

# **Bicycle Observatory:**

**Multidimensional Monitoring of Cycling Mobility** 

Velo City – Scientists for Cycling Dublin, June 26 2019

**Dr. Martin Loidl** | martin.loidl@sbg.ac.at





Cycling is nothing new.



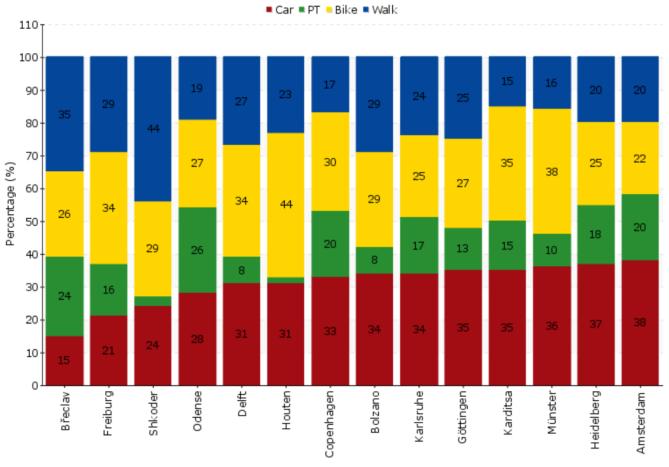


Cycling is **not rocket science**.



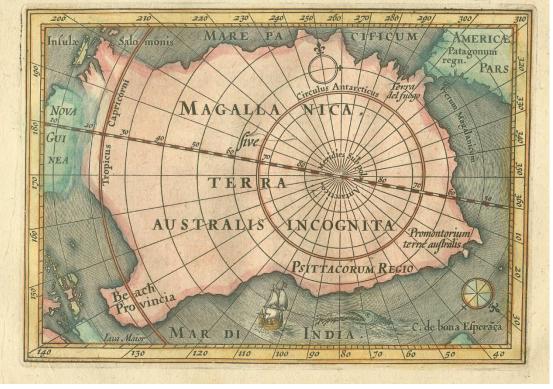
#### Modal Split Chart

Cycling accounts for a **substantial amount** of traffic.





#### 82 DESCRIPTIO TERRÆ SVBAVSTRALIS.

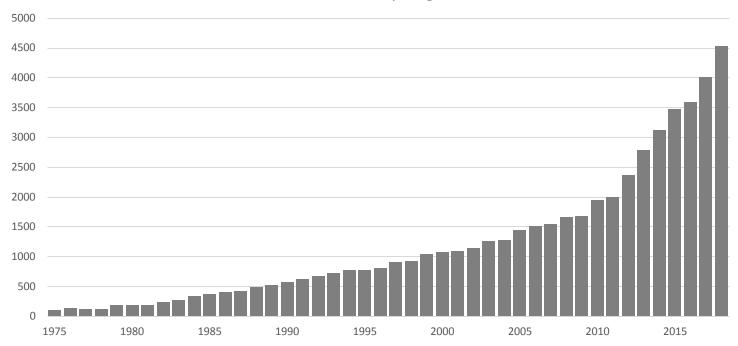


We **know** comparable **little** about cycling.

https://libweb5.princeton.edu/visual\_materials/maps/websites/pacific/pacific-ocean/map--terra-australis-bertius-1616.jpg



#### Pubmed "cycling"





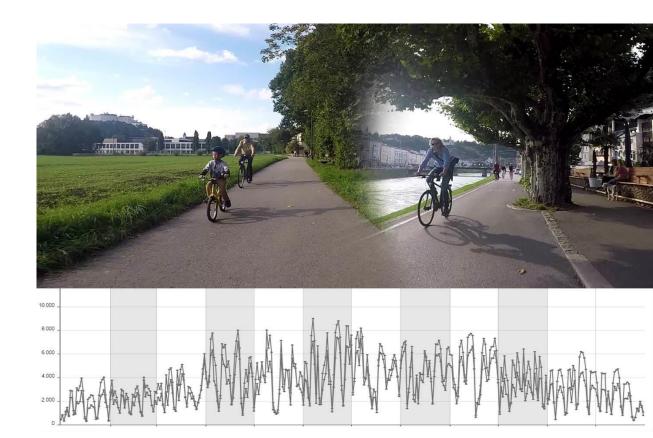


Cycling research has become very **specific**.

We have somehow lost the big picture and are **not able** to answer questions like the following ...



