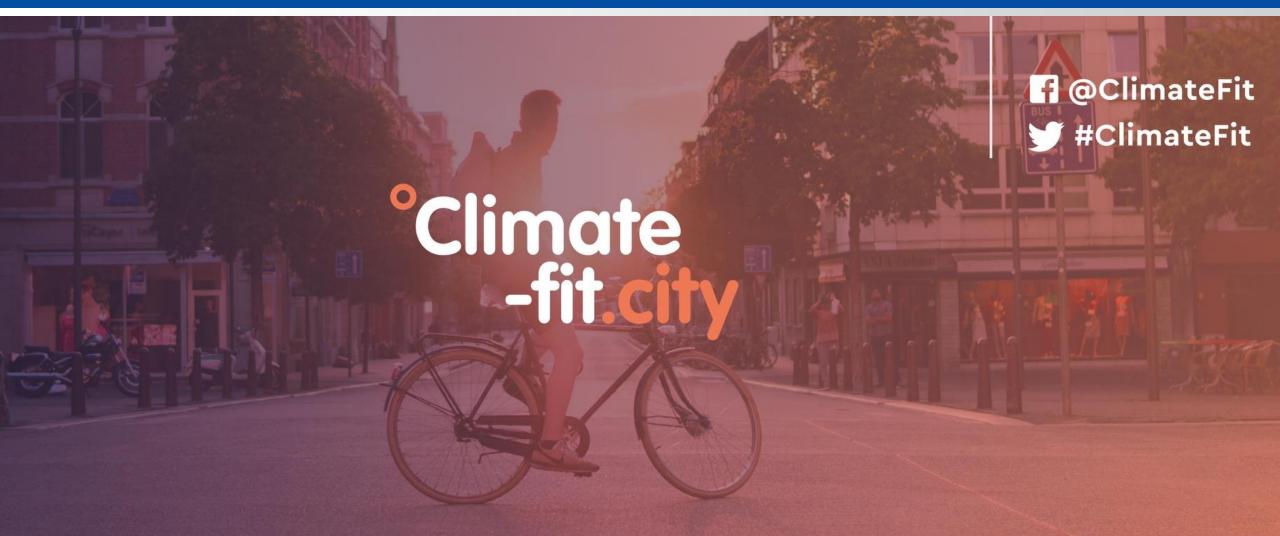


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Judith Köberl Joanneum Research Austria



