

# How Camco Facilitates Smart Port Developments in ASEAN



20 March,2024



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## Outlines

*SMART PORTS*

*How Camco Helps Achieving  
"SMART PORTS"*

**Featured  
Speaker**

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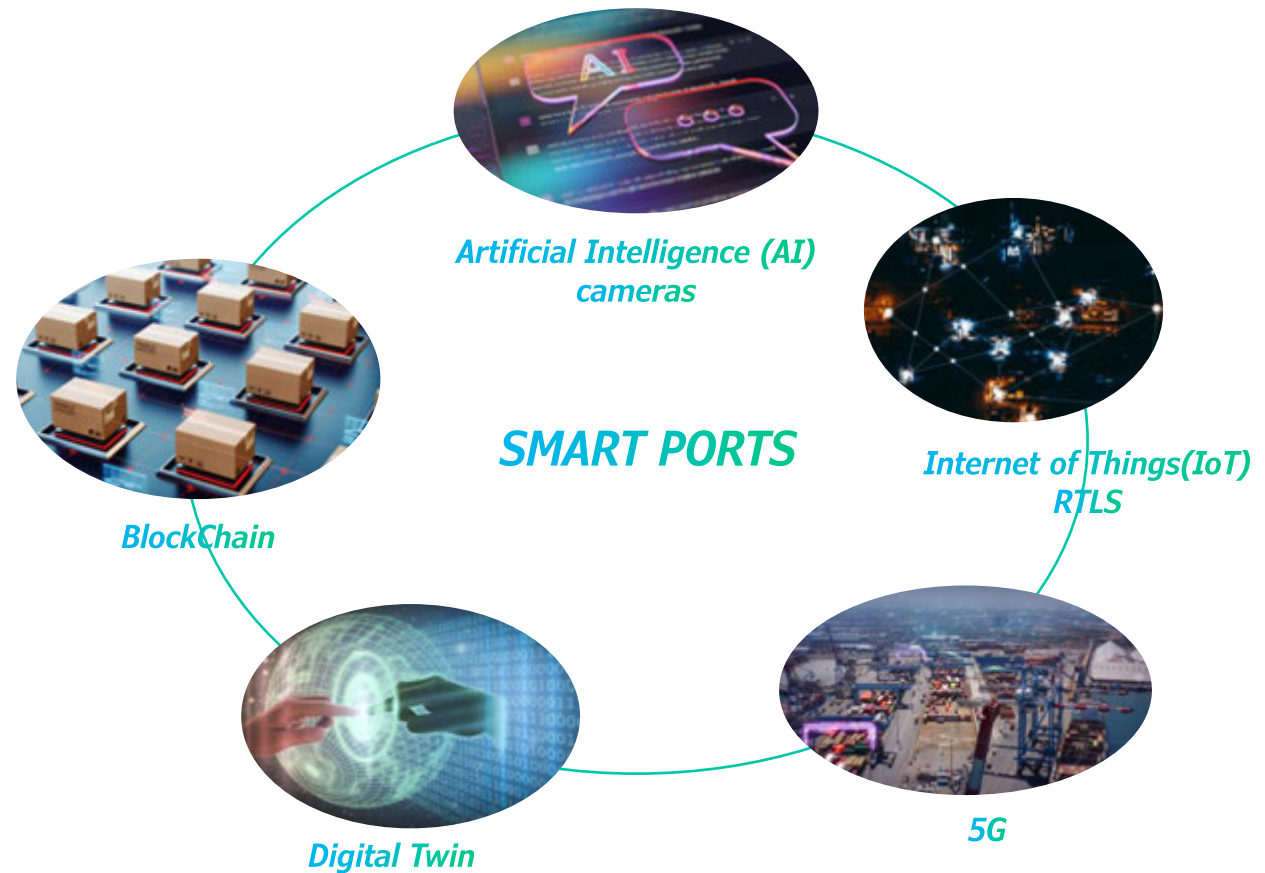


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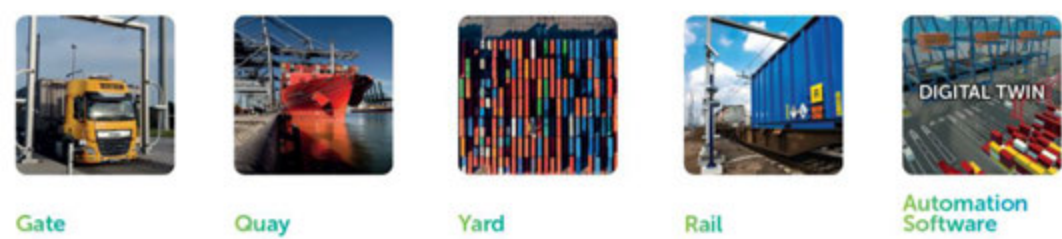


A smart port is a modern and technologically advanced port that leverages innovative technologies and data-driven solutions to enhance its operational efficiency, safety, and sustainability.

## 5 Key Elements for the Smart Ports:



# Why SMART PORT ?



- **Enhancing productivity and maximizing efficiency**

Automated checking reduces truck, train and vessel turnaround time. Faster and more accurate checking means better use of the infrastructure, leading to shorter visits increasing throughput and capacity.

