

AI: Benchmarking Across Industries for Transferability to FVL

The AI-mazing Seven





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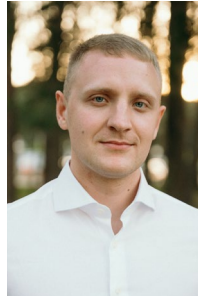
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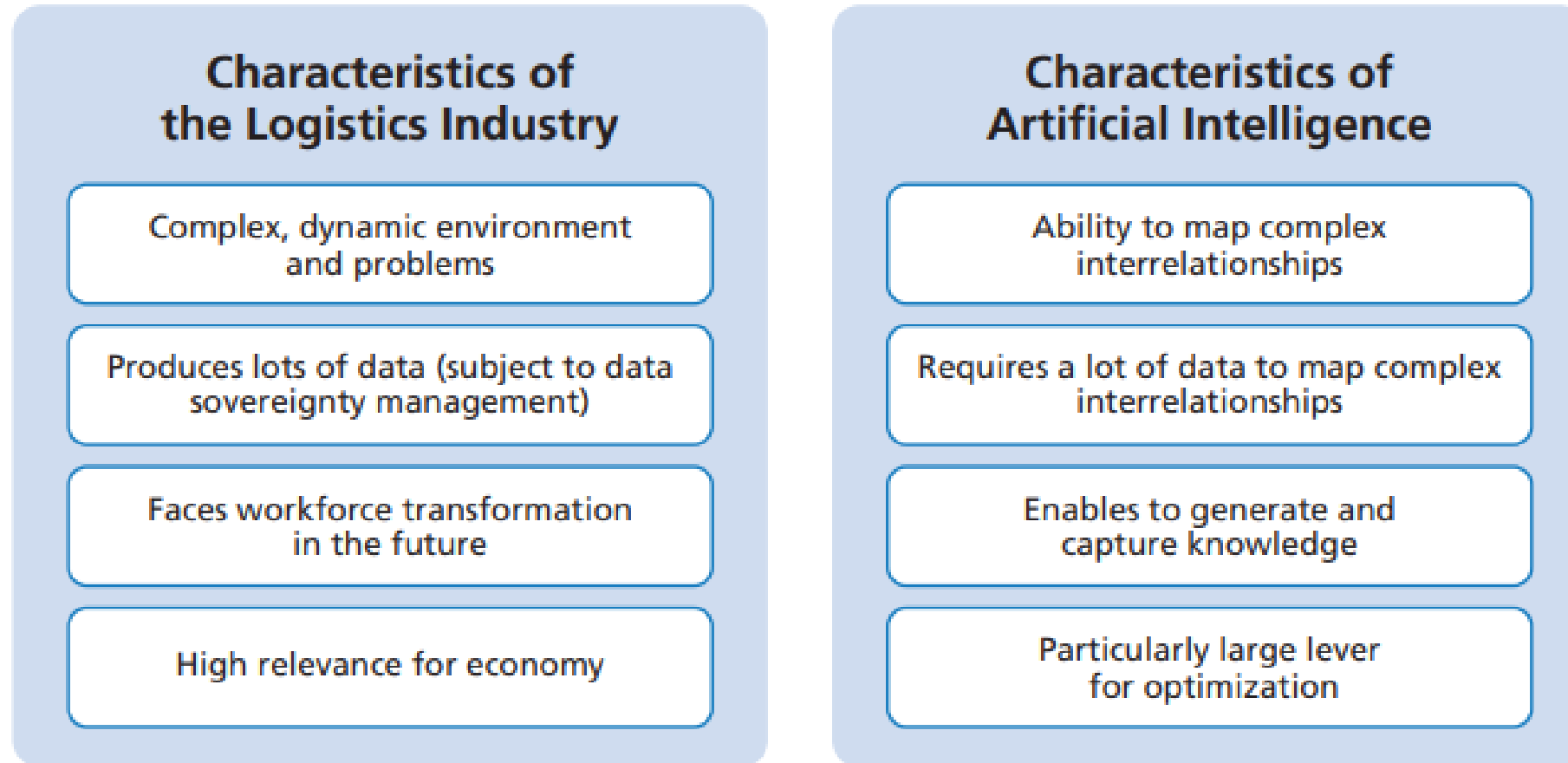


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The AI-mazing Seven

Why AI?



