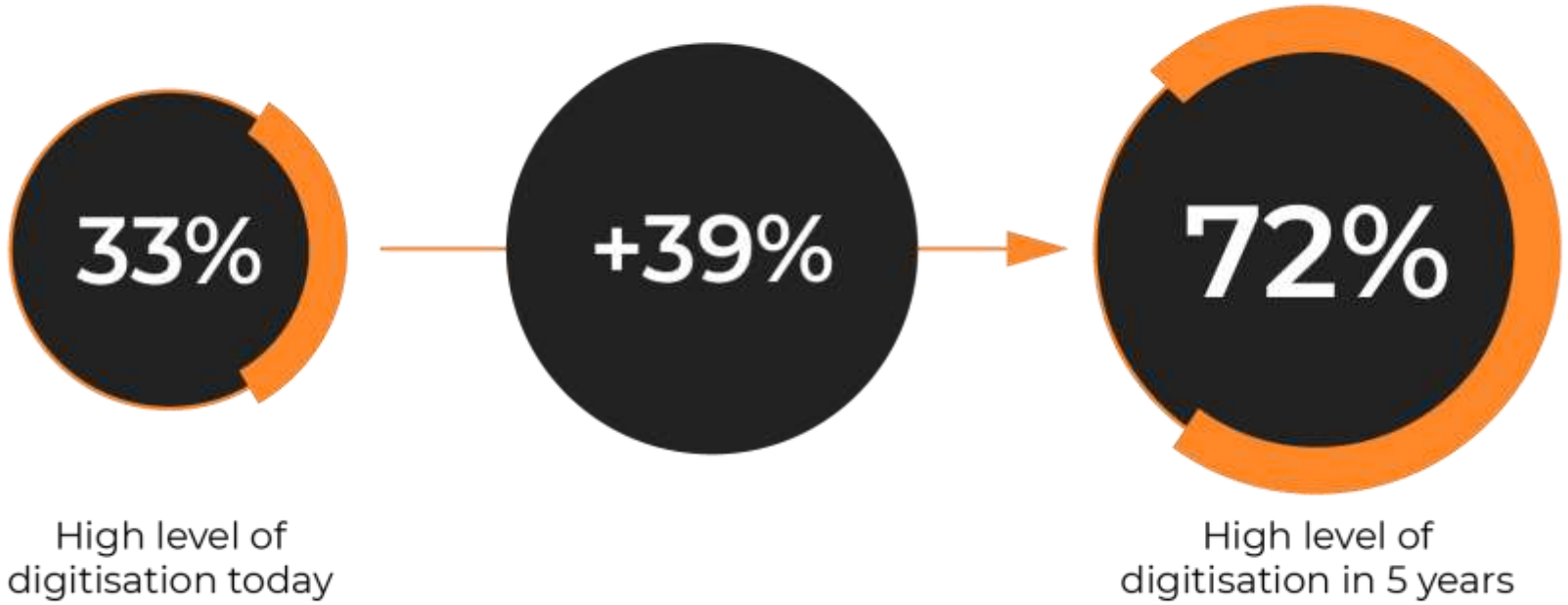
i2r

DISCOVER THE HIDDEN POTENTIAL

What are the expectations to Industry 4.0 and digitalization within industrial manufacturing?

DIGITALIZATION

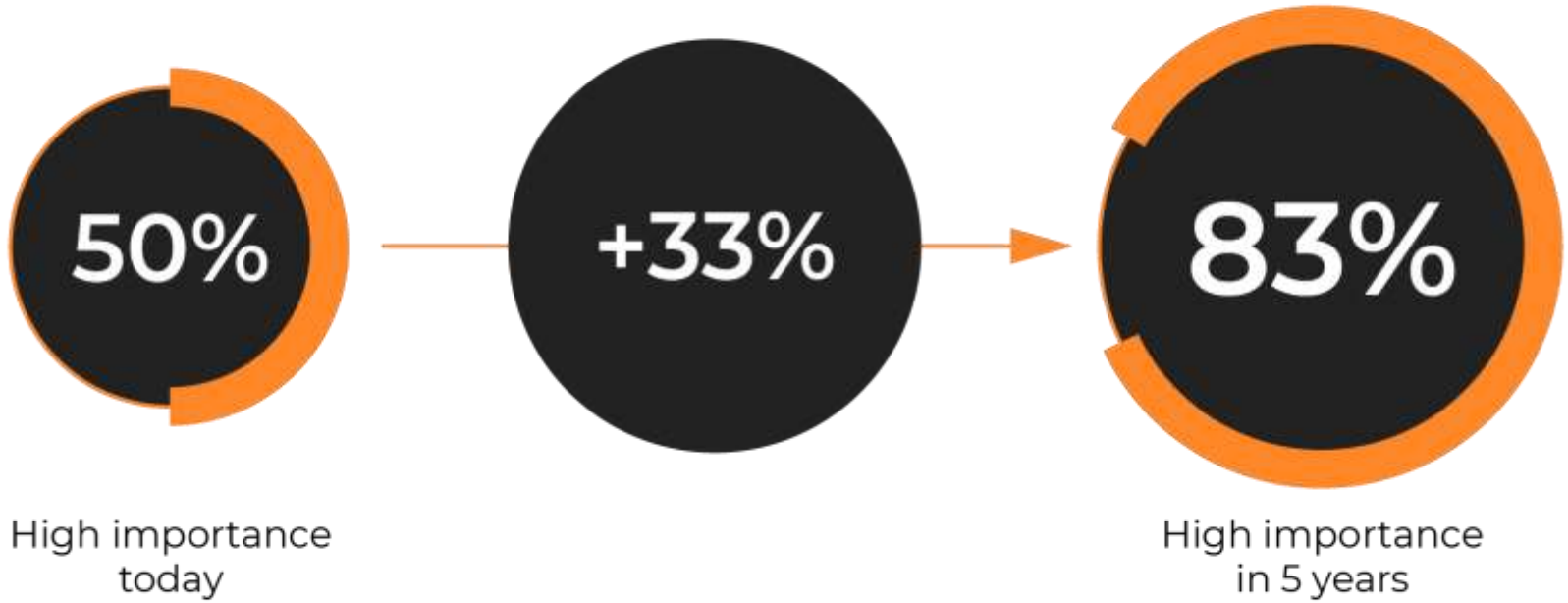
within industrial companies is by
2020 expected to **more than double**



