

INDUSTRY 4.0 @ BOSCH

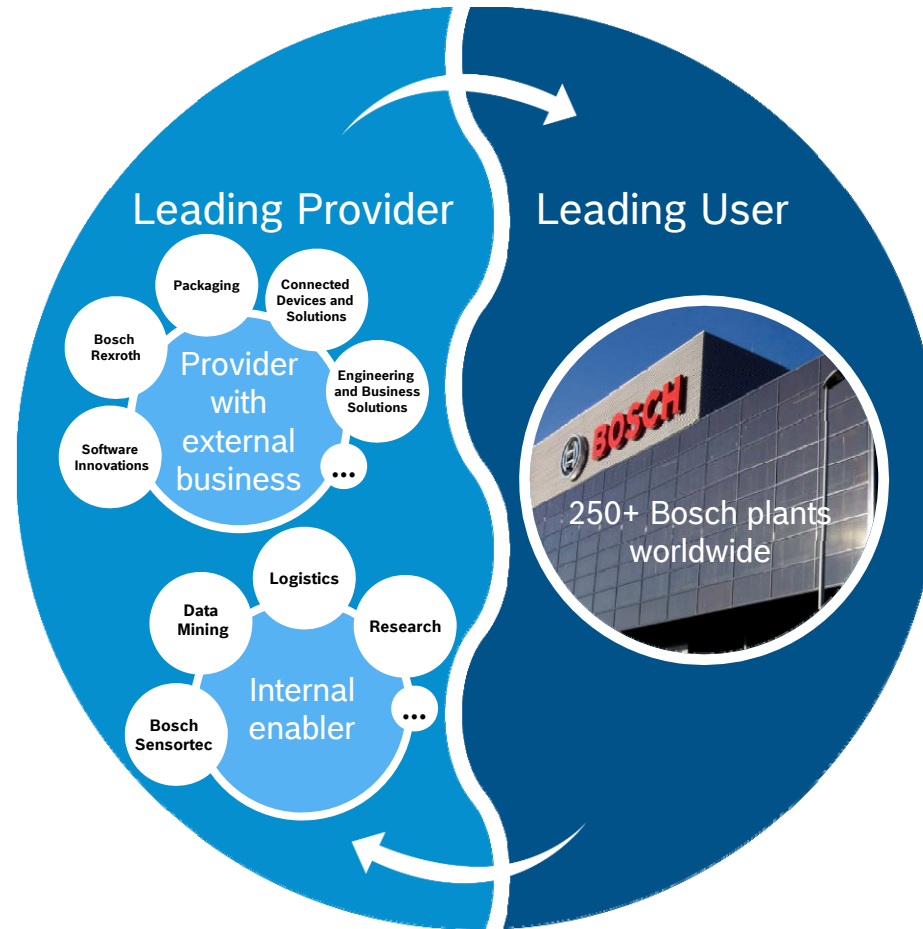
Dr. Bruno Fazzari

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Bosch Group



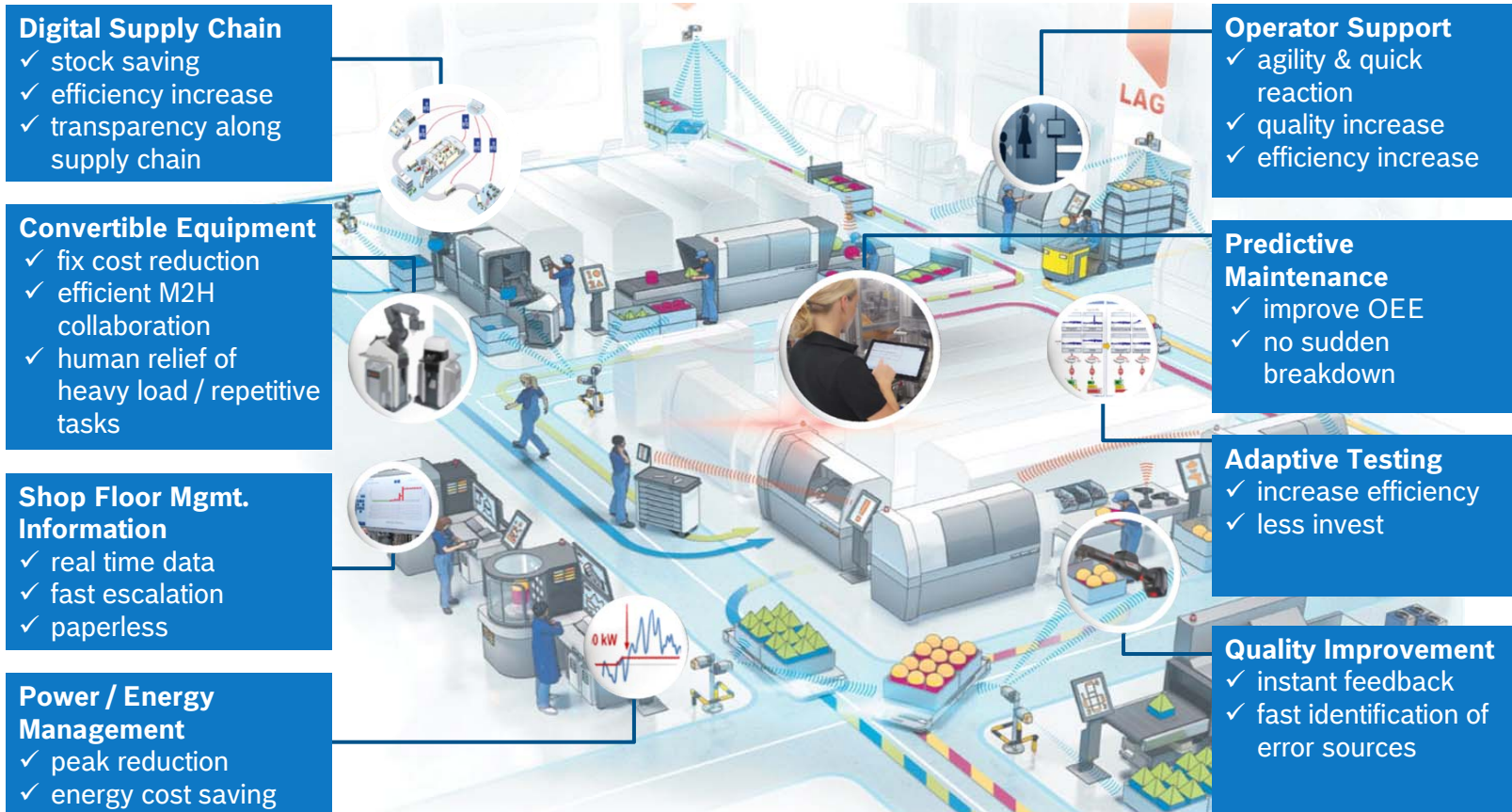
Industry 4.0 live at Bosch

Dual strategy for Connected Industry



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i4.0 use cases and benefits– examples



Industry 4.0 live at Bosch Logistics with RFID



30%
reduction of stock
in processes

10%
efficiency increase
in processes



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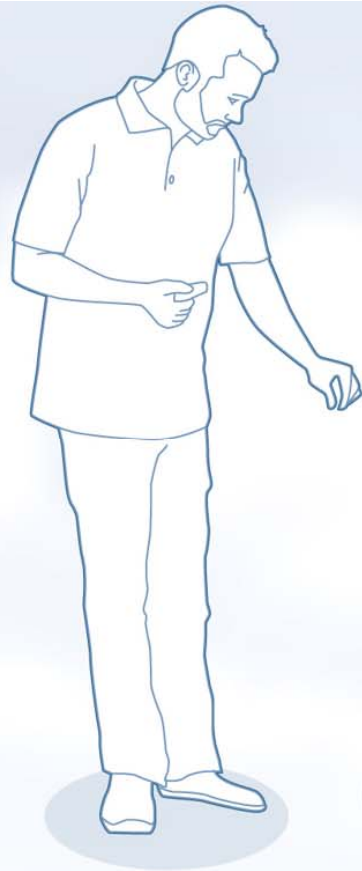
Production quality: Smart tightening



