

IoT as a solution for the labour and knowledge shortage on the railways and other industries.



Y





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DualInventive

Rail Safety &
SIL 4 Cloud



Asset
Management
IoT Cloud &
Connectivity



Custom solutions
in the field of
embedded
systems



Industrial
computers &
embedded
systems



Renewable
fuels
engines



Asset
Management
IoT Cloud &
Connectivity



Industrial
computers &
embedded
systems

Software

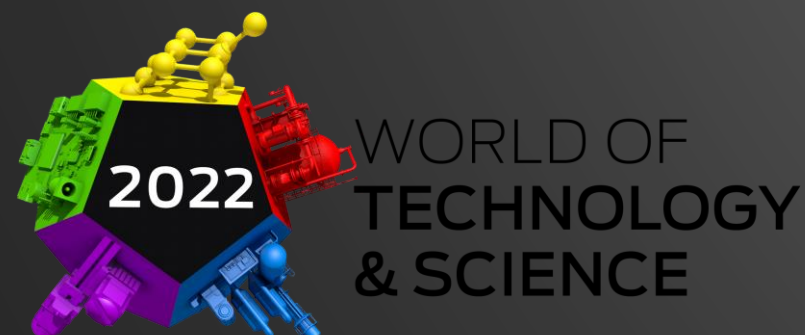
Hardware

The work environment is transforming rapidly in a way that with less workforce more complex work needs to be done.

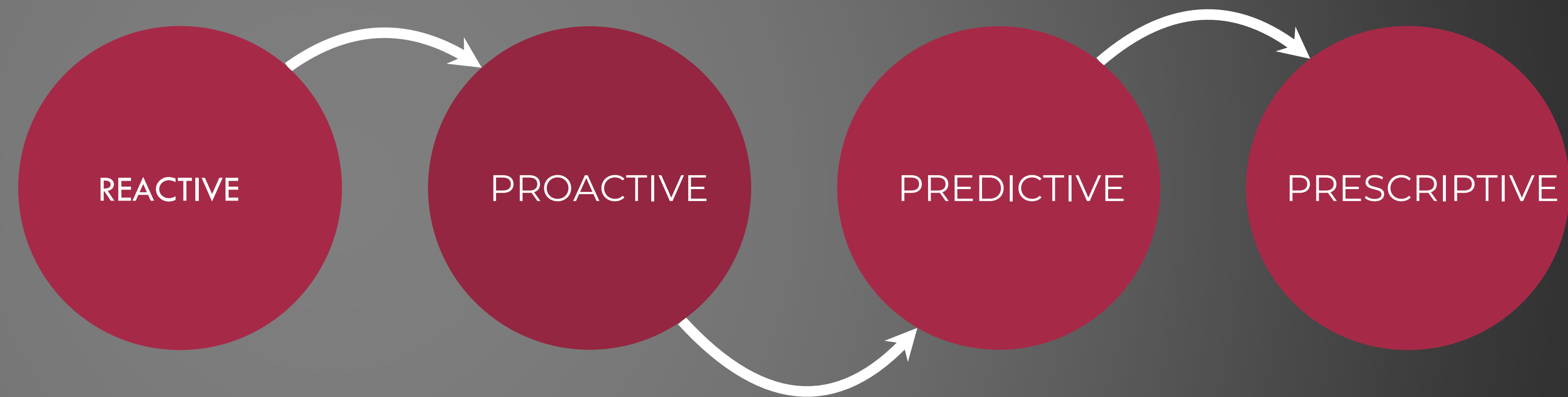
▲ **Increase rail capacity with 30%** ▲

“With 28% of workers in the industry aged over 50, this means some 15,000 workers could be due to retire by 2025.”

