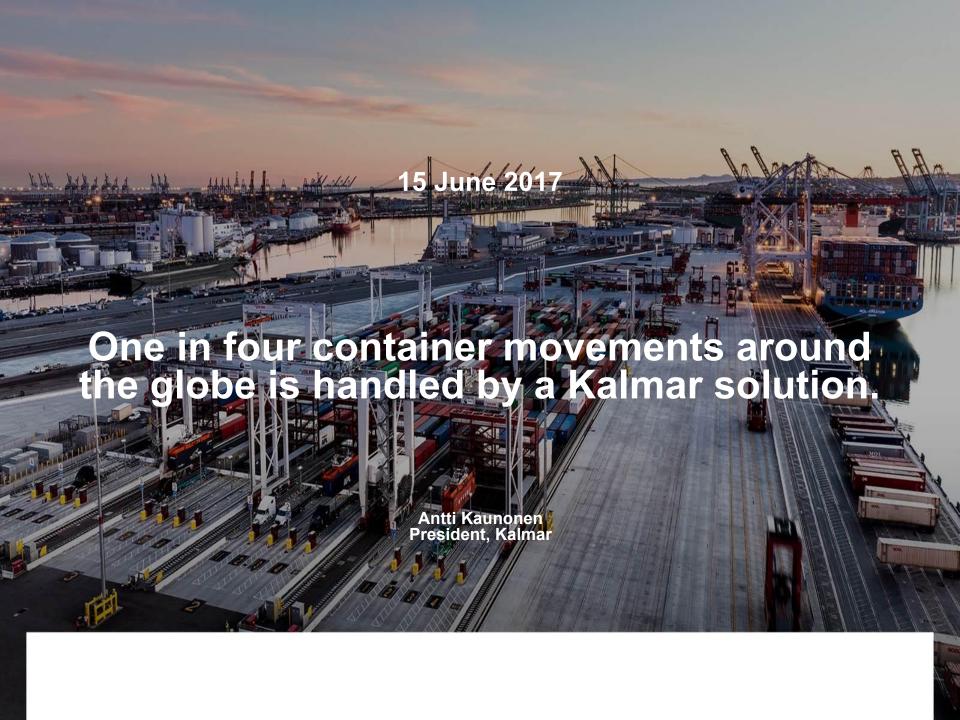
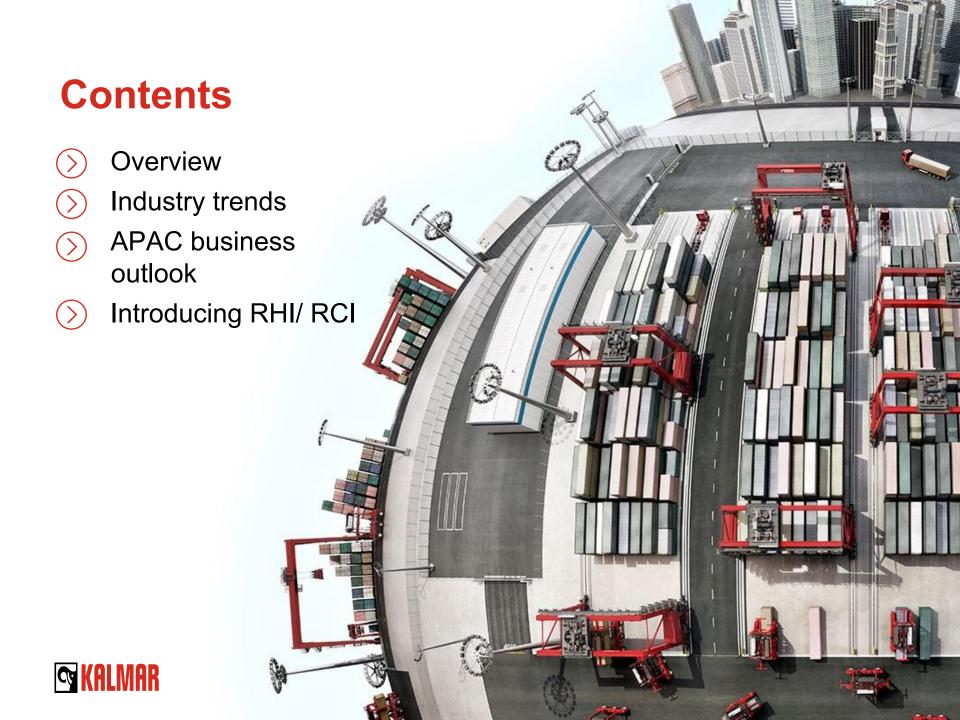
# KALMAR







# A global reach with personnel in 30 countries and sales and service in more than 100 countries.

5,700

Service staff
1,500

Presence
100+
countries

Assembly
Poland
China
USA
India
Malaysia
Sweden



# Kalmar's operating environment



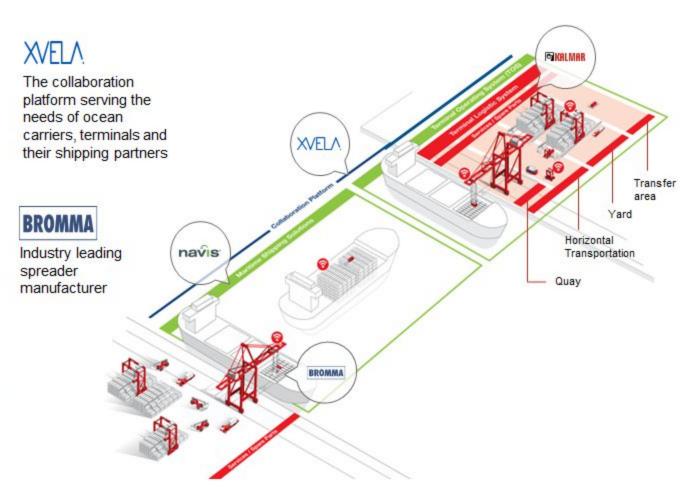
Provides integrated port automation solutions including software, services and a wide range of cargo handling equipment



TOS coordinates and optimises the planning and management of container and equipment moves in complex business environments.