- **Removing human mistakes and frauds**

Providing man less access control at perimeters and validation of asset ID to eliminate the human element so common in theft, pilferage and other criminal activities.

- **Increase operational control**

Providing real-time visibility of an asset and its location to enable process automation and control.

- **Increasing safety**

Ensuring the safety of personnel and equipment, typically within a facility environment.

- **Reduce costs**

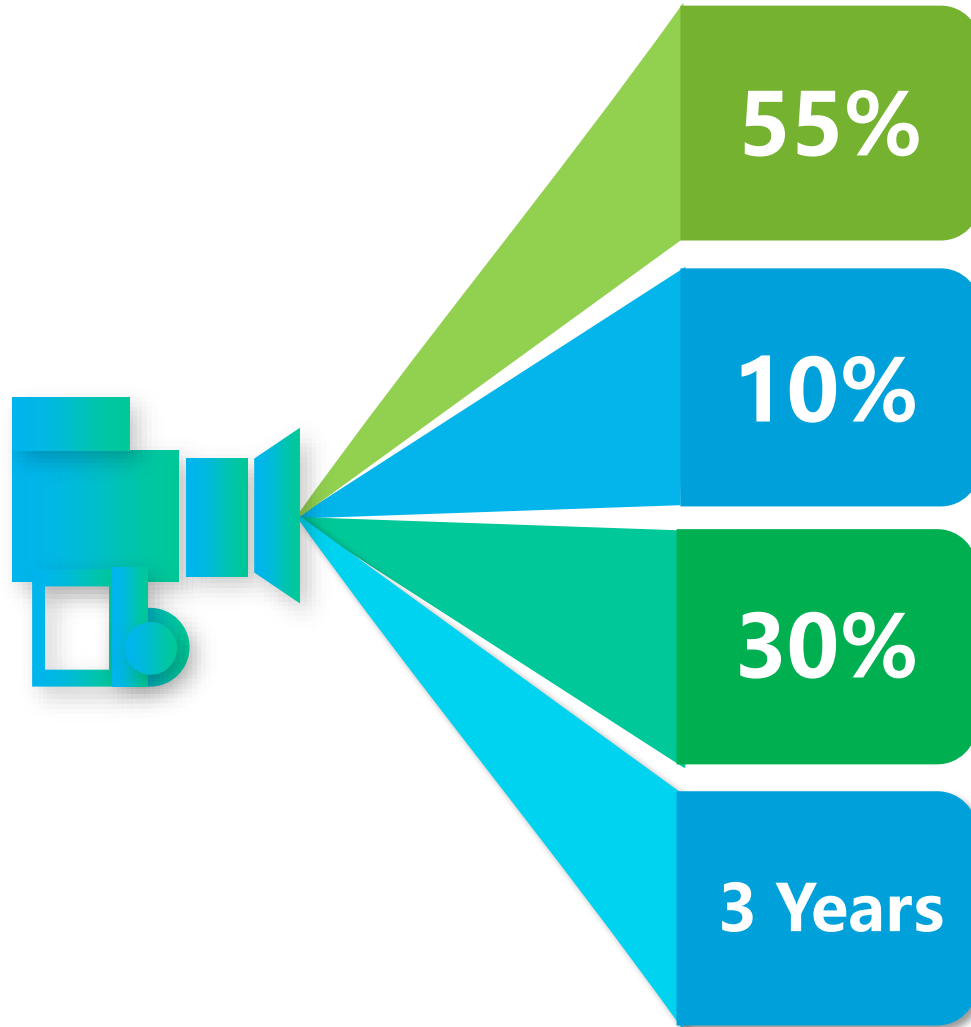
By digitalization and automation of the operation process, one can save on operational costs. Some experts project operational cost savings up to 55% with automation.

- **Enhance Sustainability**

Offset Carbon emissions > 10% or more

# Why SMART PORT ?

Investing in Automation



## Operational cost saving

Some customers said that their operational cost saving up to 55% after the terminal upgraded with automation.

## Carbon emissions

“The automated terminal not only increases the port’s handling efficiency, but also reduces carbon emissions by up to 10 per cent,” said Chen Wuyuan, president of Shanghai International Port Group.

## Productivity

Some terminals tell the productivity increased round 30% after they upgraded their terminals with automation.

## ROI

By increasing the productivity , eliminating the human mistakes and accidents, reducing the cost ,normally the terminals can get back their investment in automation in 3 years more or less.

# *Who is Camco?*

*An Innovator*

# *Smart Port Coach*

*A Belgian Engineering Company*

## *Automation Consultant*

### *An industry Standard*

*A Full-time Service Provider*

## *NO.1 Port Automation Provider*



CAMCO Headquarters in Belgium



CAMCO China Office



CAMCO USA Office



CAMCO UAE Office



CAMCO Australia Office

- **25 Years  
The longest history**  
CAMCO established in 1999, with 286 employees becomes the biggest company in terminal automation. CAMCO is the most stable technology company guarantee to provide long term services for her supplied systems.
- **300+  
Biggest Project Reference**  
More than 300 container terminals worldwide installed Camco automation systems, it makes Camco the global leader in our industry with the richest experience and knowledge for all types of projects. And same time all the new technology developed by CAMCO are proved.
- **5 M&S teams  
The Efficient Service**  
With five M&S teams located in Belgium, Abu Dhabi, Shanghai, Los Angeles and Australia, CAMCO provides the 24/7 full time efficient maintenance service globally.
- **Innovation Focus**  
With a 30 engineers R&D team, CAMCO never stopped innovation, it guarantees the customers of CAMCO have always the most advanced technology in the industry.
- **Design and produce own hardware  
In-house engineered Solutions**  
Camco designs, develops and implements its own technologies. Unlike sales organizations or system integrators, we keep total control over our hardware and software, and support a long-term product strategy.



