



craftworks

TRANSFORMING BUSINESSES INTO DIGITAL LEADERS

craftworks develops **artificial
intelligence** solutions

for **predictive maintenance** and
predictive quality

in order to **increase efficiency** and/or
save costs in your company

BIG DATA
INFRASTRUCTURE

PREDICTIVE
ANALYTICS &
ARTIFICIAL
INTELLIGENCE

SOFTWARE
SOLUTIONS

1

2

3

BIG DATA
INFRASTRUCTURE

PREDICTIVE
ANALYTICS &
ARTIFICIAL
INTELLIGENCE

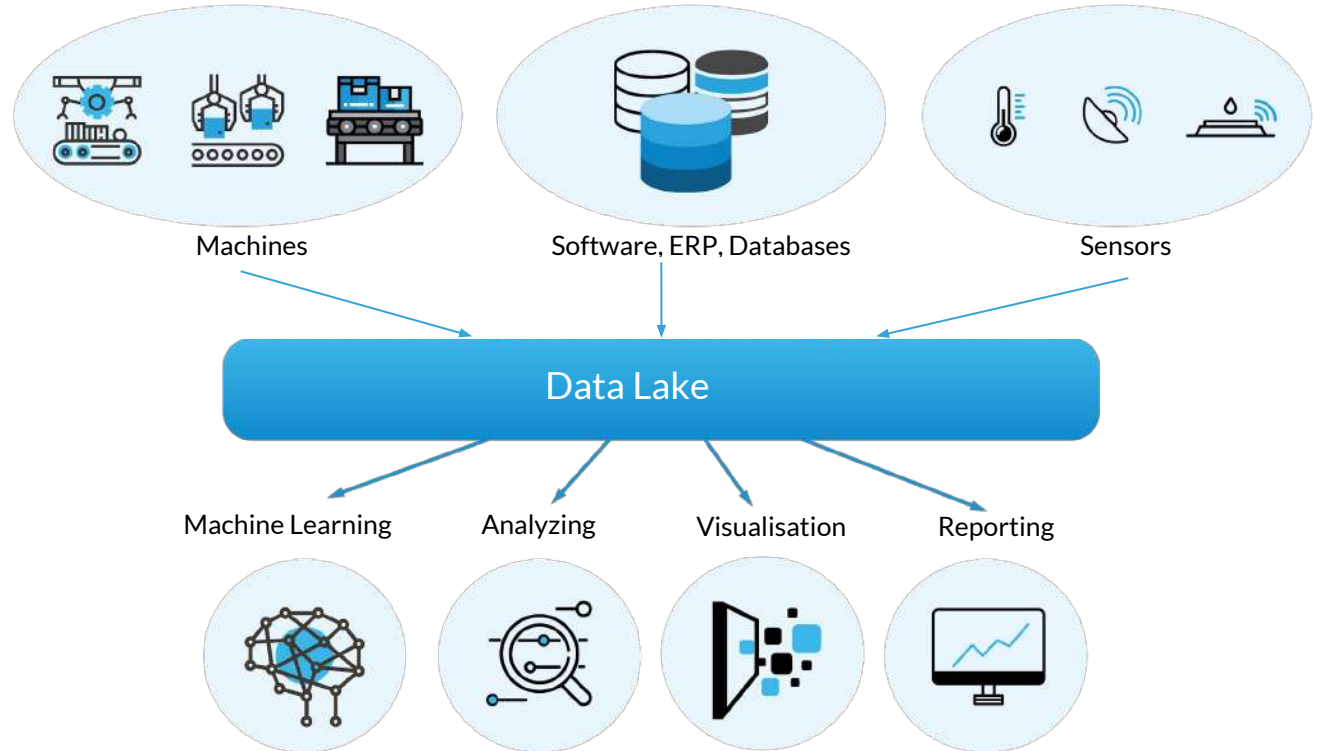
SOFTWARE
SOLUTIONS

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DATA LAKE SOLUTIONS