Navis provides also maritime shipping solutions:

- Stowage planning
- Vessel monitoring
- Loading computer
- Route planning





### Kalmar business area solutions







STS cranes



Reachstackers



Empty container handlers



Crane upgrades



Maintenance



Navis TOS



Bromma spreaders



ASCs & RTGs



Straddle & Shuttle carriers



Terminal tractors



Forklift trucks



Spare parts



Used equipment



XVELA collaboration platform



ALP and ALS

Automation & Projects

Mobile Equipment

Services

Navis XVELA

Bromma



# Mega trends



### Mega vessels

Efficiency demands increase as marine transport continues to grow. Larger ships require capacity improvements from port operators.



### Sustainability

Strict emission requirements & growing concern for the environment increase the demand for more intelligent machines with smaller environmental impact.



### Industry consolidation

New alliances between shipping lines are impacting container traffic flows and setting new efficiency standards for port operators.



### Digitalisation & automation

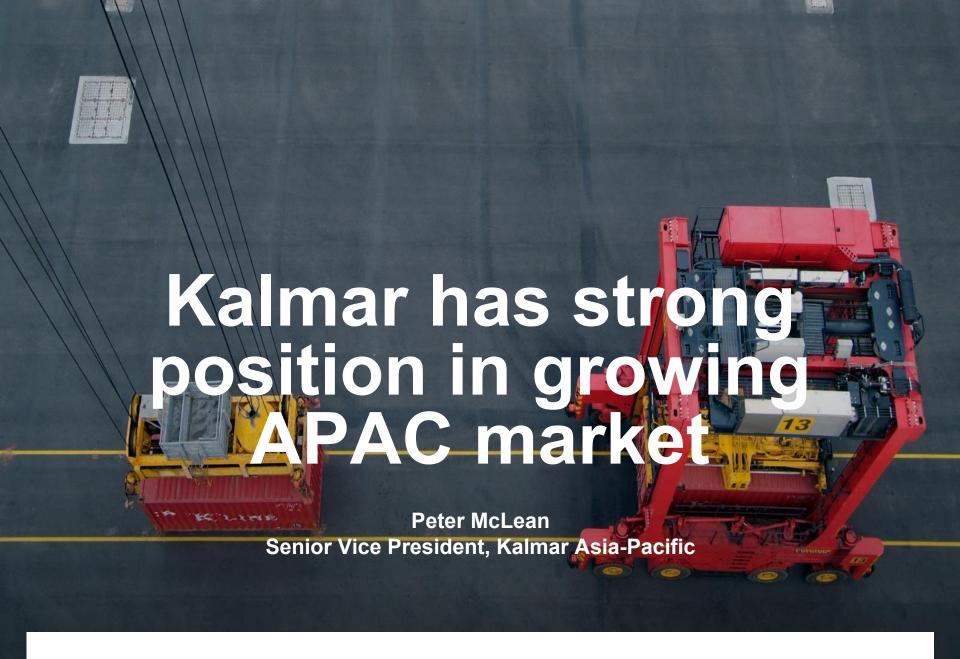
Digital and automated solutions provide new possibilities for port operators to improve efficiency, safety and sustainability.



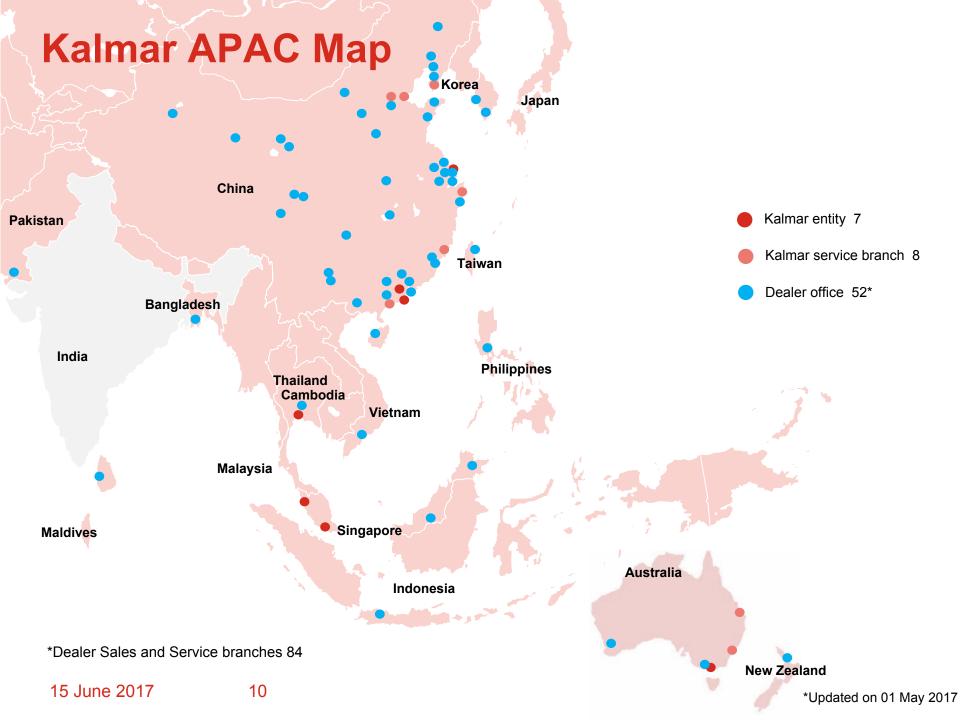
# Kalmar strategy: Focusing on profitable growth