White Paper: AI in Logistics, ALICE (Alliance for Logistics Innovation through Collaboration in Europe)

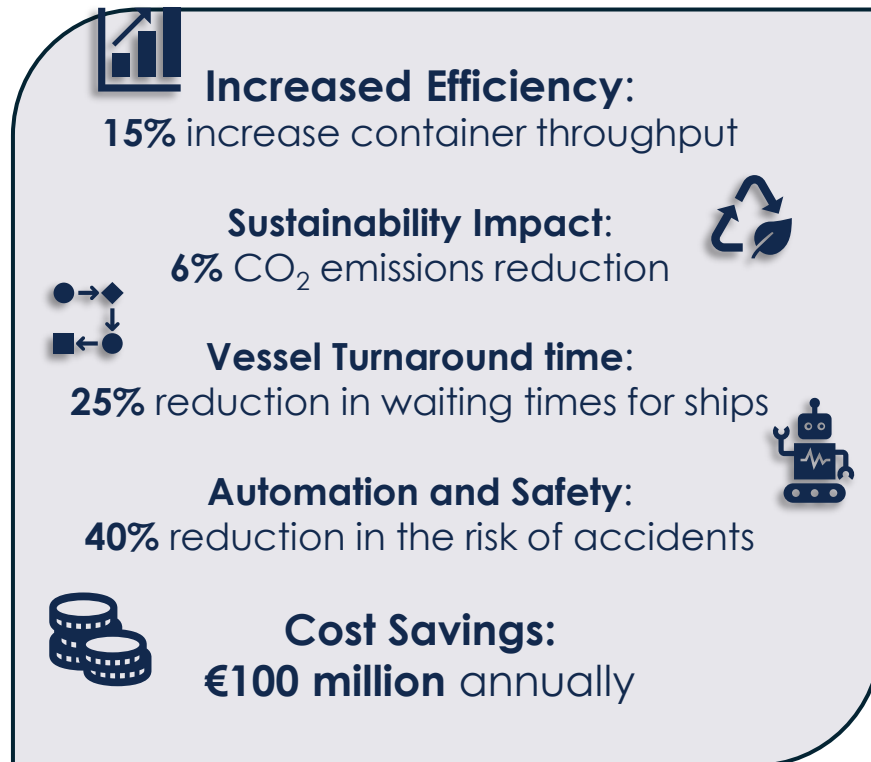
Figure 1: Relevance of AI for the logistics industry

From Container Yard AI Management System



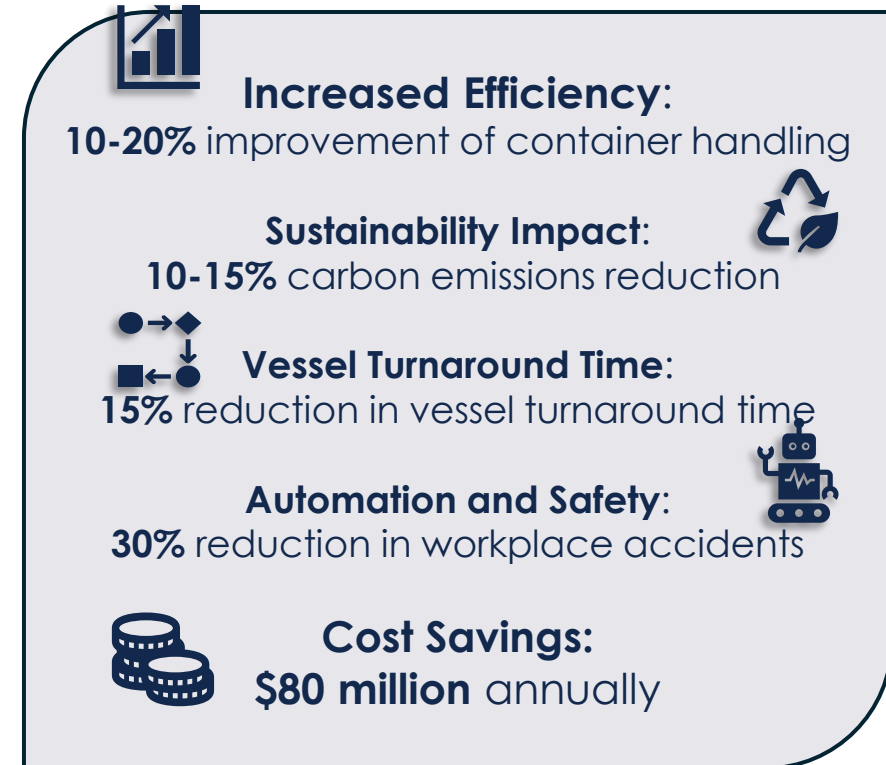
Why AI Container Yard Management

Port of Rotterdam



Port of Rotterdam Authority, 2020
Van der Meer & Zunder, 2021
Khan & Pallis, 2022

