

AGENDA

- 1 Port Solutions in 2017
- 2 Demand drivers
- 3 Port automation
- 4 Software
- 5 Port Service

- MHPS acquisition from Port Solutions' perspective
- 7 Summary and conclusion

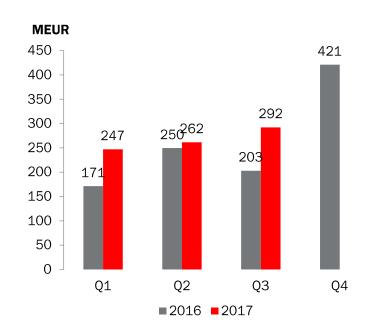




© 2017 Konecranes. All rights reserved.

ORDER INTAKE AND PROFITABILITY HAVE IMPROVED IN 2017

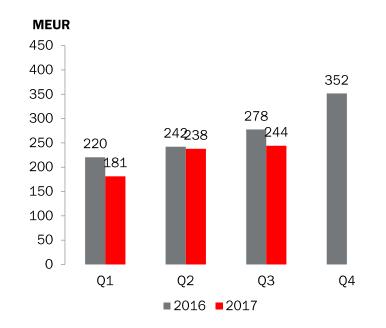
Comparable order intake



Orders received EUR800.9m (624.1), increase of 28.3 percent in 1-9/2017

Orders grew in all regions and for the most of products and services

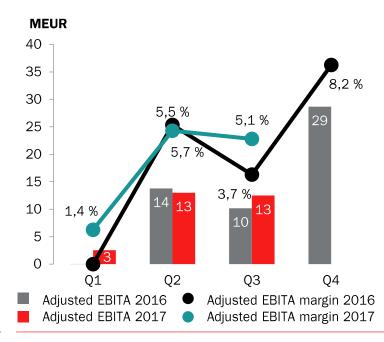
Comparable sales



Sales fell by 10.4 percent to EUR663.2m (739.9) in 1-9/2017

The decrease related to the timing of deliveries and exceptionally high sales of certain products in the comparison period

Comparable adjusted EBITA



The adj. EBITA was EUR28.1m (24.0) and the adj. EBITA margin 4.2 percent (3.2)

Profitability supported by cost-saving measures and improved delivery execution



MANAGEMENT AGENDA IN 2017

Year of integration

Securing topline from Day 1 after the completion of the MHPS acquisition

Realizing synergies **End-to-end** profitability in businesses

BRANDING

Single brand

KONECRANES®

Product names:

KONECRANES°

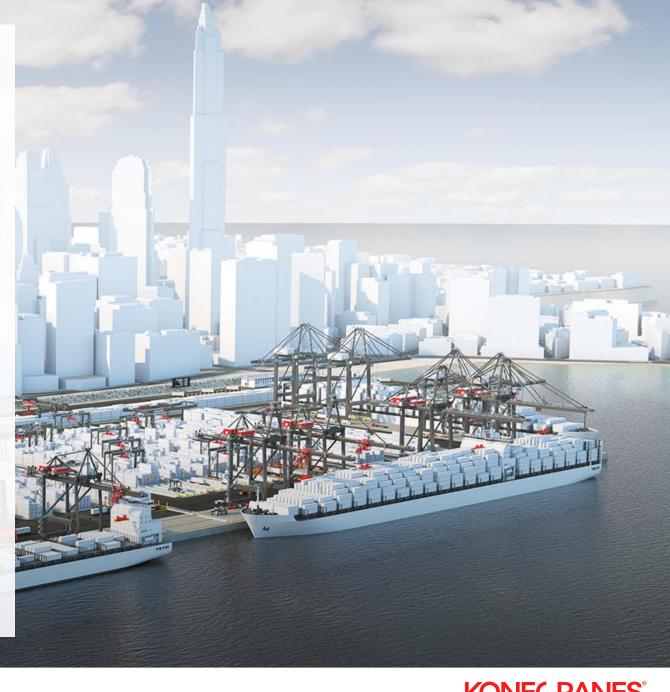
KONECRANES°

KONECRANES°

KONECRANES°

GOTTWALD NOELL LIFTACE

© 2017 Konecranes. All rights reserved.