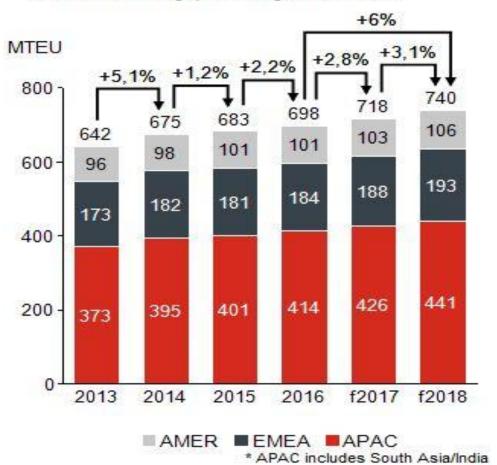






# Container throughput growth accelerating

### Container throughput changes 2013-2018

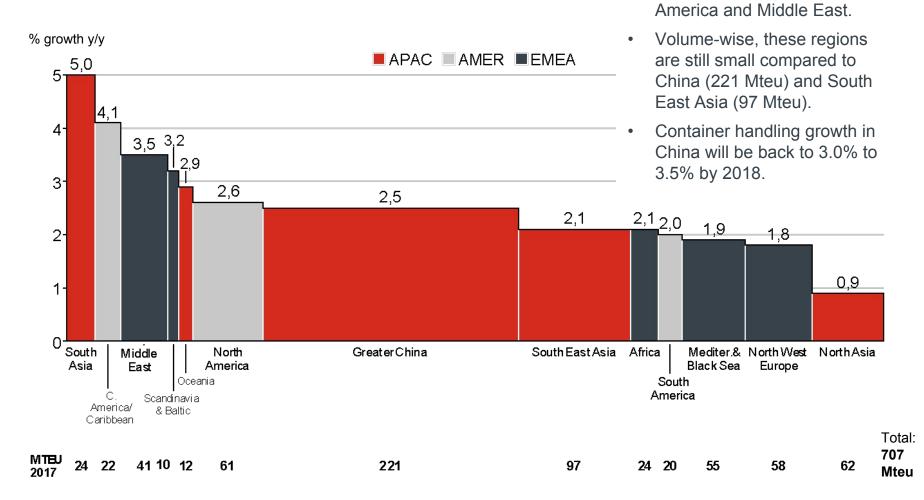


- The industry is picking up.
- APAC remains the dominating cargo house in the global market.
- The growth in Sri Lanka, Myanmar and Indonesia is promising, countries in South Asia are also on track.
- Singapore's container throughput in April increased 7.5% y/y to 2.72 million teu.
- Yantian Port in Shenzhen has potential be enlarged.



<sup>\*</sup>y/y growth, Source: Drewry: Global Container Terminal Operators

# Fastest growing regions vs throughput volumes 2017





The fastest growing regions in 2017 are South Asia. Central

# Market trend and key drivers in APAC

### **Port Operations**

- Driven by logistics demand and world trade – Containerization
- Port Automation: streamline operations planning and improve customer satisfaction
- Investments in greenfield projects in emerging markets
- Trends in upgrades in existing ports

### **Logistics Centers**

- Driven by logistics demand and world trade – E-commerce and Containerization
- Vertical integration: Terminal operators are expected to increase their influence throughout supply chains
- Terminal operators are trying to integrate more terminals in supply chains
- Shipping lines are acquiring container terminal assets worldwide



# Market trend and key drivers in APAC

### **Road & Rail Transportation**

- Driven by industrialization of all Asian countries
- Railway expansion and hinterland development by China and ASEAN countries – OBOR
- PSA leaps into China's intermodal rail network

### **Manufacturing Industries**

- Driven by industrialization of all Asian countries
- Consolidation globally
- Investments in emerging markets/ low cost countries
- Outsourcing of all material handling activities – 3<sup>rd</sup> Party logistics
- Focus on uptime of the machines
- Driver interface / customer application



# **APAC** development



### Win in automation

Focus projects in Australia.
Instill automation thought
leadership across APAC.

# Service growth

Initiatives in place and service culture mindset to develop Ecommerce roll-out by end of 2017.

# Sustain leadership in mobile equipment

APAC market share of reachstackers above target.

### People development

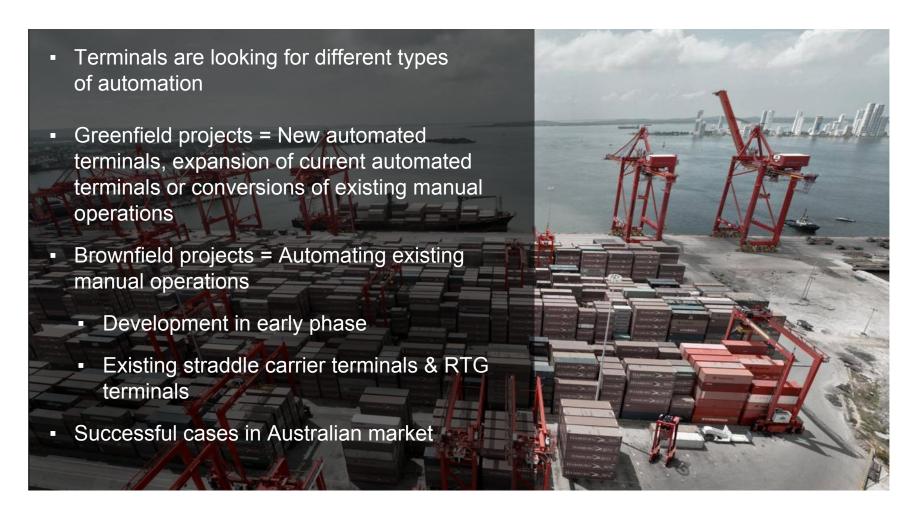
GROW program to be rolled out in APAC to develop leaders of tomorrow.

