
 Greeting for the NFDI4Ing Conference 2023

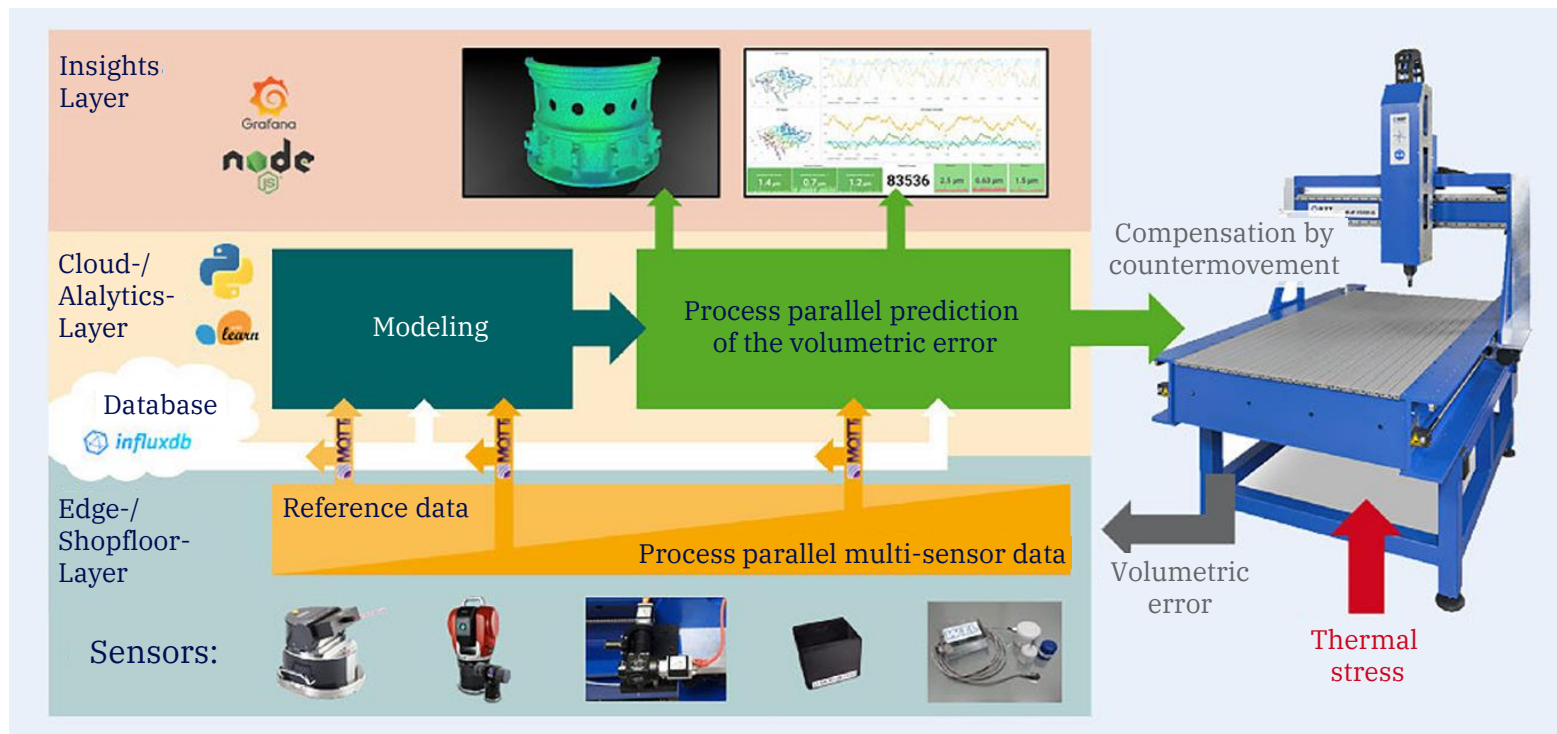
TA Frank – Use Case Virtual Climatization

01.09.2023

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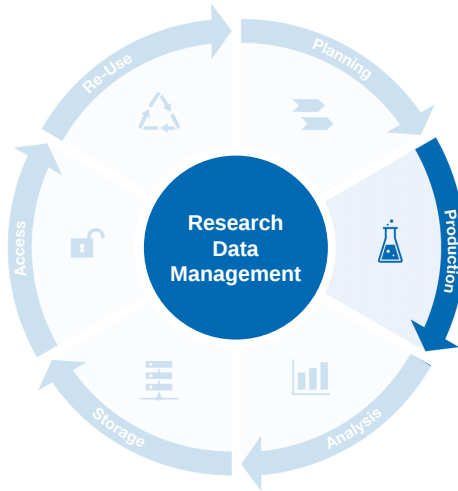
Use Case Virtual Climatization