# Project References

60

Countries

300+

Project Reference



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**60**  
Countries

**300+**  
Project Reference

Camco Customers



# Project References

**60** Countries **300+** Project Reference

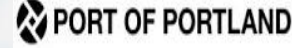
Camco Customers



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Camco Customers



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Camco Customers

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Countries

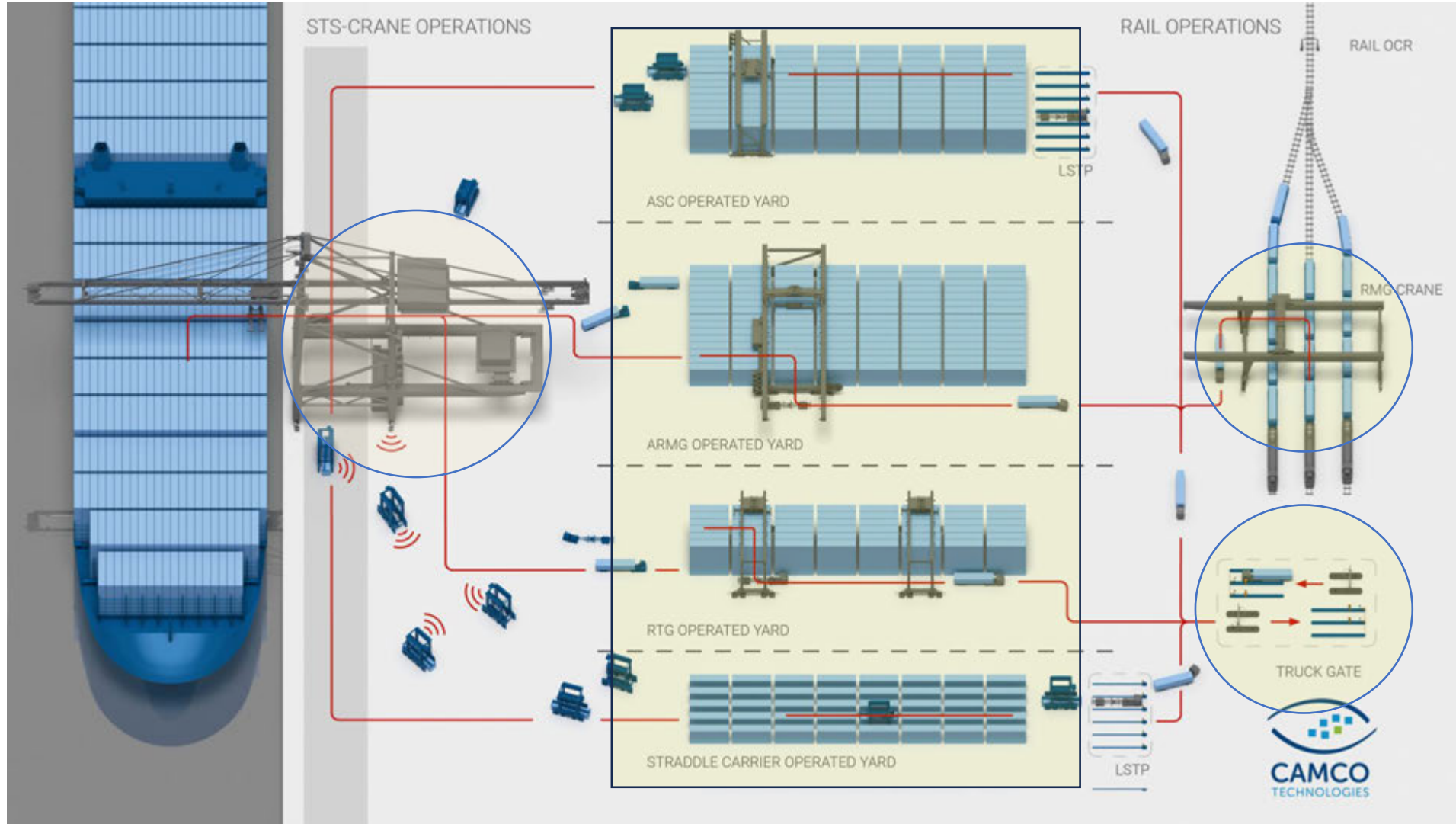
300+  
Project Reference

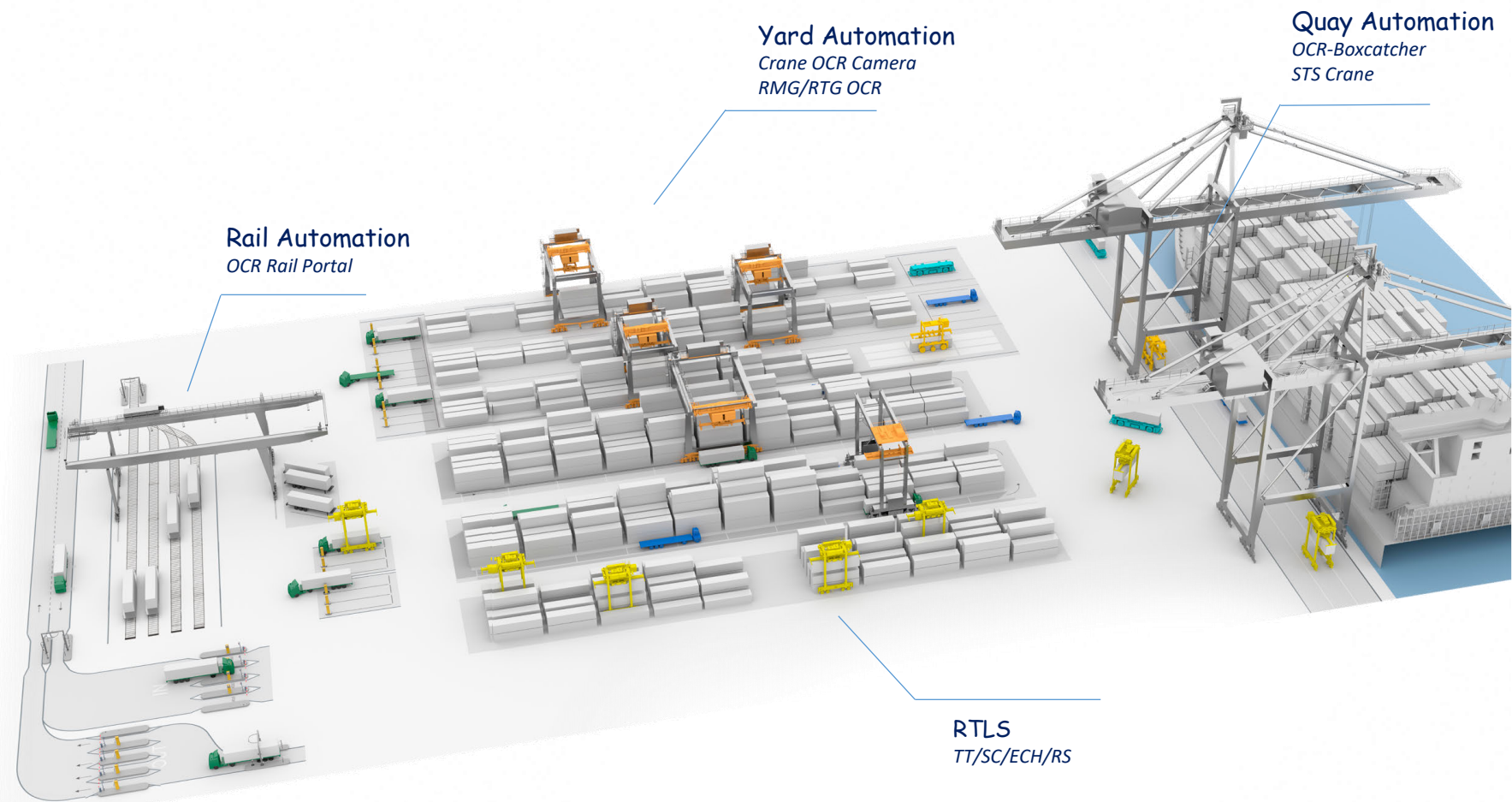


# *What Camco Does?*

# Automate Container Hand-over Processes

“Through the automation of the container hand-over process, Camco empower terminal operators to increase performance and improve safety while reducing operating costs.”





