

GEFÖRDERT VOM



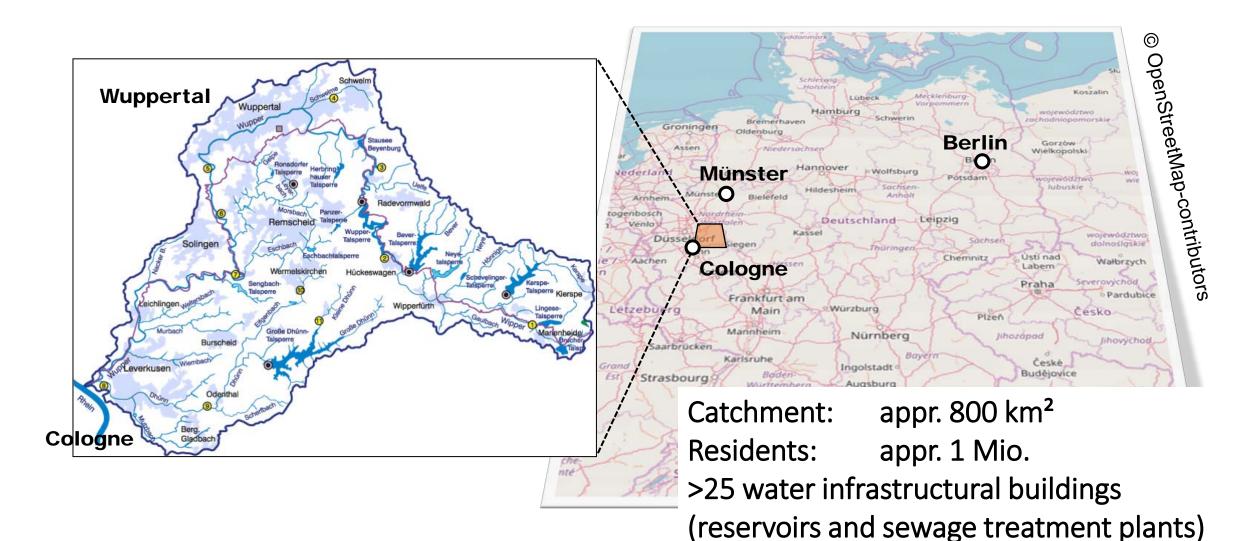


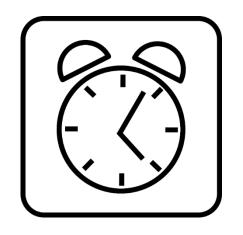




für Wasser, Mensch und Umwelt

### The Wupperverband





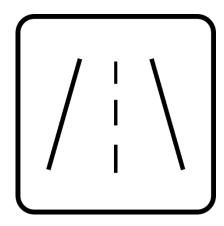
Eventing



Clients



Manual Inputs



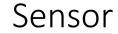
Roadmap

## Heavy rain event in Wuppertal (June 2018)







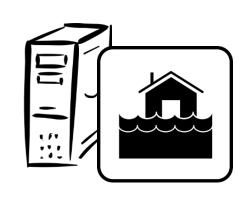


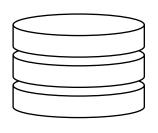
**Expert System** 

SWE Database

**Eventing API** 







/events



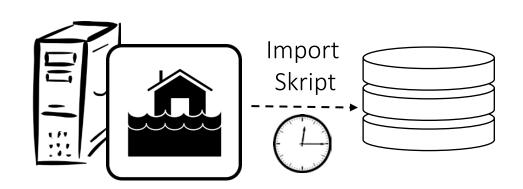


Expert System

SWE Database

**Eventing API** 





/events





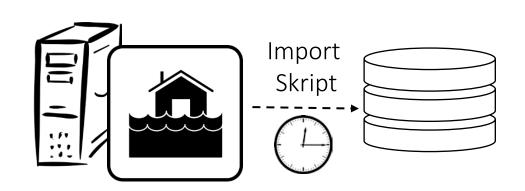
Sensor

Expert System

SWE Database

Eventing API





