STEPWISE_

Smart residents living in a Smart environment

Agenda / Practical Cases
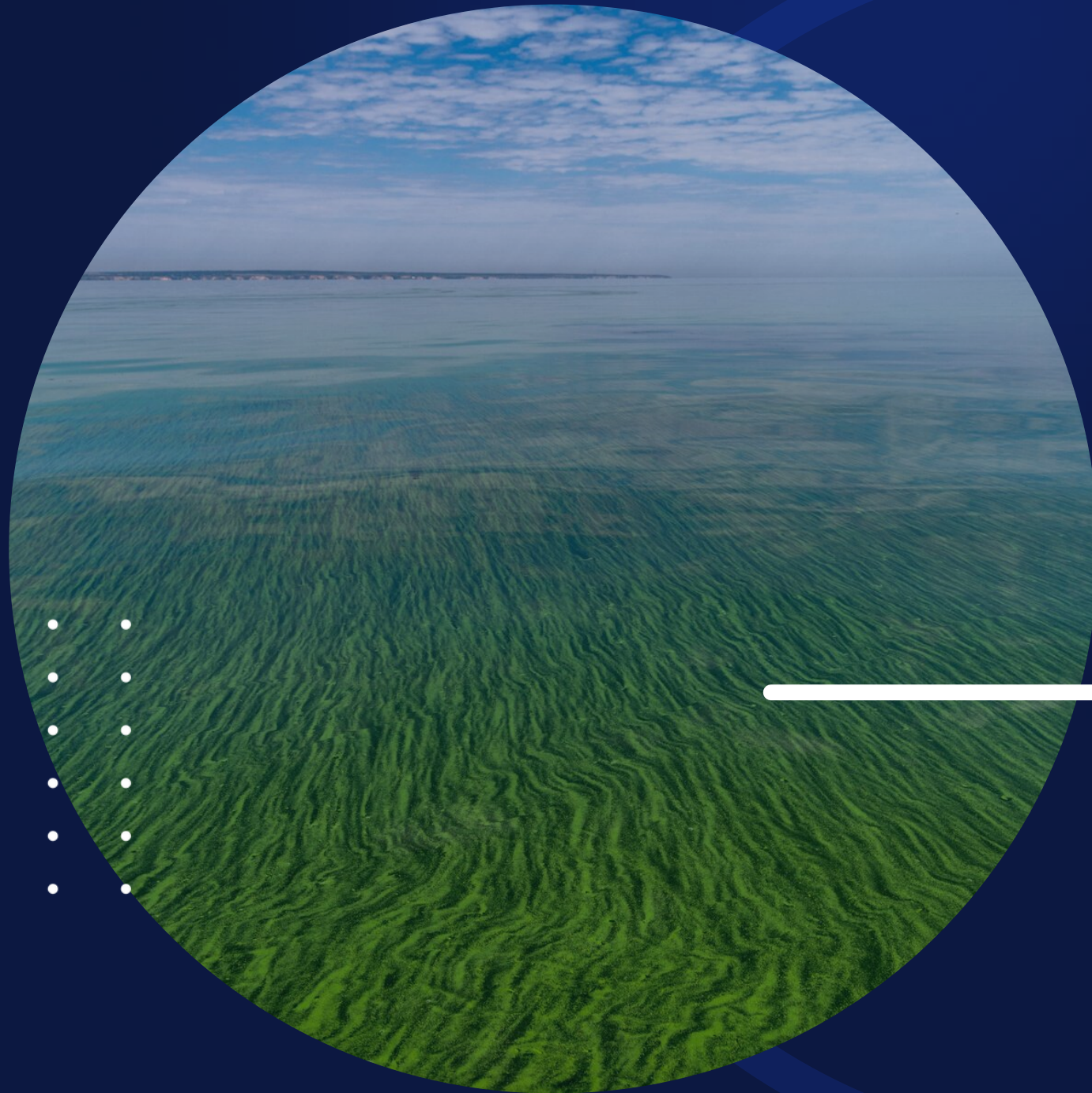
Smart
Environment

