Lim Meng Yong, Managing Director (APAC)

The future is vertical

The Road to Boxbay Solution implementation

TOC Asia, Singapore, 26 – 27 November 2024

RECAP: WHAT IS BOXBAY SOLUTION?

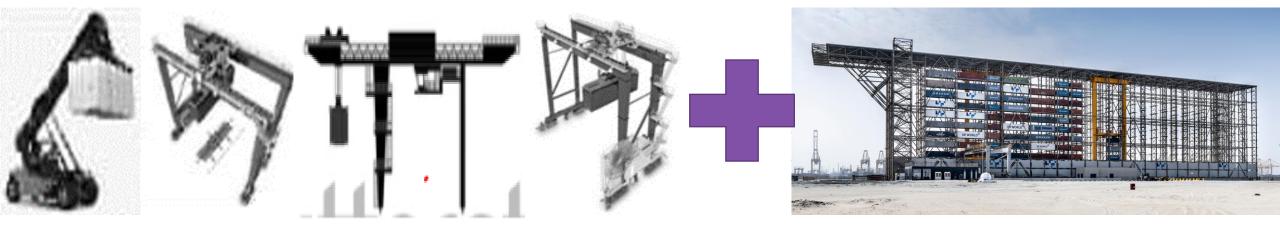




RECAP: WHAT IS BOXBAY SOLUTION?



Enhancement of Transport Network



Enhancement of Container Stacking Area

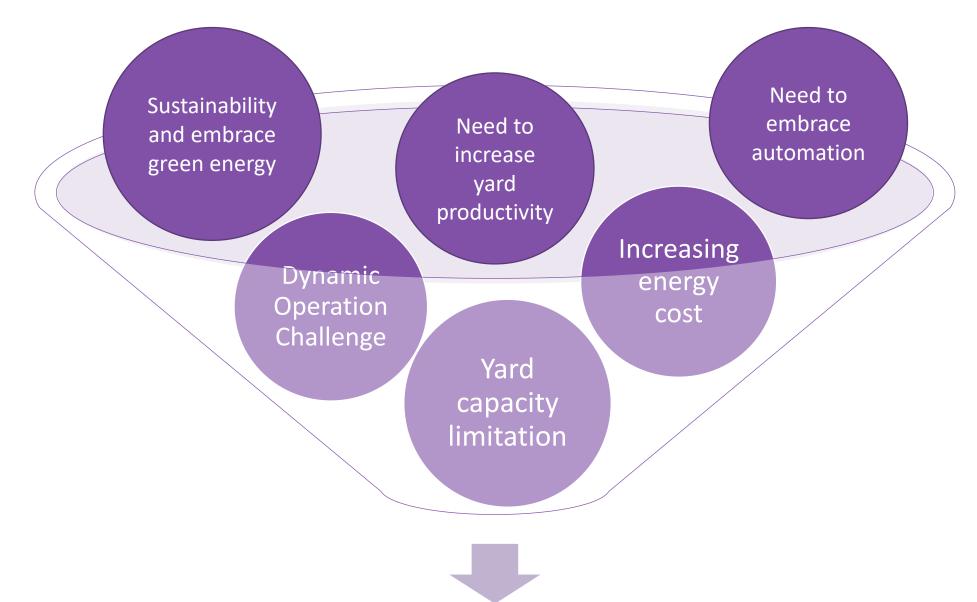


BOXBAY: MODERN PORT NEEDS VS DESIGN FUNDEMENTAL

HIGH BAY STACKING

FOR EFFICIENT STORAGE

The future is vertica



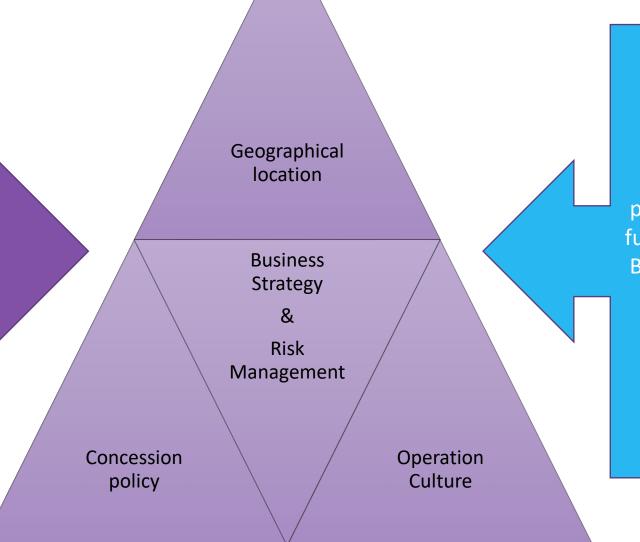
Generic challenges of modern ports



EVERY PORT SETUP IS UNIQUE

Boxbay solution design by customization:

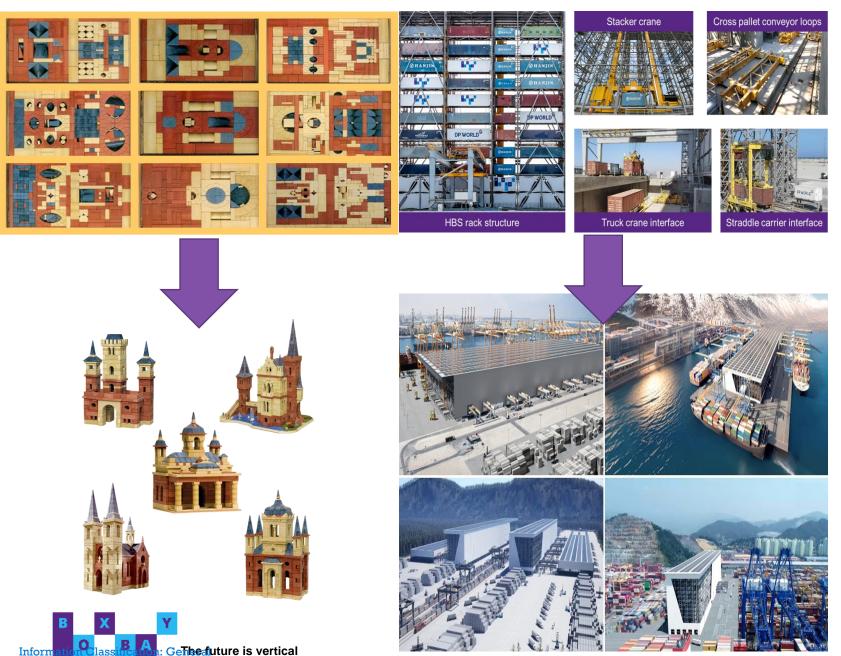
- Available land for yard layout
- Desire yard performance for water and land side
- Alignment with desire operation fundamentals



Organic growth in port capacity can be further enhance with Boxbay solution due to it's scalability advantage

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BOXBAY: MODULE CUSTOMIZATION



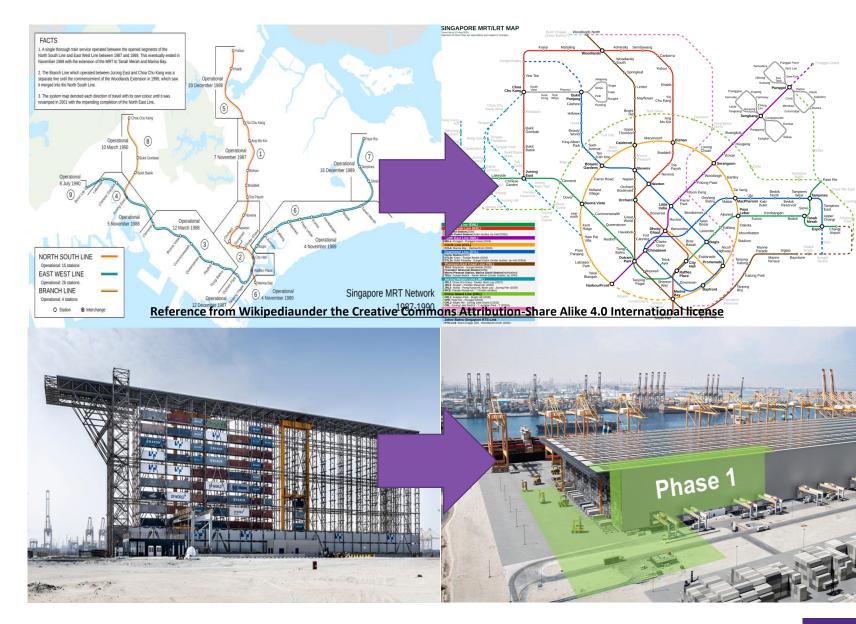
A modular system promote:

- **Customizability:** Tailored to meet specific operational needs, addressing your unique challenges.
- Flexibility: Easily adaptable to changing demands with interchangeable components.
- Cost Efficiency: Reduced development and maintenance costs through standardized modules.

BOXBAY: PROGRESSIVE SYSTEM BUILD UP

Progressive system build up allows:

- Scheduled Implementation of extension: Smoother deployment and new extended wing can easily integrate into existing operations
- Scalability: Upgradable, ensuring long-term relevance and protecting your investment.





BOXBAY: MODERN AUTOMATED PORT PLANNING YARD EQUIPMENT ROAD MAP

VS BOXBAY INTEGRATED SOLUTION ROAD MAP

HIGH BAY STACKING

FOR EFFICIENT STORAGE

The future is vertica

PLANNING FUNDAMENTALS FROM MANUAL TO AUTOMATED CONTAINER YARD



COMMON YARD EQUIPMENT ROAD MAP

Yard Design Planning Stage

Equipment Specification Stage

Procurement

Delivery



BOXBAY ROADMAP

Interest to explore

Early Discussion Stage:

Boxbay fundamentals

Operation data (water side and land side)

Pain points

Upgrade criteria with additional revenue streams or OPEX saving. Exploring Stage:

Local Requirement Customize preliminary design Initial budget exercise

Planning Stage:

Design layout Work scope definition Contract Terms & Conditions

Execution Stage:

Detail Design Phase

Construction and Equipment

manufacturing Phase Testing & Comissioning Phase

Handover

Good to Go

Positive Justification to move forward



CONCLUSION:

PRODUCT NATURE Fluid flexibility

- Automated
- Customization bespoke tailor fit to the yard layout with optimum yard efficiency
- Scalability long term planning in conjunction to capacity and performance growth

ADDED VALUE

Sustainability

- Energy consumption only used for productive move (no reshuffling)
- Dual usage of yard land Alternative Solar farm
- Reduction horizontal transport as less mileage is needed

EVALUATION PROCESS Early development planning

- Holistic approach to all stake holders needs with consideration of automated process
- Compare and select the optimum bespoke configuration



THANK YOU

& STAY IN TOUCH

BOXBA

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