/events





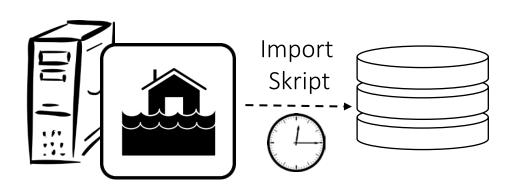
Sensor



SWE Database

**Eventing API** 





/events

Appr. 300 events / day 24k events since last 6 month

#### Eventing API

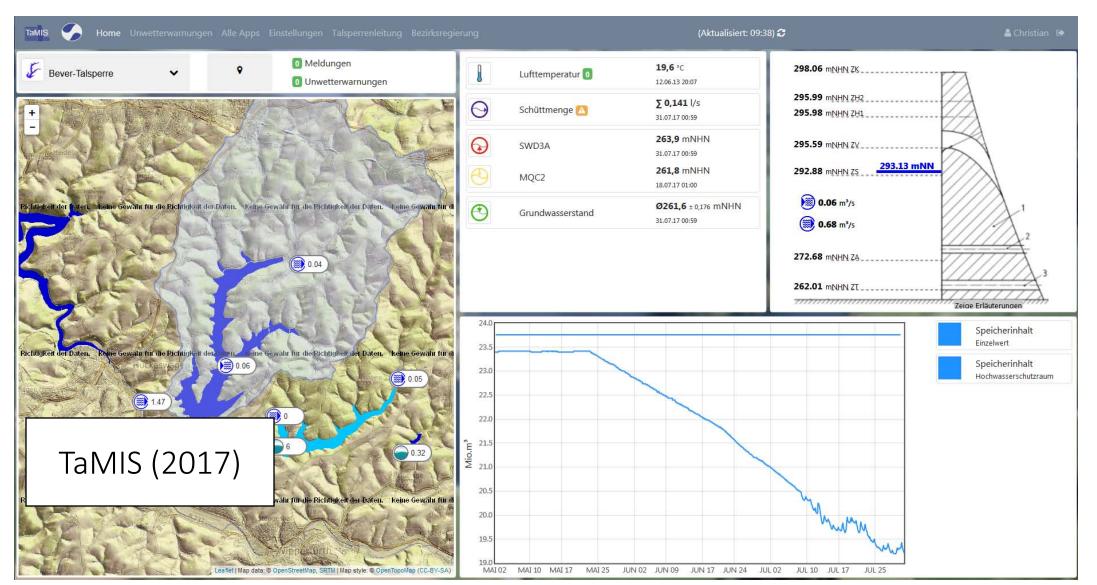


- Version 1.0 recently deployed
- Uses concepts of OGC Pub/Sub Standard
- First stable and robust Eventing API since 7 years in the Sensor Web Domain?
- User and user group specific events and subscriptions

#### Issues

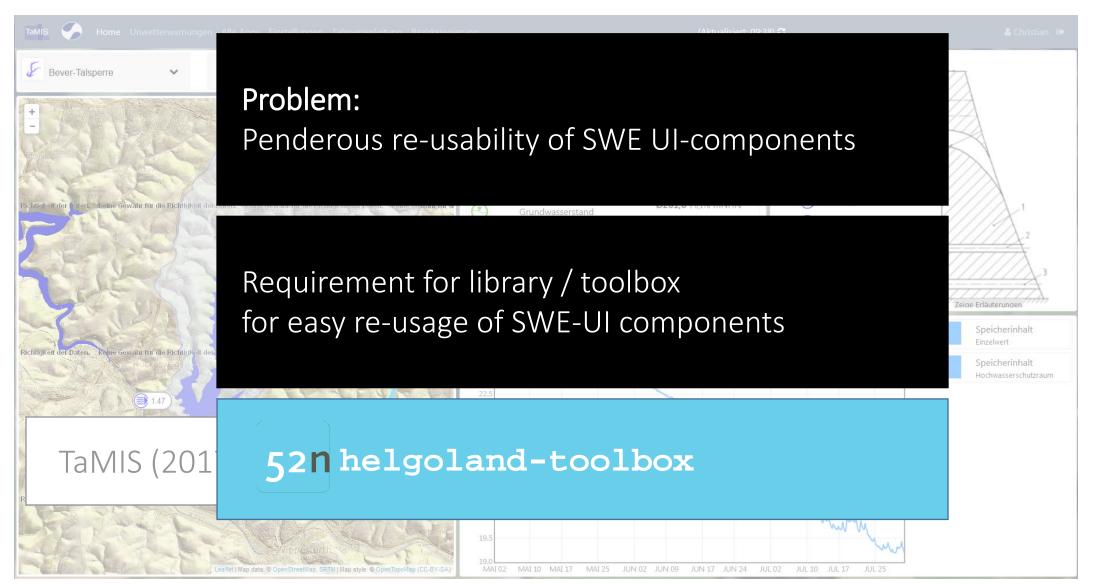
- Medium performance (2.5 secs for latest 100 events)
- Penderous registration process
- Develop helgoland-toolbox components and deploy clients
- Harmonize Series API and Eventing API (Paging, Patterns)

