Subjective and Objective Data: Bridging the Gap

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EveryAware
Enhance environmental awareness through social information technologies

WideNoise
Collaborative noise pollution monitoring with smartphones

AirProbe
Collective air quality monitoring

The APIC Challenge
Synthetic baselines consist of user-maintaining participants with sensors, real-time surveys of the population, and models of other measurements at the city scale. In this challenge, we also have to explore how to implement a participatory approach to measure aspects of the urban environment that are otherwise difficult to observe. This is a very interesting and exciting research field, as it allows us to explore how to implement participatory approaches to measure aspects of the urban environment that are otherwise difficult to observe.

Subjective Data

User Estimates

Perceptions

Tag Usage

Dataset Statistics

City Statistics and Subjective Data

Work in progress

- Modelling the combined objective and subjective spatio-temporal data (using topic models)
- Concept detection by characterizing tags in different dimensions (e.g. by clustering or subgroup detection)
- Tag recommendation for spatio-temporal data in sparse environments (based on topic models)
- Improving calibration of the sensor box