Pipelife Norge AS

05.12.2019

Eirin Kalstø Leder Horisont

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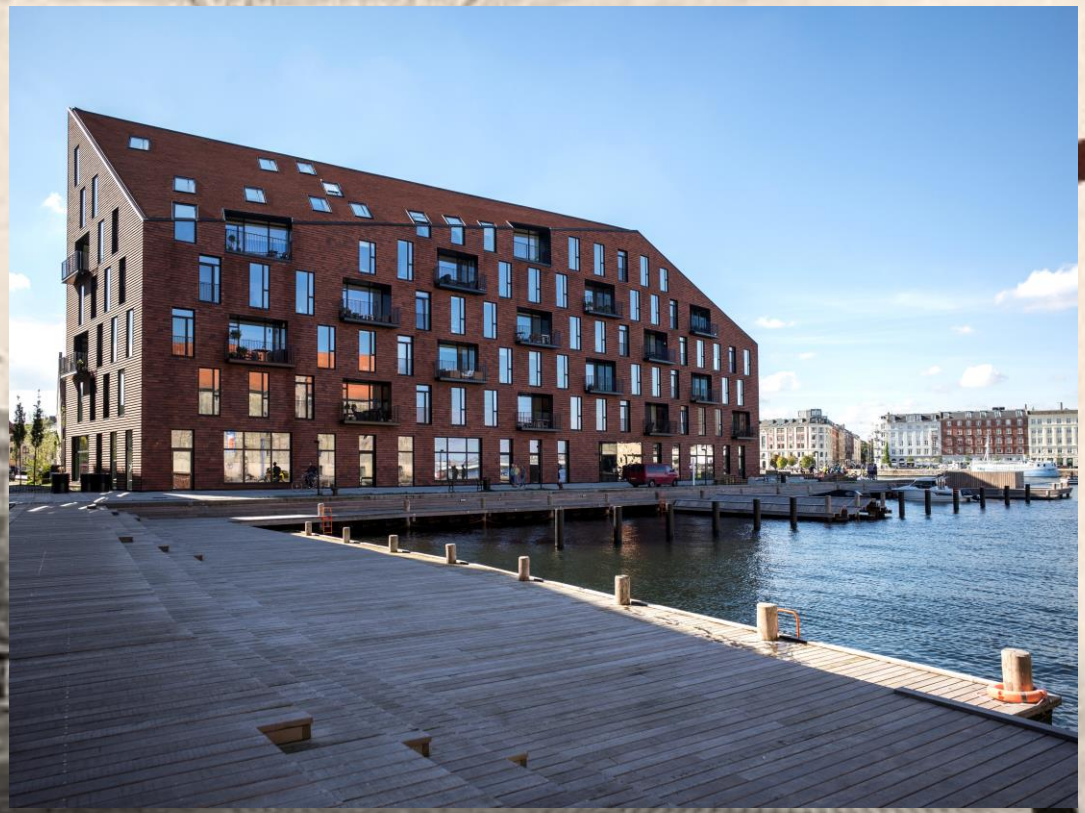
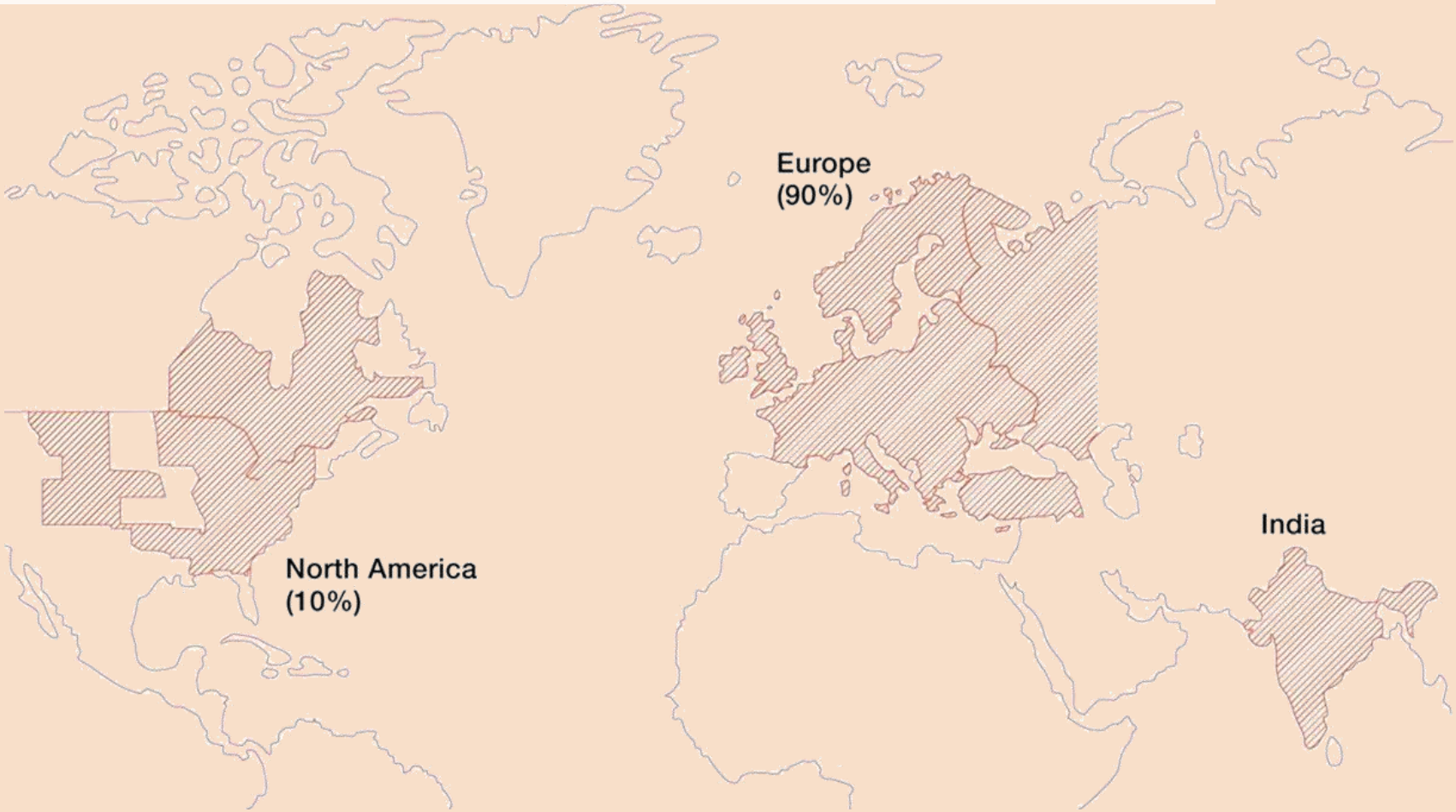
THIS YEAR IS A SPECIAL YEAR FOR WIENERBERGER…