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2

- Predictive maintenance
- Predictive quality

USE CASE: DISTRICT HEATING VIENNA

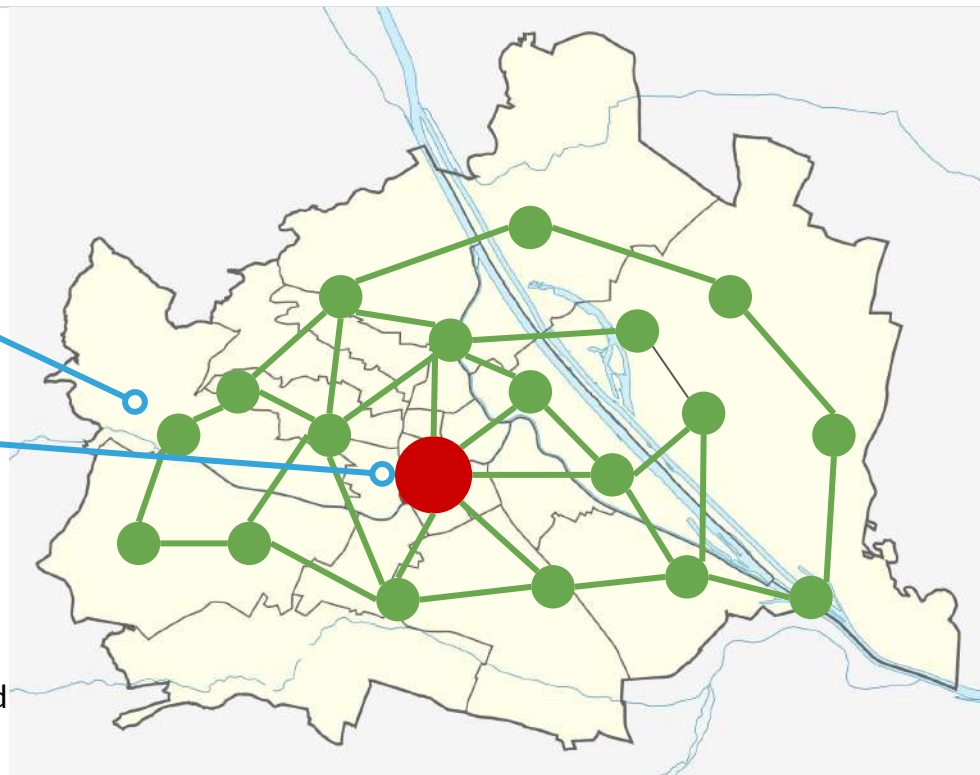
Vienna has one of the biggest district heating systems in the EU

Several thousand converter stations

Downtimes occur on a daily basis

Using historical sensor data such as temperature and pressure

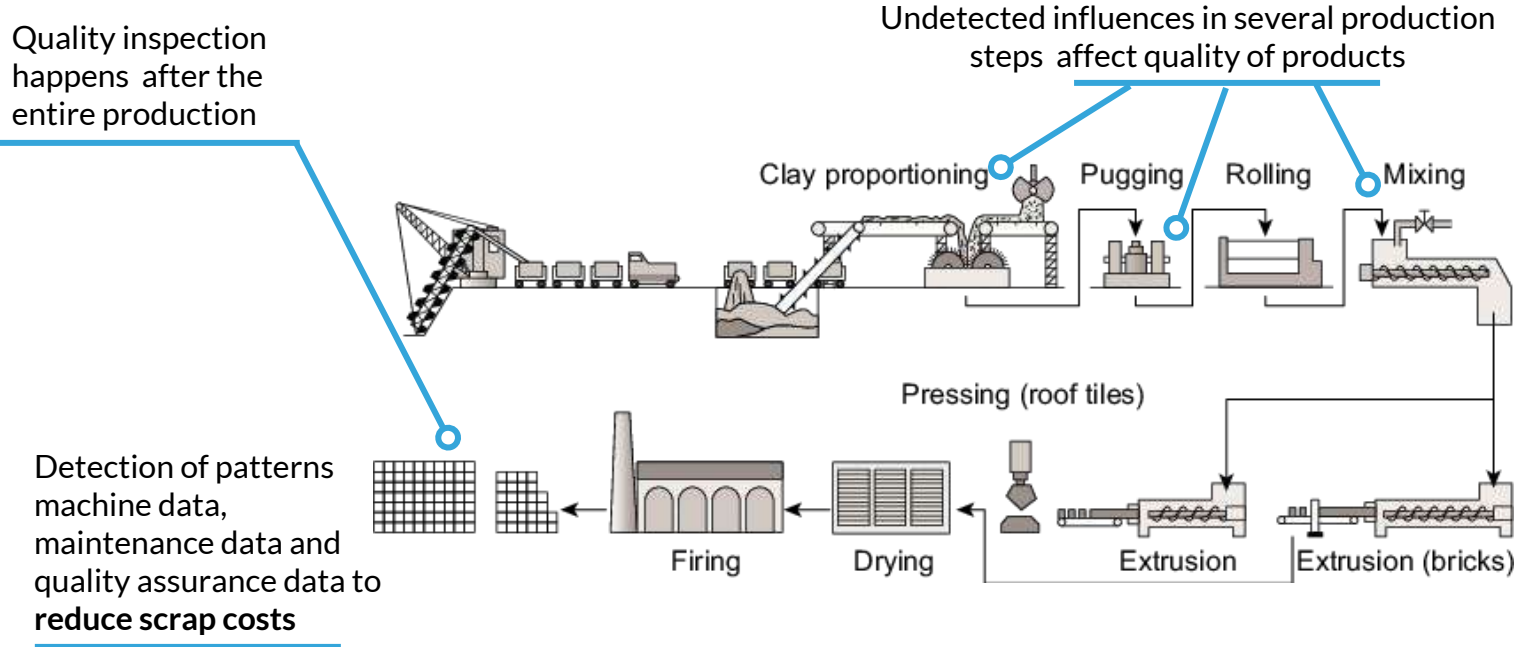
Our solutions predicts downtimes 7 days in advance and avoids inefficient maintenance