STRONG MARKET POSITION WITH LEADING OFFERING















#1

AGV System

#2

ASC (ARMG) System **#2-3**

Lifttrucks

#2

Mobile Harbor Cranes

#2

RTG cranes and #1 with

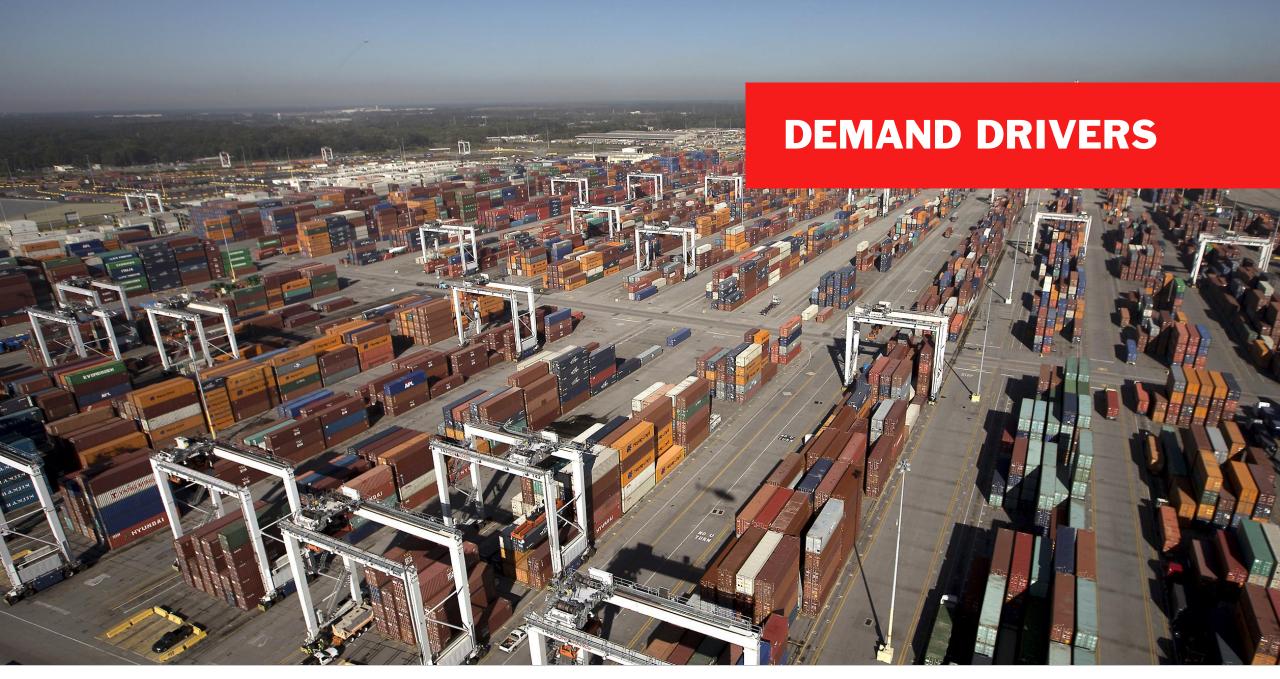
Automated RTG systems

#1-2

Straddle Carriers

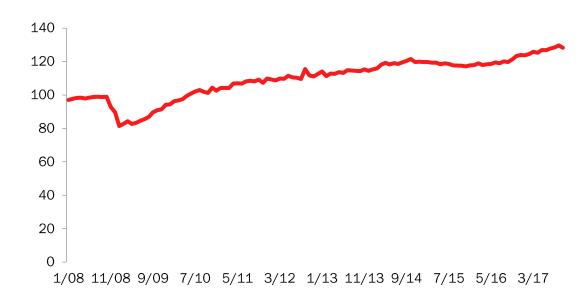
#1

Container terminal simulation and consultation



CONTAINER THROUGHPUT

RWI/ISL Container Throughput Index

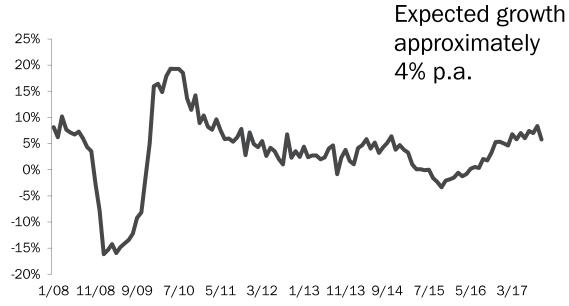


Container volumes from Asia to East Coast North America have been particularly strong year to date, as the widening of the Panama Canal has supported traffic above expectations

Volumes in Asia have Volumes in Asia have rebounded on most of the trade routes after two weak years

© 2017 Konecranes. All rights reserved.





