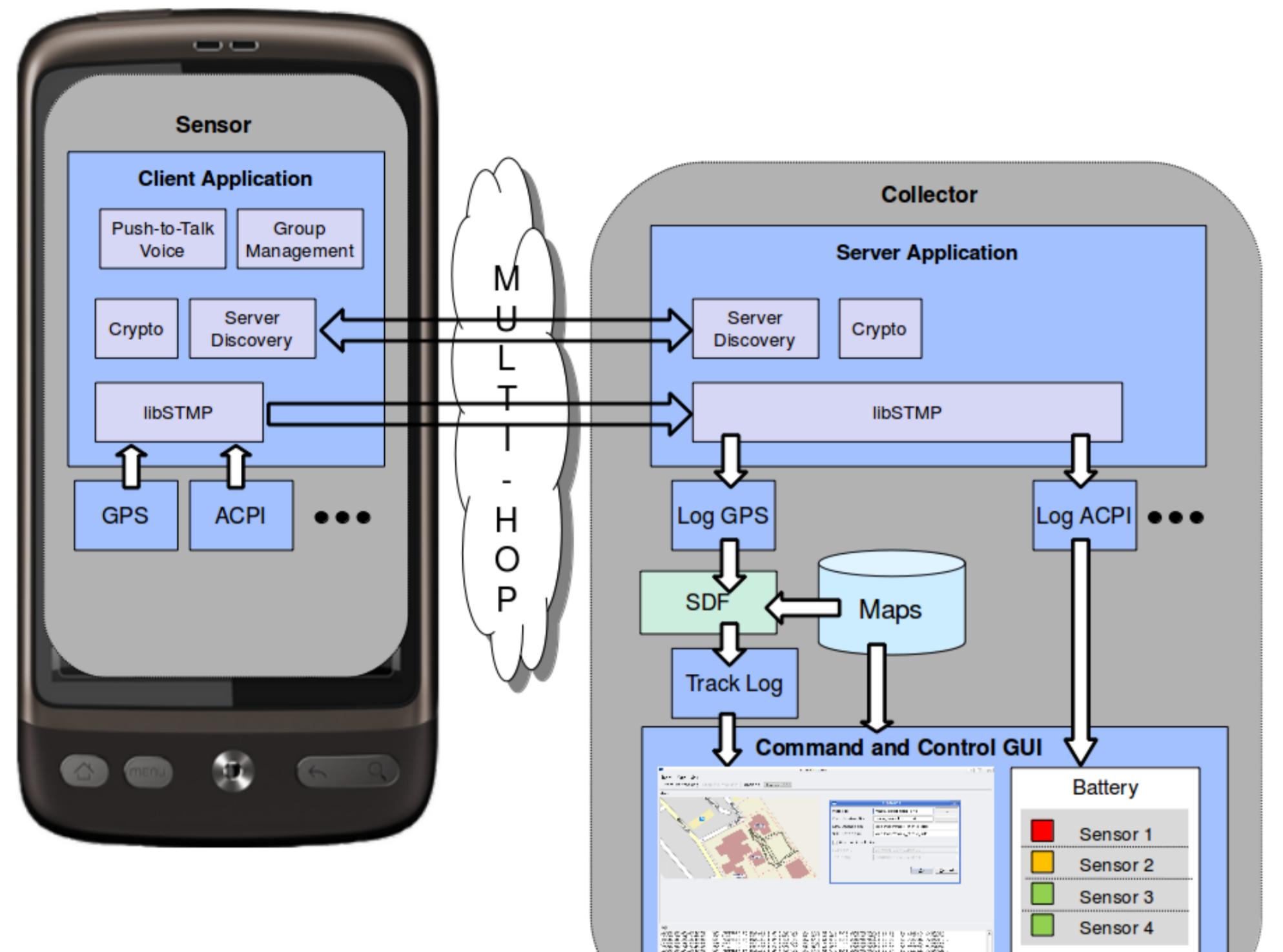


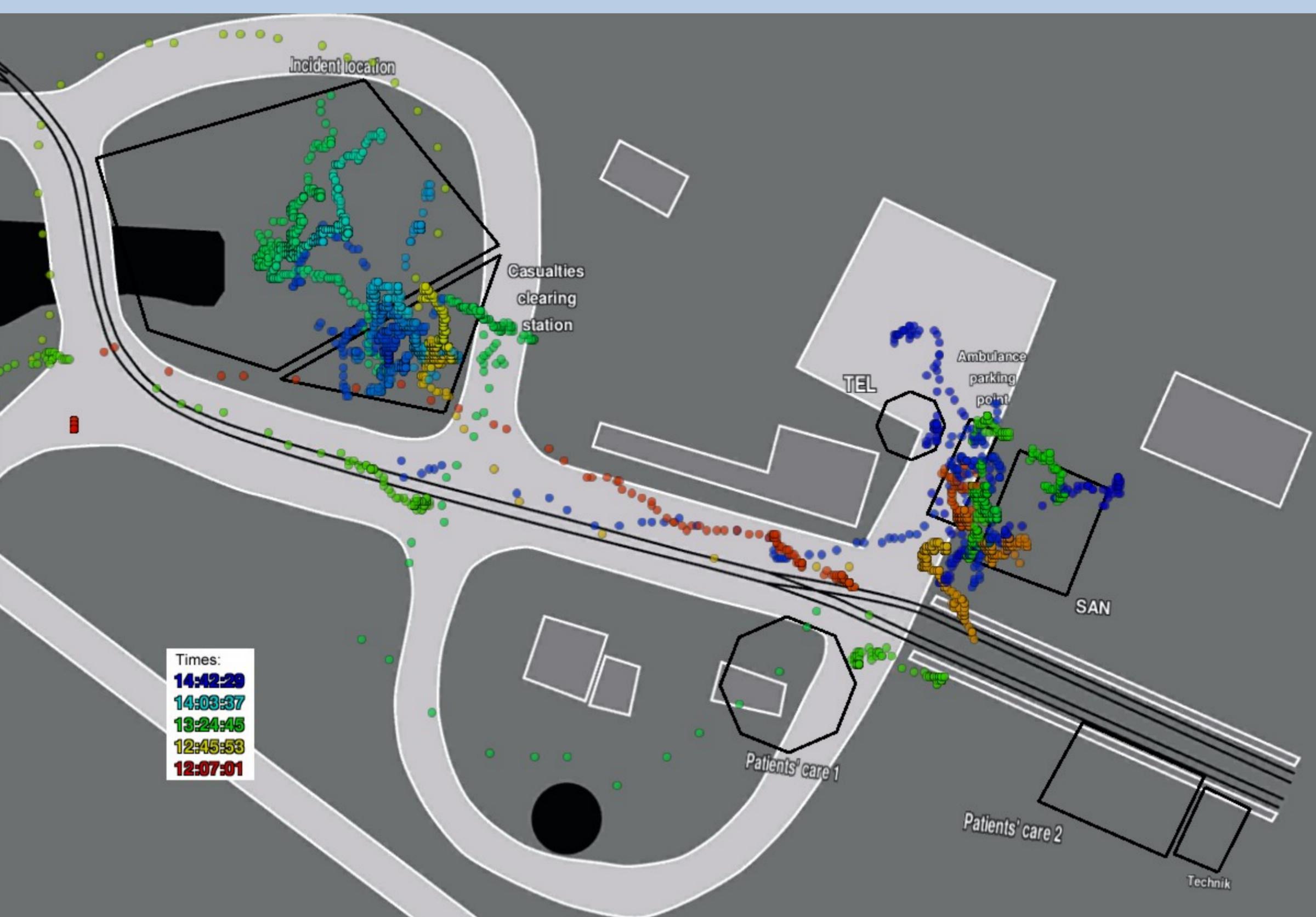
Nils Aschenbruck, Jan Bauer, Raphael Ernst, Christoph Fuchs, Jonathan Kirchhoff

University of Bonn - Institute of Computer Science 4 • Fraunhofer FKIE, Friedrich-EbertAllee 144, 53113 Bonn