Source: PwC, Global Industry 4.0 Survey, 2016

DATA AND ANALYTICS

are expected to become increasingly important to
drive decision-making



Source: PwC, Global Industry 4.0 Survey, 2016

CHALLENGES

most manufacturing companies face

Machine stops

Downtime

Product quality

Performance

Maintenance

Visibility in manufacturing

i2r
We wish to enable companies to accelerate their journey towards Industry 4.0 by collecting, analyzing and visualizing production data
Or as we call it…

i2r
DIAP
DISCOVER THE HIDDEN POTENTIAL

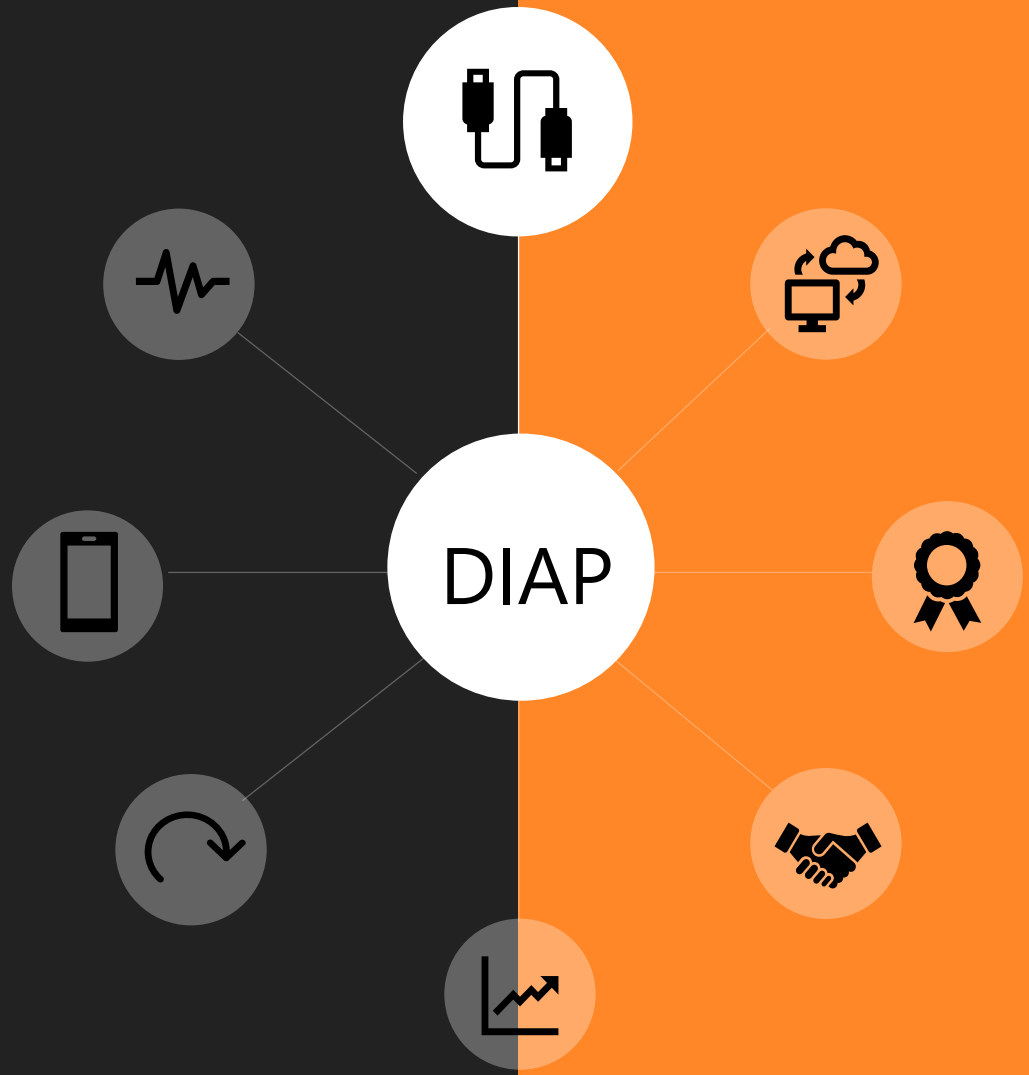
i2r
DIAP
Dialogue tool providing
✓ Visibility
✓ Quality reports for plant management
✓ Data available anywhere, anytime
DIAP
Stop cause registration
✓ Planned & unplanned stops
✓ Alarm notifications
✓ E-mail alerts
✓ OEE reports
DIAP
Live robot data
✓ OEE
✓ Performance
✓ Uptime/downtime
DIAP
Live sensor data
✓ Counting of products
✓ Tracking of objects
DIAP
Live AGV data
✓ Uptime/downtime
✓ Weight monitoring
✓ Alarm notifications
✓ E-mail alerts
DIAP
Live PLC data
✓ Cycle time monitoring
✓ OEE
✓ Uptime/downtime
✓ Historical reporting
DIAP
Live sensor data
✓ Real-time temperature
✓ Overheat detection
✓ Vibration monitoring
✓ Speed monitoring

Why should you grow your business with DIAP?

8 CORE REASONS

UNIQUE COMPATIBILITY

In contrast to many similar products, DIAP provides manufacturing companies with an integrated, high-quality hardware
and software solution which is fully compatible with any **PLC, sensor and industrial robot** from all the major brands.