Port of Singapore




Singapore Economic Development Board, 2021
Port of Singapore Authority, 2020

To AI Compound Management System




Why AI Compound Management?



The Association of European Vehicle Logistics

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Changing Capacity at RoRo Ports in Europe

[Home](#) > [News](#) > [News from ECG](#) > Changing Capacity at RoRo Ports in Europe

Changing Capacity at RoRo Ports in Europe

ECG — 2024-11-27

News from ECG

The times they are a changin. And for port and terminal operators in Europe, its either to accept that the flows have changed, adapt to the new demands of the market or indeed believe firmly that the tides will change again, though how soon is anyone's guess.




Port Capacity

A Look at Changing Capacity at RoRo Ports in Europe




Business Intelligence

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New Pure Car & Truck Carriers

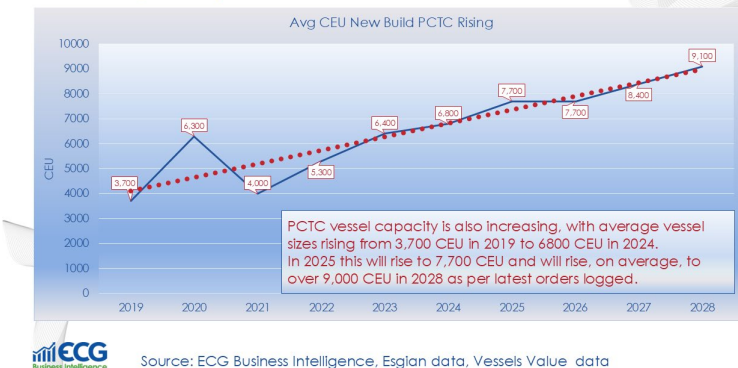
PCTC increase across global waters



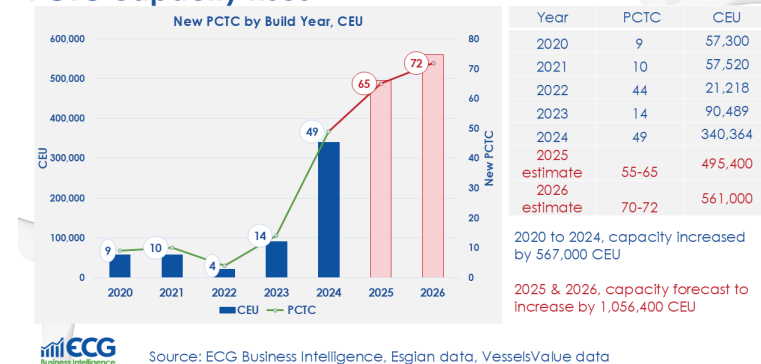
Business Intelligence

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CEU Capacity in New Build PCTCs Rises



New PCTC surge results in CEU jump, as average PCTC capacity rises



From containers to cars: Adaptation process

1

Input

- Adapt data in from container to compound
- Identify vehicle specific data in

2

Adaptation Steps

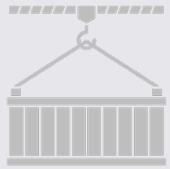
- Adapt unit and yard measures
- Movement Scheduling
- Loading/Unloading process
- Vehicle Specific Data
- FVL Specific Systems
- AI Sustainability Metrics
- Environmental Factors