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Flexible Automation - APAS assistant

- Flexible
- Mobile
- Collaborative
- Connected



Direct and safe collaboration
Sensorskin

Autonomous recognition of objects
Integrated 3D image processing system

Configuration instead of programming
User interface

Sensitive three-finger-gripper
Universal gripper

Workspace monitoring
Additional feature
APAS speed switch

Location-independent
Quick release castors

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Shopfloor Transparency – Active Cockpit

Interactive info
&
communication
platform



Up to 60'
saved per
day

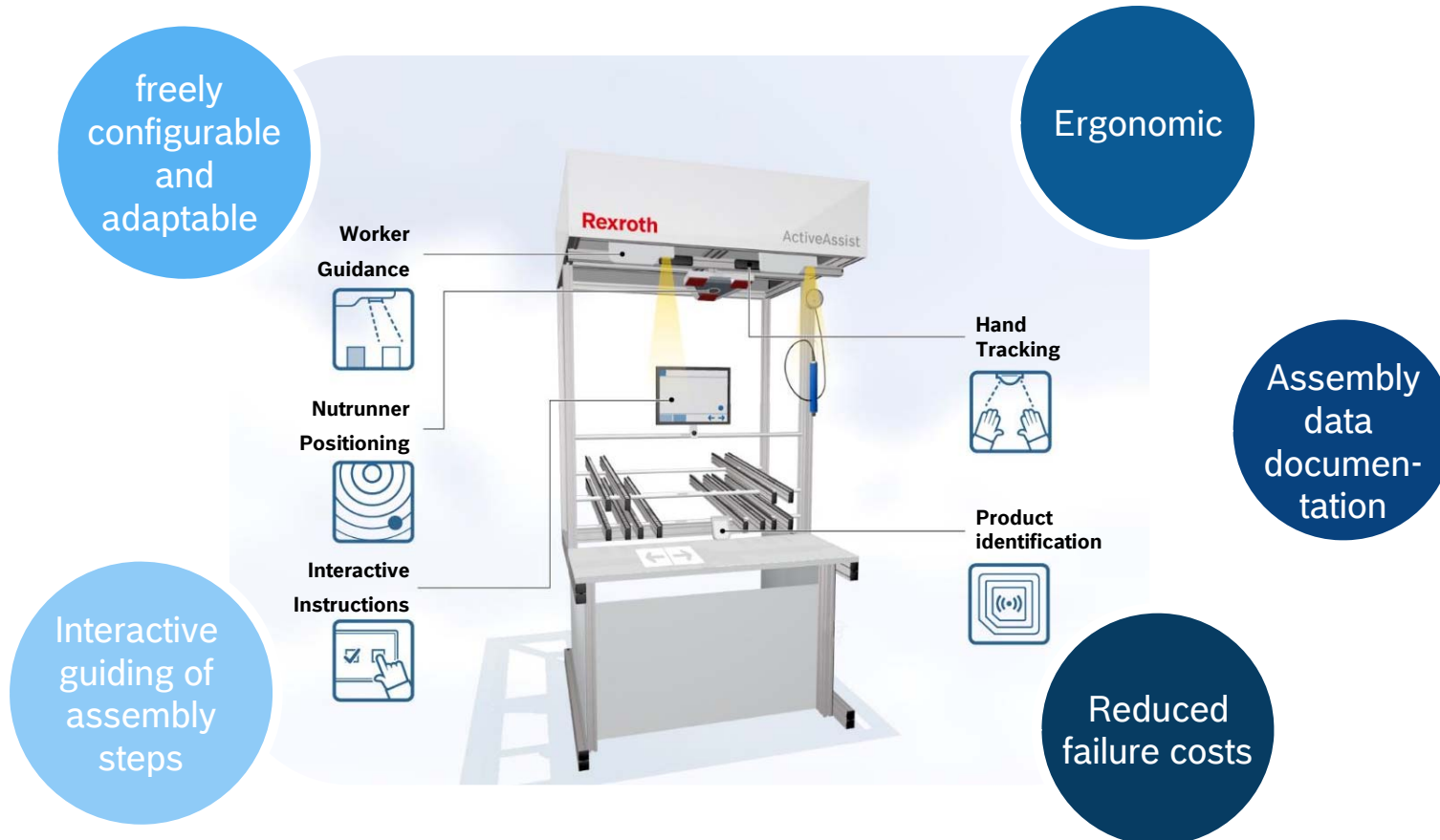
Live data for
Morning Round
(Notes,
mailing,escalation)