BUILDING THE FUTURE. SINCE 1819.



200 YEARS wienerberger

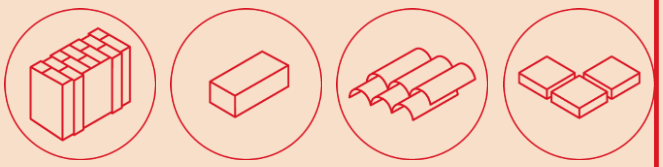
...WITH A GLOBAL REACH...



195 PLANTS	30 COUNTRIES	17,000 EMPLOYEES	€ 3.3 BN REVENUE (2018)

...AND STRONG OPERATING PLATFORMS

WIENERBERGER BUILDING SOLUTIONS

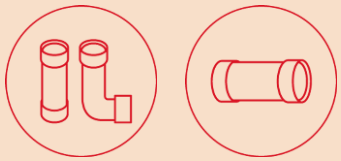


Solutions for walls, facades, roofs and paving

REVENUE 2018

€ 2.1 BN

WIENERBERGER PIPING SOLUTIONS

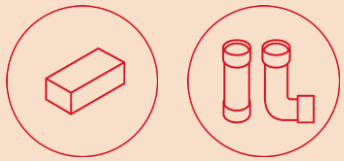


Plastic and ceramic piping solutions

REVENUE 2018

€ 1.0 BN

NORTH AMERICA

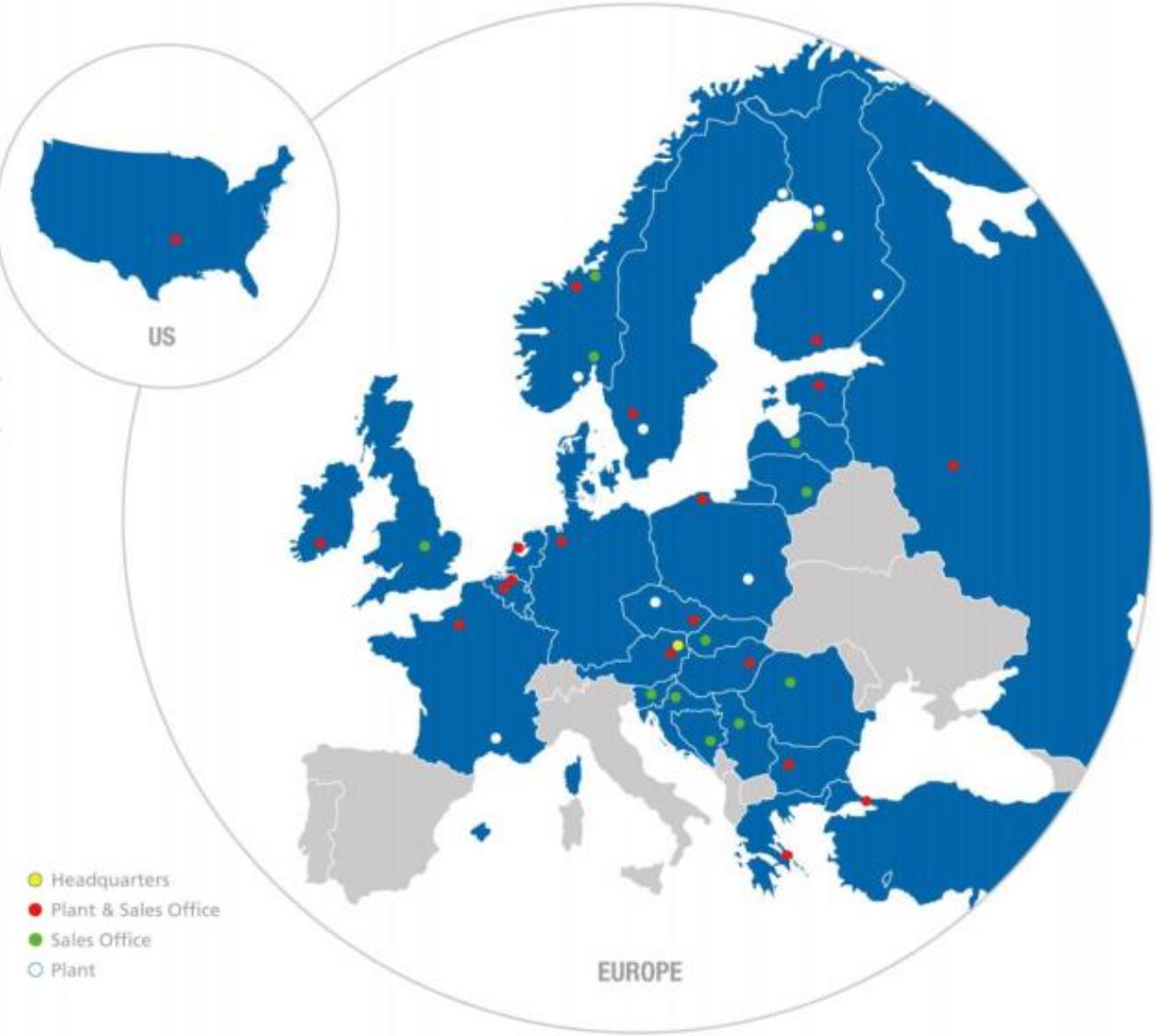


Façade solutions
Plastic piping solutions

REVENUE 2018

€ 0.3 BN

The Pipelife Group – present worldwide



725.000 km pipes
installed worldwide
in 2018

PIPELIFE NORGE QUICK FACTS...

PIPELIFE

WATER
SEWAGE
SOIL
ELECTRO
CABLE

200+ Employees

Revenue **NOK 1.1bn**

Est. **1969**

WORLD MARKT LEADER
for long length pipes in large diameters (LLLD)

3 Factories

#1 producer of plastic pipe systems in **NORWAY**

INNOVATION
Leader, driving business model development towards
SMART WATER SOLUTIONS