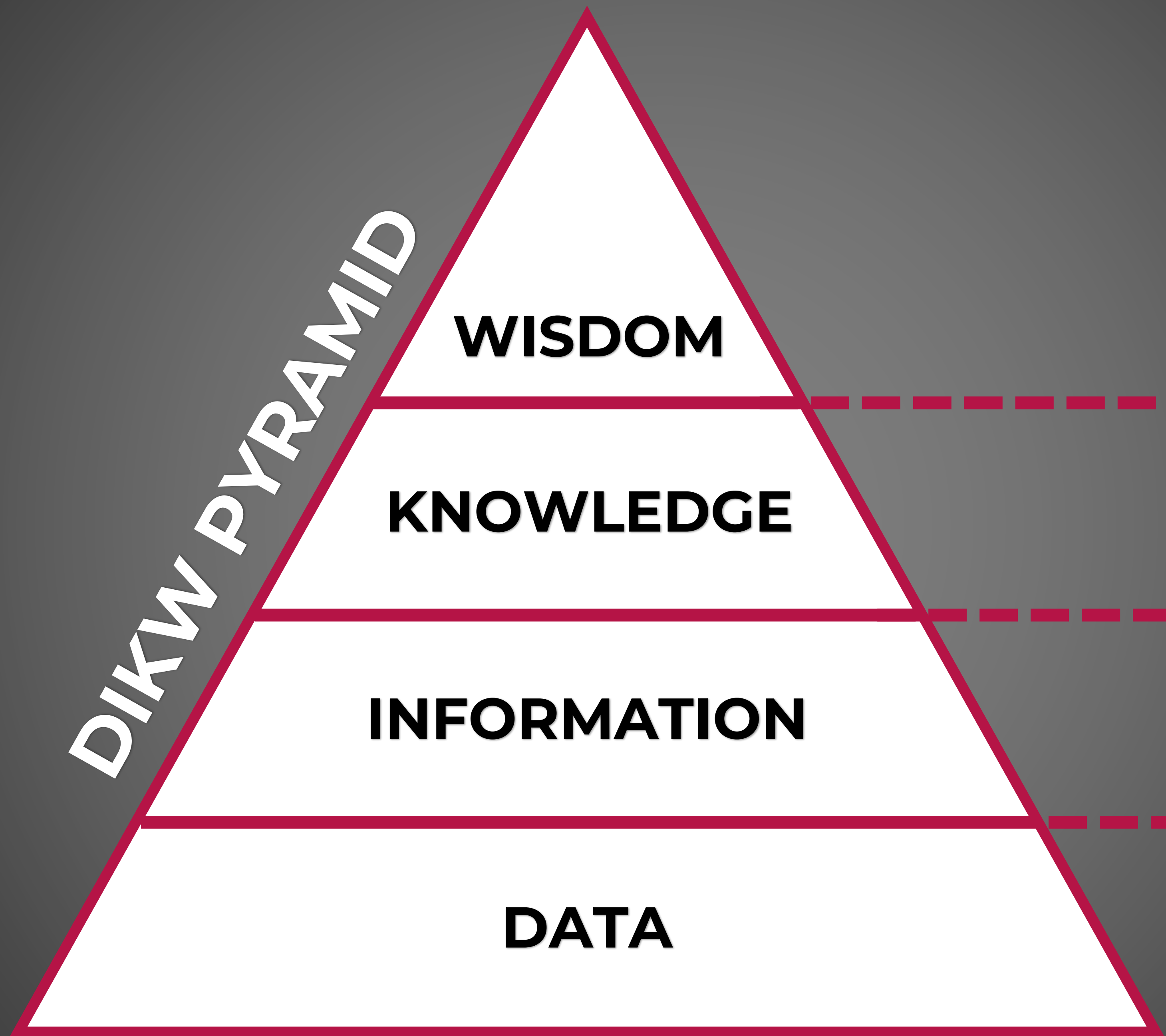
City & Guilds and the National Skills Academy for Rail (NSAR)