Digital Passport
for Buildings
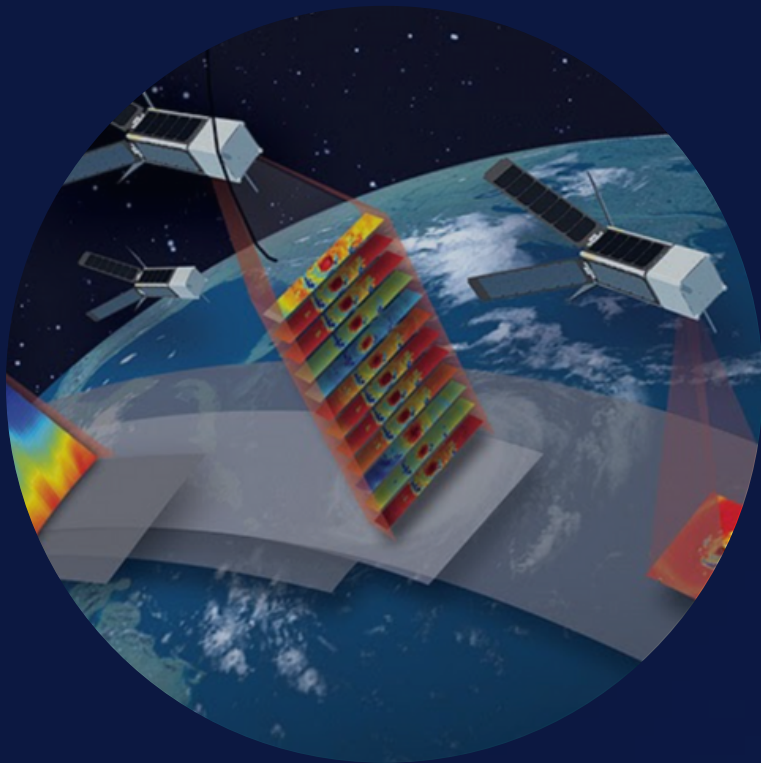
STEPWISE_

Smart Environment / Challenge

1 Cyanobacteria produce toxins that can affect humans and animals

2 Swimming and bathing as most common health effects

3 Problems for drinking water treatment systems

STEP**WISE**_

Smart Environment / Digital Solutions

Visual monitoring & field tests of cyanobacteria level

Datasource: drones, satelites, crowdsourcing and public data

Early warning system for society & city authorities

STEPWISE_

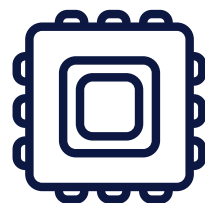# Smart Environment / System Architecture
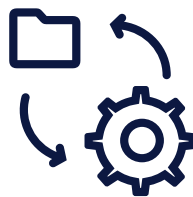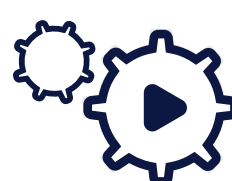
Data source	Cloud	Enrich	Analitics	Activate	Export
Satelites	Cloud Processing	Data Processing	AI Engine	Visualisation	Media
Drones	IOT Core	Public Data	Query Engine	Alerting	Society
Crowdsourcing	Cloud Telemetry		In-house Software		
			Machine Learning		

STEPWISE_
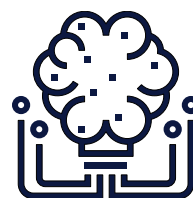
Digital Passport for Buildings / Digital Solution

Digital Building Passport

Zero-energy buildings requires

- Intelligent Administrative tools

- Intelligent Building Automation & Control System

- Recommendations for Energy - Efficiency & Maintenance

Your buildings
List of buildings

You have 13

FILTERS :