Data
collection
from different
sources
(SAP,MES,
SQL,Office)

Fully
customized
by java
widgets

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Active Assist Industry 4.0 Workplace

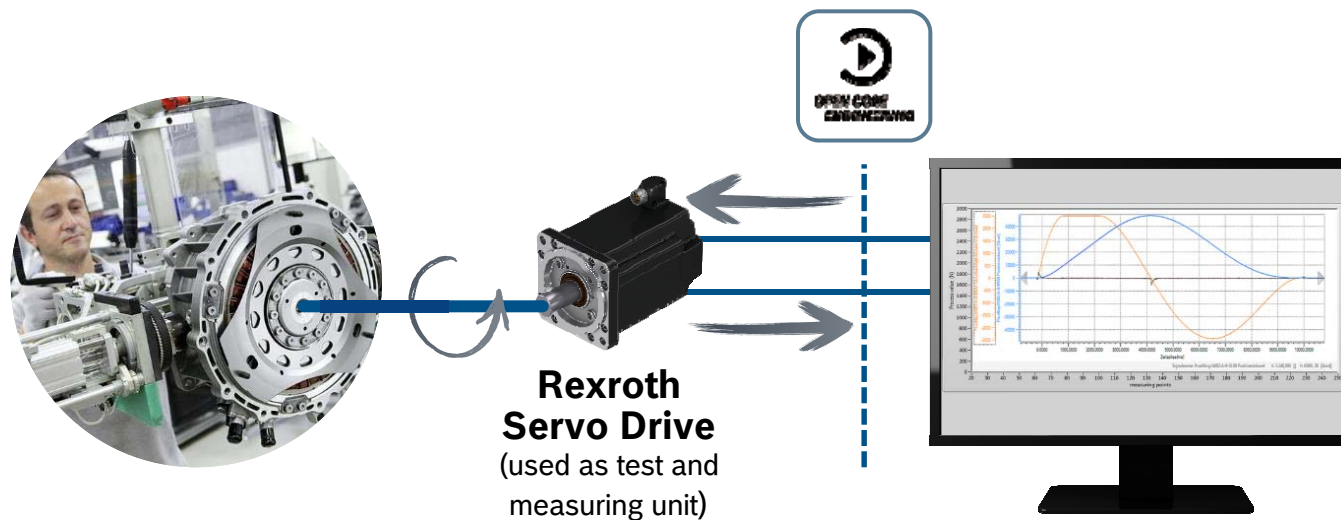


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Open Core Engineering

New freedom in engineering

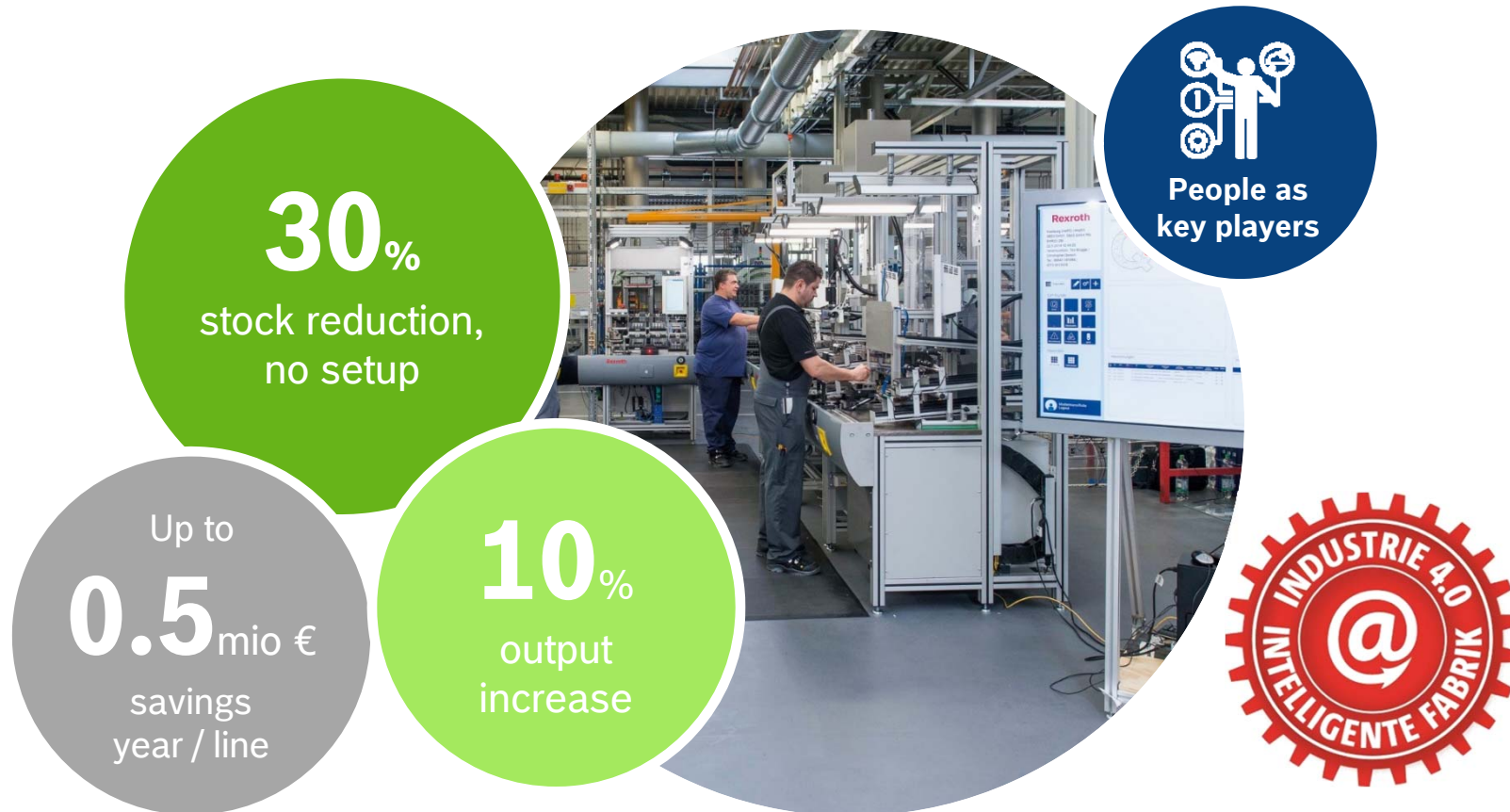
The revolutionary new approach to software engineering that enables unprecedented customization, speed, efficiency and automation intelligence. Open software interface for direct function access to control core.



Open Core Engineering facilitates the networking in Connected Industry production

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i4.0 in an entire line – example Homburg



THANK YOU FOR YOUR ATTENTION!

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