DIGITAL TRANSFORMATION via IoT



DIKW PYRAMID

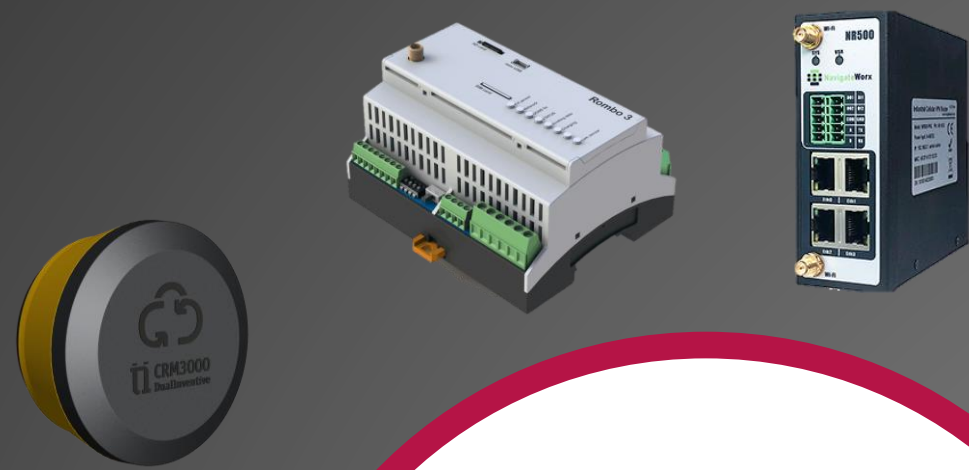


PRESCRIPTIVE

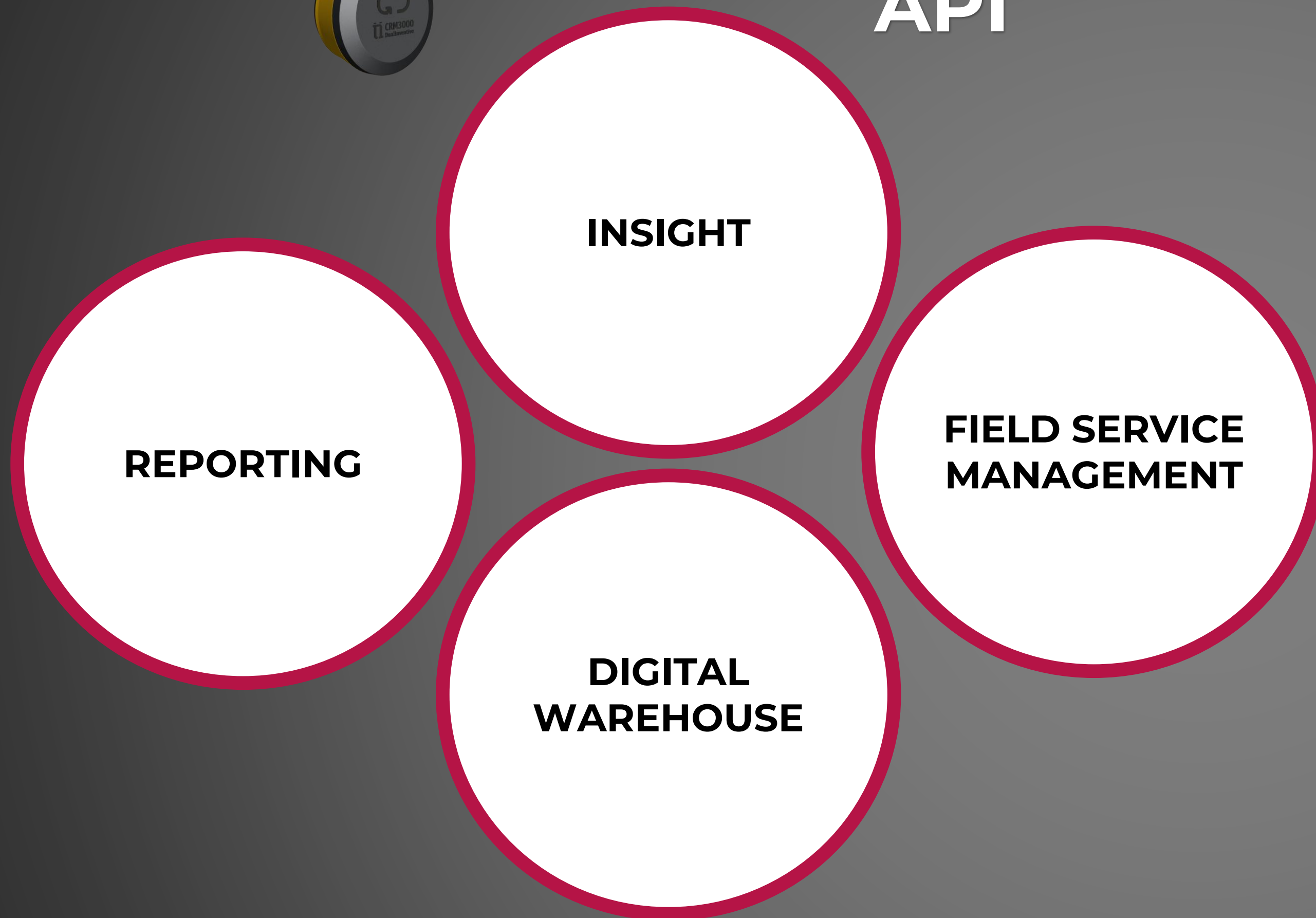
PREDICTIVE

PROACTIVE

REACTIVE



API

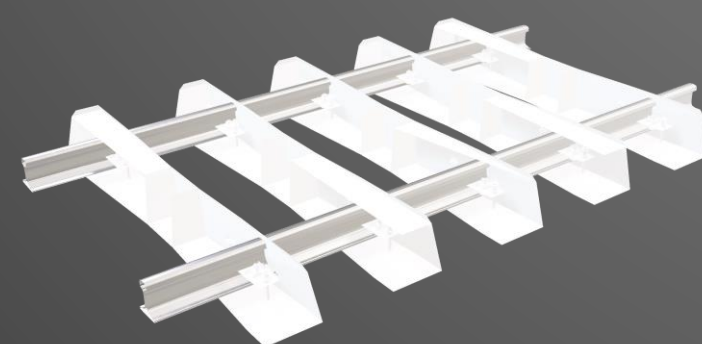


11:40 ↗

◀ Zoek

◀ Back Week 30

✓	Maandag Juli 25 GEVALIDEERD	🕒 00:00 🕒 08:00
✓	Dinsdag Juli 26 GEVALIDEERD	🕒 00:00 🕒 08:00
✓	Woensdag Juli 27 GEVALIDEERD	🕒 00:00 🕒 08:00
✓	Donderdag Juli 28 GEVALIDEERD	🕒 00:00 🕒 08:00
✓	Vrijdag Juli 29 GEVALIDEERD	🕒 00:00 🕒 04:00
✓	Zaterdag Juli 30 GEVALIDEERD	🕒 00:00 🕒 00:00
✓	Zondag Juli 31 GEVALIDEERD	🕒 00:00 🕒 00:00