Who cycles when, where and why in my city?













gefördert durch Bundesministerium Verkehr, Innovation und Technologie Projektnr. 865176

+ 11 associated partner

30 months, until September 2020

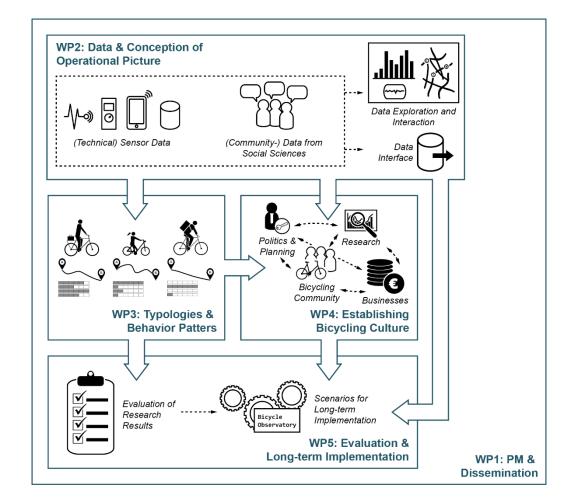
- ⇒ from isolated to integrated perspectives on cycling
- nobility behaviour of different types in space and time ("pulse")



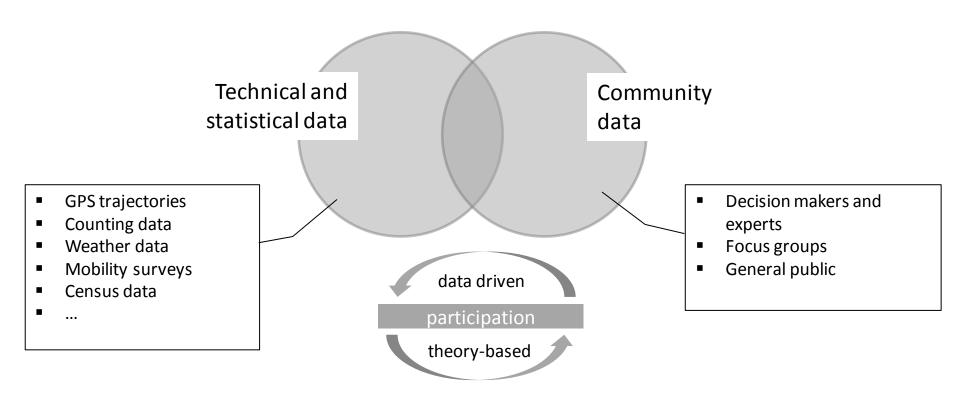
**Exposed position Continuous sensing** 



**Geo-space** as common reference



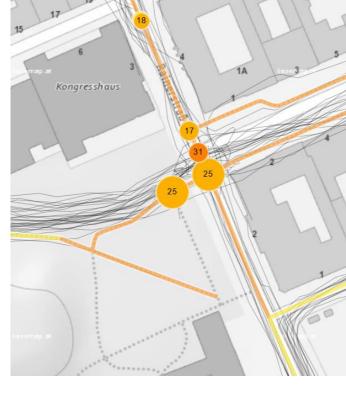








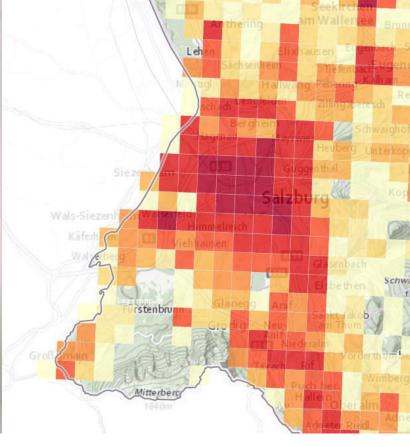




Linking technically sensed data with community data









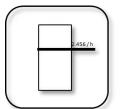




Data availability, accessibility and quality.

Types of data.





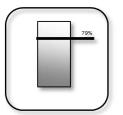


















## Dashboard for

- Communication
- Exploration
- Interface to data

**Technical** and **legal** framework











# **Share** and **compare**.

# **Application:**

- Research
- Planning
- Monitoring
- Simulation
- Campaigning
- ...

## Join us!

https://bicycle-observatory.zgis.at

### Thank you for your attention!



gicycle.wordpress.com



@gicycle\_