#### Client development





#### Client development





#### 52n helgoland-toolbox

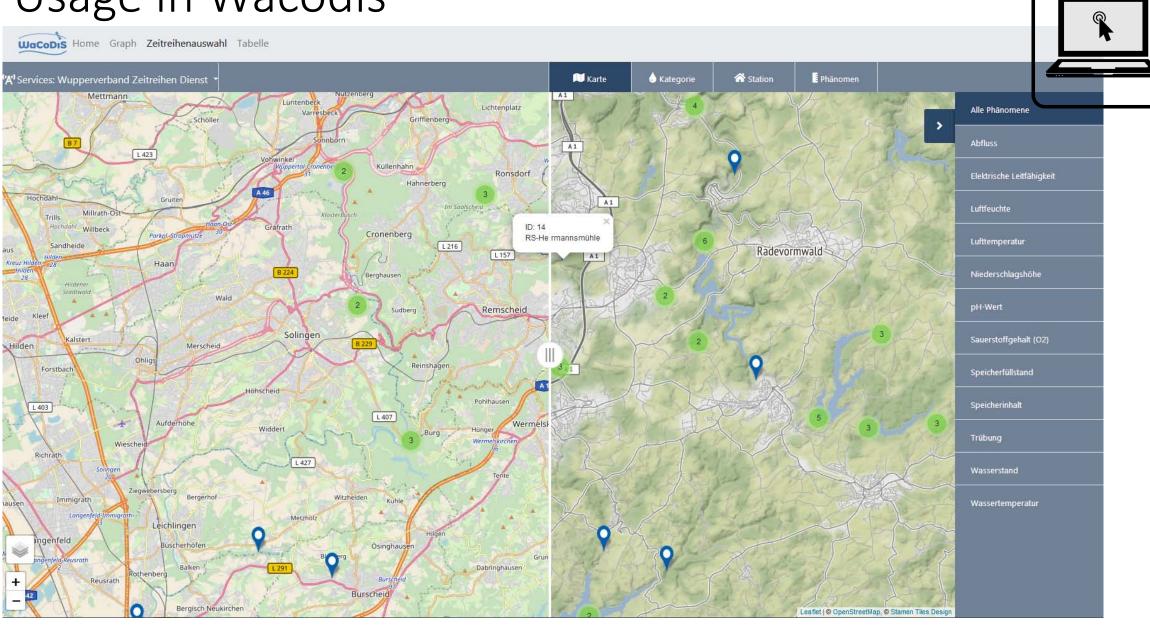




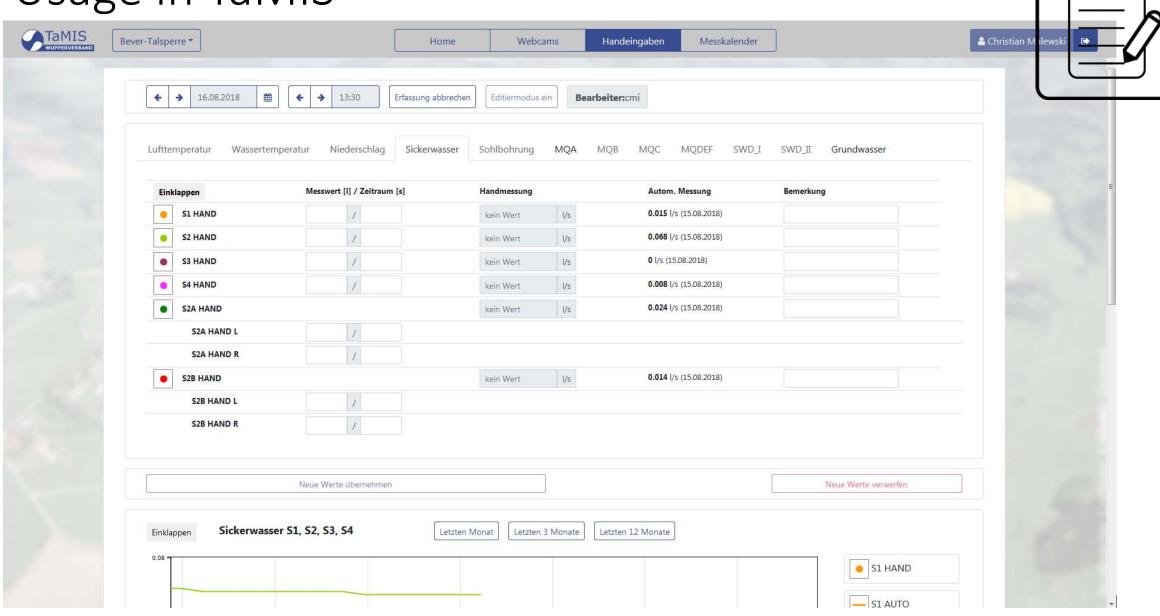
npm install @helgoland/core

https://github.com/52North/helgoland-toolbox

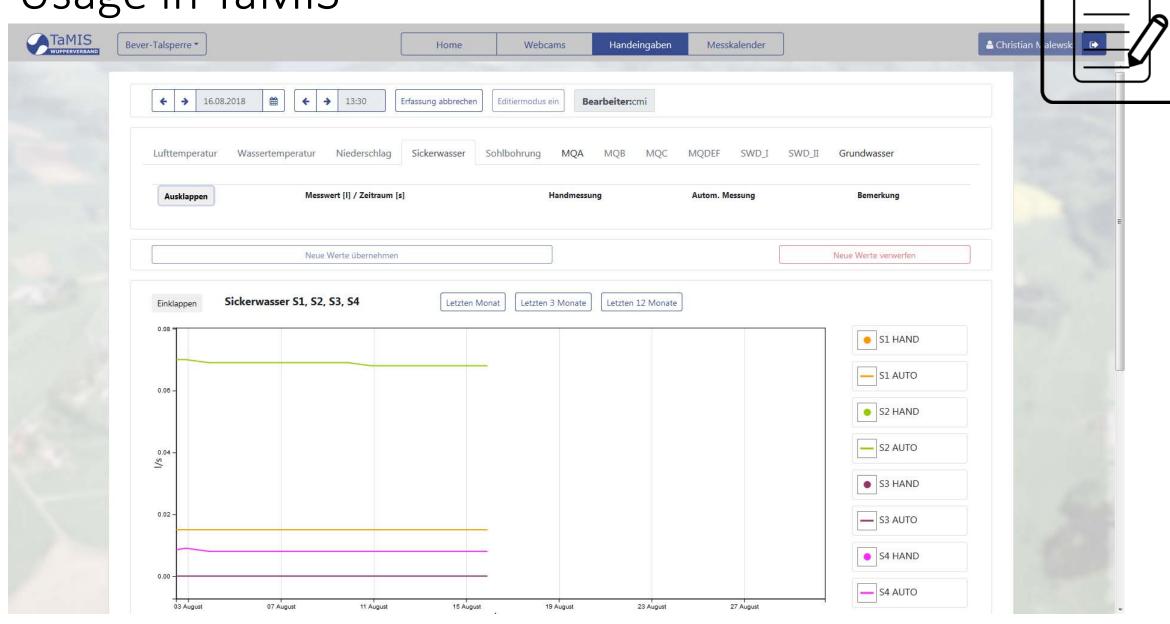
#### Usage in Wacodis



Usage in TaMIS

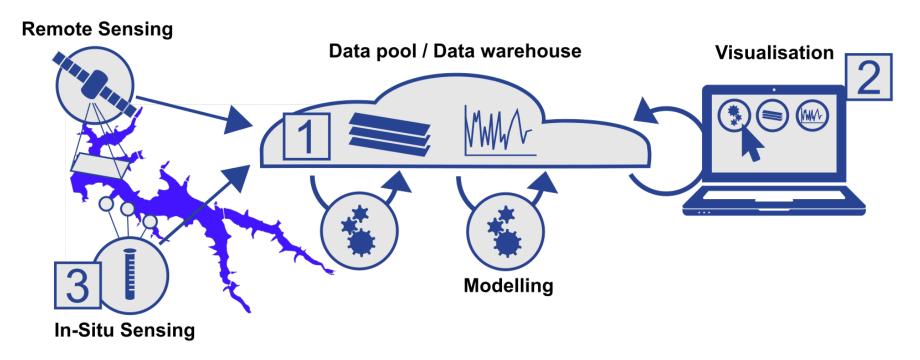


#### Usage in TaMIS



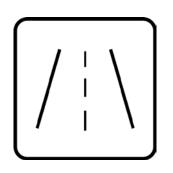
# MuDak





- Development of a project-plattform for data exchange and enhancement of reusable Sensor Web components
- 2 Development of the Helgoland-Toolbox with componentens to visualize water quality
- 3 Integration of remote sensing data analysis results with the Sensor Web

#### Activities until Sep-2019



 How to composite our current series based database schema with redumentary (not continous) campaign observations?

 How to integrate satellite remote sensing data in our sensor web infrastructure?

How to realize transactional functionality of Timeseries API?

Improve Clients and Eventing



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