



Waterhub Proof of Concept

**Dashboarding water levels in Belgian
municipalities
A3 Strategic ThinkTank**



Project 4.0 Cipal Schaubroeck

Table of contents

0
1

The project

0
2

Team

0
3

**Waterhub
PoC**

0
4

**Teamwork
retrospective**

0
5

Conclusion



1

The project

Objective

- **An easy to use and functional dashboard**
- **View trends and conduct analysis**
- **Flexible / dynamic**
- **Digital transformation municipalities**





2

Team

Project Team



Joppe
APP



Finn
APP



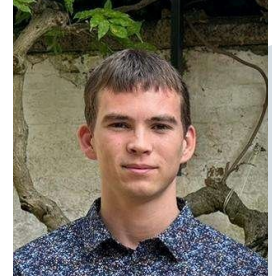
Natan
APP



Leander
CCS



Emre
AI



Mathieu
IoT



3

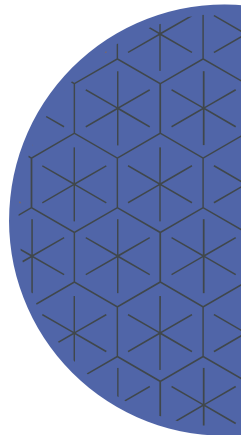
Waterhub Proof of Concept

What is Waterhub

- **Structured dashboard with clear information**
- **Intuitive & user friendly design**
- **Discover trends in measurements**
- **Add info to stations**

The logo for Waterhub is displayed within a light gray rounded rectangle. The word "WATER" is in white, and "HOB" is in blue. The letter "O" is replaced by a blue water drop icon.

WATERHOB



Stations



Filter by Station Name

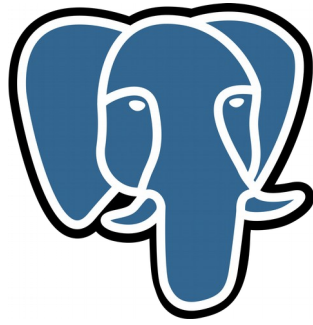
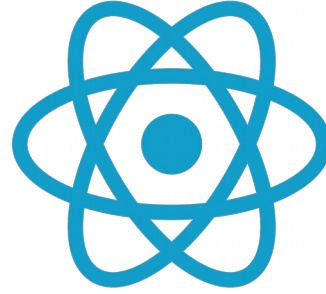
Filter by Number

Filter by Province

All provinces ▼

Name ↑	Number	Province
Aa/Poederlee/Stuw3	K10_132	Antwerpen
Aa/Vorselaar/Stuw4	K10_133	Antwerpen
Aalst/Molenbeek	L07_28C	Oost-Vlaanderen
Aalst/Stuw2/Molenbeek	K07_407	Oost-Vlaanderen
Aarschot/Grote Motte	S09_14E	Vlaams-Brabant

What did we use



What did we use





Demo

Strong points

- Can choose from map
- Can compare
- Can add measurement/sensor (logged in)



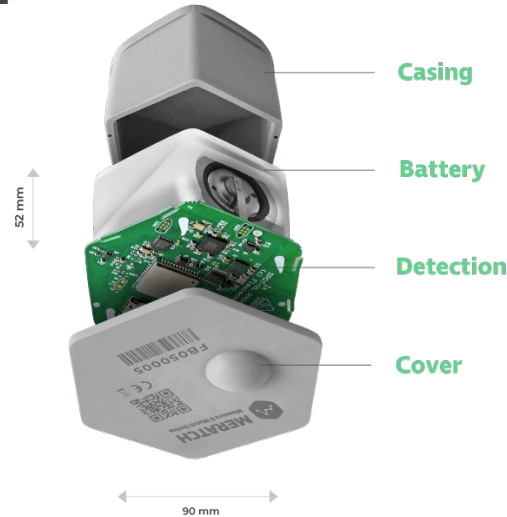
Warning value

12.52

Update warning value

Possible improvements

- Integration of prediction model
- Incorporation of rainfall data
- Locations of locks
- MERATCH sensor





4

Teamwork Retrospective

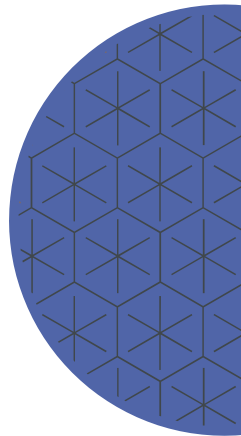
Teamwork retrospective

Technical context

- Working with Node-Red
- Communication protocols
- Building CI/CD pipeline

Soft skills

- Communication with the client
- On-site work is best
- Team meetings





5

Conclusion