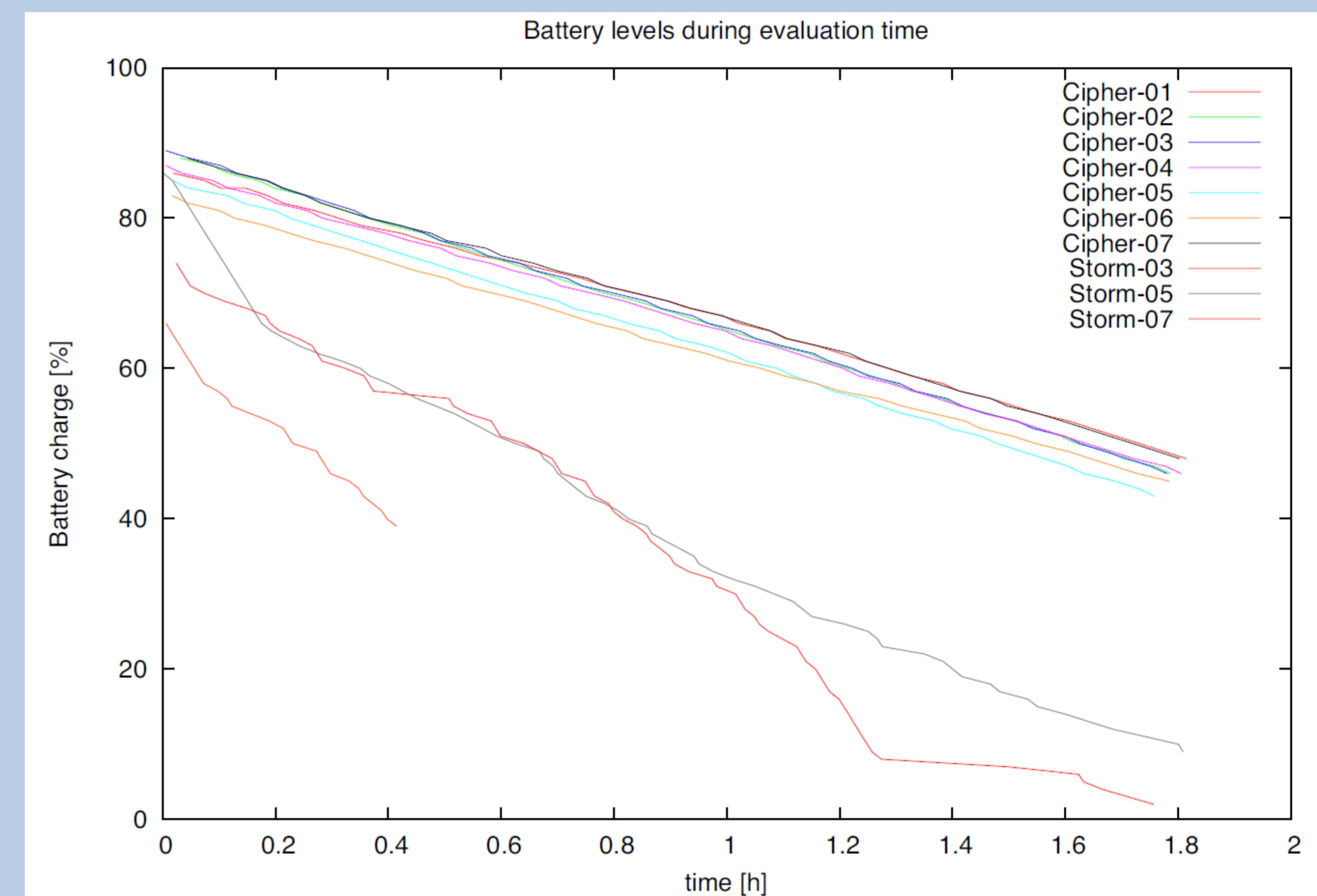
## System Architecture



## Data Fusion of GPS Tracks



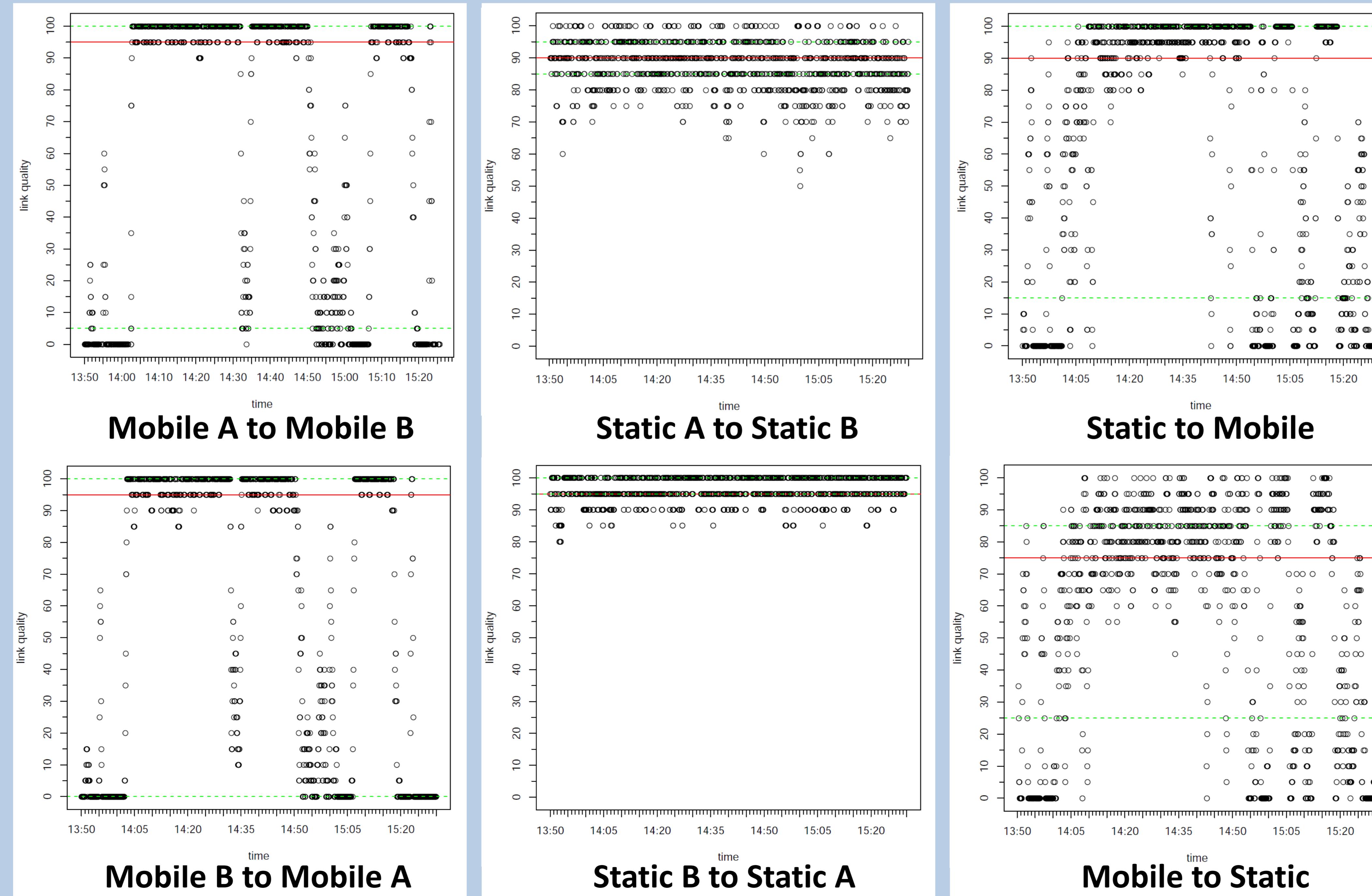
## Battery Drain



## BonnSens Client



## Link Quality Measurements during Maneuver



## Lessons learned

- Location information is nice but needs to be filtered and fused.
- The most important sensor data is the battery power of the devices.
- Prioritize the data - the data rate may be limited.
- Do not expect approaches performing well in the lab or in a simulation will do the same in the field.

## Future work

- Further deployment tests in disaster area maneuvers to evaluate new, cross-layer approaches to deal with the specific link properties.