3

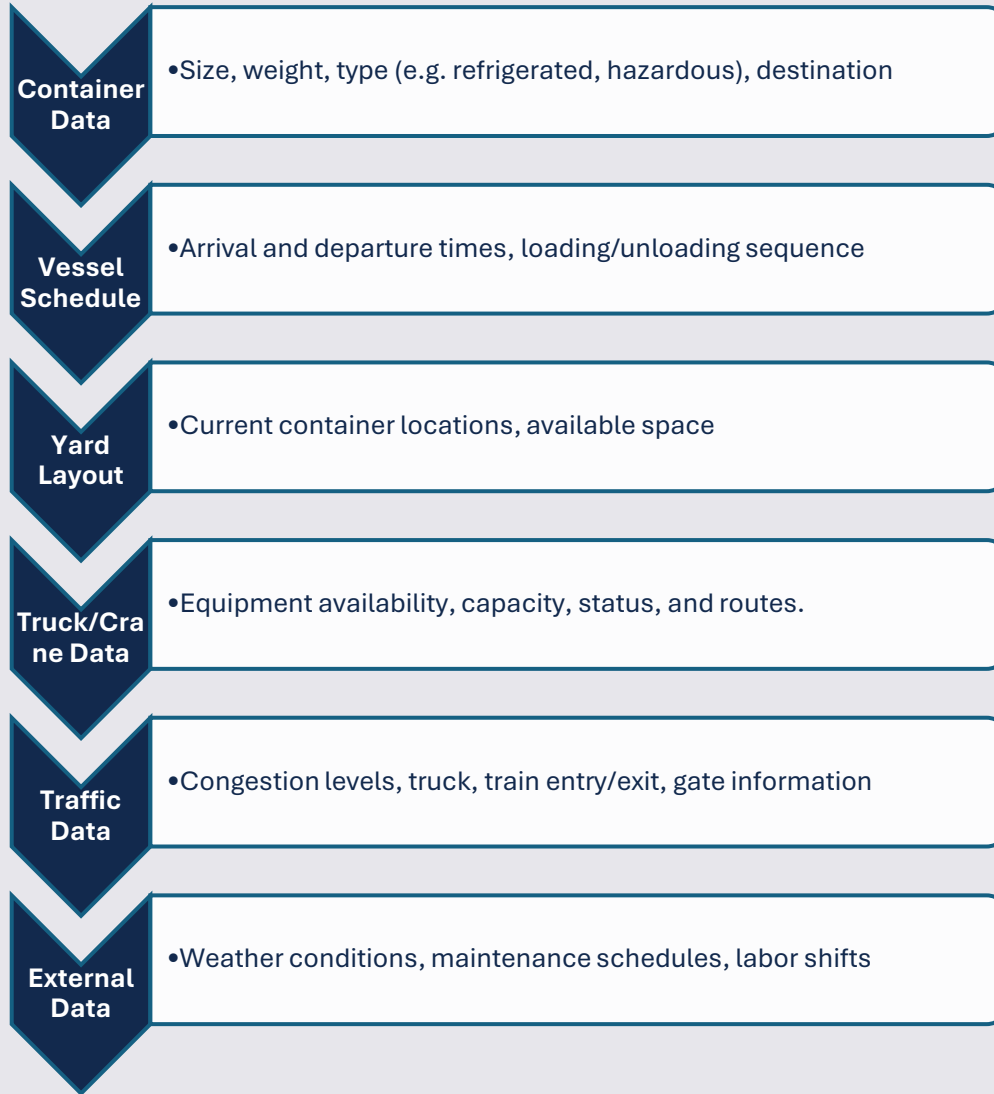
Customisation

- Space allocation to vehicles types and activities
- Equipment Utilisation and Predictive Maintenance
- Loading/Unloading schedule

Containers are NOT cars and cars are NOT containers →
a part of the adaptation process, focuses on vehicle specific data



