

Building Automation at codecentric Headquarters

A Look Behind the Scenes

Christina & Anna



 codecentric

WHO ARE WE?



CHRISTINA
 merelyChristina

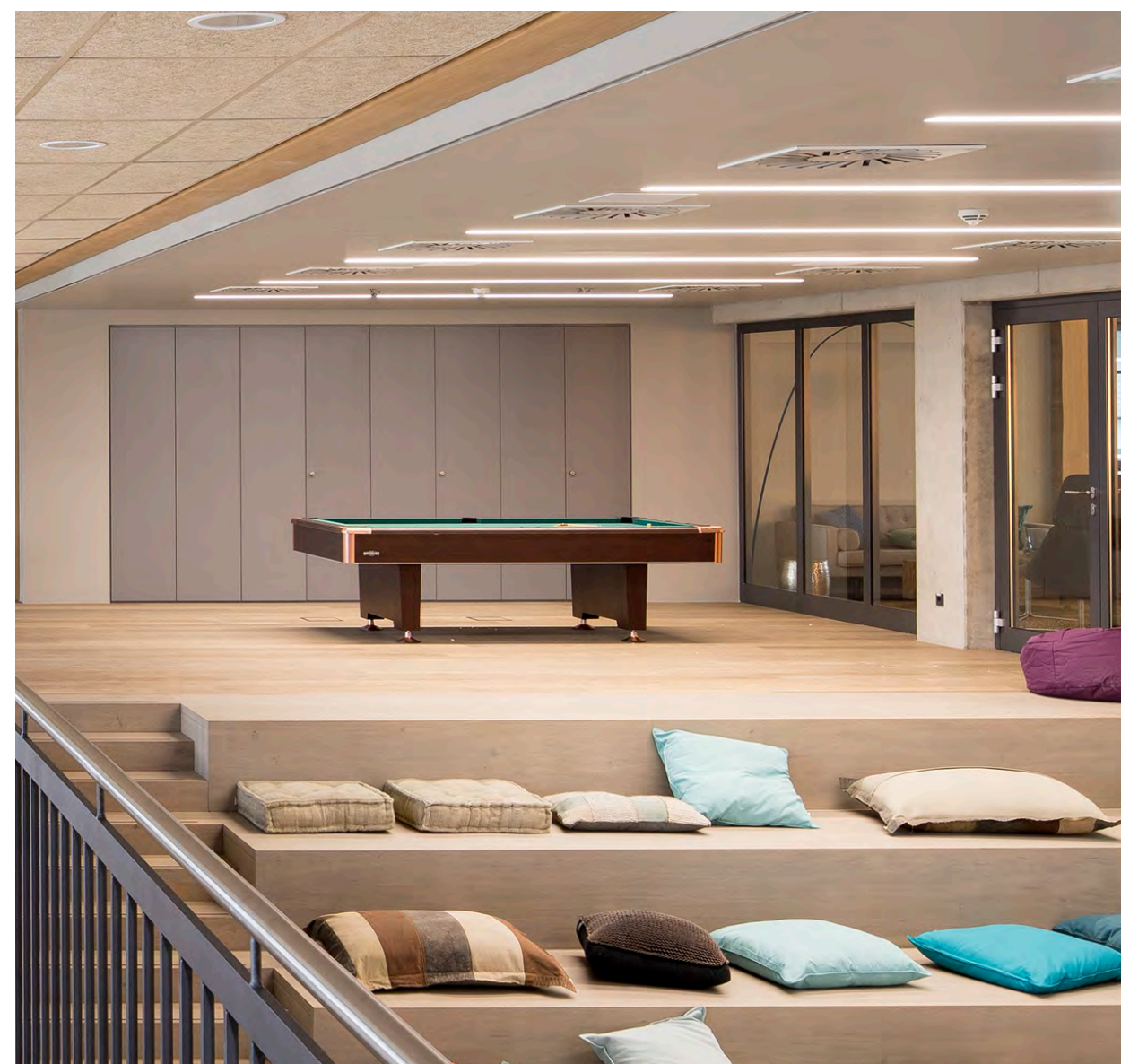


ANNA
 merelyAnna

codecentric AG

10x in Germany





WHY?



Laziness

WHY?