2

- Predictive maintenance
- Predictive quality

USE CASE: INDUSTRIAL PRODUCTION



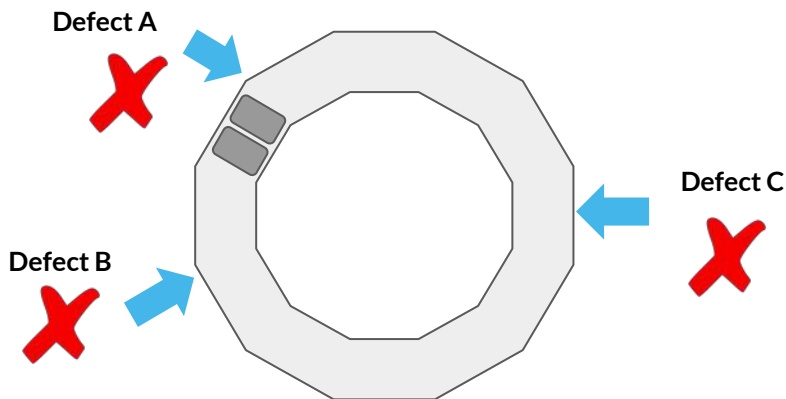
2

- Predictive maintenance
- Predictive quality

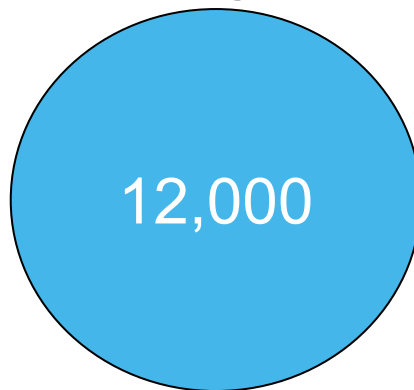
USE CASE: VISUAL INSPECTION

Detecting and Explaining Defects in Industrial Parts

Industrial Part



Unlabelled images



Vast majority of unlabelled data is
OK

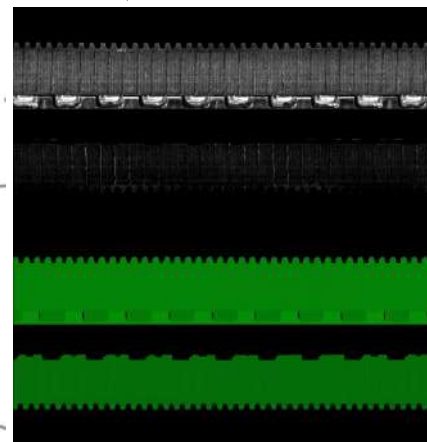
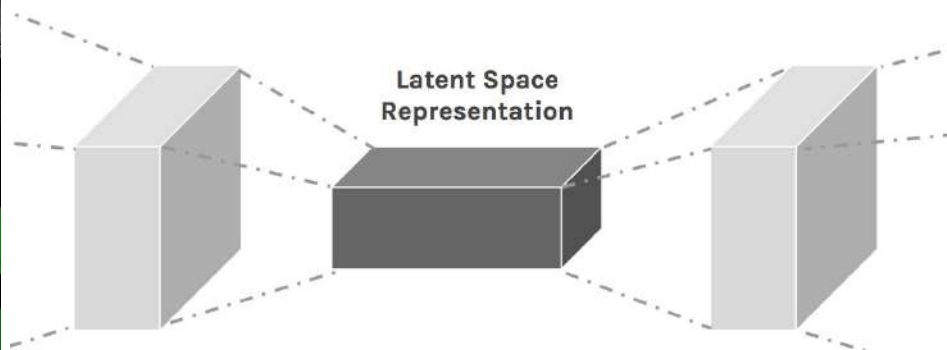
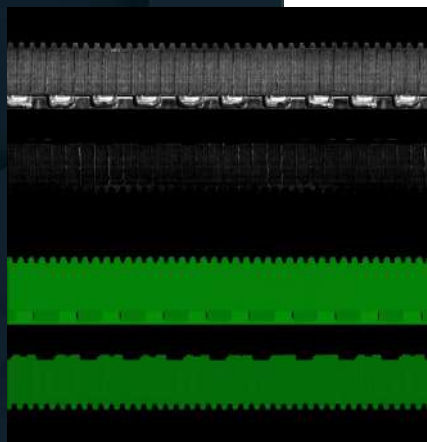
2

DETECTING DEFECTS IN IMAGES

Visualizing Anomalies using Reconstruction Error

- Predictive maintenance
- Predictive quality

Reconstruction Error



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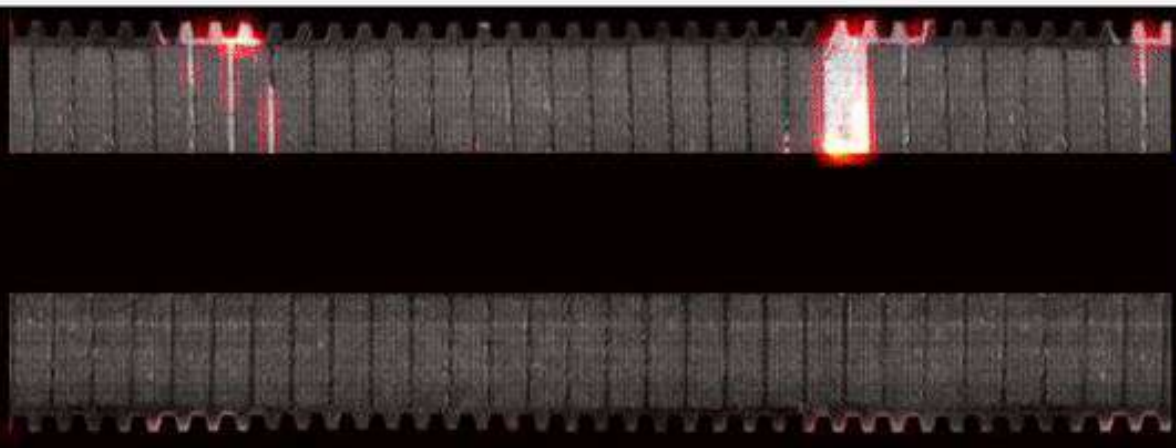
Predictive Quality

ALT + KLICK um Bereiche einzuzeichnen
SHIFT + MAUSRAD um zu zoomen



0

Show Z-Information



Detected Error

Defect R

Show root causes

Next Image >

Our **algorithms** and **solutions**
have been **awarded multiple times**



Business Model

Customer fit solutions with fixed daily rates

WHO WE ARE

17 Team members

Machine Learning

Biomedical Engineering

User Experience

Software Engineering



Physics

A SELECTION OF OUR CLIENTS



Mobility &
Transportation



Predictive Quality



Predictive Analytics



Predictive Analytics



Machinery &
Manufacturing



Predictive Quality



Predictive Quality



Retail



Software Solution



Computer Vision



Big Data Infrastructure



Energy & Utility



Predictive Maintenance



Predictive Maintenance





craftworks

WE DEVELOP **INDIVIDUAL SOFTWARE** AND
CREATE ARTIFICIAL INTELLIGENCE SOLUTIONS