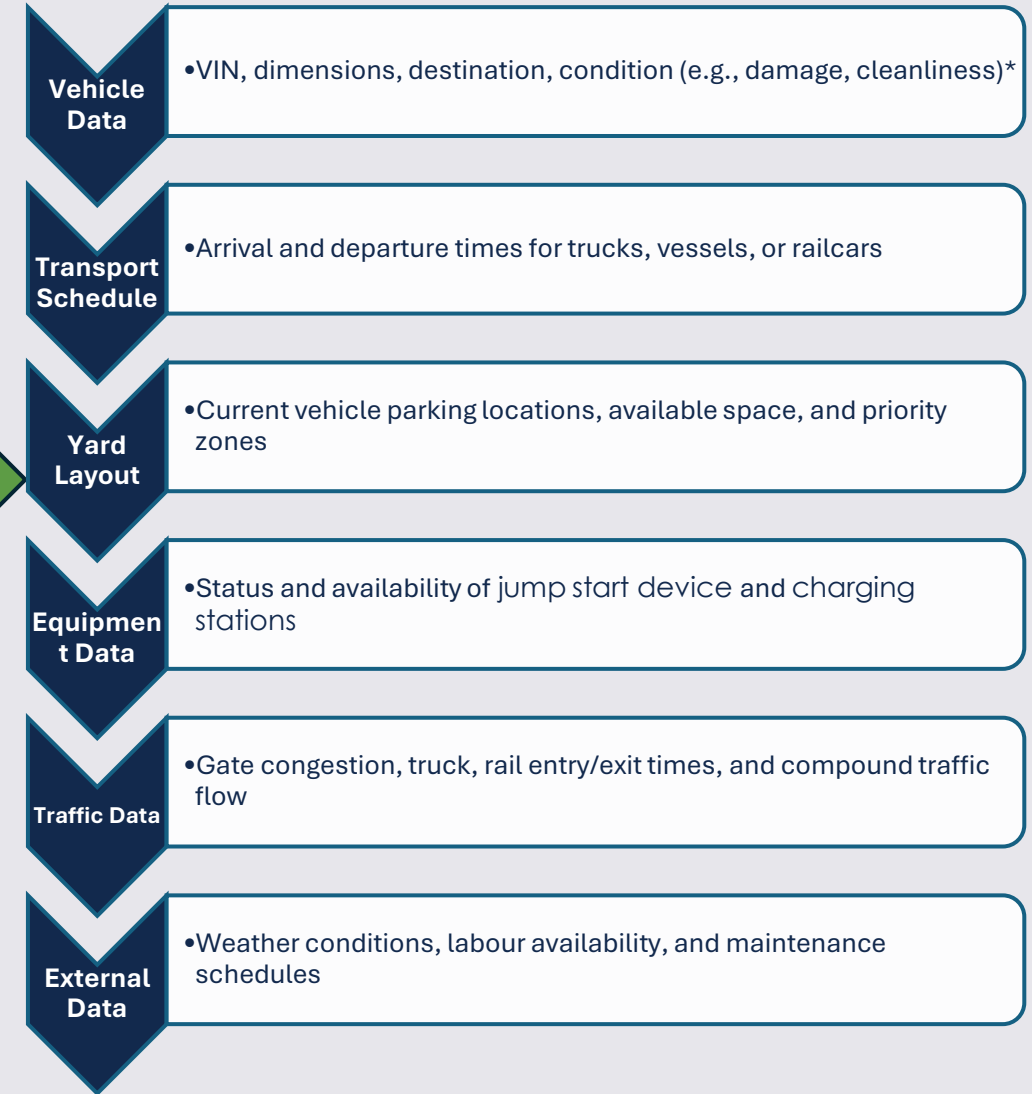
AI Container Yard Management Data In



Adapt to FVL



AI Compound Management Data In



Further Vehicle Specific Data In



Damage Detection:

- Use AI-powered cameras for automated visual inspections of vehicles to detect scratches, dents, or other damages.
 - Automatically log and tag vehicles with detected issues for repair or additional handling



Statement of Charge SOC (for EVs):

- Integrate IoT sensors to monitor electric vehicle (EV) battery levels.
 - Automatically allocate charging stations for EVs requiring a recharge before transshipment.



Processing Needs:

- Identify vehicles needing additional steps, such as cleaning, refuelling, or installation of accessories.
 - Generate work orders for staff and schedule tasks to ensure readiness.

AI Compound Management

OEM Data

Forwarders Data

Inspection Data

Shipping Line Data



AI Processing

- Processes & Analyses data
- Predicts missing data
- Combine data

AI Outputs

- ✓ Smarter Space Utilisation
- ✓ Predictive Planning
- ✓ Real-Time Decision-Making
- ✓ Resource Optimization
- ✓ Damage & Risk Reduction
- ✓ Improved Visibility and Reporting
- ✓ Sustainability Gains



AI in Compound Management

**Breaks the limitations of any
existing system.**



AI in Compound Management brings:

- ✓ **Efficiency** through automation and optimization
- ✓ **Predictability** through forecasting and pattern recognition
- ✓ **Agility** through real-time responsiveness
- ✓ **Sustainability** through smarter resource use

AI: Benchmarking Across Industries for Transferability to FVL

Thank you