Major **EXPORTER**

Front runner in **SUSTAINABILITY**

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Wienerberger Solutions

INDUSTRY LEADING LONG LENGTH LARGE DIAMETER (LLLD) PIPE SOLUTIONS

Manufactured in Norway – exported to the whole world

Longest and largest continuous extruded plastic pipes in the world

Diameter up to 2.5m

Length up to 600m

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WE FOCUS ON …

…SECURITY OF SUPPLY USING SMART INFRASTRUCTURE

Water stress

Water quality issues

Excess of water

Aging workforce

Aging infrastructures

Budget constraints

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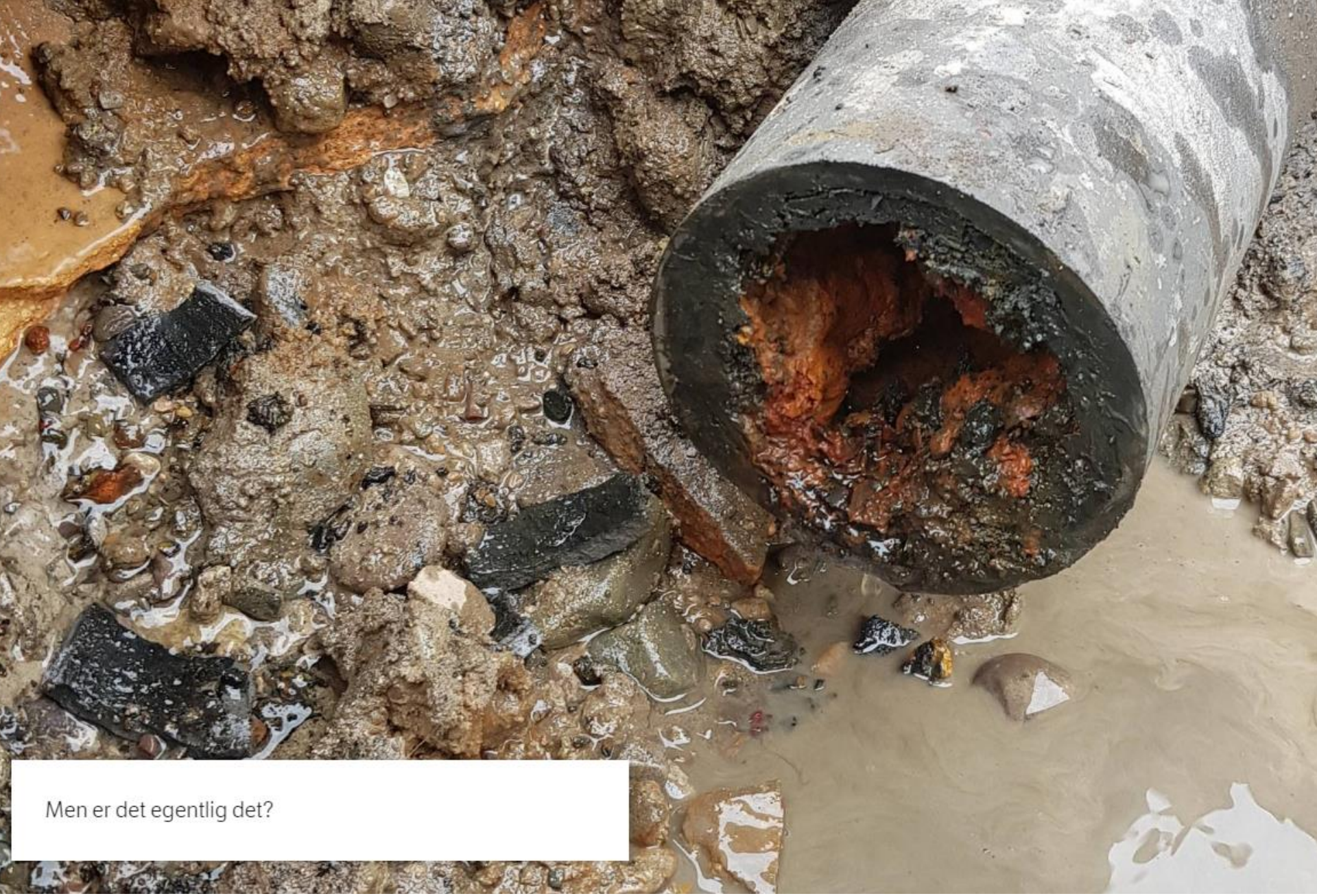

Men er det egentlig det?

WHY?

Effects of climate change are increasing all over the planet

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FOCUS AREAS

- BIM
- SMART PRODUCTS & SERVICES
- INDUSTRY 4.0

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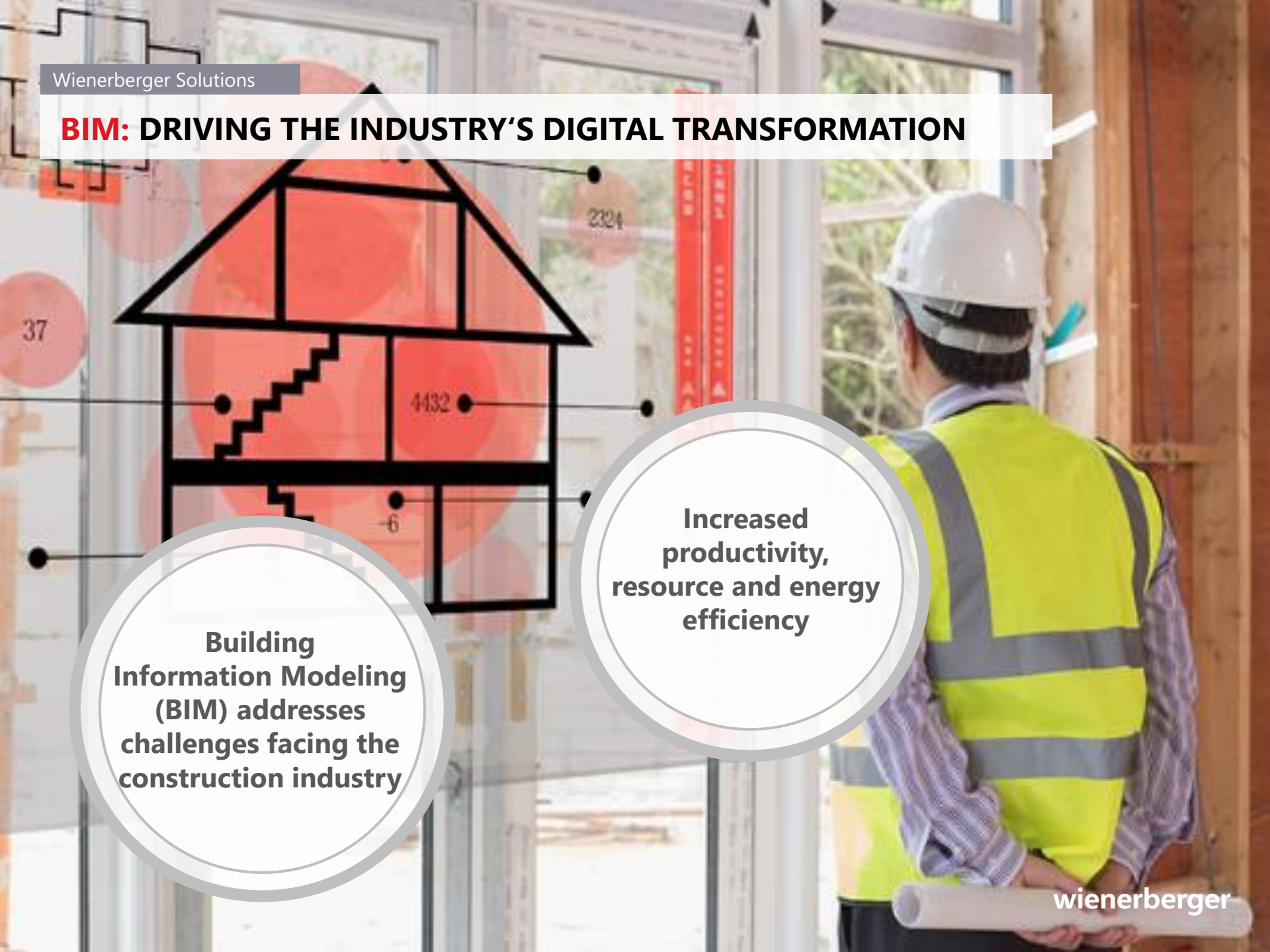
BIM: DRIVING THE INDUSTRY'S DIGITAL TRANSFORMATION