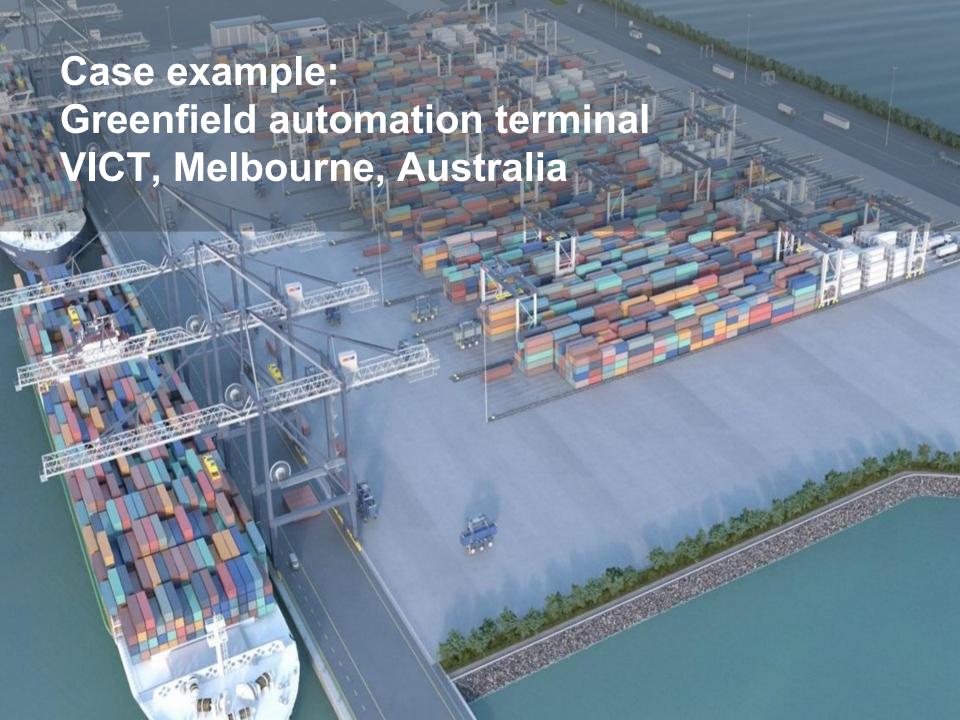






### Success in automation





### **Automation Projects in Australia**

# VICTL Melbourne, Australia (Completed in 2017)

#### **Terminal setup:**

- Greenfield, fully automated
- ASCs and AutoShuttles™
- Phase 1 600.000TEU

#### **Equipment & software**

- 12 Kalmar ASCs
- In Phase 2, 8 ASCs more in delivery
- 11 Kalmar AutoShuttles™
- Kalmar TLS
- Kalmar Automated Truck Handling
- Navis N4 TOS
- System Integration Services

#### Comment

The ability to integrate and link several components into a one seamless process brings true value to the customer. As a system integrator, Kalmar provides a solution, all the way from the TOS, TLS automation, software, equipment, services and consulting to the integration services that bring an automated terminal together.

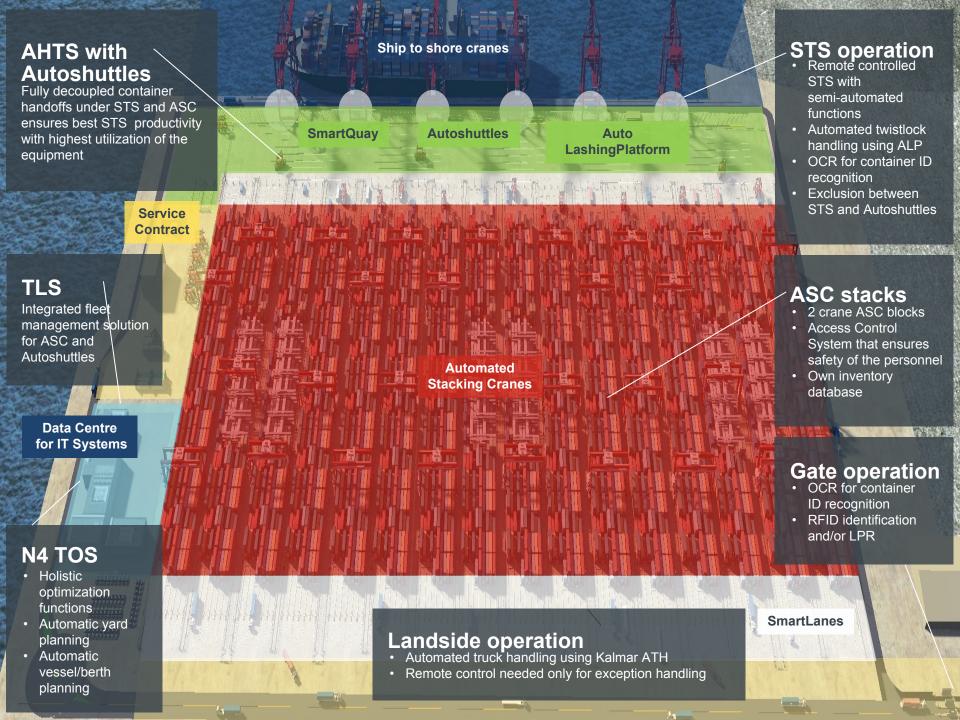


"Through Kalmar, we will be able to leverage their knowledge and experience from similar automation projects throughout the world and get an integrated system comprising the equipment TLS from Kalmar and the terminal TOS from Navis. We believe that this approach to use a key partner for equipment and software services will help us optimise the operational performance for the future."