Volumes in the Mediterranean ports have clearly increased thanks to the improved economic growth in Southern Europe

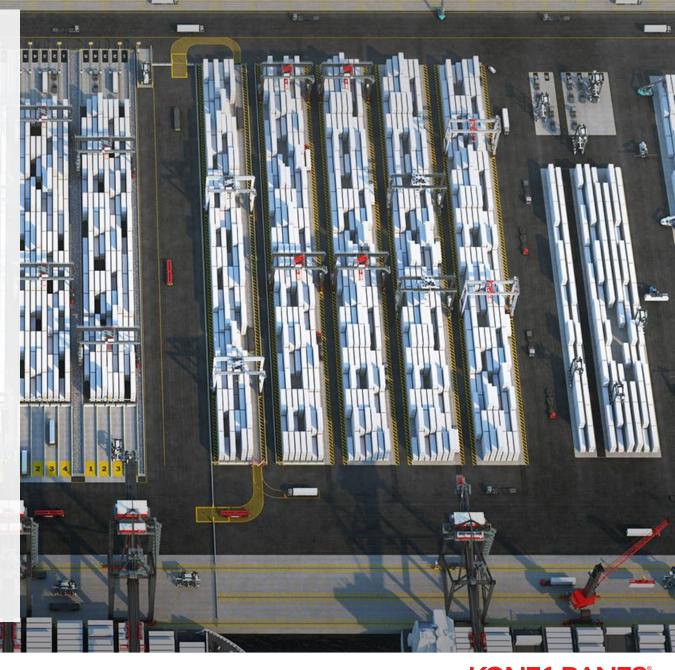
Container traffic in the Middle East has suffered from low oil prices and tensions in the region



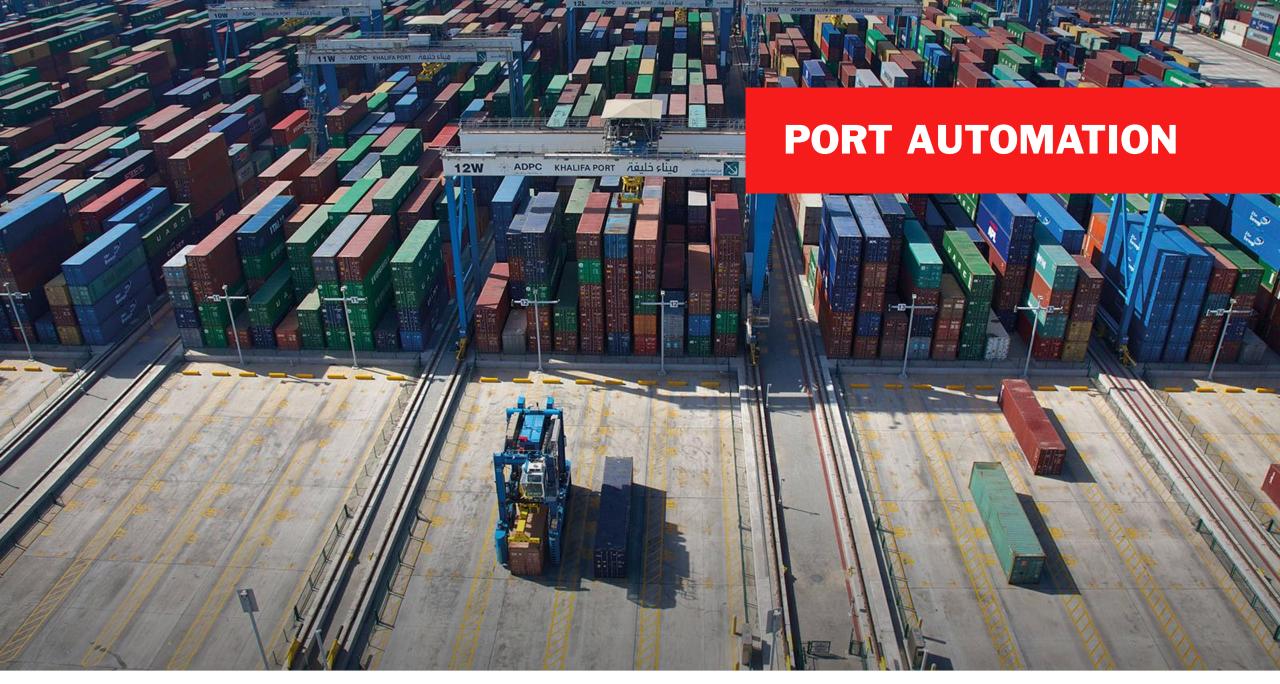
DRIVERS FOR FUTURE INVESTMENTS

- Traffic growth
- Replacement of assets
- Pressure to handle larger vessels
- Automation
- Environmental requirements
- Better use of existing assets
 (automation and upgrades, software tools)

Consolidation of container terminal operators may have negative effect







© 2017 Konecranes. All rights reserved.



