Bicycle Observatory: Multidimensional Monitoring of Cycling Mobility

Velo City – Scientists for Cycling
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Cycling is nothing new.
Cycling is not rocket science.
Cycling accounts for a **substantial amount** of traffic.

http://www.epomm.eu/tems
We know comparable little about 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?
30 months, until September 2020

- from isolated to integrated perspectives on cycling
- mobility behaviour of different types in space and time ("pulse")
Exposed position
Continuous sensing

Geo-space as common reference
WP2: Data & Conception of Operational Picture

(Technical) Sensor Data → (Community-) Data from Social Sciences → Data Exploration and Interaction → Data Interface

WP3: Typologies & Behavior Patterns

WP4: Establishing Bicycling Culture

Politics & Planning → Research → Bicycling Community → Businesses

WP5: Evaluation & Long-term Implementation

Evaluation of Research Results → Scenarios for Long-term Implementation

WP1: PM & Dissemination
Technical and statistical data

- GPS trajectories
- Counting data
- Weather data
- Mobility surveys
- Census data
- ...

Community data

- Decision makers and experts
- Focus groups
- General public

data driven

participation

theory-based
Linking technically sensed data with community data
Relating lifestyle models to census data
Data availability, accessibility and quality.

Types of data.
Dashboard for
- Communication
- Exploration
- Interface to data

Technical and legal framework

<!-- Mockup -->
Share and compare.

Application:
- Research
- Planning
- Monitoring
- Simulation
- Campaigning
- ...

Join us!
https://bicycle-observatory.zgis.at

Thank you for your attention!