Improvement

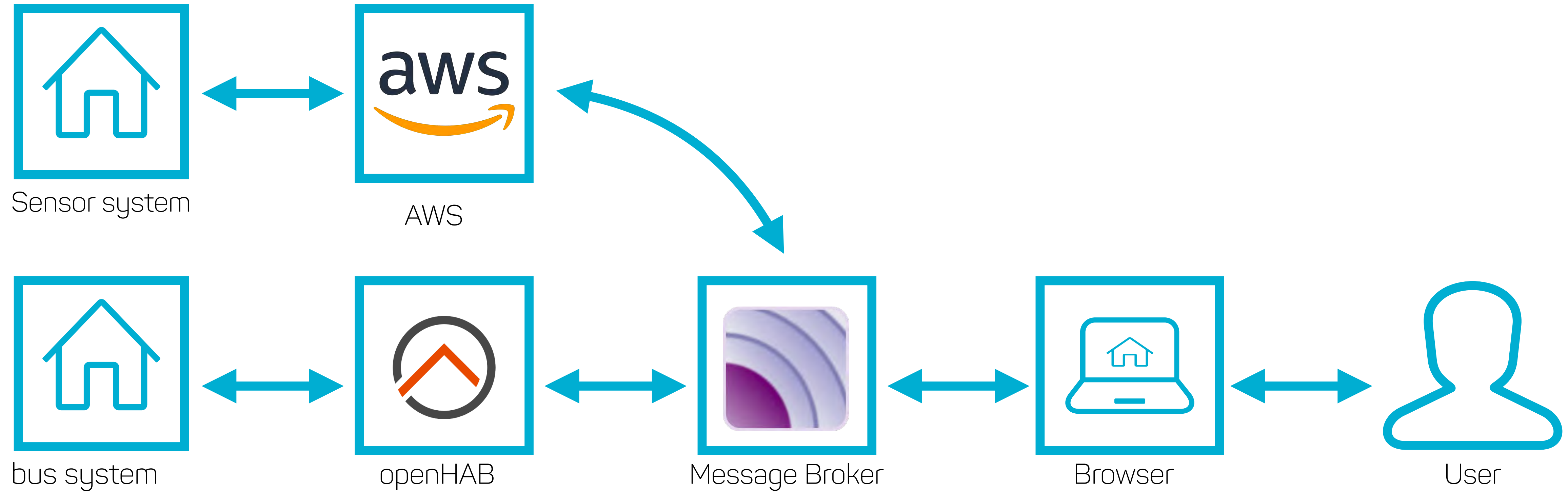


Security



Fun

ARCHITECTURE



BUS SYSTEM



heating, BacNet

window, KNX

shutters, KNX

lamps, KNX

...

WHY KNX?

new building

standard

future-proof



sensor support

shutter controlling

lamp controlling

our electrician knows KNX

WHY openHAB?