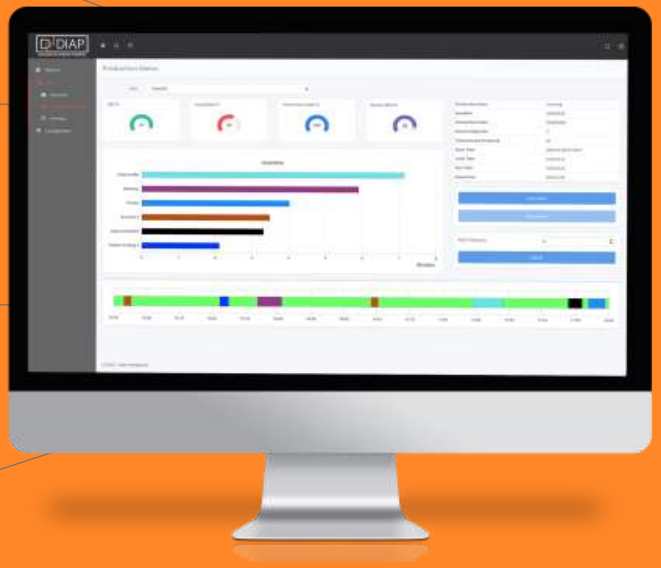


CHALLENGES

- Machine stops
- Product quality
- Downtime
- Performance
- Maintenance
- Visibility in manufacturing

HARDWARE

SOFTWARE



CHALLENGES

- Machine stops
- Product quality
- Downtime
- Performance
- Maintenance
- Visibility in Manufacturing

DIAP

OUTPUT

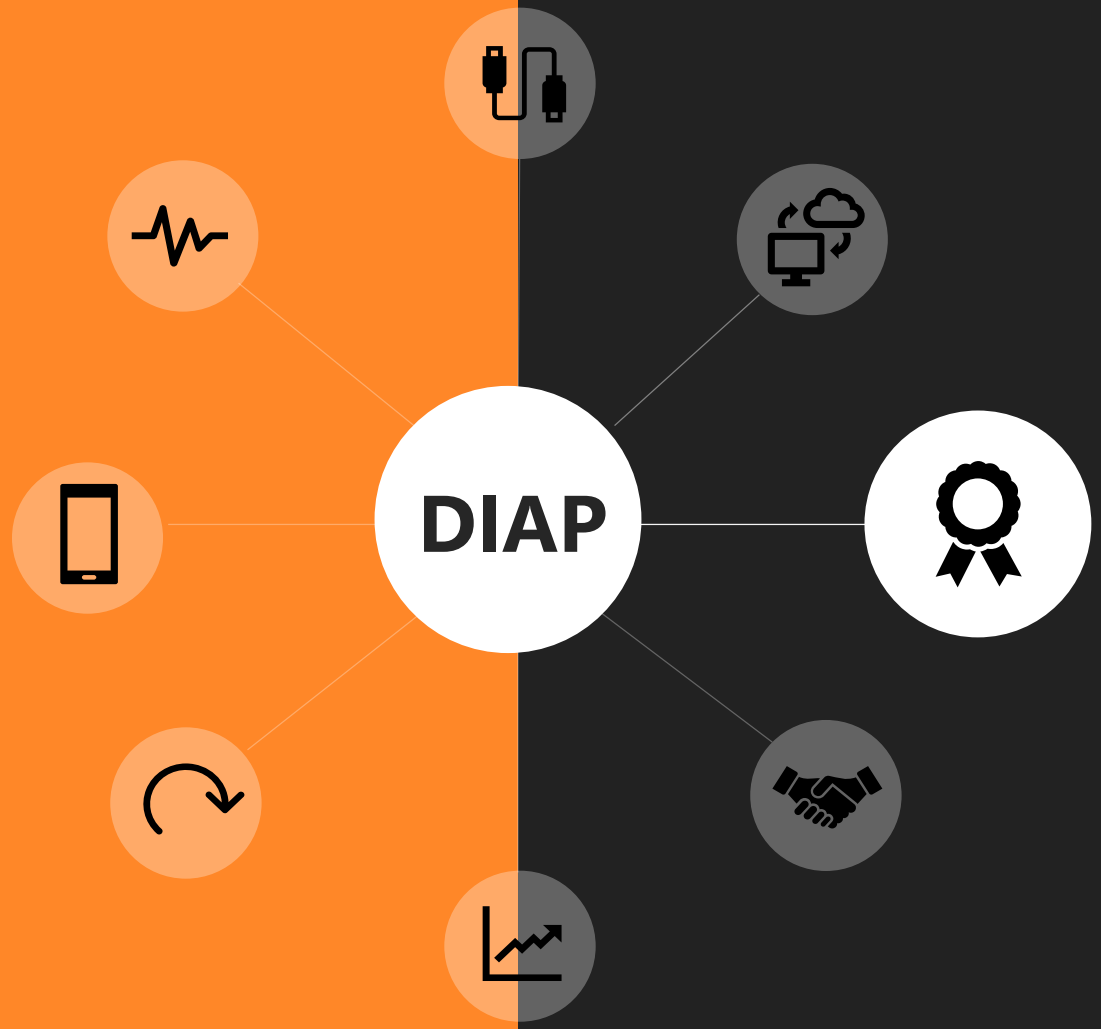
- **30 % less stops**
- **Improved product quality**
- **Output increased by 10 %**
- **Better bottom line**
- **Reduced costs**
- **Live machine data**

SAFETY FIRST

Safety is a top priority, and therefore DIAP is equipped with multilevel information security to ensure **state-of-the-art protection**. The data belongs to our customers, and it will stay theirs.

PREFERRED CHOICE

The product is thoroughly tested, again and again, and this high reliability was one of the reasons why companies like **Danfoss, Siemens** and **Novozymes** has chosen DIAP.