Building Information Modeling (BIM) addresses challenges facing the construction industry

Increased productivity, resource and energy efficiency

SMART PRODUCTS & SERVICES:
Remote controlled PIPES AND INFRASTRUCTURE

Monitor flow, temperature and other senor data from remote areas without electricity

Remote Terminal Unit (RTU) extract data w/ NBIoT

Monitoring, controlling & alerting based on AI and ML

NB-IoT

Mobile apps

Web interfaces

IBM cloud

API

Cloud x,y,z

Customer

Gateway

Internet

Cloud

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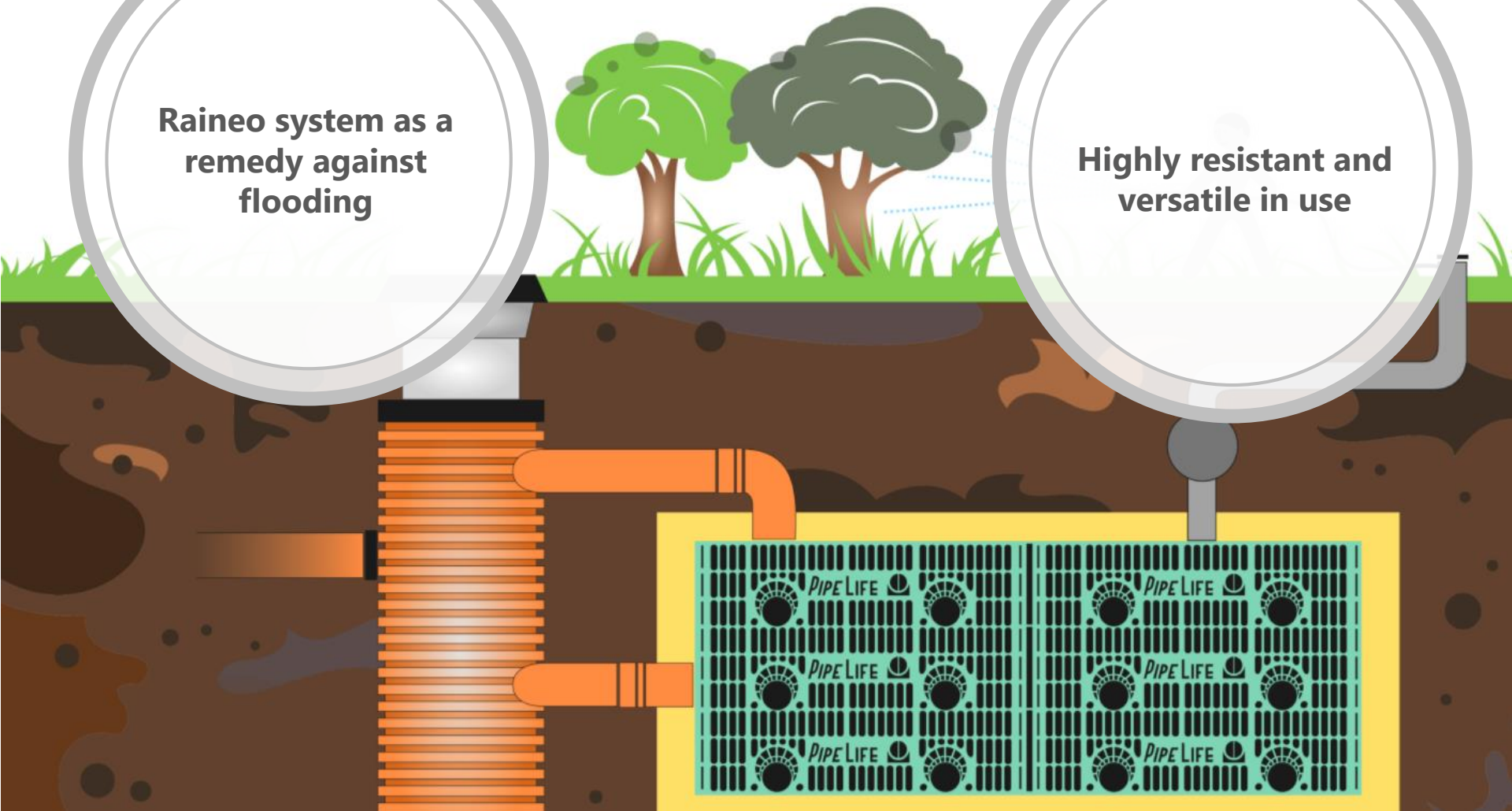
Wienerberger Solutions