KNX independent

multi. Bindings

OpenSource



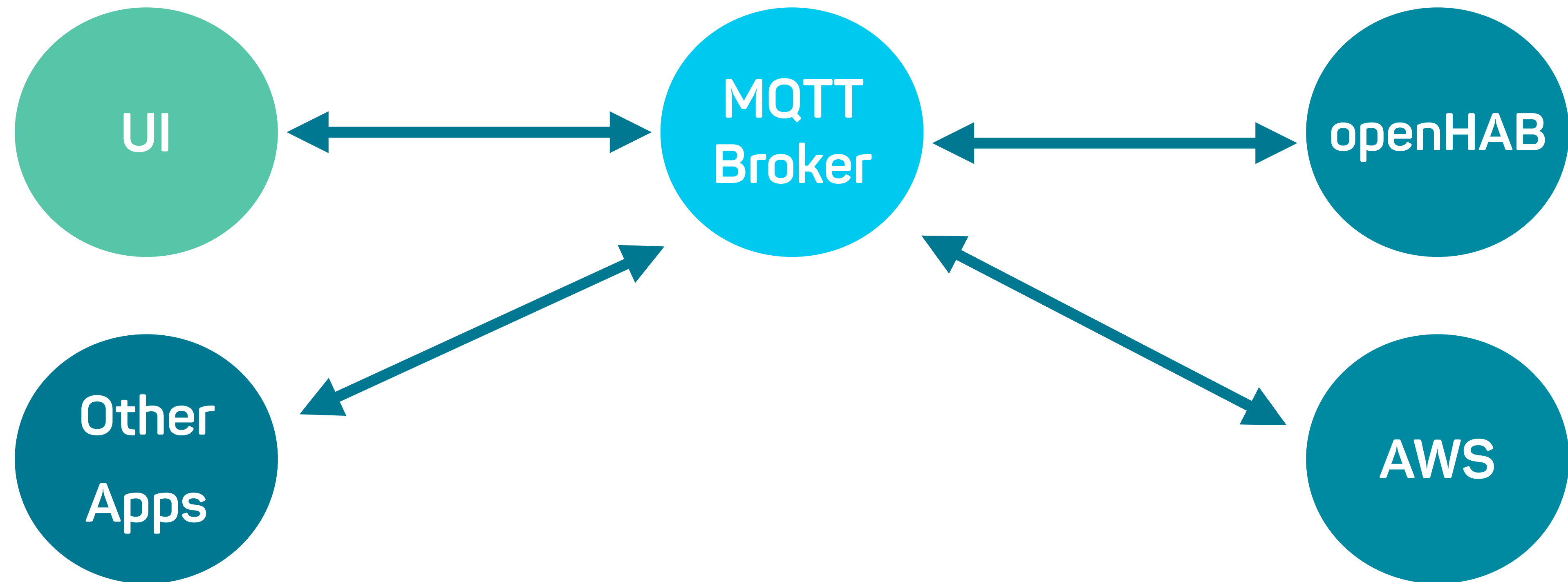
KNX, BacNet

UI-App

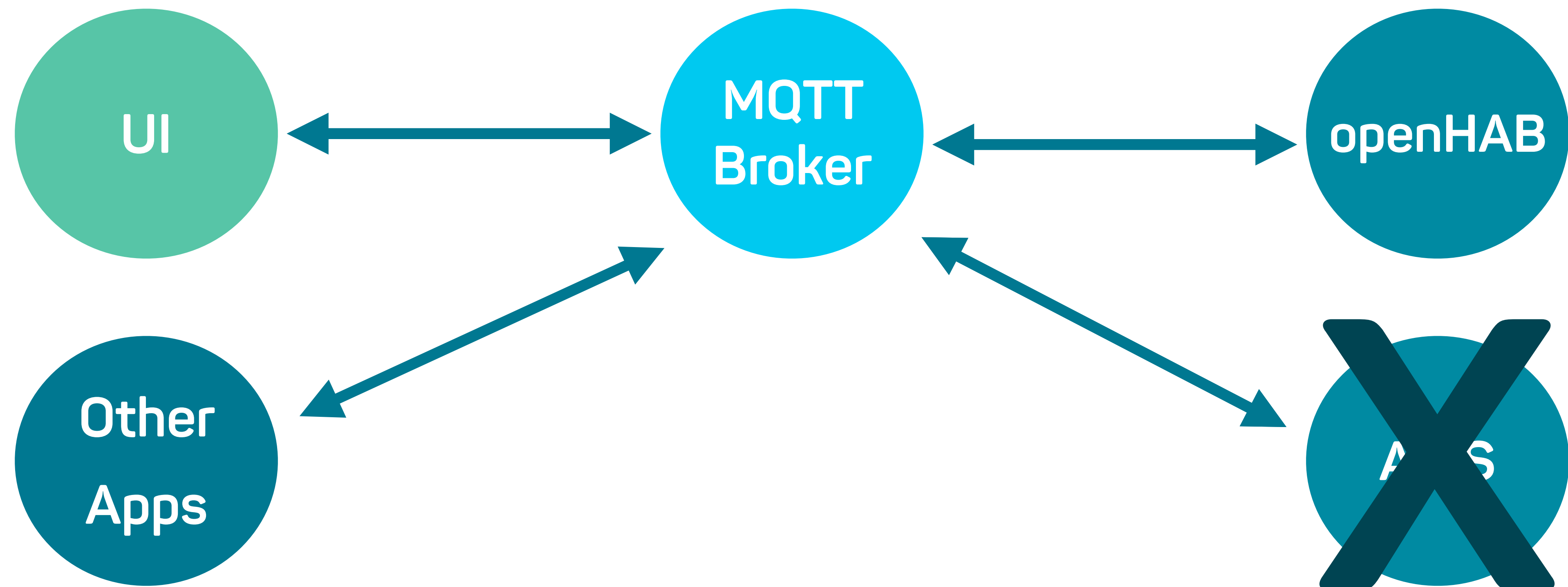
Rule Engine

MQTT

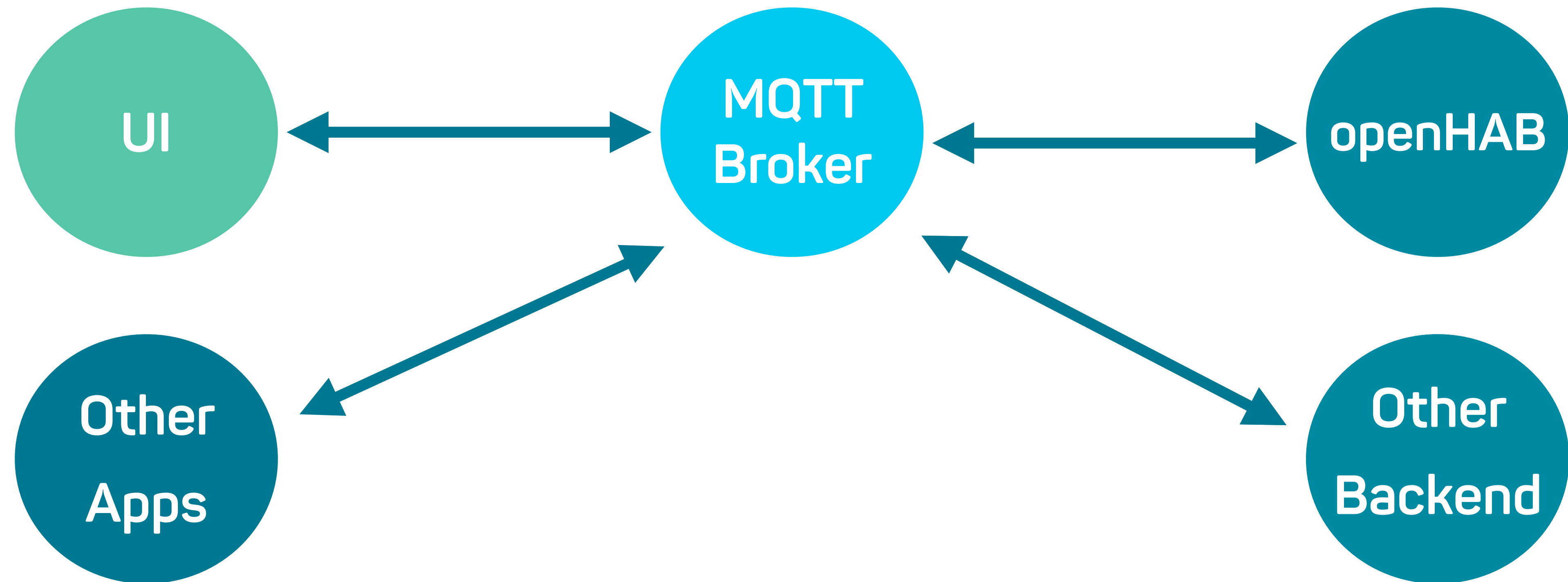
WHY MQTT?