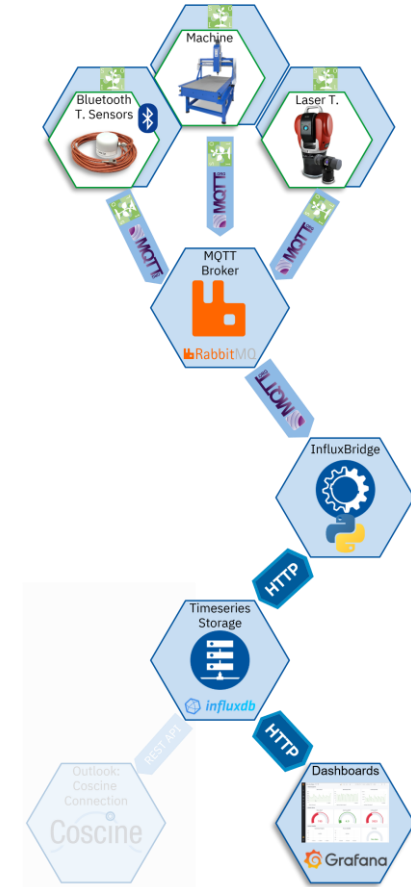
Usage of NFDI4Ing in our Use Case



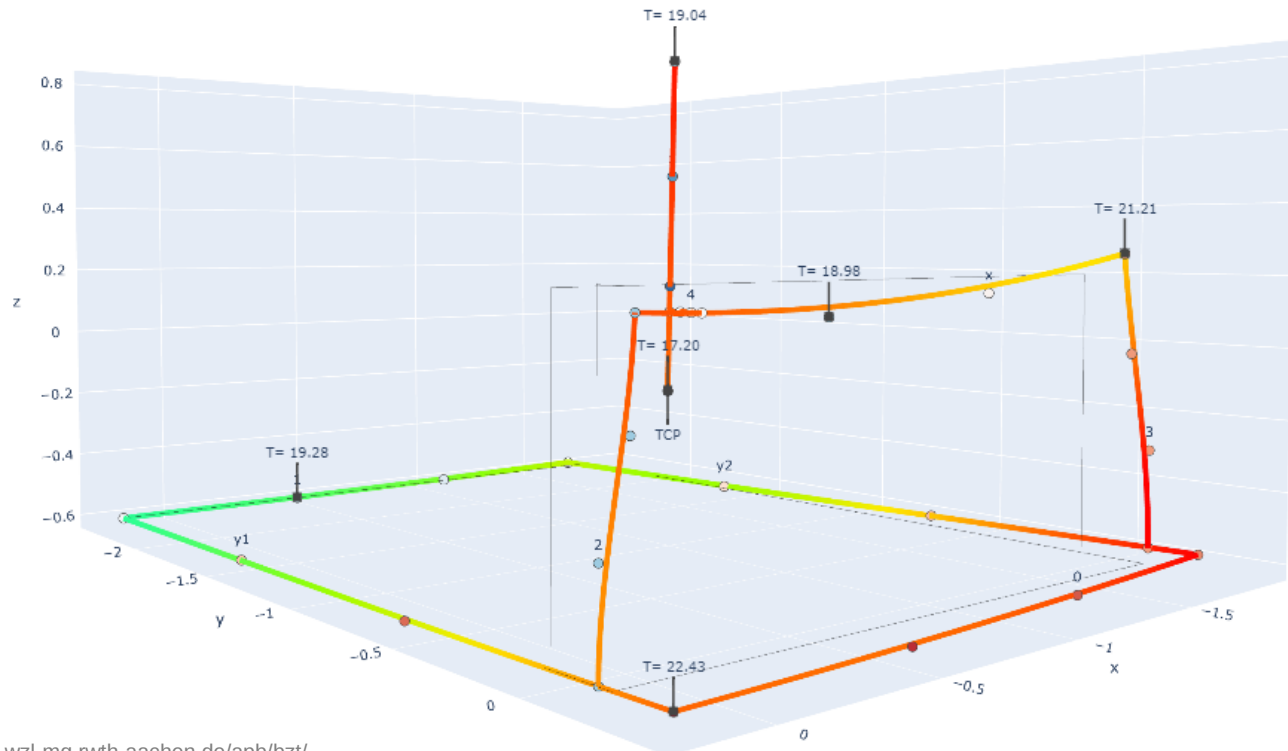
Use Case Virtual Climatization



- Data is collected by many different sensors
- Data is decentrally formatted to fir the SOIL-model
- Data is transferred to a MQTT-Broker
- Data is passed on via InfluxBridge
- Data is stored in influxdb based Timeseries Storage



Use Case Virtual Climatization



Link: <https://iot.wzl-mq.rwth-aachen.de/soil/>, <https://iot.wzl-mq.rwth-aachen.de/apb/bzt/>

Use Case Virtual Climatization

RDMO

- Our data management plan (DMP)

RDMO

RWTH Publications (OA)

- This paper



RWTH AACHEN
UNIVERSITY

Coscine

- This paper with original tex files
- Our DMP as XML export
- MQTT2Influx-Bridge
- Description and Manual of the Sensor Interfacing Language
- Dataset
- Python MQTT-Library



Zenodo (OA)

- This paper
- Our DMP as XML export
- MQTT2Influx-Bridge
- Description and Manual of the Sensor Interfacing Language
- Dataset
- Python MQTT-Library

zenodo

Private GitLab

- Python Unified Device Interface



GitLab

Public GitLab (OA)

- WZL-MQTT
- Python Unified Device Interface



GitLab

PyPi (OA)

- WZL-MQTT
- Python Unified Device Interface



→ Linked to → Uploaded to (OA) = Open Access



● Thank you!

License

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