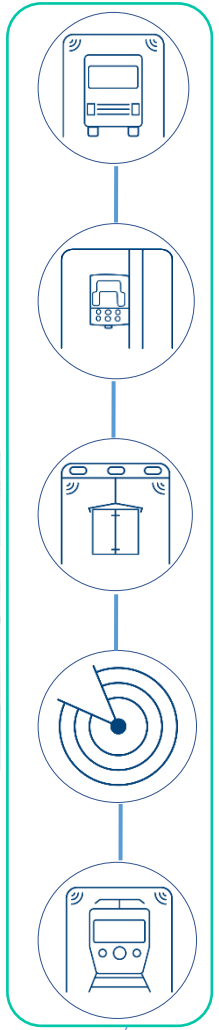
**Rail Automation**  
OCR Rail Portal

**Yard Automation**  
Crane OCR Camera  
RMG/RTG OCR

**Quay Automation**  
OCR-Boxcatcher  
STS Crane

**RTLS**  
TT/SC/ECH/RS

**Gate Automation**  
OCR portals + kiosks



**Gate Automation**  
OCR portals + kiosks

**Quay Automation**  
STS OCR-Boxcatcher

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RMG/RTG OCR

**RTLS**  
TT/SC/ECH/RS

**Rail Automation**  
OCR Rail portals

**THE BRIDGE**  
Management by Intelligence

**RT DIGITAL TWIN**  
Management by Intelligence





Camco RTLS

Precision carrier alignment

UWB technology



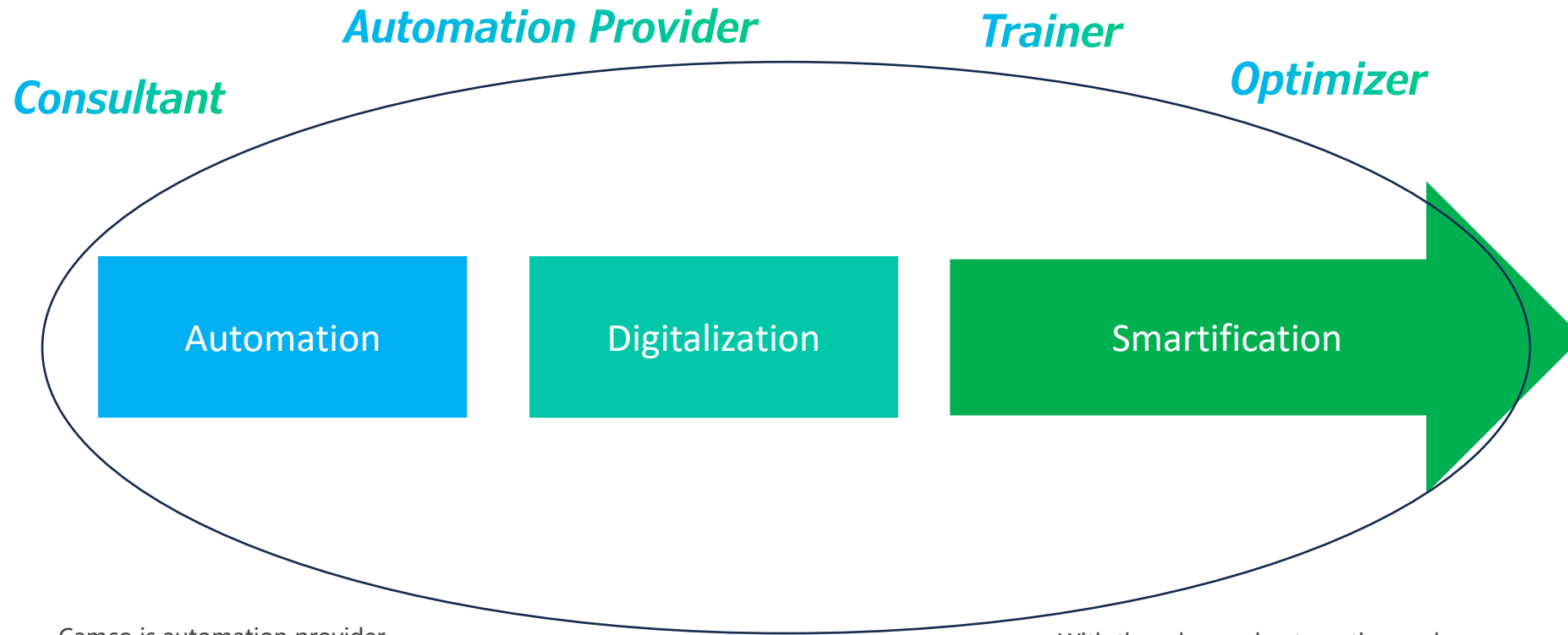
# *How to Start the Smart Transformation?*

## CONTACT CAMCO

Anytime Anywhere



# How to Start the Smart Transformation?



Camco is automation provider. With 25 years experience , Camco could use the expertise to give consultancy for the ports and terminals for automation. All automation solutions from Camco:

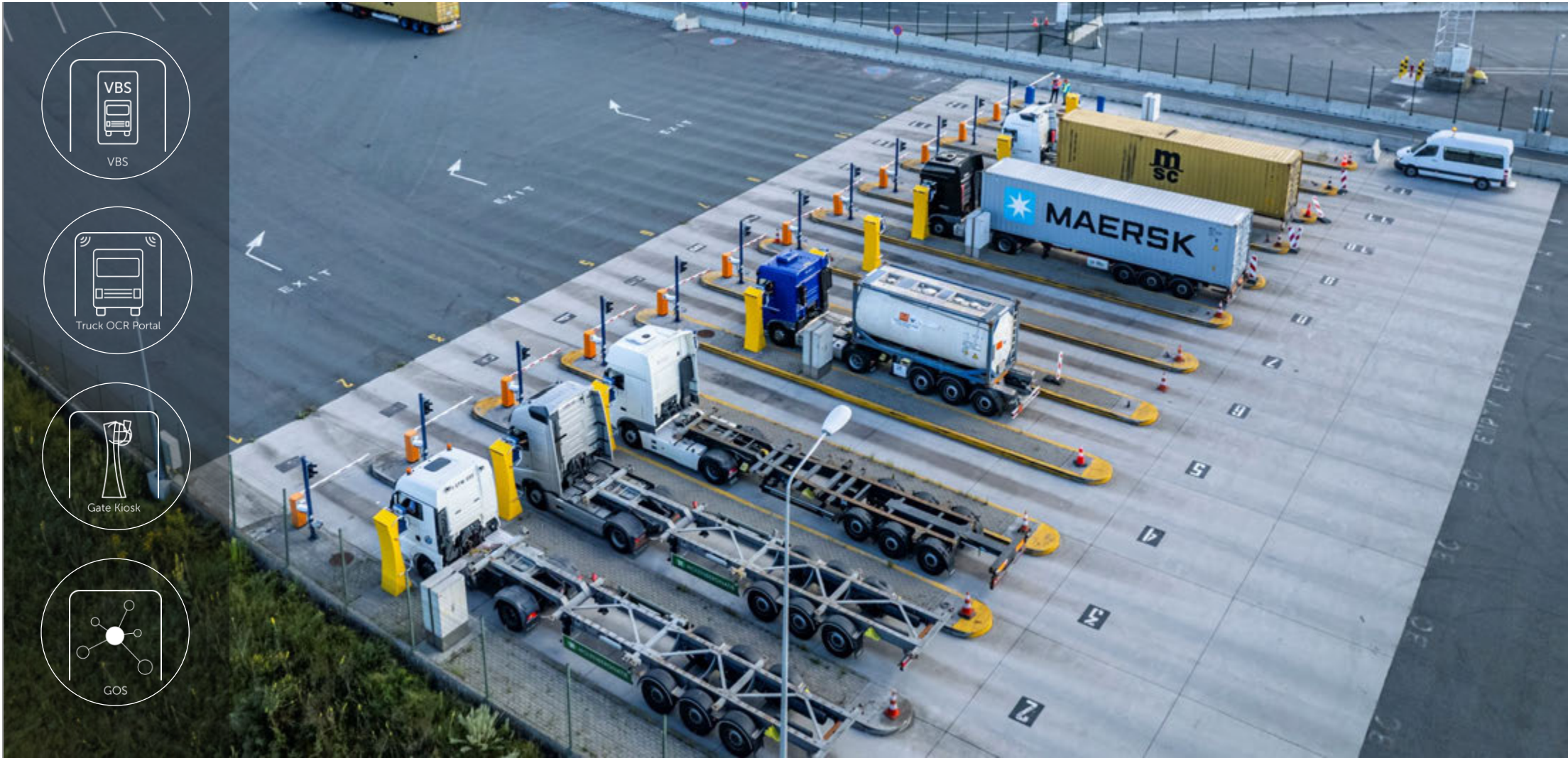
- Gate automation
- Quay automation
- Yard automation
- RTLS

Digitalization is the next step after automation in terminals. Camco has developed two smart digital platforms :

- The Bridge
- RT Digital Twin

With the advanced automation and digitalization technologies adopted from Camco , With the training and talent development, With continuous monitoring and optimization, , Ports can gradually evolve into smart ports.

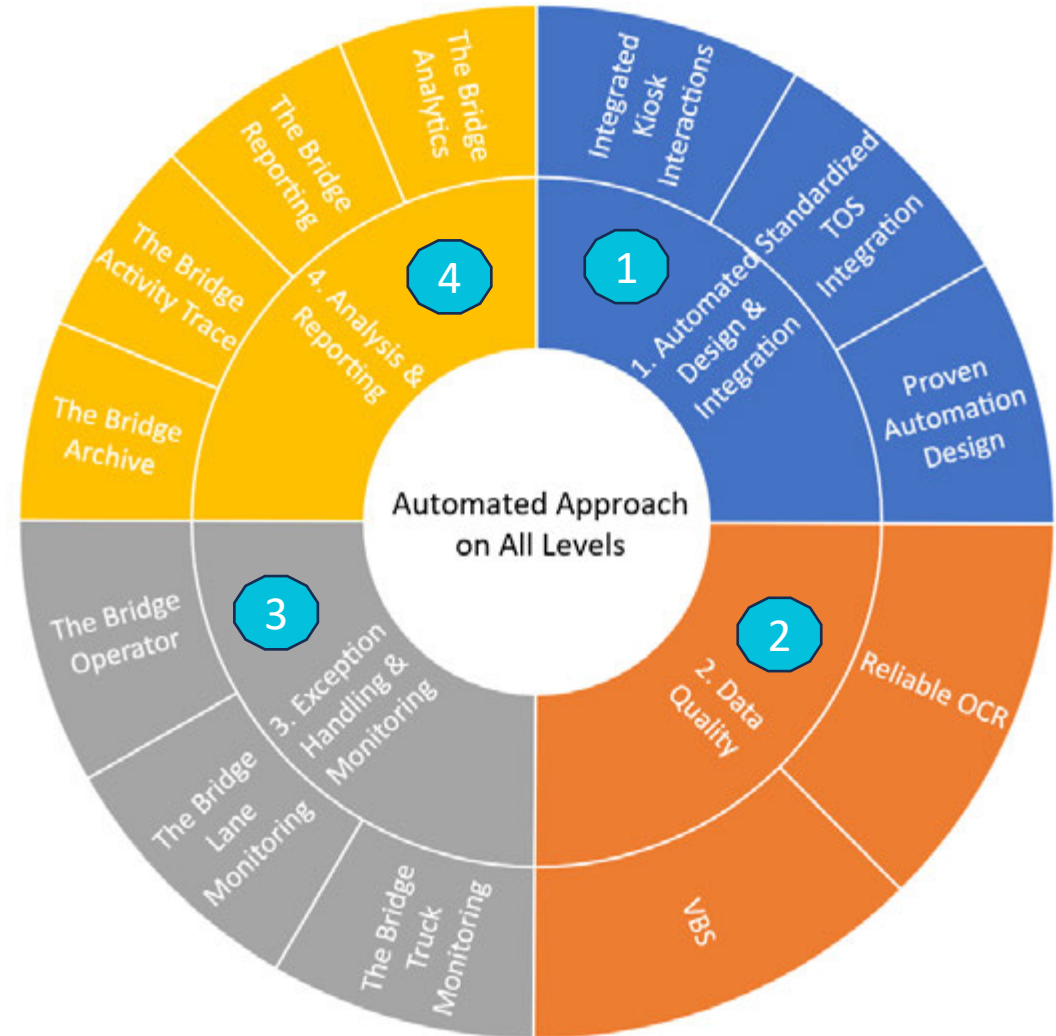
# Camco Suggests to start with Gate Automation As your first Step