WHY MQTT?

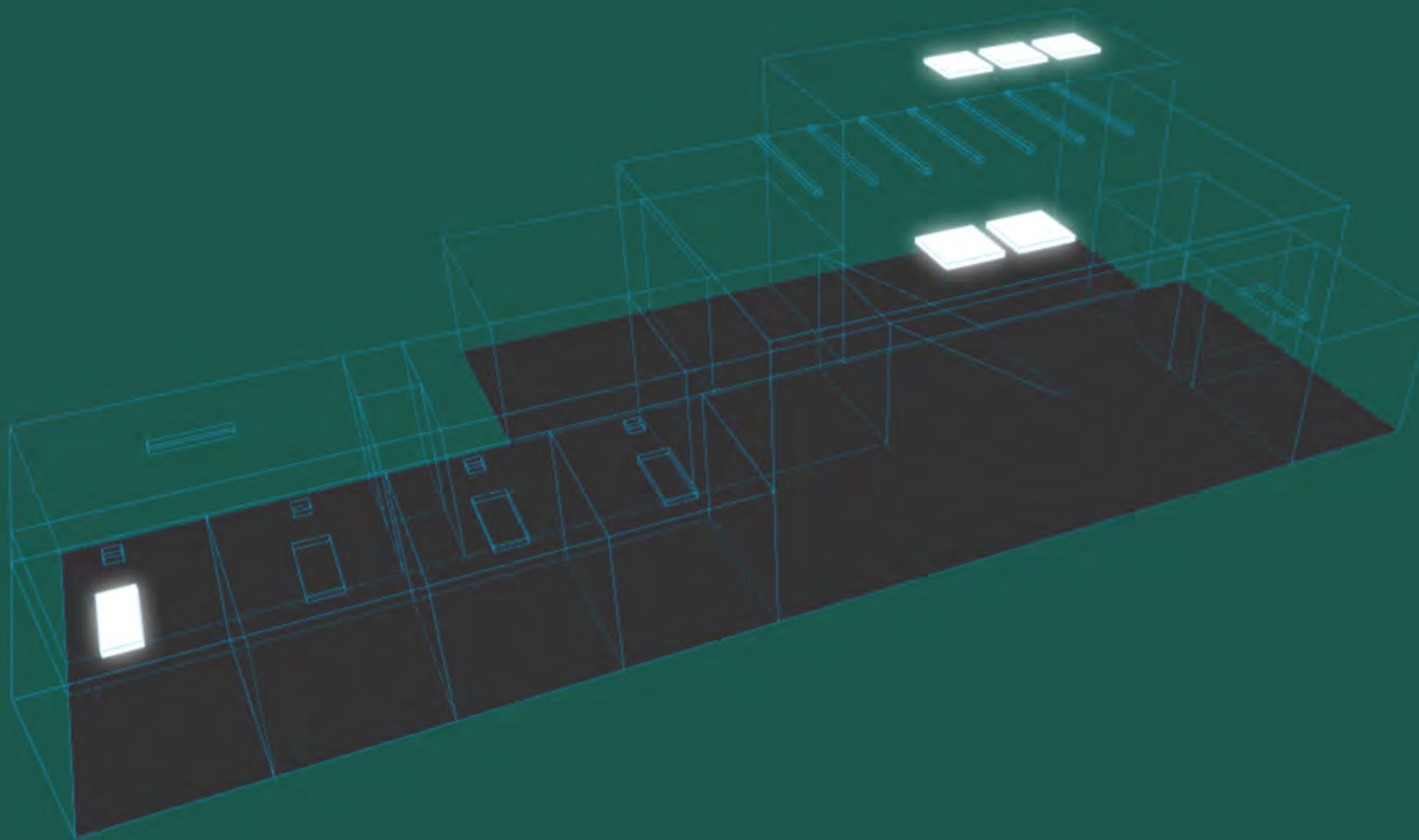


WHY MQTT?