Oslo
Vestfodlata 45
Energy usage
1140 kWh
Water usage
1150-2532 L

Oslo
Tenesaki 211
Energy usage
1140 kWh
Water usage
1150-2532 L

Rangrok
Greeneelwen 315

Energy usage	Gas usage
1140 kWh	1130-1149 L
Water usage	Status
1150-2532 L	Good

See details >
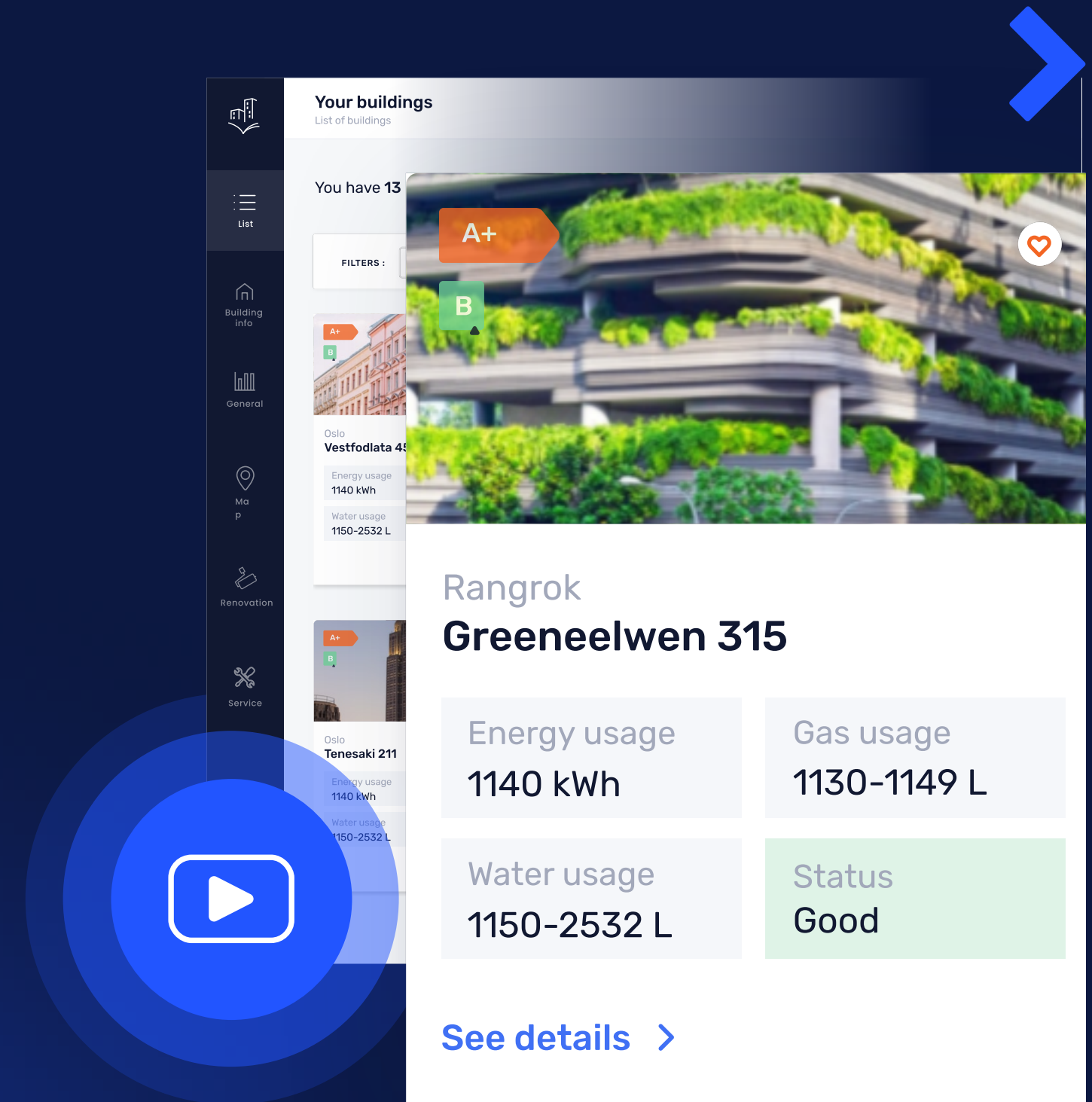
STEPWISE_

Digital Passport for Buildings / System Architecture

Digital meters

Building X

Cloud with data from digital meters

Digital Passport Building

Key Functionalities:

1. Monitoring
2. Analytics & Diagnostics
3. Efficiency Recommendations
4. Machine Learning

SMART System Control

System control drivers

Ventilation

Car charges

Heating

Lifts

Air conditioning

Building X
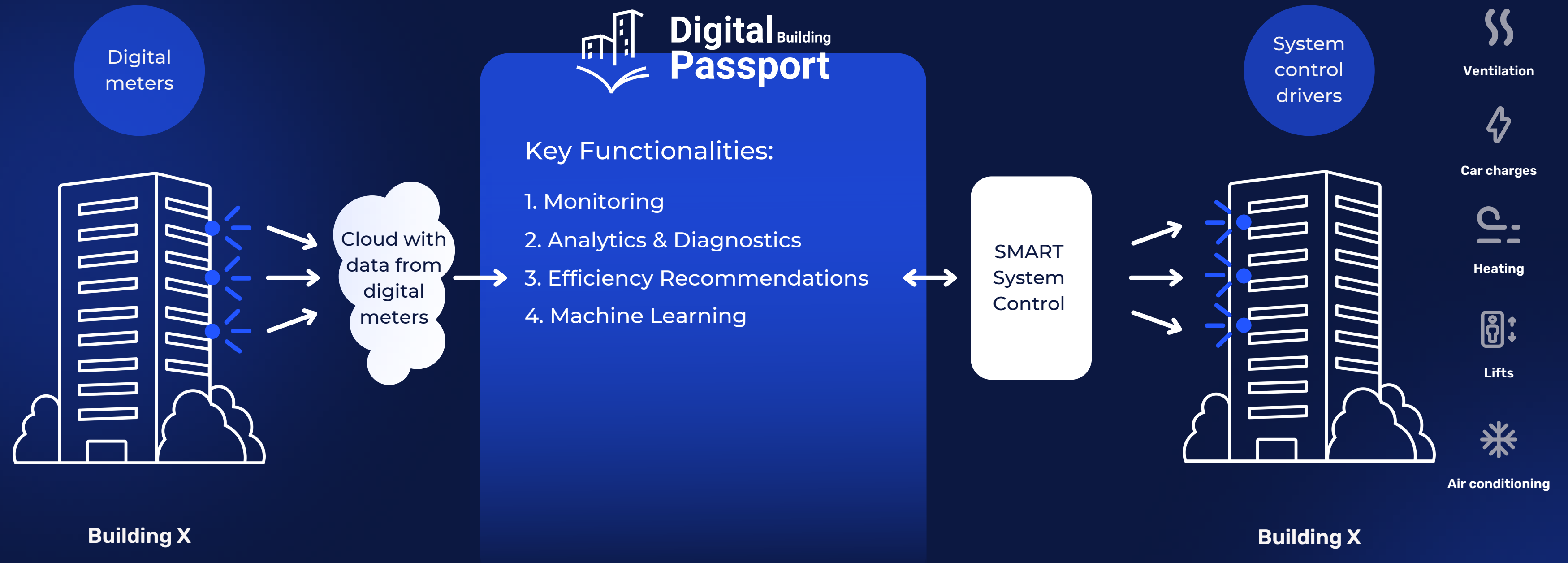
STEPWISE_

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Stepwise Team

Founded 2016

Sectors: Fintech, Industry 4.0,
Smart Cities & Smart Buildings

Who are we? 35 Software Architects & Engineers,
DevOps, UX/UI, Data Engineers and Scientists

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Digital Building **Passport**

▶

★★★★★
17 REVIEWS

Deloitte.
Technology **Fast 50**
2021 CENTRAL EUROPE
#15 Central Europe
#5 in Poland