# In 4 steps to a Structured approach of gate automation

## Gate automation *≠* installing OCR cameras

- 1 Design: physical, business processes, KPI's
- 2 Maximize Data Quality: use OCR&VBS
- 3 Implement Exception handling & monitoring
- 4 Analysis & reporting



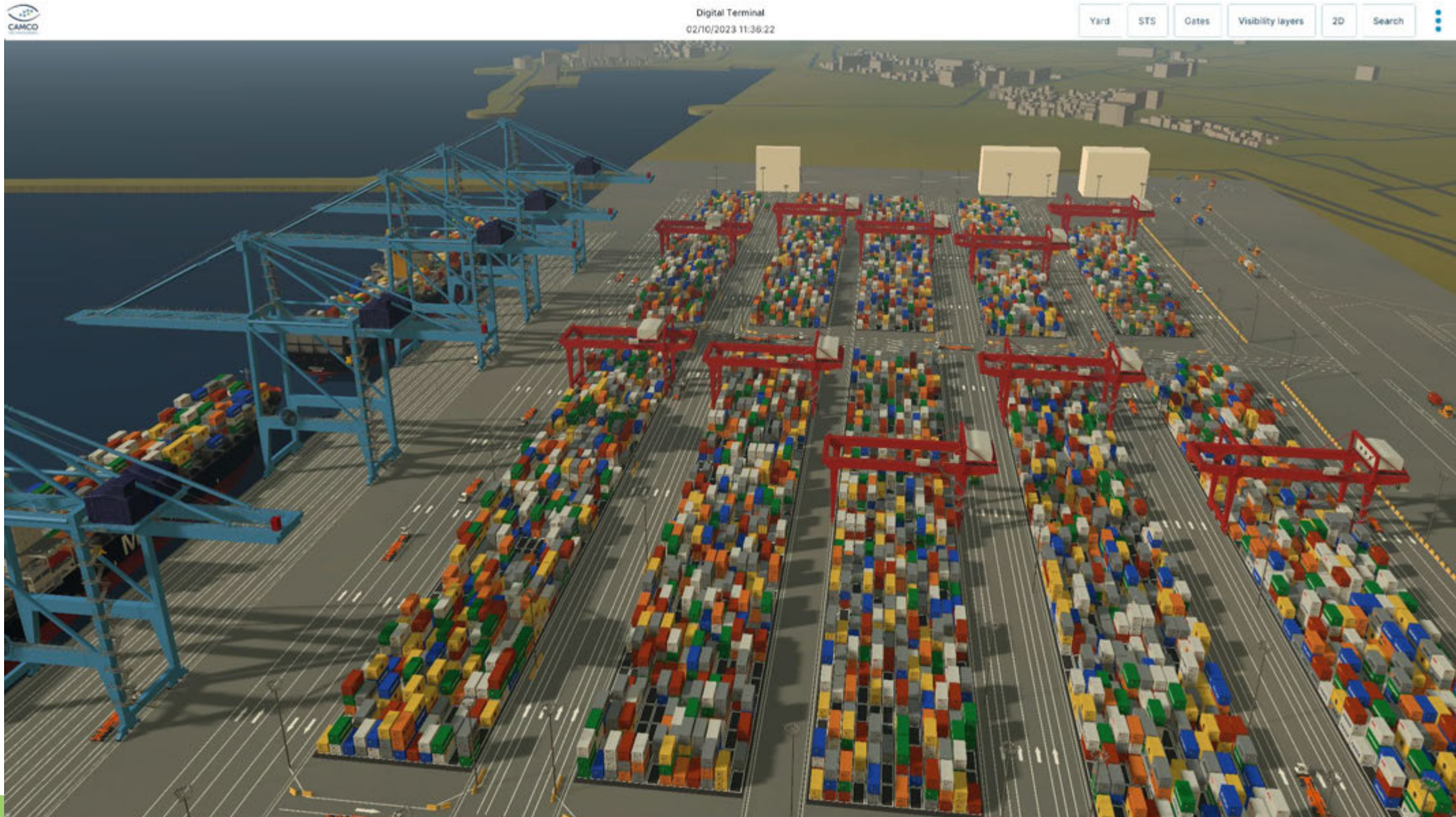


# BoxCratcher

Unparalleled STS crane OCR



# RT Digital Twin





# RT Digital Twin



Digital Terminal  
02/10/2023 11:36:13