DRIVERS FOR PORT AUTOMATION

Automation is a megatrend

- Improved safety
- Improved predictability
- Higher eco-efficiency
- Lower emissions (including noise)
- Higher storage efficiency
- Better asset utilization
- Cost reduction

OUR OFFERING FOR TERMINAL EVOLUTION

CONSULTING

- Terminal design (simulation)
- Terminal conversion
- Implementation support (emulation)

EQUIPMENT

- STS cranes
- MHC Mobile Harbor Cranes
- RTG, ASC, RMG cranes
- Horizontal transport
- Lift Trucks
- Automation growth path included

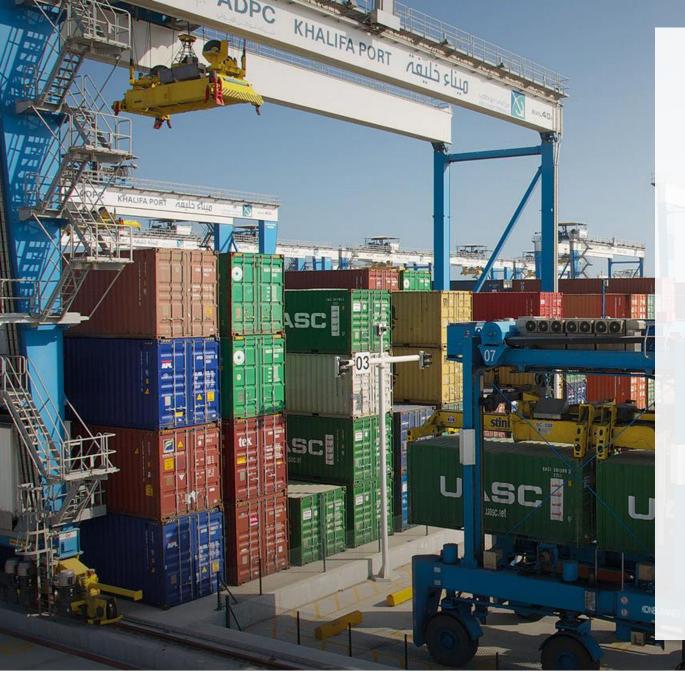
SOFTWARE

- Terminal Operating System (TOS)
- Equipment Control System (ECS)
- Equipment control
- Remote operations
- Access control
- IT maintenance and support

SERVICES

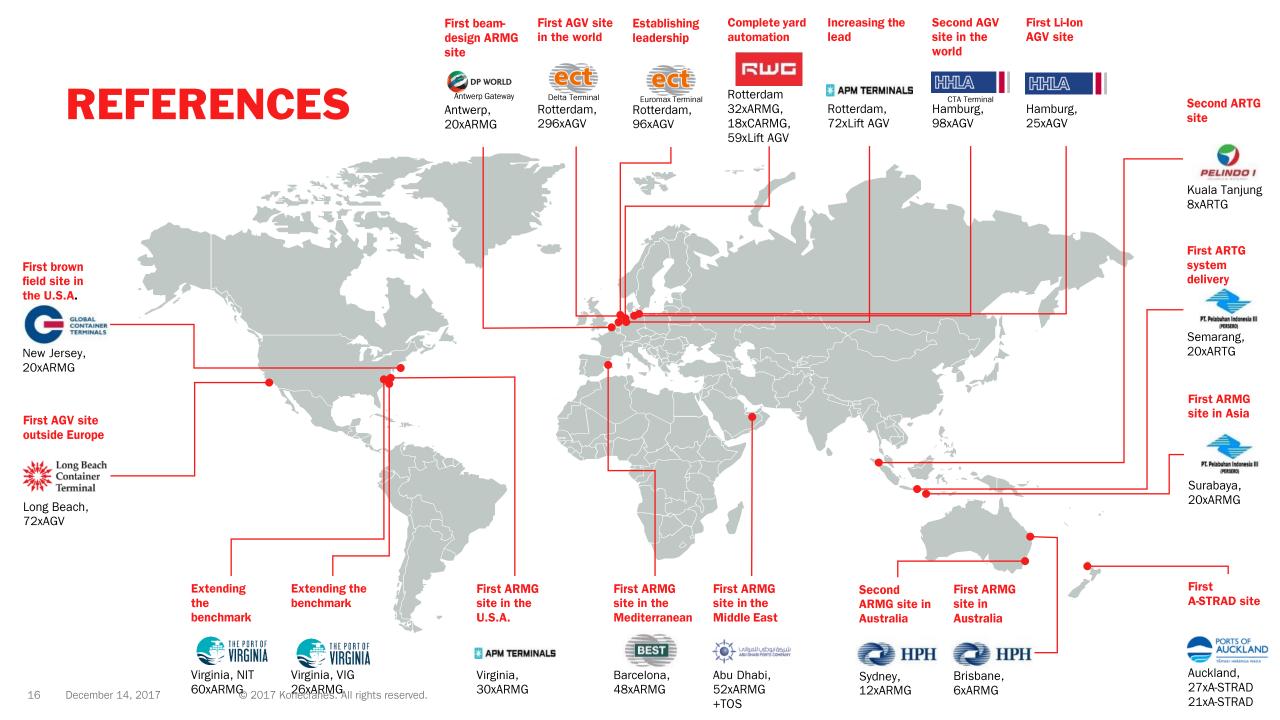
- Field service and spare parts
- Retrofit and upgrades
- Digital services, e.g. remote monitoring of equipment and operating data (telematics)
- Optimisation support (performance improvement)
- Consulting