#### Christian R. Gonzalez

ICTSI head of the Asia-Pacific region





### Anticipated Year 2025 Map Australia/New Zealand Automated Terminals









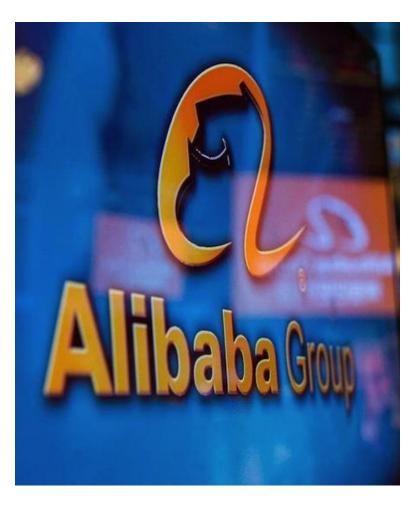


## China Eyes on Logistics Industry Development



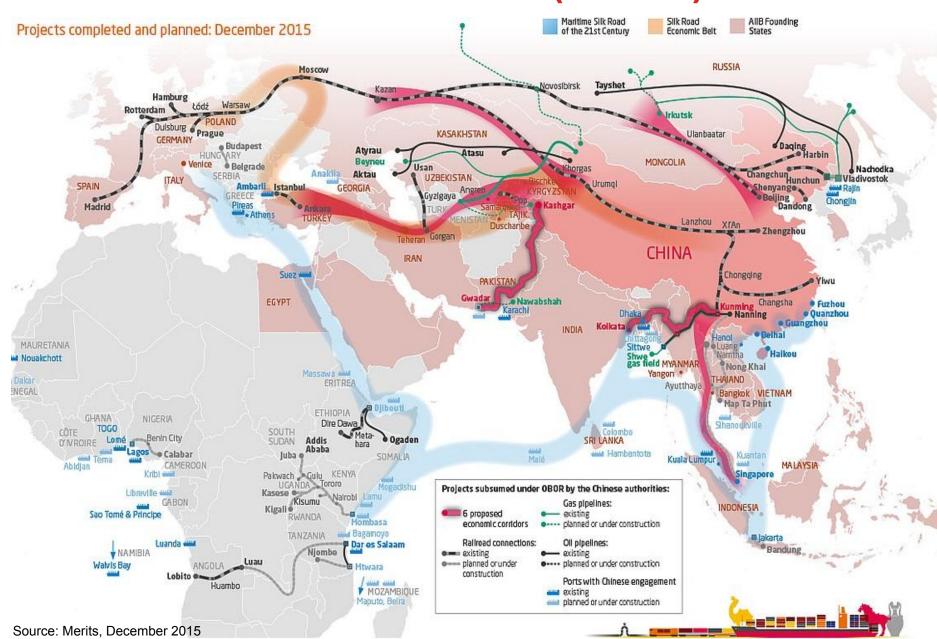
- The logistics industry grew steadily last year amid industrial restructuring
  - The total value of social logistics goods in 2016 expanded by 6.1 percent year-on-year to 229.7 trillion yuan (about \$33.2 trillion)
- China will encourage more logistics development in the next five years to bolster economic growth and deepen supply-side reform
- By 2020, 150 transportation hubs and 3,000-kilometer railway and highway lines connecting with key ports in China

### The Latest Wave of Alibaba



- Alibaba established Cainiao Logistics Company – an asset-light, smart and data-driven logistics network company
- Alibaba and Malaysia will set up a logistics and e-commerce hub in the SE Asia.
- Alibaba concluded a cross-border e-commerce cooperation agreement with the world's largest logistics network, WCA Ltd.
- Alibaba joints hand with KUEHNE+NAGEL (K+N) to offer leading e-commerce logistics solutions to China based shippers.

# China: One Belt-One Road (OBOR) initative



# Kalmar's competitive position in China

- 1. Well established brand
- 2. Leading player in Empty Container Handler and Reachstacker markets
- 3. Strong and extensive agent and distribution network
- 4. Strong and comprehensive service support
- 5. Manufacturing capabilities advantage with Shanghai factory & RCI

# Our winning strategy in China

- Expand sales coverage- develop hybrid model
- Expand service capabilities
- Key account management Regional
- Manufacturing capabilities and support to develop future products
- Intermodal market: opportunities for Reach Stackers



### **Dealer Network**

North East & North China 9 Branch- Beijing, Tianjin, Dalian, Shanghai, Ningbo, Xiamen, Shenzhen, Zhongshan, HK East China Inner Mongolia Zhuangzhong Dalian JIFA Jilin Baisheng Liugong 45Partners South East Dalian Hong Xinda Lanzhou TCM South China Yingkou Shenglong **Dalian Deyulong** Xinjiang Xinyuantong HK Yantai Haotong Shanxi Qiyang Qingdao Wkmar Xi'an Lingli Heilongjiang Henan Zhongcha Kalmar Xi'an Kaifeng **Dealer location** Tianjin Myster Suzhou Hefena Inner Mongolia Zhangjiagang Mudan Xinjiang Shanghai Anhe Shanghai Ruihao Shanghai Degin Hebei Ningxia Shanxi Shanghai HLD Shapdong 8 Qinghai Shanghai Xinjinling Henan Gansu Shaanxi ازمiangs Ningbo Beilunlizhai CS shanghai Tibet Hubei Wuhan Lizhijie Zhejiang Ningbo Sichuan <Chongqing . Shenzhen Creation Chengdu Jinli Toyota Chongqing Gu'ante Hunan, Guizhou Chongqing BND **Hunan Nansheng ★**MJSV Yunnan Guangdong Guangxi Guizhou Yingrunda Chaoshan Area Kunming Jianlong Zhongsh Hoitung Xiamen Golink Kunming Yunjin Xiamen Hua Xiamen Yunshunjie Nanning Gold Honest Hainan Hainan Linrui Anshun Shenzhen Zhihe Shenzhen Guangzhou Guangzhou Guangzhou GuangzhouJo Youxin Shunle Folangsi Duida hn platinum 14 June 2017 28