SmartBuildingBoard





Cafeteria

22.99

CAFETERIA_DECKENLEUCHTE_EINGANG

Aus

CAFETERIA_DECKENLEUCHTE_MITTEL

Aus

CAFETERIA_DECKENLEUCHTE_THEKE

Aus

06.09.2018 11:40 - 12:40
Abstimmung Projekt XY

06.09.2018 12:40 - 13:40
Bewerbungsgespräch



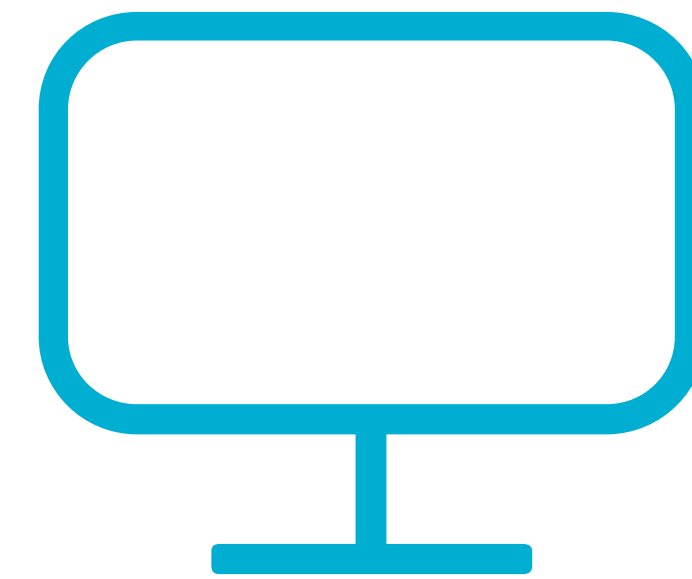
SmartBuildingBoard



Accessible



Intuitive

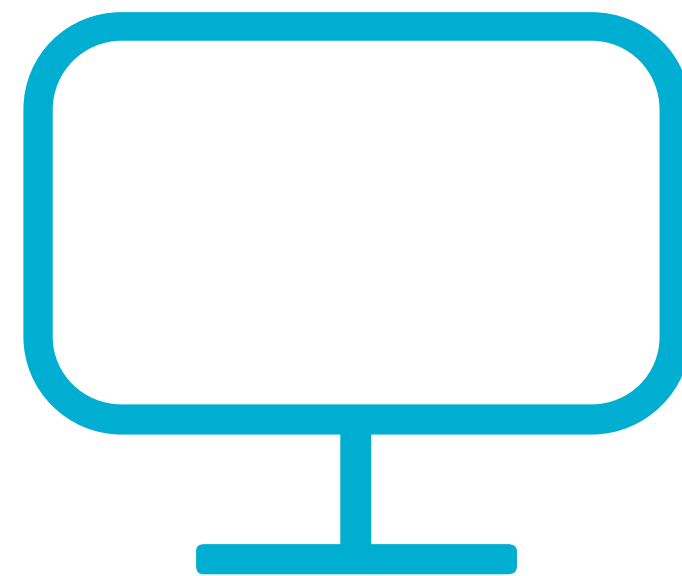


Clear

ALTERNATIVES



Other
Framework



Commercial
Solution



openHAB

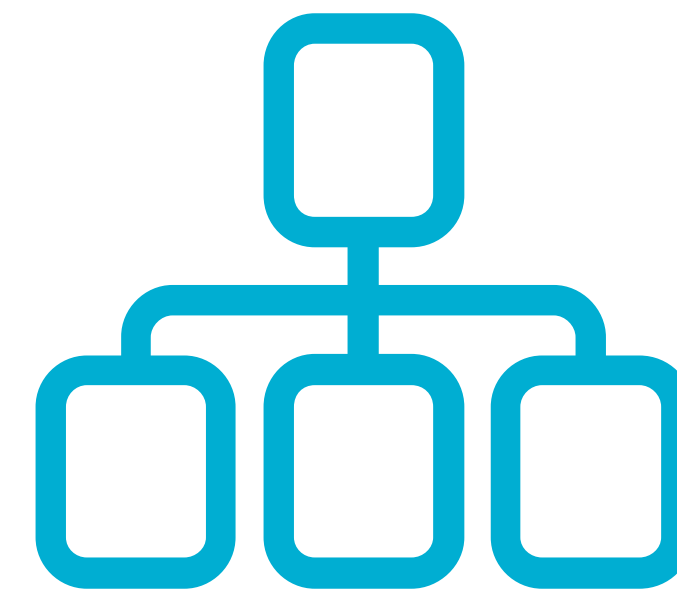
SO WHY WRITE OUR OWN?



Hackathon



BabylonJS



extendable

WHAT ELSE?

Sensor



- Meeting rooms
- Pool table
- Coffee machine
- ...

