

# Digitalization and Automation of Cranes as accelerator for operations

ASEAN Ports and Shipping 2022



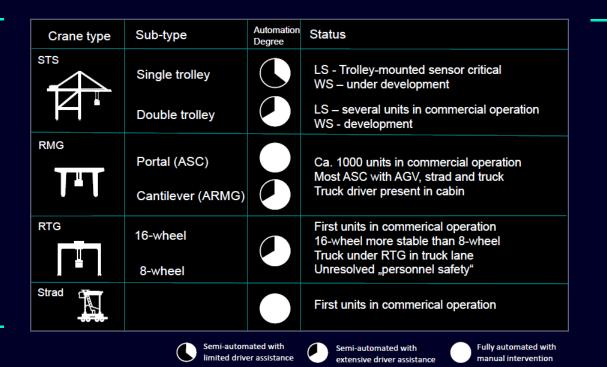
# **Potential of Digitalization**

#### Smart Data usage

- Combined data
- Multi Source Data

## **Optimized operations**

- Active process adaption
- Process insights

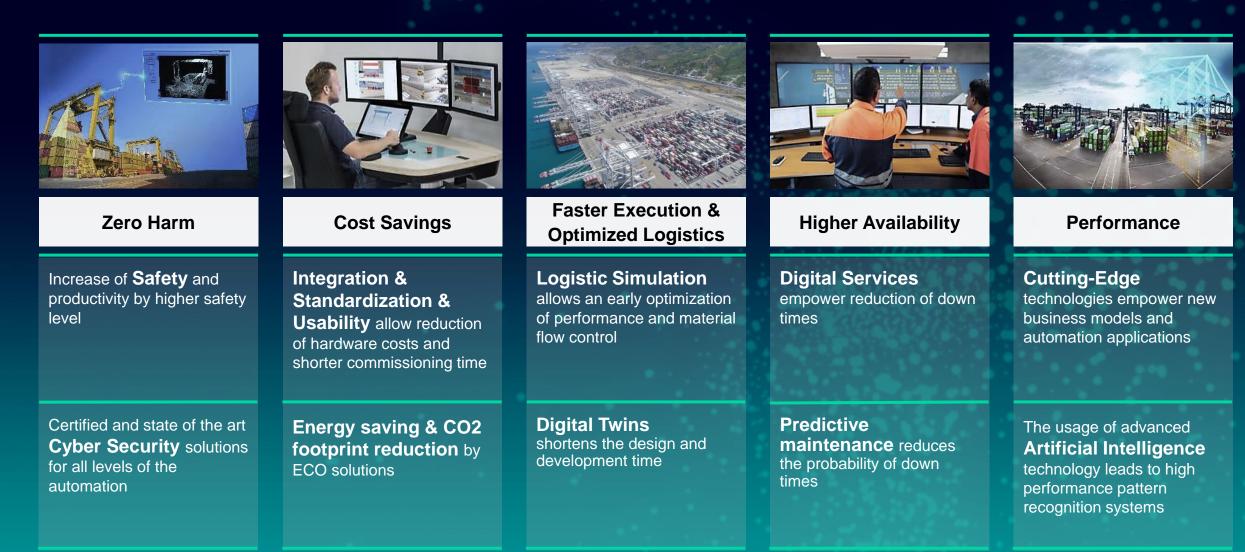


#### **Focus Topics**

- Crane remote control
- Automation for different type of cranes
- Digital twins
- Automated terminal sub-system interconnection
- Cyber-security