EXCEPTIONAL SERVICE

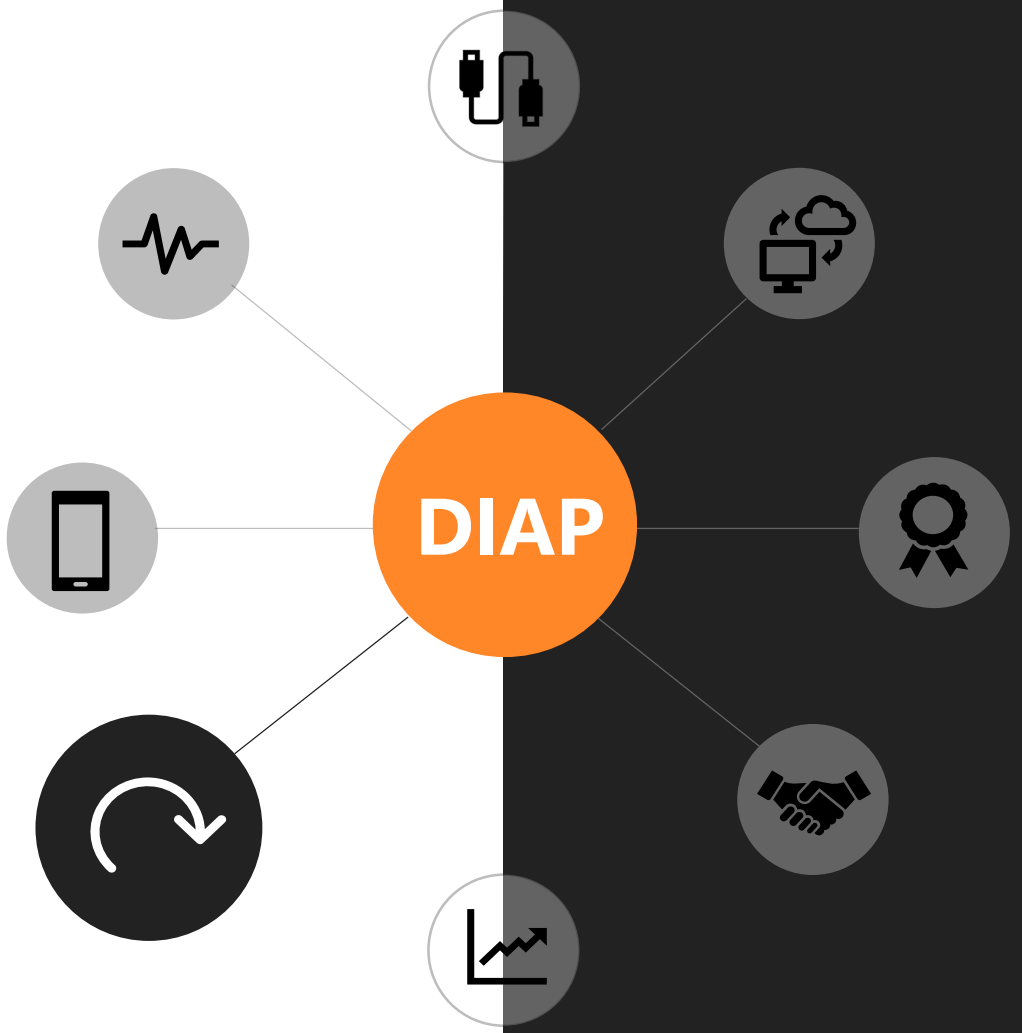
When a company choses DIAP, it gets more than just a product: If you have any questions or experience any problems, we react immediately. Furthermore, we are very focused on our customers' feedback, always open for improving things in order to **meet your demands**.

SHOW IT, DON'T TELL IT

We know that DIAP will speak for itself, which is why we always offer customers to try it before they buy it. In no time you will see how it can optimize your production, giving you **fast return on investment**.

ENDLESS POSSIBILITIES

DIAP offers a **future-proof solution** for the visionary customers who want to accelerate their journey towards Industry 4.0: Step by step we allow you to add new features and functionalities in order to make your production setup even smarter and more competitive.