KONECRANES POSITIONING IN PORT AUTOMATION

- TOS agnostic, open interfaces
- Optimization on ECS / Equipment level
- Konecranes automation systems: combining Konecranes and MHPS legacy systems
- Onboard automation Machine-to-Machine (M2M) communication
- Preparation for mixed manual & automated equipment operations
- TRUCONNECT® and service concepts



BROWNFIELD AUTOMATION WILL DRIVE FUTURE INVESTMENTS

Greenfield projects

Moderate growth expected

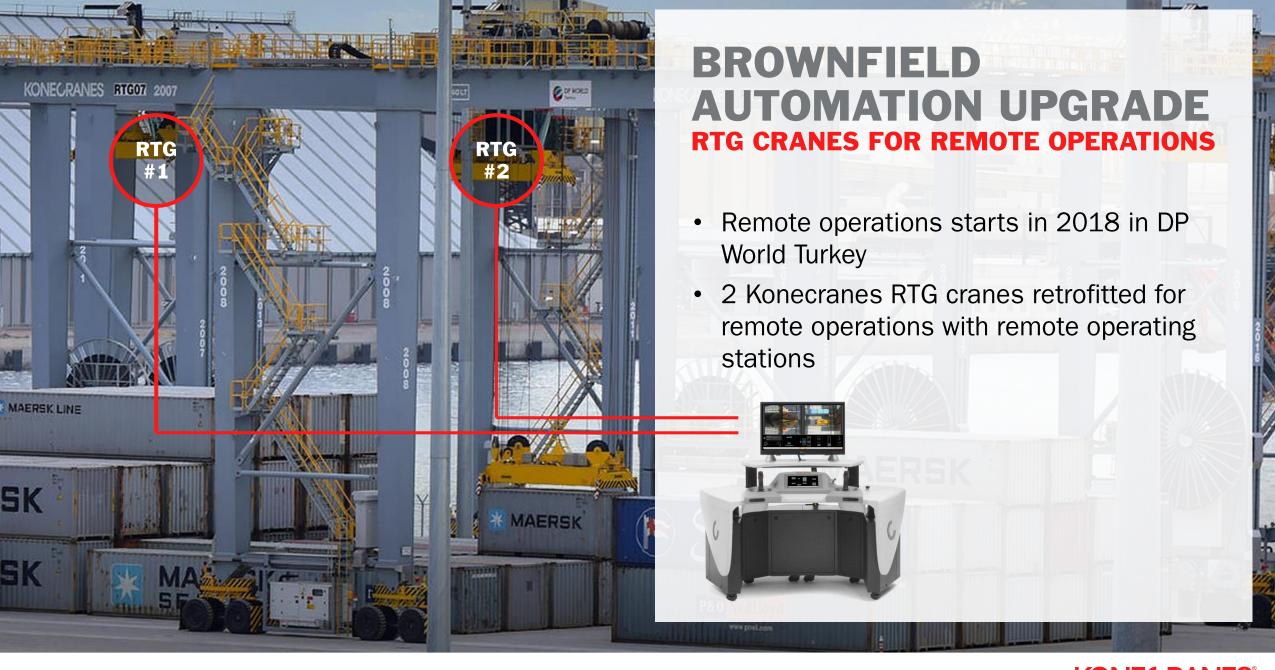


Brownfield projects

Strong growth potential









A-STRAD COMING UP

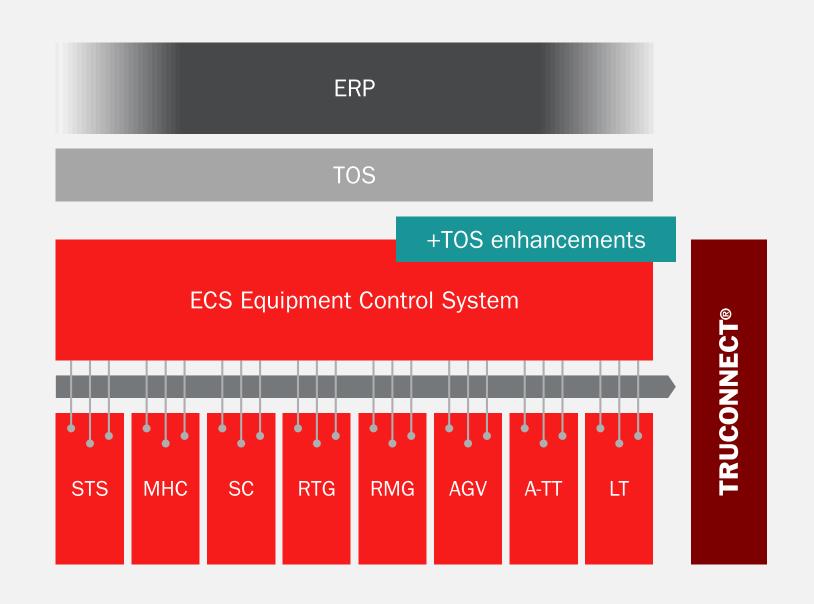
INDUSTRY 1ST LARGE SCALE BROWN-FIELD INVESTMENT IN STRADDLE CARRIER AUTOMATION

- Operations starts in 2019 Auckland, New Zealand
- 27 new A-STRADs + 21 retrofitted



PORT SOLUTIONS SOFTWARE OFFERING

- Autostore Terminal Operating System (TOS)
- Open interface approach
- ECS, modular software packages with equipment deliveries
- Increasingly more software embedded in each product (Smart Features)
- TRUCONNECT® and data gathering
- Complete terminal simulation
- TOS emulation



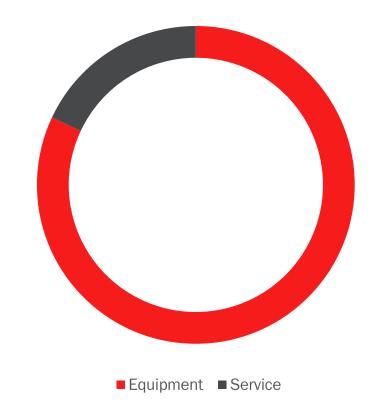