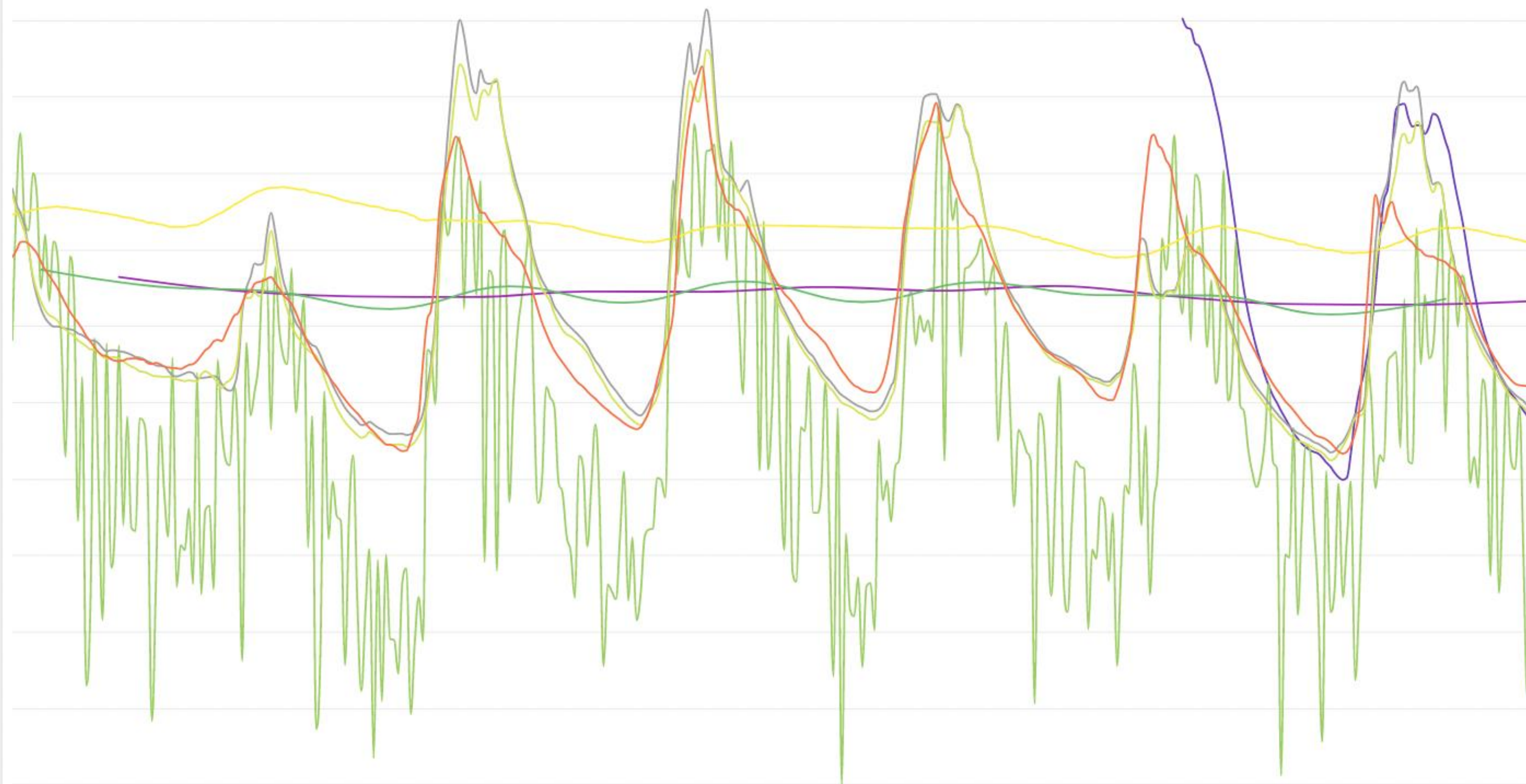


Sensors

- Connectivity Monitoring | 0 | SignalSNR
- Connectivity Monitoring | 0 | Radio Signal Strength
- Connectivity Monitoring | 0 | Link Quality
- Connectivity Monitoring | 0 | Cell ID
- Temperature (PT1000)
- Internal
- Accelerometer | 0 | X Value
- Accelerometer | 0 | Y Value
- Accelerometer | 0 | Z Value
- Voltage | 0 | Sensor Value
- LPWAN Communication | 0 | Integrated Circuit Card Identifier
- LPWAN Communication | 0 | MAC address

OPTIONS Aggregation: mean Resolution: auto

5m 1h 24h 1w 1M 3



25. Aug 12:00 26. Aug 12:00 27. Aug 12:00 28. Aug 12:00 29. Aug 12:00 30. Aug 12:00 31. Aug

760.0005: Temperature (PT1000) 760.0006: Temperature (PT1000) 760.0001: Temperature (PT1000) 760.0003: Temperature (PT1000) 760.0010: Temperature (PT1000) 760.0008: Temperature (PT1000)
 760.0011: Temperature (PT1000) 760.0004: Temperature (PT1000) 760.0007: Temperature (PT1000) 760.0002: Temperature (PT1000)