AWS IoT

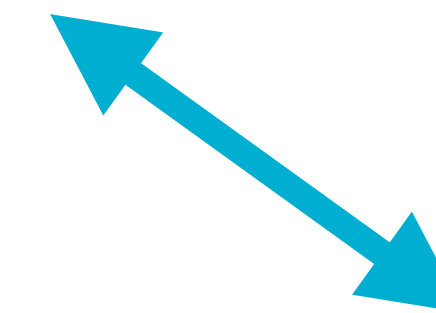


AWS

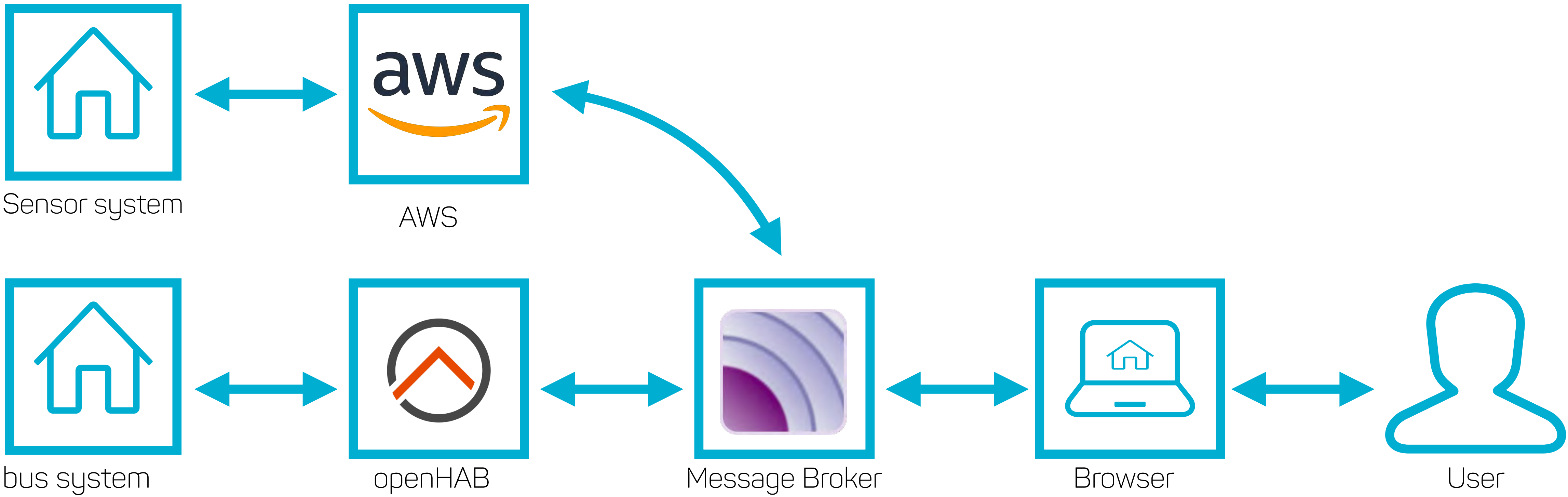


- Database
- AI
- App
- ...

UI



ARCHITECTURE

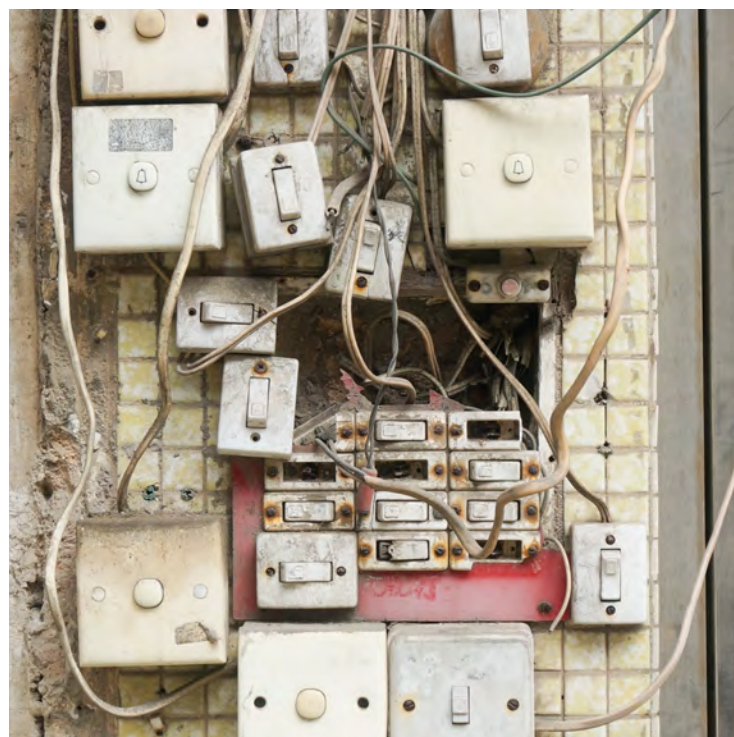


LESSONS LEARNED?