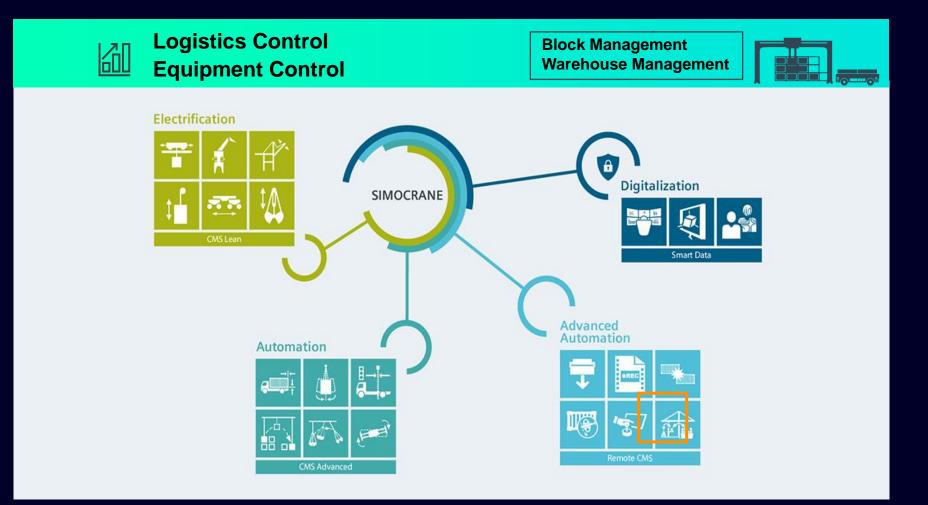
#### SIEMENS

# SIMOCRANE Solutions Strategy and offering





# Modular Automation SIMOCRANE Trends Fully Modular Automation Solution for Terminals





#### Fully Modular Automation Portfolio for Terminals

- Industry and Harbor cranes
- Ready to run & configurable
- · Standardized and tested
- Comprehensive documentation
- Open and documented Interfaces

SIMOCRANE portfolio presents modular Toolbox



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# **Digital Twin for Operators: Simulation & Emulation**

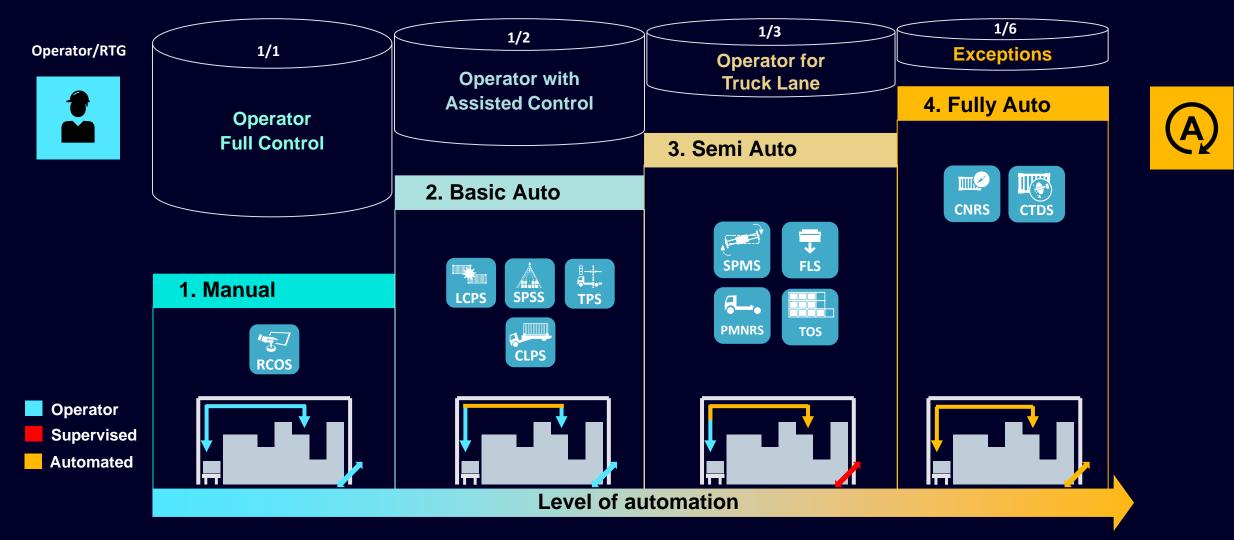








# Automation steps Yard Crane





# Contact

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