PORT SERVICE GROWTH STRATEGY

- Increase in Konecranes installed base
- Konecranes global service footprint supported by TRUCONNECT® remote service
- Konecranes Service approach
- Brown field automation, retrofit for all makes of equipment
- Performance, safety and eco-efficiency enhancements
- Market opening up for maintenance contracts and field service opportunities

Breakdown of sales







BUILDING BLOCKS FOR IMPROVED PERFORMANCE **BASED ON MHPS ACQUISITION**

- Sales growth driven by cross-promotion through global sales network
- New operating model
- Reduction of fixed costs
- Right sizing of manufacturing capacity
 - Lentigione, Italy lift truck manufacturing decided to be closed
- Product platform development
- Growth in software and service businesses

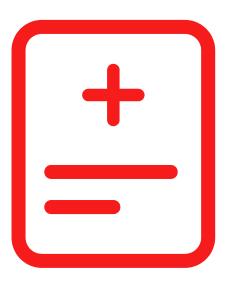






SUMMARY & CONCLUSIONS

- Market supporting growth
- Actions in place to improve profitability
- Automation and especially brown field automation a growing trend
- Software and service growth drivers
- Intergration proceeding well widest and deepest offering





NOT JUST LIFTING THINGS, BUT ENTIRE BUSINESSES