Yard STS Gates Visibility layers 2D Search

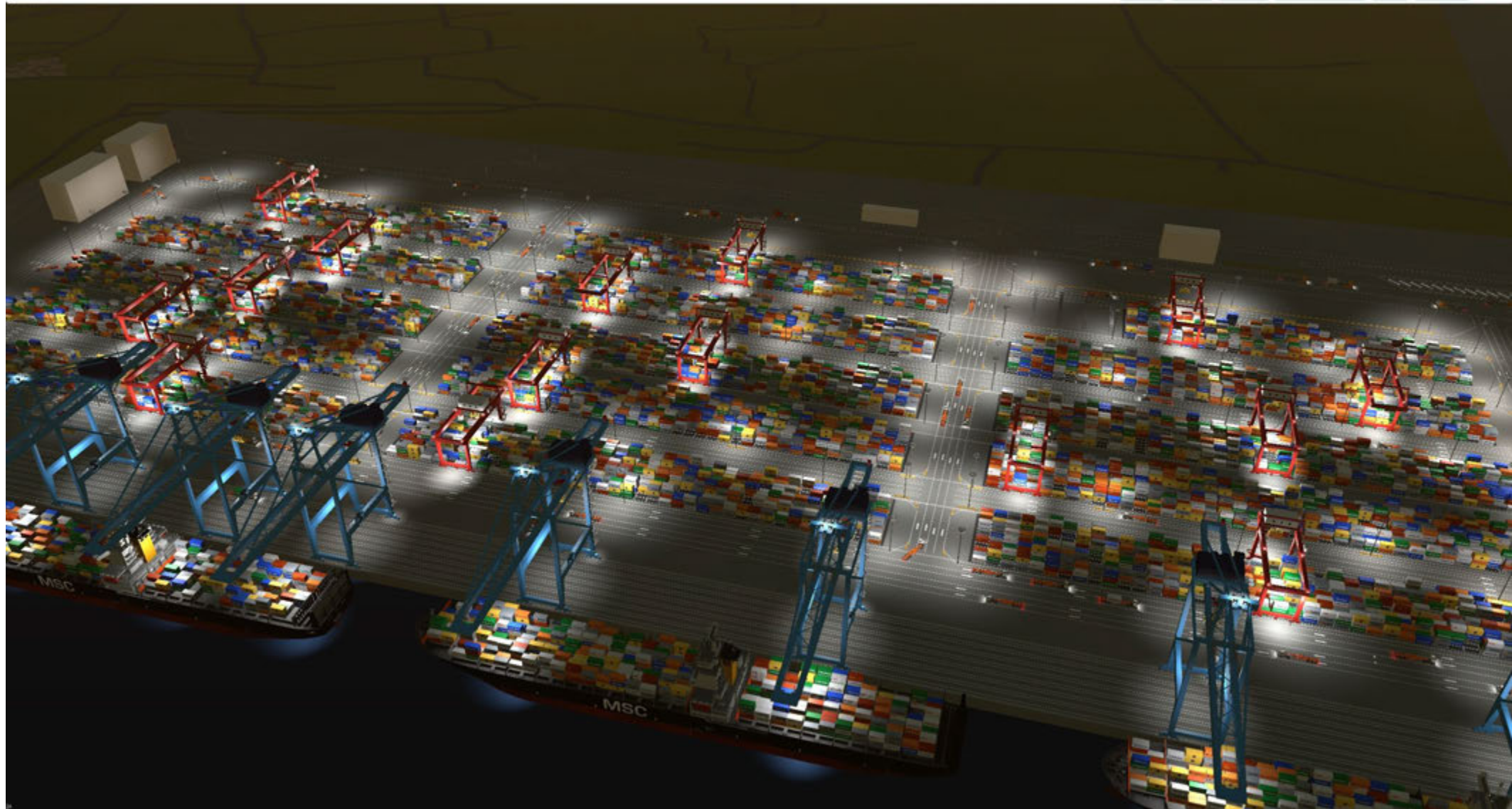


# RT Digital Twin



Digital Terminal  
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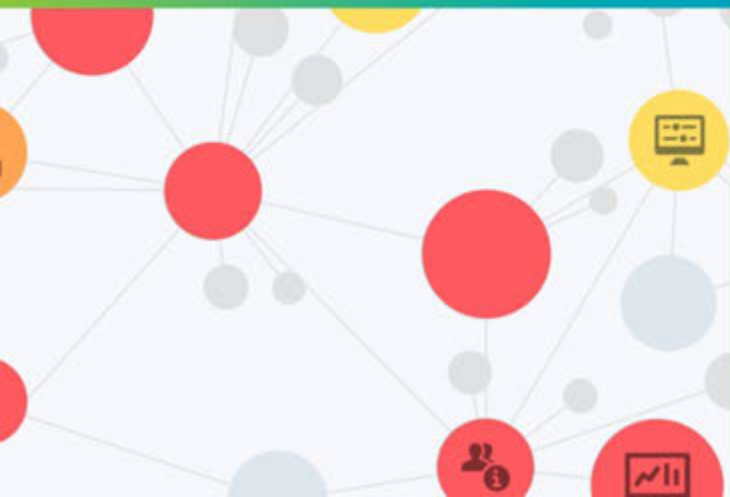
Yard STS Gates Visibility layers 2D Search



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**THE  DGE**  
Empowering container terminals  
through automation





Thank you!

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