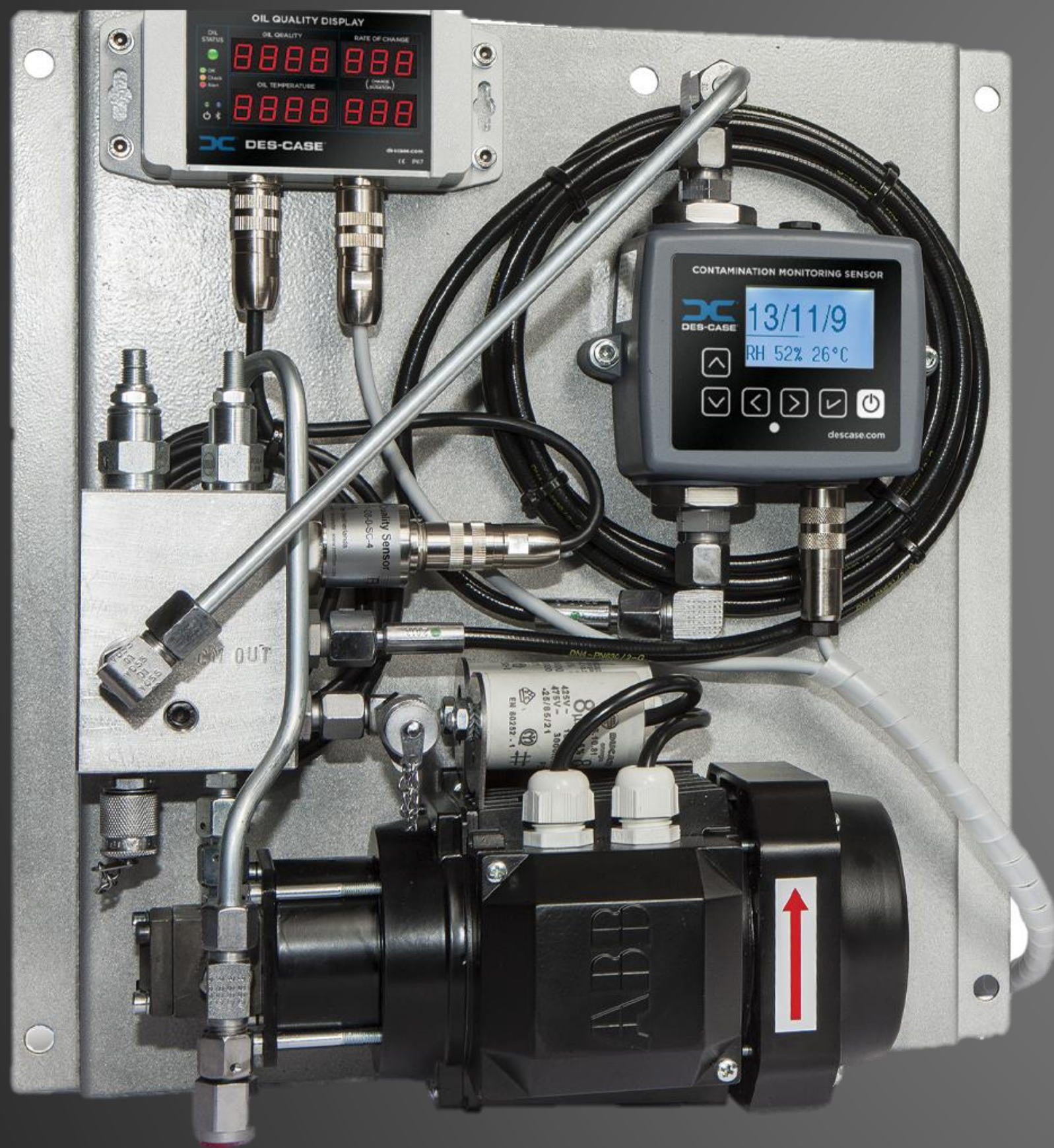
16. May 30. May 13. Jun 27. Jun 11. Jul 25. Jul 8. Aug

OCM Alarm Switch

- Asset Map
- Areas overview
- Dashboards
- Asset overview
- Asset list
- Object overview
- Virtual objects
- Actuator overview
- Alarms
- Tag overview
- Threshold overview



PLC TO CLOUD



Modbus
RTU/IP
Scada
Digital I/O



INSIGHT

Asset details

REMOTE MONITOR DEMO 01

HEALTHY

Remote Monitor Demo 01
CONNECTED

ASSET INFO ATTRIBUTES SENSORS ALARM ALARM DETAILS THRESHOLDS HISTORY

Asset details

Name: Remote Monitor Demo 01
Connected asset ID: 2110005
Asset type: DES-CASE REMOTE MONITOR
Company asset ID: DES-CASE-RM-RX001
Customer: DES-CASE
Supplier: AnyWare x Arcobel
Supplier asset ID: DES-CASE-RM-RX001
Last update: 07.09.2022 11:57:39

Location

Latitude: 51.42894064033119
Longitude: 6.9941570719072566
Altitude: n/a
Last update: 07.09.2022 11:50:30

Tags

+ add tag

Beurs opstelling

CMS: OQS - oil condition TDN: 828.33746

RH%: MCS: Water activity Aw: 0.3279294

Breathers: Breather Life (1/100 %): 100

EDIT

3 Go for 0% downtime & Start Servitization

- Start selling subscriptions for insight in your customers assets
- Start selling services for pro-active and predictive actions on the assets at your customer

2

Secure human expertise

- Transfer human expertise into our cloud eco-system
- Use our intuitive applications to digitalize your processes and go for maximum efficiency

1

Monitoring the reality

- Start real-time monitoring of critical parts of the infrastructure with our edge gateways
- Combine data and knowledge for minimum solving lead times



Let's design the future of asset management together!



Thomas Brekelmans
Commercial Director
AnyWare



Douwe Schoenmakers
Managing Director
Arcobel

Any questions?

We look forward to meeting you at stand C069