isolation



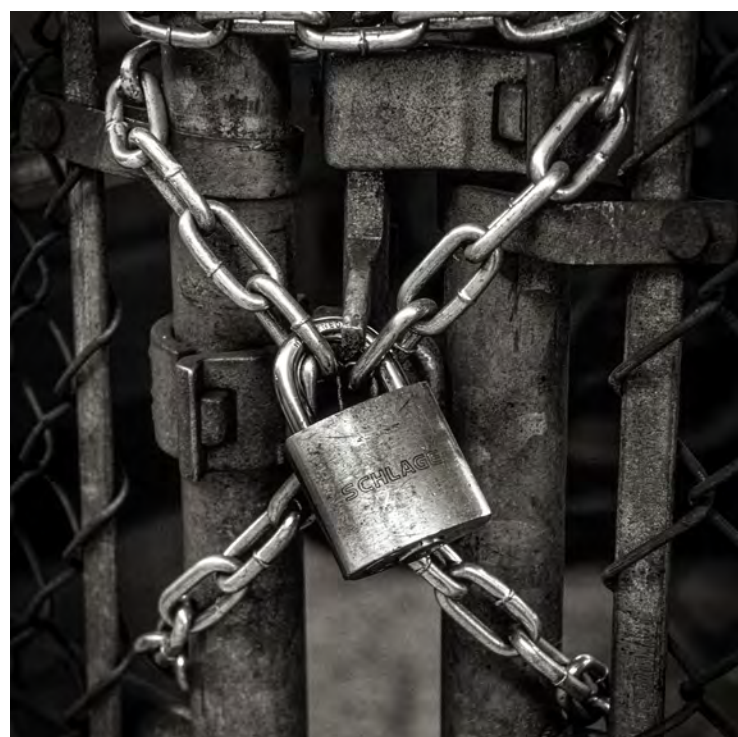
fallback



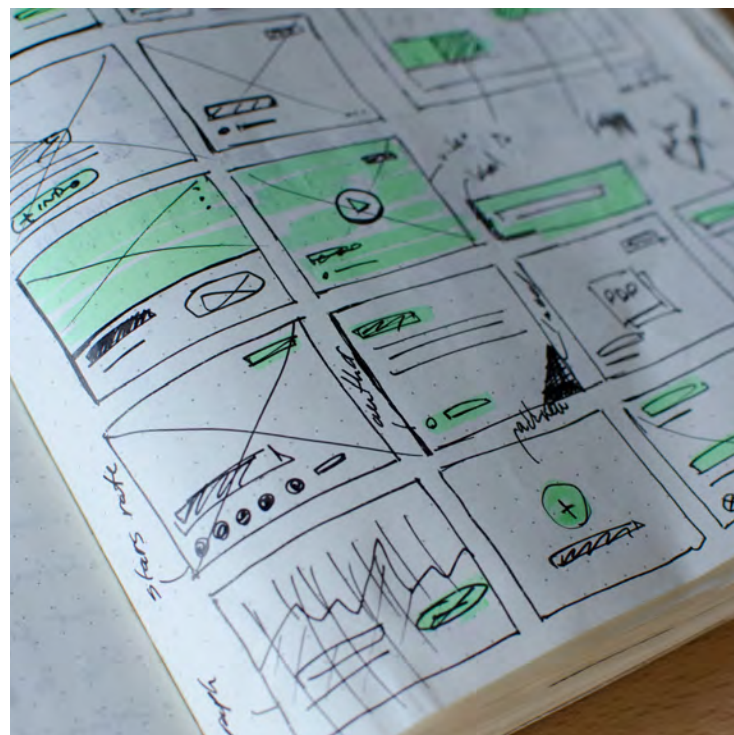
naming



closed system



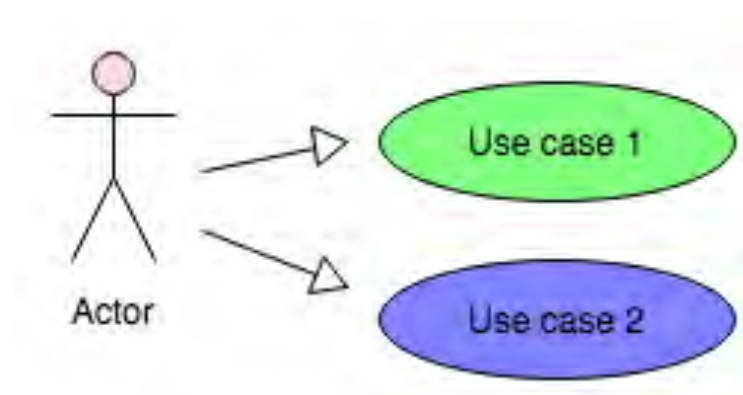
intuitive



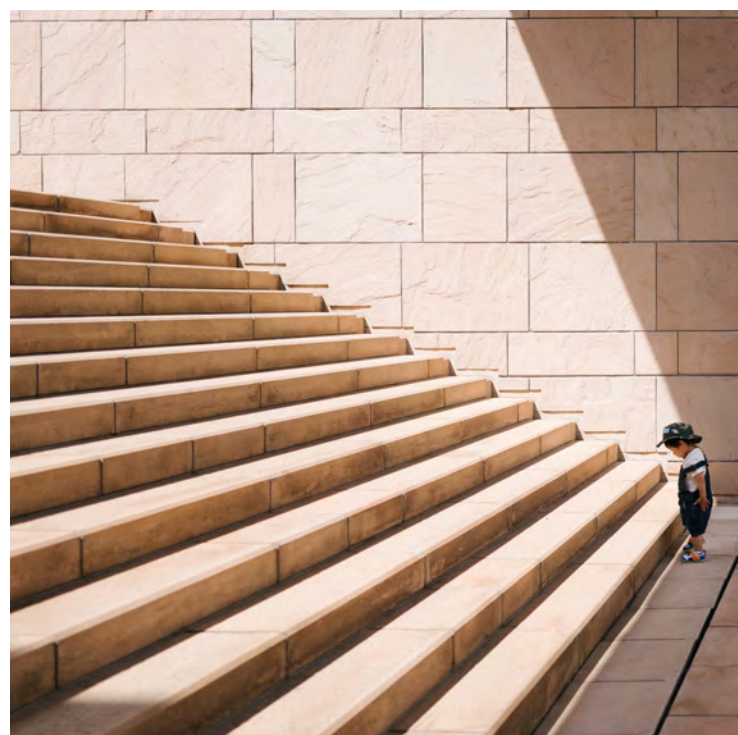
extendable



use case



challenge



Stay connected

Our mission – to promote agile development, innovation and technology – extends through everything we do.