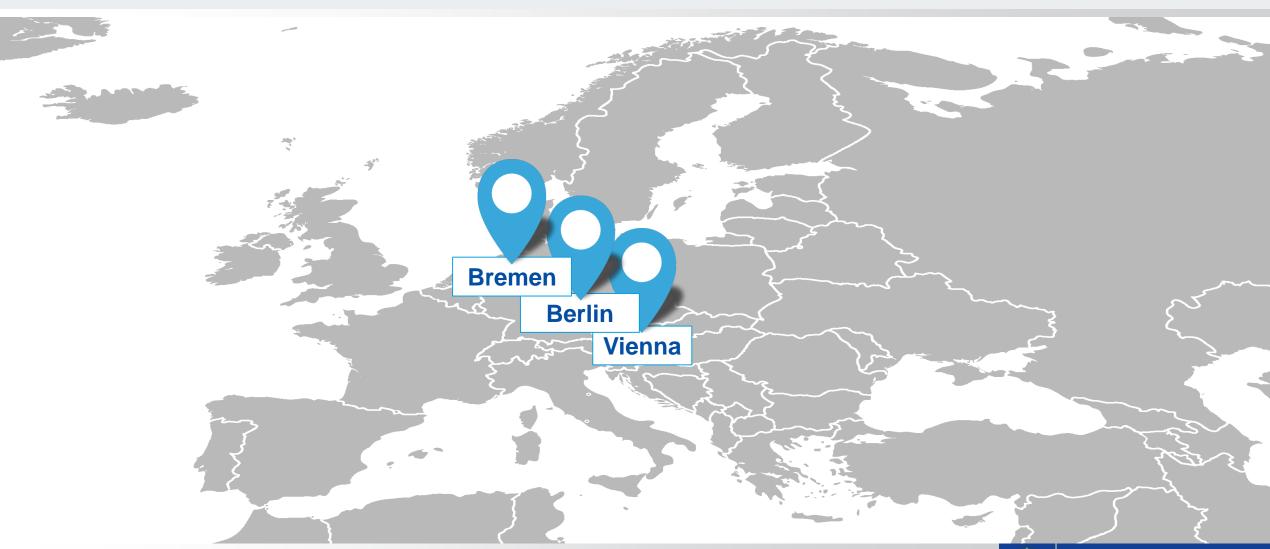






A service to support climate-resilient bicycle traffic planning Climate-fit.city



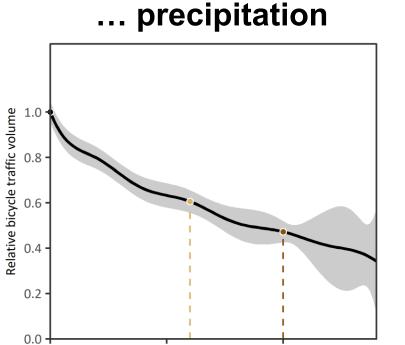


A service to support climate-resilient bicycle traffic planning Climate-fit.city

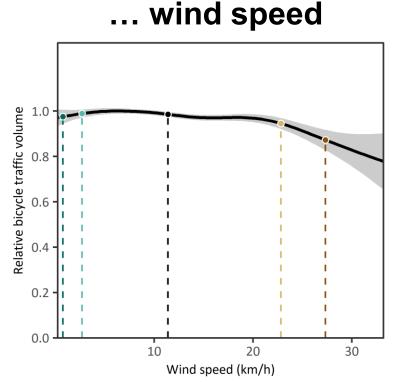


How do Vienna's cyclists respond to ...?

... perceived temperature Percentiles Relative bicycle traffic volume 99% 10 20 30 -10 Mean WBGT (°C)



Hours of precipitation (h)

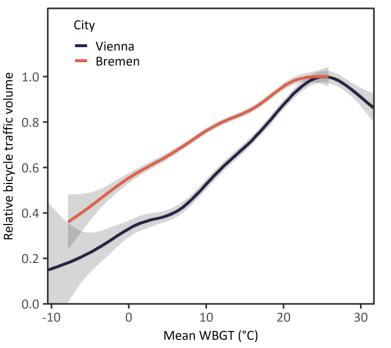


A service to support climate-resilient bicycle traffic planning **Climate-fit.city**

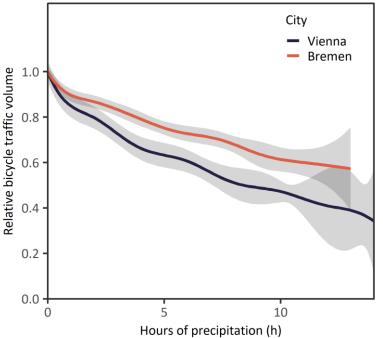


How do Bremen's cyclists respond differently to ...?

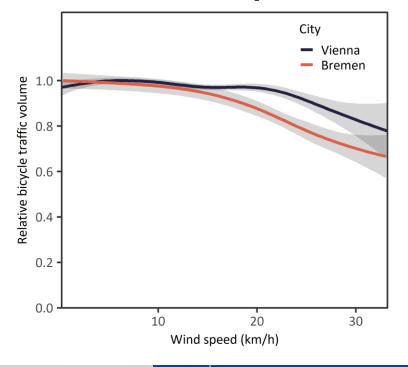
... perceived temperature



... precipitation



... wind speed



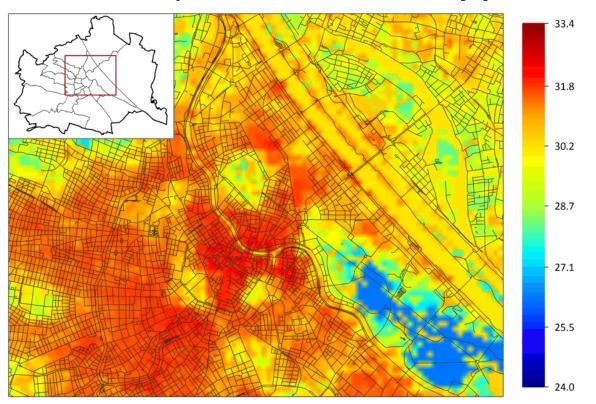


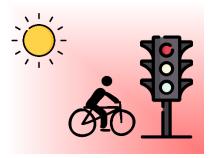
A service to support climate-resilient bicycle traffic planning Climate-fit.city



What does the future (climate) look like?