SMART PRODUCTS AND SERVCIES:

INNOVATIVE SOLUTIONS AGAINST FLOODING

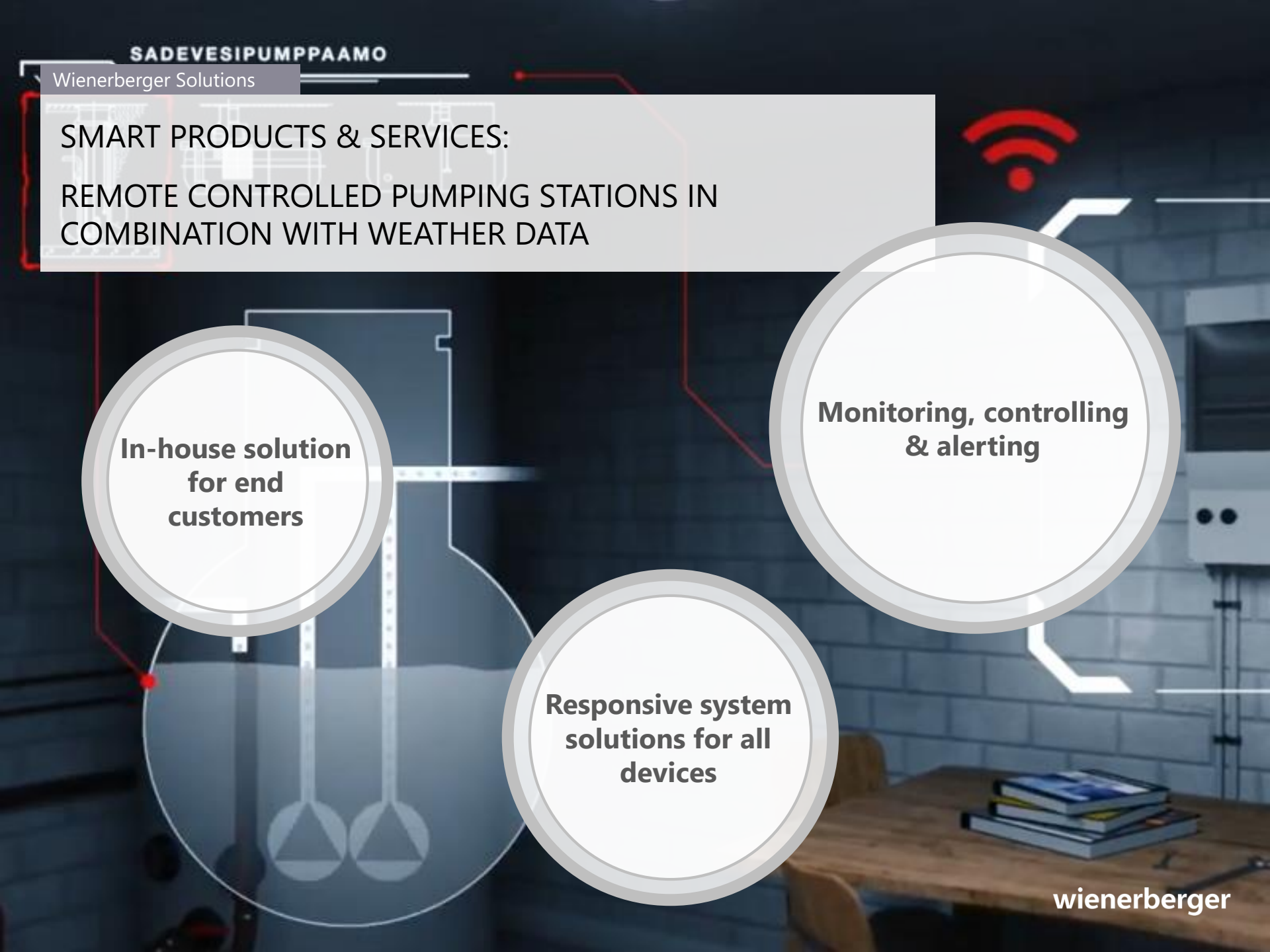
Raineo system as a remedy against flooding

Highly resistant and versatile in use



SMART PRODUCTS & SERVICES:

REMOTE CONTROLLED PUMPING STATIONS IN COMBINATION WITH WEATHER DATA



INDUSTRY 4.0

Fully automatic production lines (SmartLine +)

Sensors on all critical tools/production lines

Robotic Process Automation (RPA) for back end office tasks

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Examples Industry 4.0 – Surnadal