• 5 BU- North East & North China(NC), East

, Hongkong (HK)

China(EC), South East(SE), South China(SC)

# Our winning strategy in China

- Expand sales coverage- develop hybrid model
- Expand service capabilities
- Key account management Regional
- Manufacturing capabilities and support to develop future products
- Intermodal market: opportunities for Reach Stackers





### Kalmar Manufacturing facility in Shanghai

Cargotec Industries (China) Co. Ltd. (CICL)

- Total land area 50,000m²
- No. of employees 170
- Certificates ISO 9001 | ISO 14001 | OHSAS 18001



# Our winning strategy in China

- Expand sales coverage- develop hybrid model
- Expand service capabilities
- Key account management Regional
- Manufacturing capabilities and support to develop future products
- Intermodal market: Opportunities for Reach Stackers



# KALMAR





### Profession | Innovation | Responsibility | Win-win



### RHI - JIANGSU RAINBOW HEAVY INDUSTRIES CO., LTD.

**Wujian**Chairman of Rainbow Group
General Manager of RCI



### **Company Profile**





RHI is a professional heavy equipment provider.

RHI is located in Nantong and established in 2003.

RHI is listed at SZSE since 2010, stock code "002483".

RHI is the strategic partner of Cargotec in China.





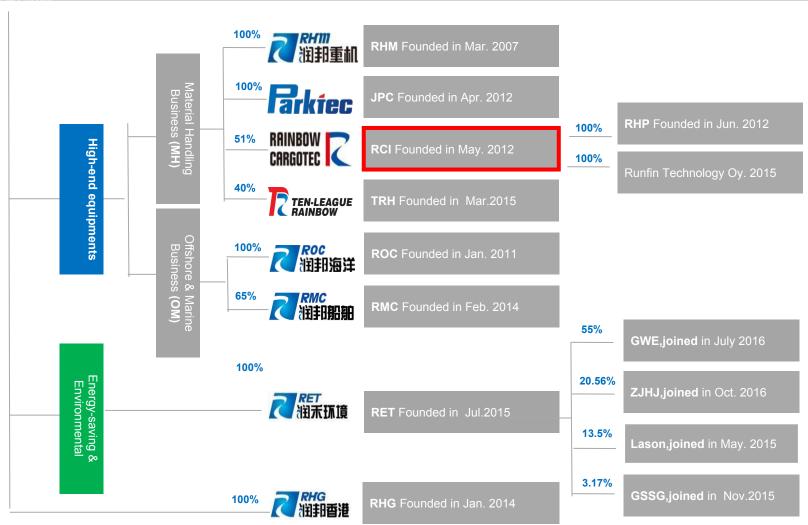




### **Group members**

#### TRHI 油耙股份

Jiangsu Rainbow Heavy Industries Co., Ltd. (RHI) Founded in Sep. 2003



# **Partners**

We have established long-term strategic partnerships with Cargotec Group (Finland), Rio Tinto Group (Spain), Ulstein Group (Norway), IHC Group (Netherlands), AG Group (Indonesia) and other world famous enterprises.

RHI is the strategy partner of Cargotec, which has long term cooperation relations:

- 1. RHI provide the products to Cargotec since 1999;
- 2. RHI/Cargotec built one joint venture(RCI) in 2012.
- 3. Cargotec is one of RHI owners, which holds 7.87% share;





























Rainbow-Cargotec Industries Co. Ltd. (RCI)



We Deliver Success Together



# **Background**





 The company is authorized to produce both Kalmar and GENMA products for international and China markets respectively.







### **Joint Venture**

## **Rainbow contributions**

- Production knowledge
- Access to local labour
- Strategic location
- Access to some local customers
- Chinese brand
- Access to local government

## **Cargotec contributions**

- Technology know-how
- Customer's business knowledge
- Proven routes-to-the-market
- Access to global markets
- Global brands
- Company image and recognition



# Competitive solutions for Chinese and global markets



# **About RCI**



Business period 50 years

Location Taicang, China

Total land area 450mu

Water front 365m

Gross investment 182 MEUR

No. of employees 348 (as of Dec 2016)

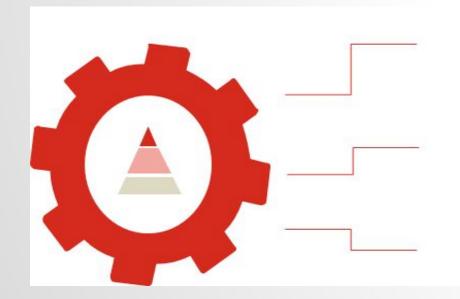
Annual production capacity



RTG	STS	RMG & ASC	AHC
190	36	75	35



# **Targets**



No.1 in RTG by 2018

No. 2 in STS in long term

Enter RMG market in 2017

# 3

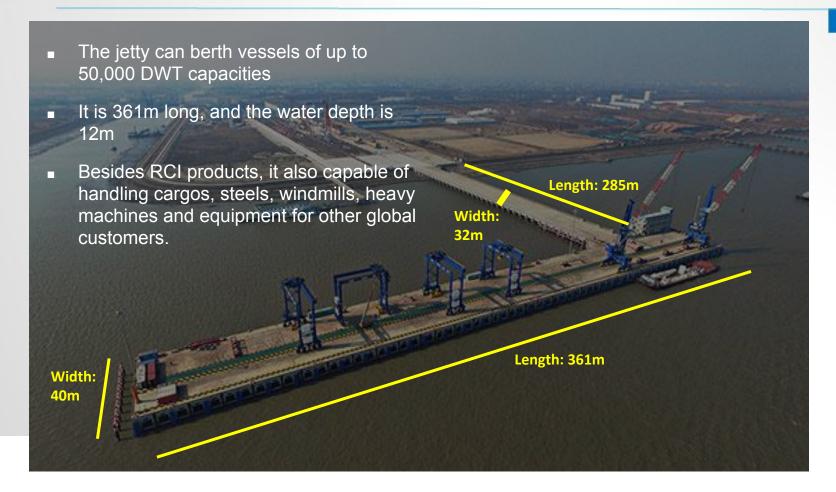
## **Production Facilities**



- Phase I: Workshop and offshore testing foundations occupied about 25% of the total land area
- Phase II: Jetty opened in early 2017
- Phase III: RTG & STS production site will be opened in Aug 2017 (est.)
- Phase IV: ASC & RMG production site construction will be commenced in Sep 2017.



