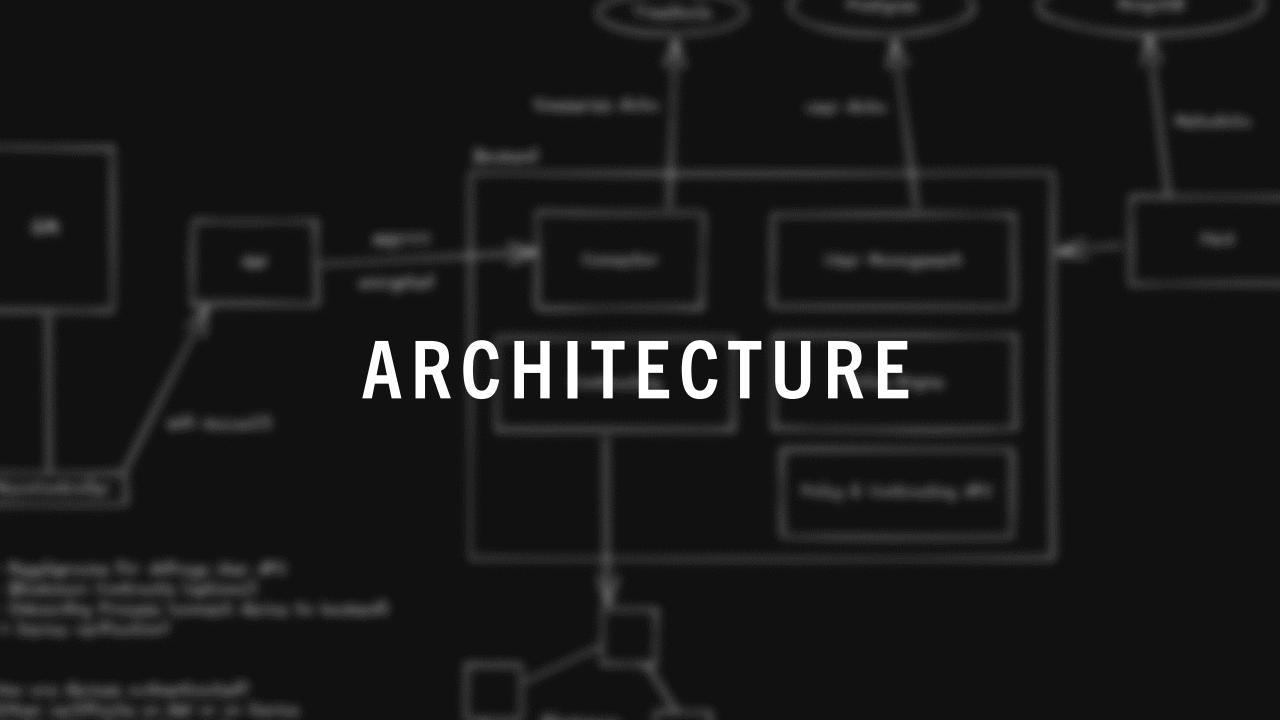
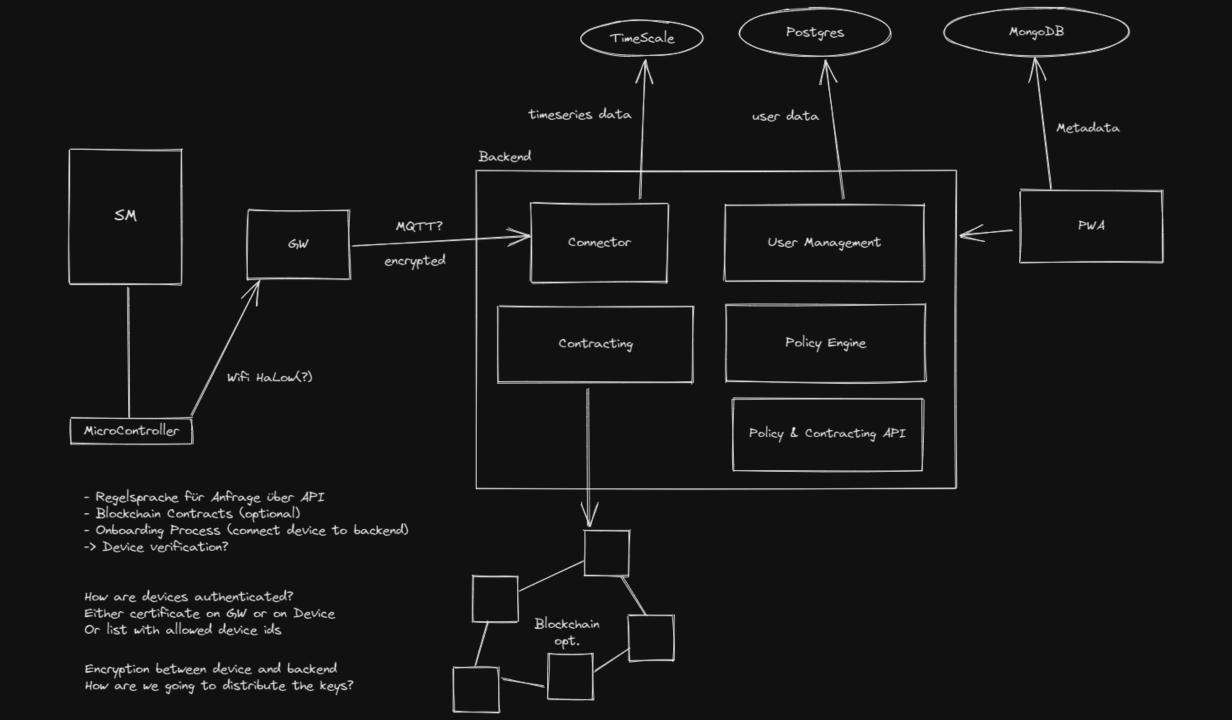
## SMAIA-X

Adrian Essig, Marco Prescher, Michael Spiegel, Irina Grabher-Meier





## POLICY ENGINE & CONTRACTING

- Define rules so that consumers and producers can share their data
- Access to data should be given in a dynamic way
- · Contracts should be created automatically if a match is found
- · Smart Contracts on Blockchain (optional)
- Policy & Contracting API for consumers
- Producer is always in charge of who receives which data under which conditions
- Policy for choosing to only offer encrypted (homomorphic encryption) data

## ADDITIONAL CHALLENGES

- Dynamic configuration of Microcontroller and Gateway (for future changes)
- Key Distribution
- Onboarding for new devices (How are they identified, Certificate, ID, ...)
- Connectivity issues Microcontroller (Basement)
- Other teams stealing our ideas...









## OUT OF SCOPE IDEAS

- App for configuring the Gateway and pairing it with WiFi via bluetooth
- Training of ML models on encrypted data
- Implementation of payment system
- Differential Privacy