Heat stress on hot days under current climatic conditions [°C]

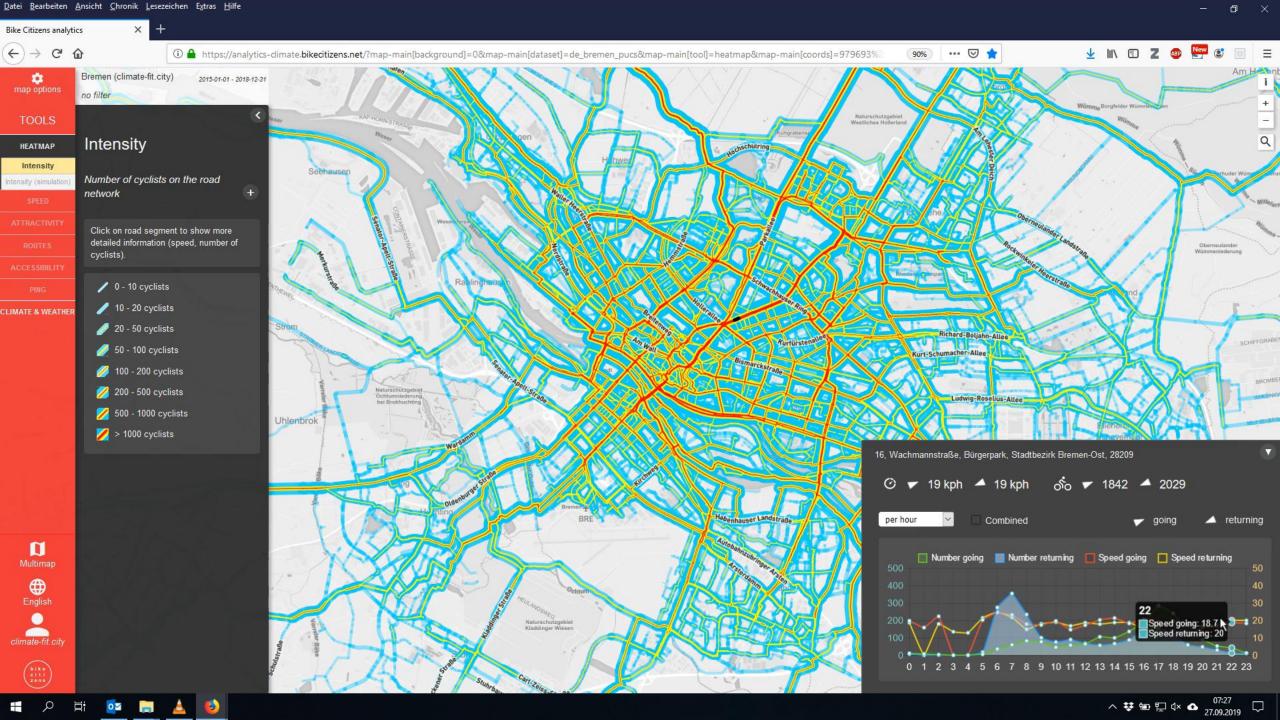






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Ramiro Burgos
Municipality of La Paz
Responsible for Mobility









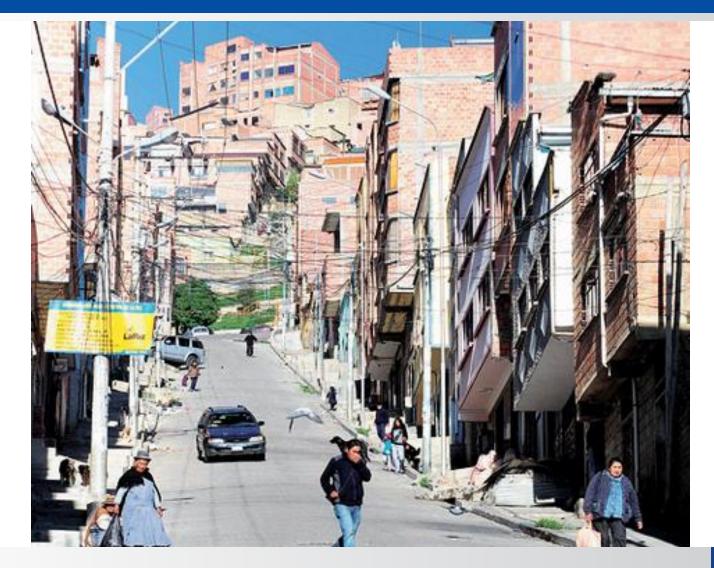




















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Mentimeter

Thank you!

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