# **Phase II – RHP Jetty**





# Safety is the 1<sup>st</sup> Priority



# **ZERO**Incidents



## **Our Achievements**

- Flat organisational structure; fast decision making
- Shorten the delivery time to 9 months
- All RTG orders (238 in total) handed over to customers on time, and in good quality
- Localised the engineering, production and components sourcing processes which improved the profit a lot
- Zero incidents



# Making your every move count



# **Appendix**



# **Automation Projects in Australia**

# DP World Brisbane, Australia

#### Terminal setup:

- Brownfield conversion from a reachstacker operation
- ASCs and manual shuttle carriers
- 2 cranes per block
- 900.000 TEU

#### **Equipment & software**

- 16 Kalmar ASCs
- 14 manned Kalmar Electric Shuttle Carriers
- Kalmar TLS
- Kalmar Automated Truck Handling
- Navis N4 TOS

#### Comment

The competitive environment at the Port of Brisbane became tougher with the arrival of a third stevedore in 2012.

DP World Brisbane realised that it would have to make more effective and efficient use of terminal space while maintaining the highest standards of safety, and comply with maritime transport security regulations and customer service.



"Ultimately, we felt that a combination of ASCs and shuttle carriers would not only provide the best financial return on investment, but also the highest level of waterside productivity."

#### **Mark Hulme**

COO, DP World Australia



# **Automation Projects in Australia**

# Patrick Terminal Brisbane, Australia

#### Terminal setup:

- Capacity 800 000 TEU
- AutoStrad terminal

#### **Equipment & software**

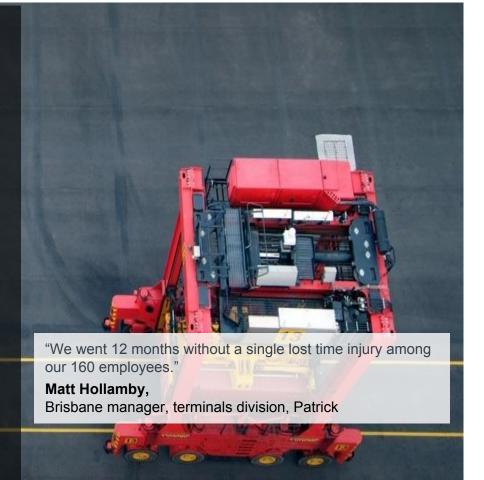
- 27 Kalmar AutoStrads™ 3-high
- In-house TOS
- Kalmar RTCS (Real Time Control System)

#### Comment

The unmanned Kalmar AutoStrads™ can operate 24/7 in almost any weather conditions, ensuring smooth flow of cargo and significant cost savings.

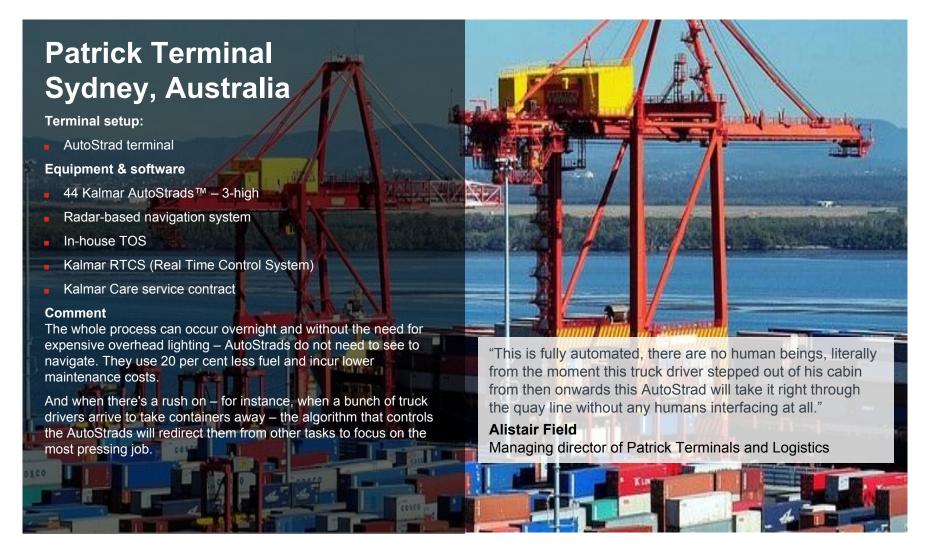
Patrick's work force has decreased drastically, as today a crane gang of only four people is needed to operate a ship-to-shore crane and the yard and stacking area.

The transition to automation can be done quickly and at low cost.



