

Increase district heating substation performance

September 2021



Our mission

Simplify maintenance to enable fault-free and sustainable operations

Our smart solutions support better and faster decisions regarding your assets so that you can concentrate on the success of your business.

We create KPI based transparency to reduce downtime and overconsumption



Who we are

Symvio works with Fraunhofer ISE to develop a solution for city district heating



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Problem we are solving

District heating is a key pillar of your decarbonization strategies, however there are operational challenges



Lack of transparency on the downstream of the heating network, e.g., on heat transfer stations



District heating operators have to better understand consumption & operational pattern to avoid disruptions to consumers



Core technology

Automated fault
detection & diagnostics
to generate insights
across the “anomaly
resolution journey” to
reduce carbon footprint



Qualitative models to detect early signs
of drifting behavior

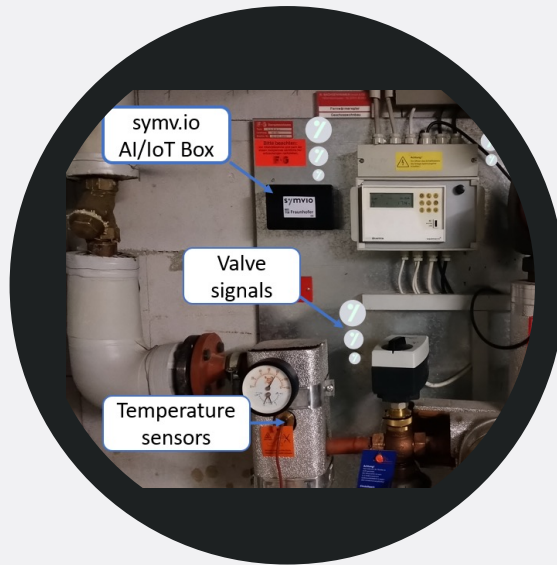


Combined machine-learning methods
with feedback loops for continuous
optimization

Focus of phase 2

We'll demonstrate the whole process for insights gained by combining local IoT with available data from cities

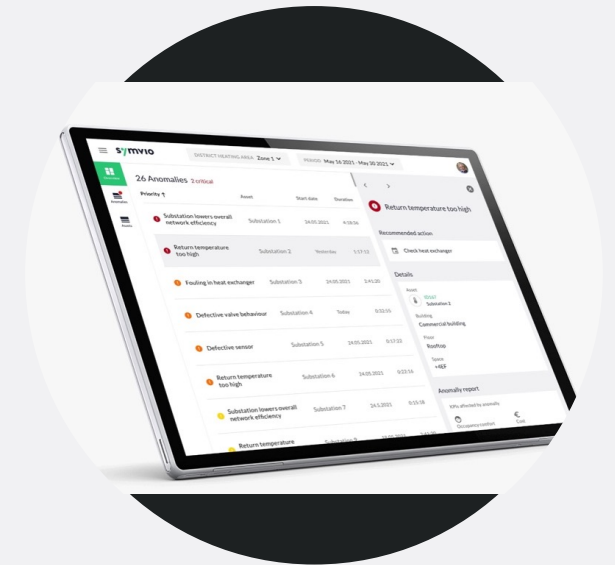
1 Collect and ingest data



2 Analyze data



3 Communicate insights



Lessons learned in phase 1

In phase 1 we gained better understanding of where cities stand

Lessons learned

- Available data infrastructure
- Current use of digital technologies and ambitions
- Organizational challenges

Expected challenges

- Integrate various data sources different and deal with differences in data quality
- Gain insights from operators on the ground



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