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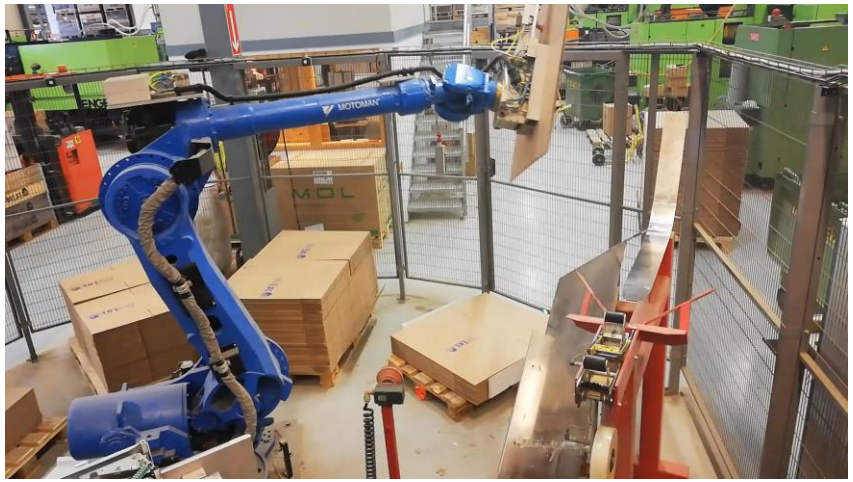