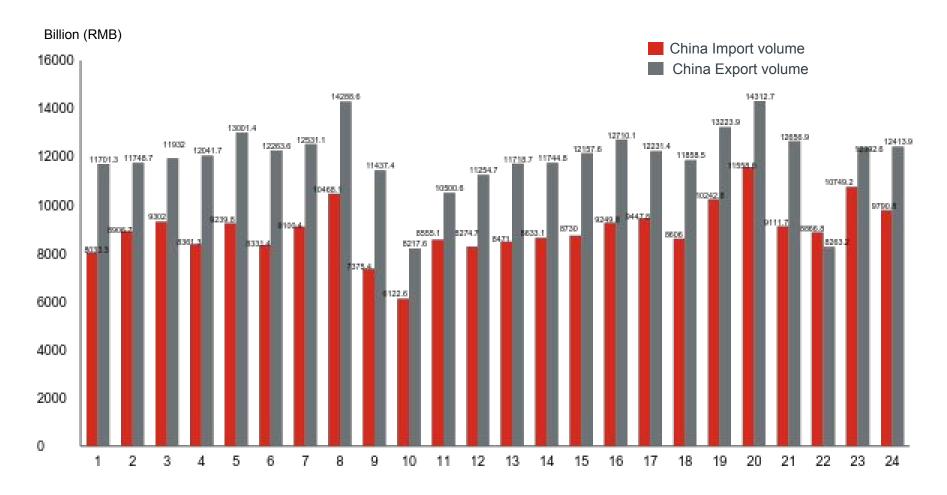


# **Automation Projects in Australia**





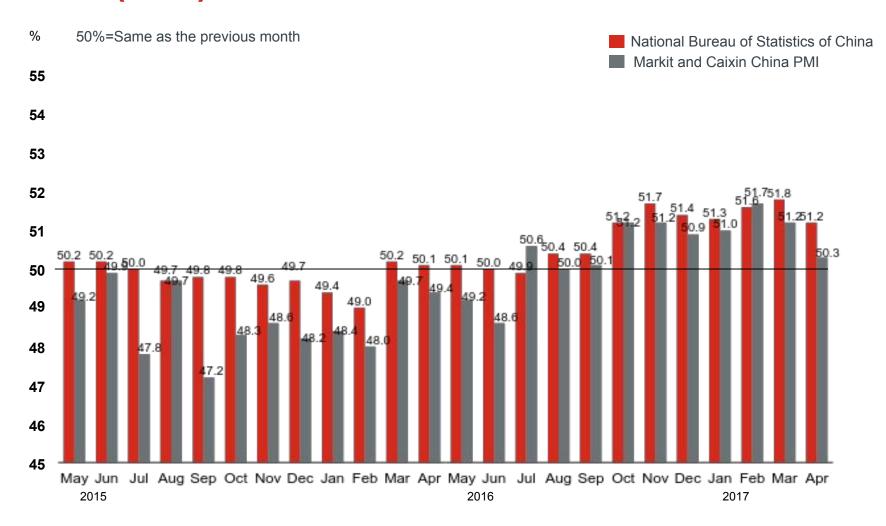
# **China Import and Export Volume**



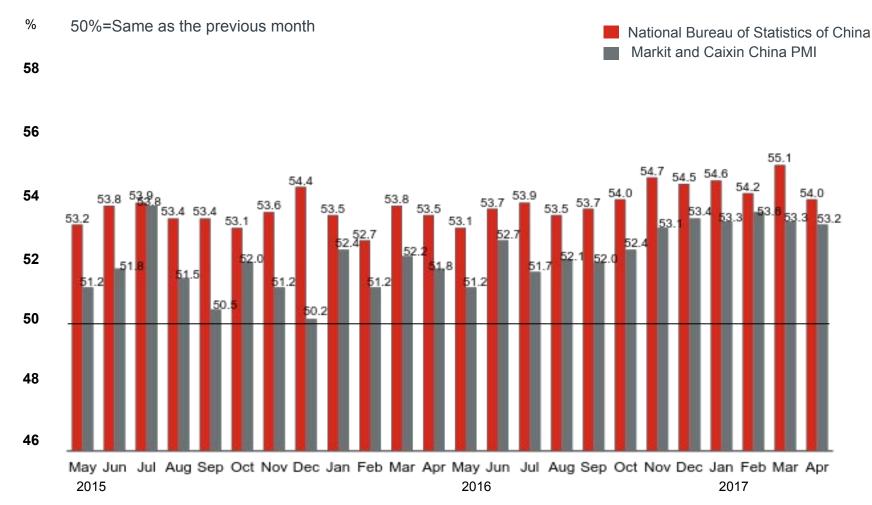
Source: China Customs Statistics



# China's Manufacturing Purchasing Managers Index (PMI)



# China's Non-manufacturing Purchasing Managers Index







Profession | Innovation | Responsibility | Win-win



RHI - JIANGSU RAINBOW HEAVY INDUSTRIES CO., LTD.



# **Product Line**

# Offshore Supporting Vessels

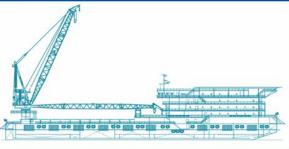


- AHTS (Anchor Handling &Tug Supply Vessel)
- IMR (Subsea Inspection, Maintenance and Repair)
- · Accommodation Barge













- Side Rolling types
- Lift-Away types
- Hydraulic folding types
- Lifeboat davit













# Shipyard/yard/Factory Handling Solutions (G1)





- Gantry Cranes
- Overhead Cranes
- Metallurgy Cranes















# **Product Line**



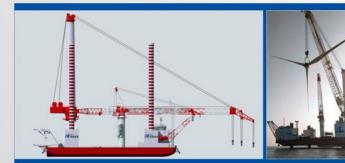
#### Offshore engineering solutions (G2)



JACK UP System

















- E.P.C in mining material/ grain/chemic/cement industry
- Material processing/ storage equipment















- Mobile Harbor Crane
- Mobile Hopper
- unloader
- Material Storage
- Convoyers









# **Product Line**

Parking system solutions



- PSH Elevating & Sliding Parking System
- PPY Sliding & Elevating Parking System
- PJS Mini Mechanical Parking System
- Tower Type PSH Elevating & Sliding Parking System