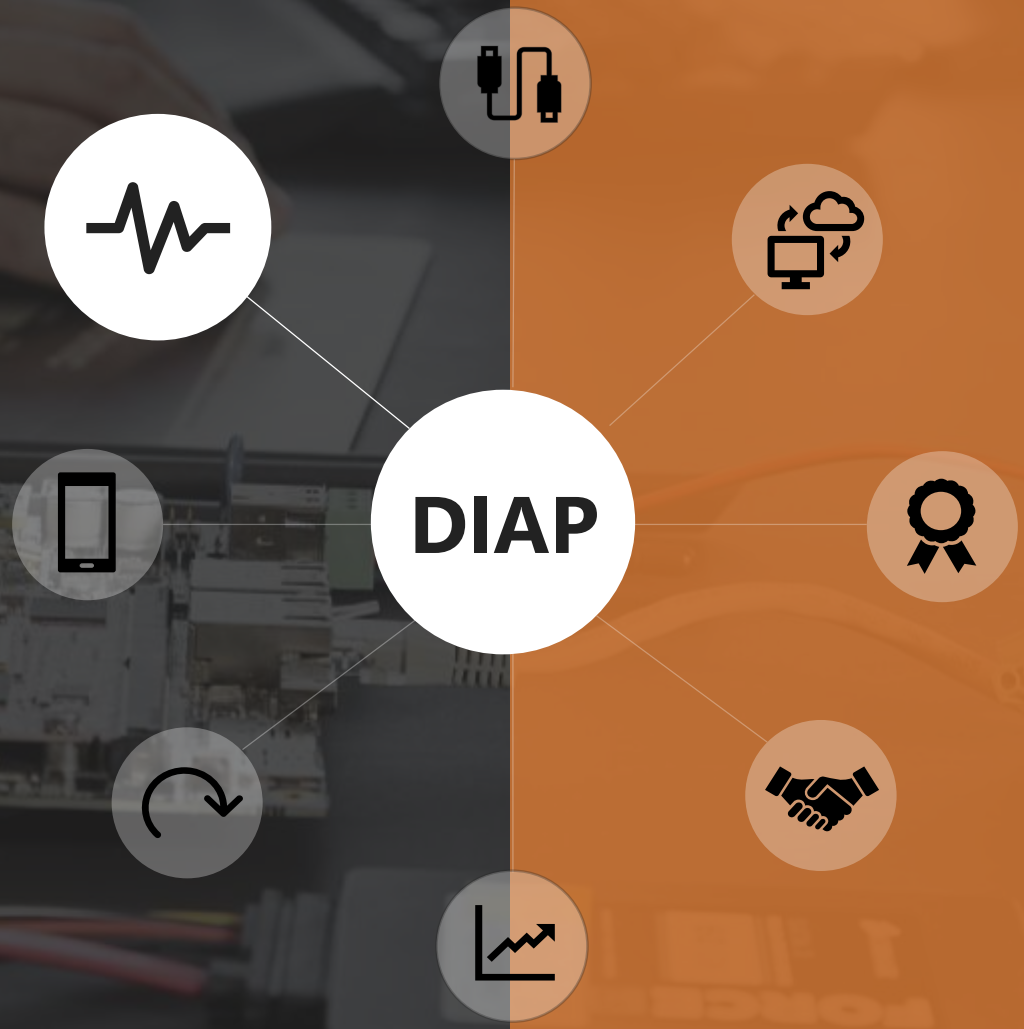


EASE-OF-USE

A **plug ‘n’ play solution** makes it exceptionally easy to install, and thanks to the user-friendly interface it is almost as easy to use as a smartphone.

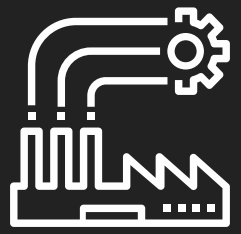
ALWAYS UP TO DATE

DIAP is one of the best tools when it comes to collecting and analysing your valuable production data. In order to ensure that your product keeps this leading position we are **constantly developing new features** and updates based on your feedback and needs – automatically delivered to you.