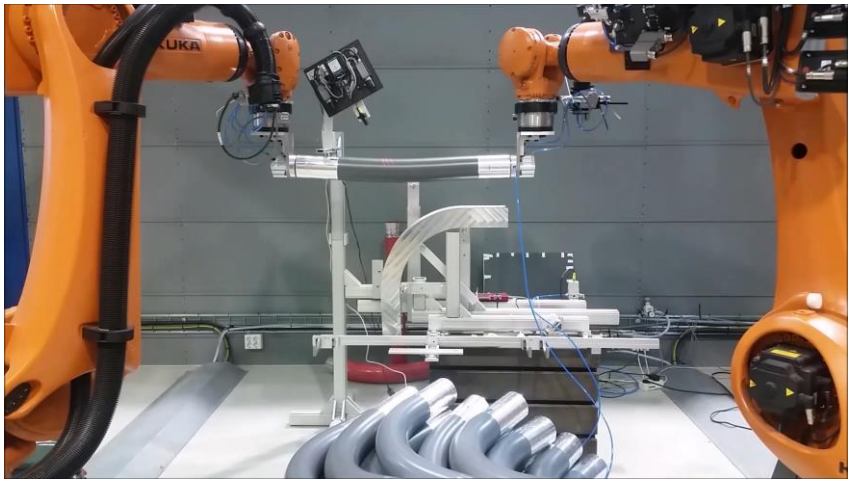

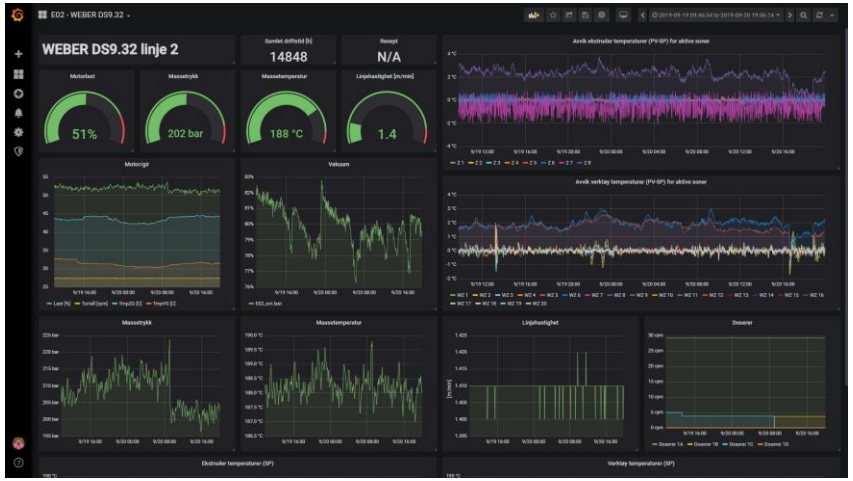

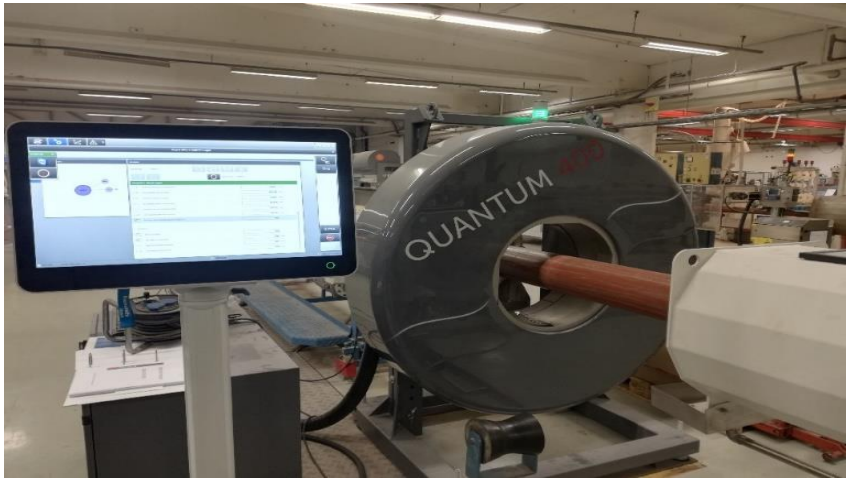

CoA Archiving

BEFORE

Recieves e-mail with CoA

Purchaser open CoA

Manual control of input data

Purchaser renames CoA

Purchaser saves CoA in right folder

Check for missing CoAs

Process takes **75 sek** from initiation to completion

AFTER

Recieves e-mail with CoA

The robot works integrated with all systems and handles the steps just lika human would – only 7 times faster

In **10 sek** the robot can complete the same process in only 1/9 of the time as a human