Address

codecentric AG
Hochstraße 11
42697 Solingen



Contact Info

E-Mail: info@codecentric.de
www.codecentric.de



Telephone

Telefon: +49 (0) 212. 23 36 28 0
Telefax: +49 (0) 212.23 36 28 79

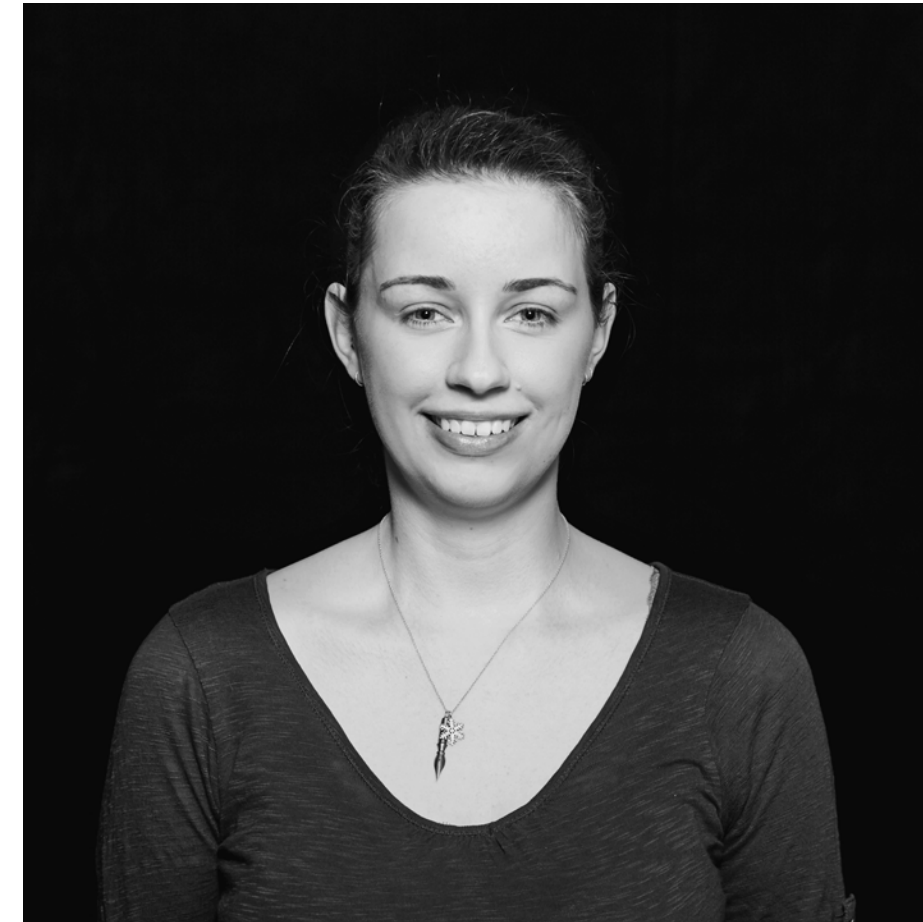
Hello, World

QUESTIONS?

COME TALK TO US!



CHRISTINA
 merelyChristina



ANNA
 merelyAnna