DISCOVER THE HIDDEN POTENTIAL

Across industries



Industrial Manufacturing

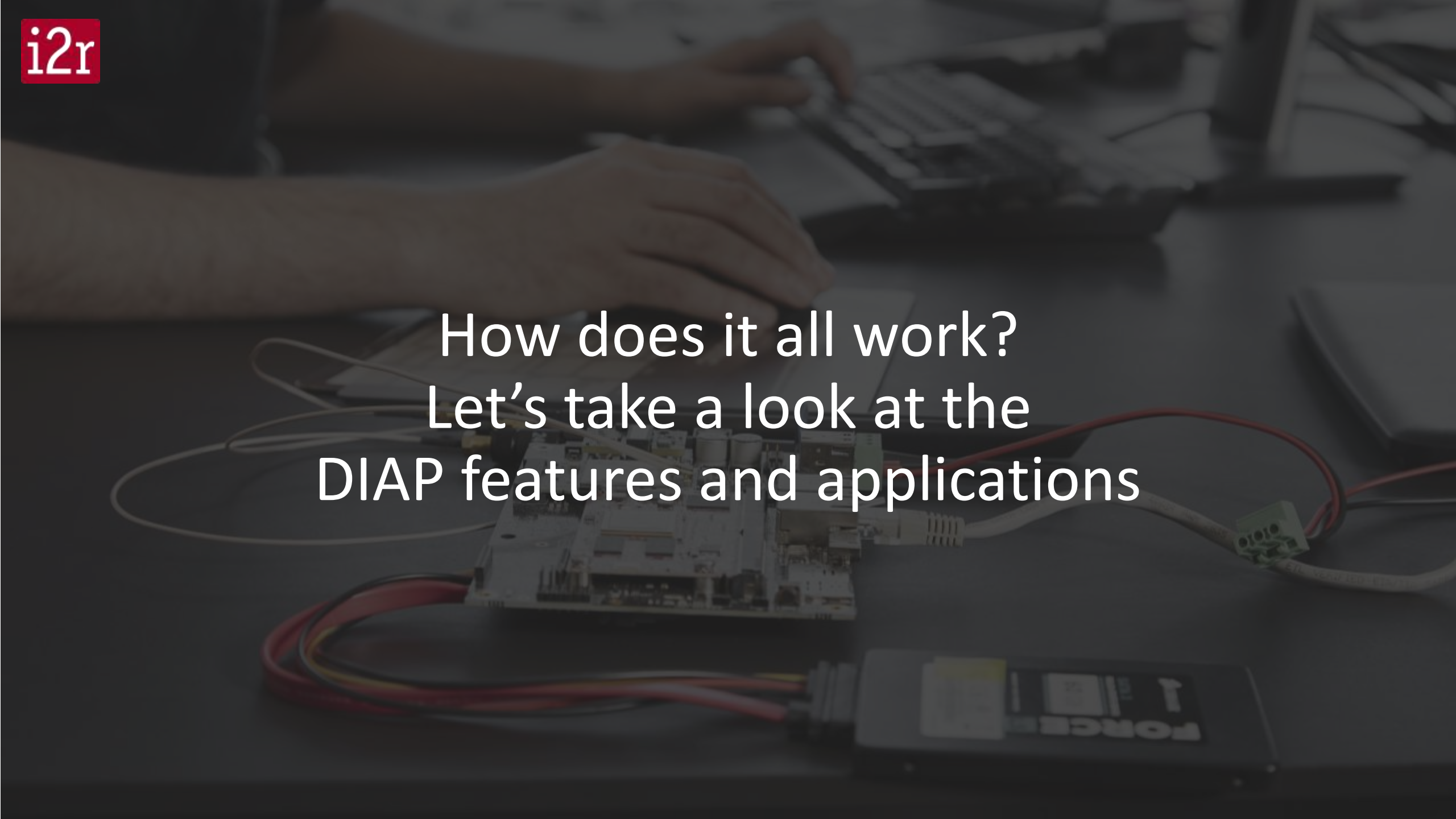
Food & beverage production

Pharma Production

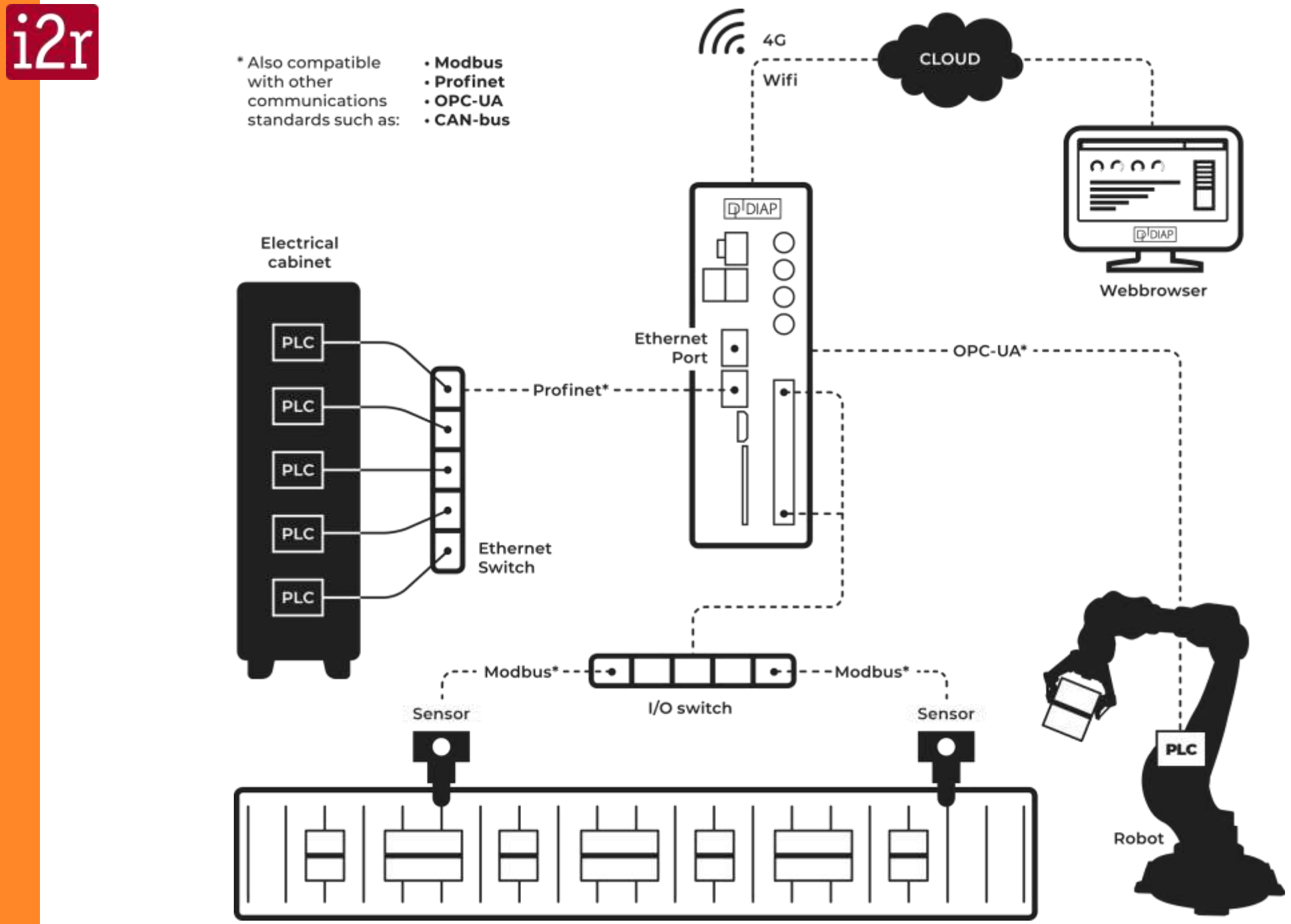
Automotive Production

EMS Production

GPV REFERENCE CASE

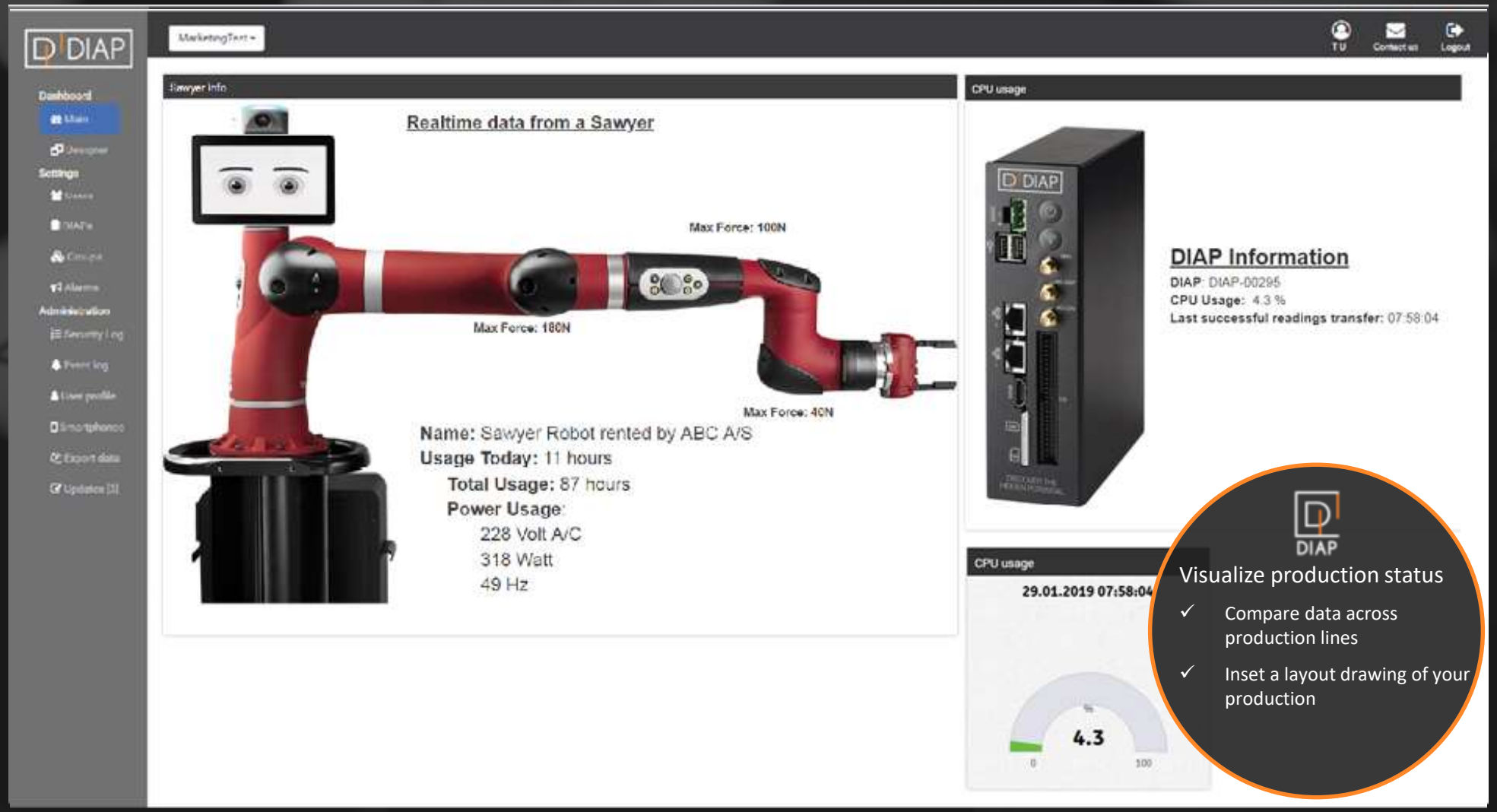


How does it all work?
Let’s take a look at the DIAP features and applications


* Also compatible with other communications standards such as:
• Modbus
• Profinet
• OPC-UA
• CAN-bus
4G
Wifi
CLOUD
DIAP
Webbrowser
Electrical cabinet
PLC
PLC
PLC
PLC
PLC
Ethernet Port
Profinet*
OPC-UA*
Ethernet Switch
Modbus*
Modbus*
I/O switch
Sensor
Sensor
PLC
Robot

i2r
DIAP
REAL-TIME
DIAP
OEE
DIAP
PREDICITVE MAINTENANCE
DIAP
REMOTE ACCESS
DIAP
ARTIFICIAL INTELLIGENCE
2020
CLOUD
DIAP APPLICATIONS
CLOUD STORAGE
DATA COLLECTION