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Video demo

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RPA og AI/ML

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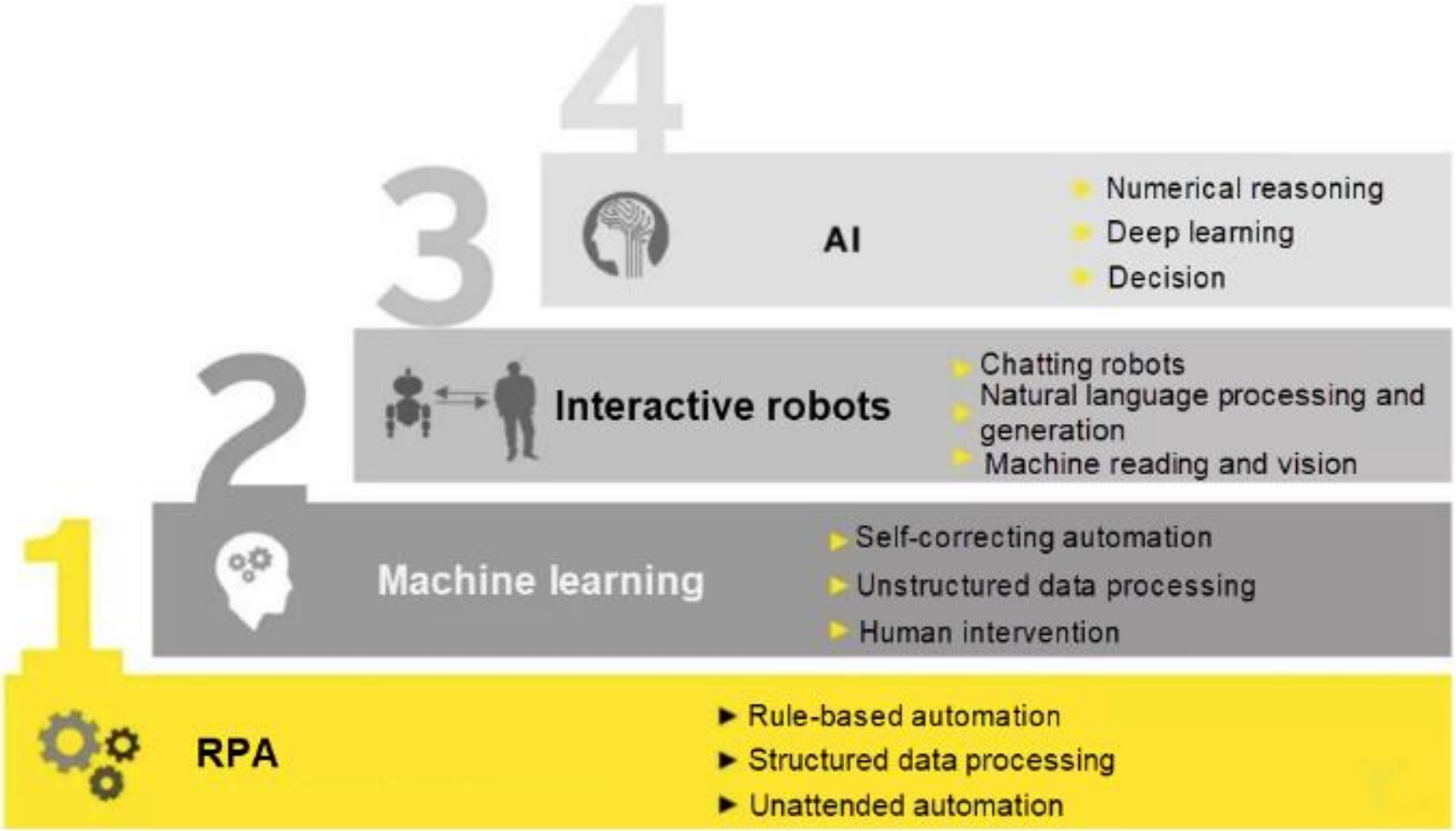

WIENERBERGER IS COMMITTED TO NORWAY AND WANTS TO GROW FURTHER
Smart solutions in Water Mngmnt
Sustainable products & solutions
Services and digital platforms
Investment in People
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QUESTIONS?

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