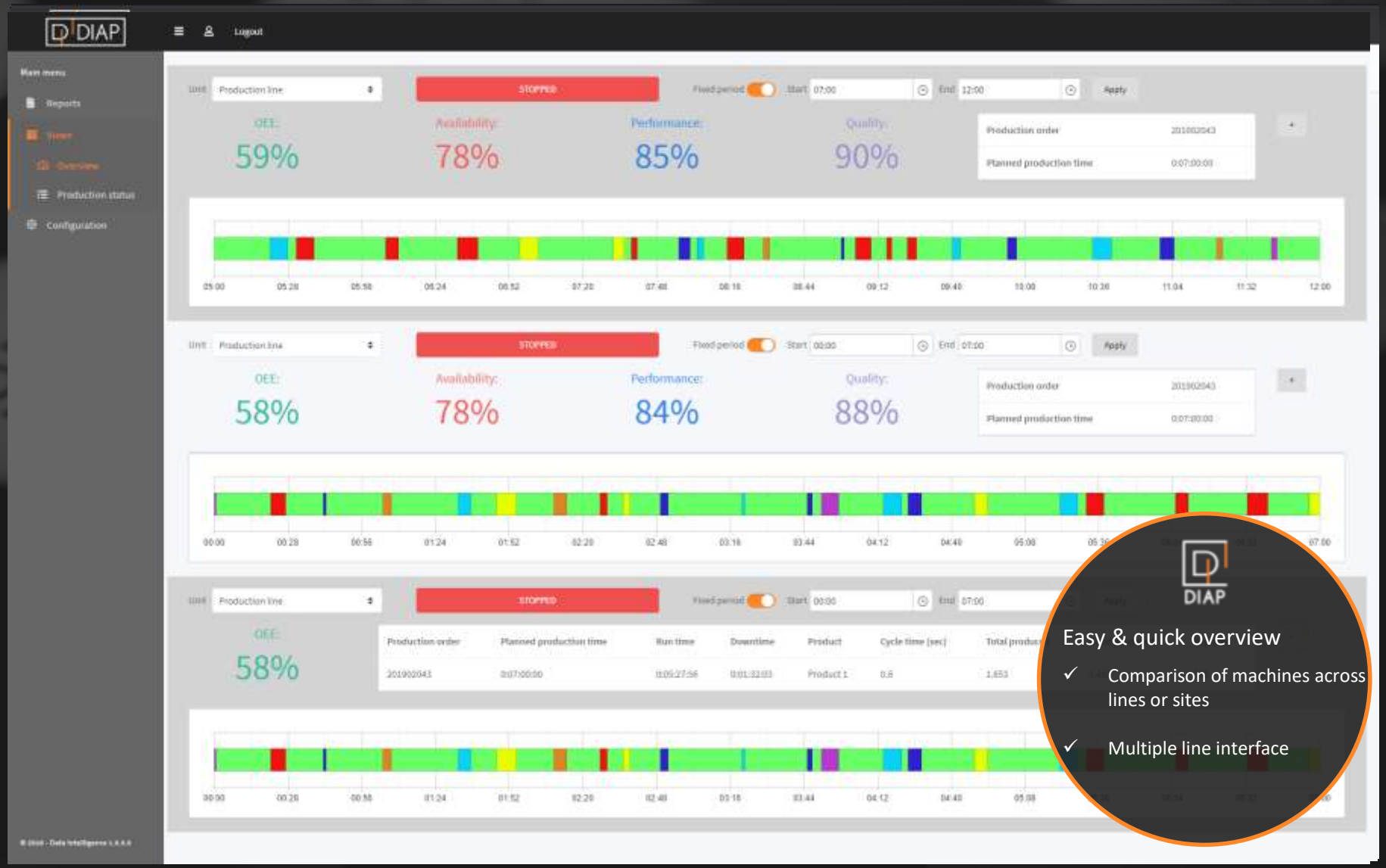
REAL-TIME DATA



DIAP

OEE

OEE


DIAP
Logout
Main menu
Reports
Overview
Production status
Configuration
Unit
Production line
STOPPED
Fixed period
Start
End
Apply
OEE:
59%
Availability:
78%
Performance:
85%
Quality:
90%
Production order
Planned production time
OEE:
58%
Availability:
78%
Performance:
84%
Quality:
88%
Production order
Planned production time
OEE:
58%
Production order
Planned production time
Run time
Downtime
Product
Cycle time (sec)
Product 1
Easy & quick overview
✓ Comparison of machines across lines or sites
✓ Multiple line interface

PREDICTIVE MAINTENANCE

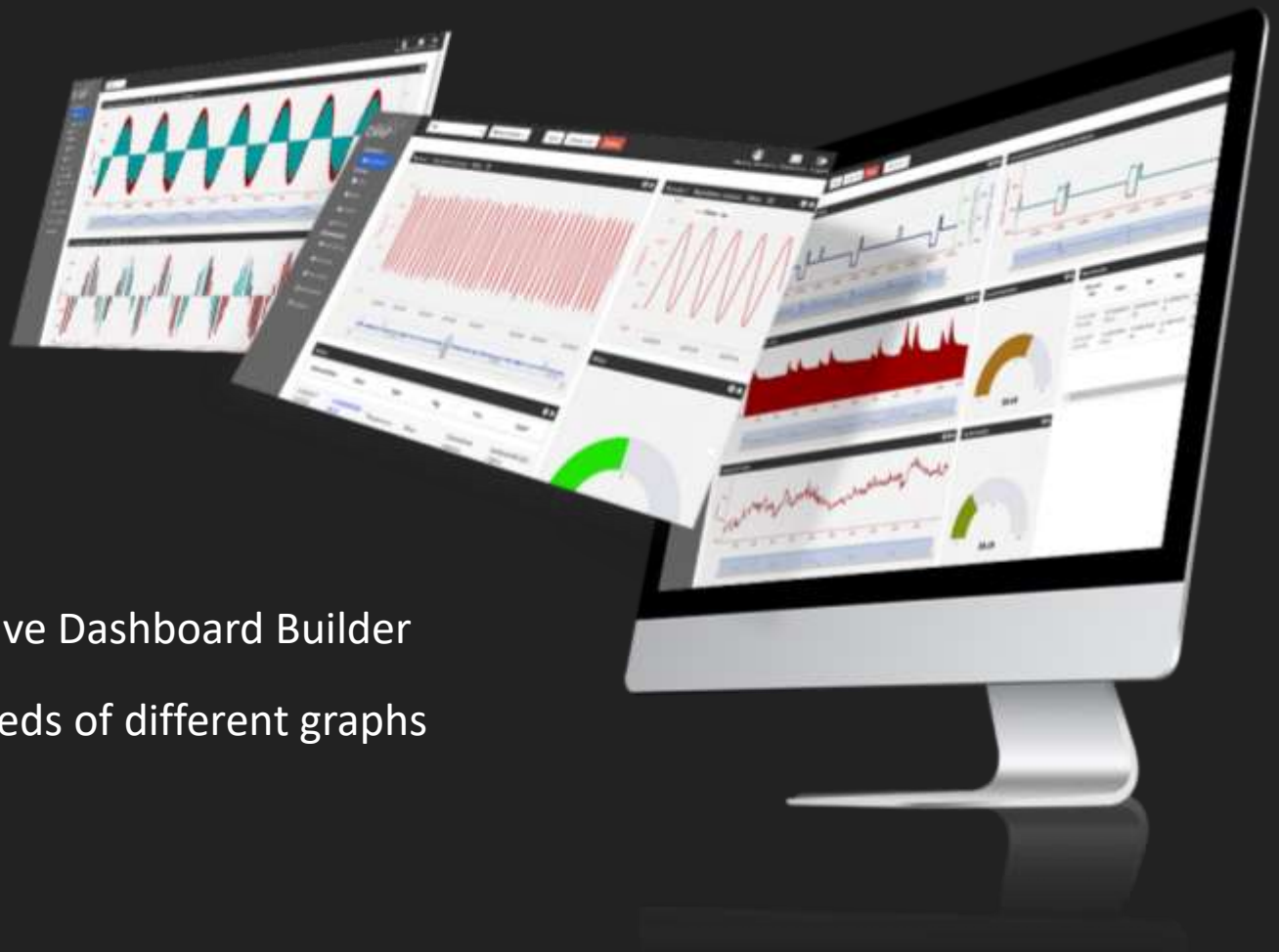
DIAP
PREDICITVE MAINTENANCE

DIAP

Maintenance threshold for failure prevention

- ✓ Calculates and visualizes a maintenance threshold
- ✓ Predict maintenance and avoid unplanned downtime
- ✓ Set alarms if action is required

USER-SPECIFIC INTERFACES



- ✓ Intuitive Dashboard Builder
- ✓ Hundreds of different graphs

INDIVIDUALIZED DASHBOARD

- **Plant Management**
  Production rate • Quality • OEE • Energy Usage • Incident Rate
- **Production Manager**
  Historical Reporting • Real-time Status • OEE • Process Capacity
- **Operator**
  Planned and Unplanned Stops • Uptime and Downtime • Alarm Notifications

DISCOVER YOUR HIDDEN POTENTIAL

By partnering with i2r A/S DIAP

Next step?

Cornelius Olesen

Business development, Sales and Marketing

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