

OPTIMIZING FOR EXCELLENCE

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Introduction to APM Terminals Bahrain

Operational Efficiencies

Decarbonization Roadmap



APM Terminals Bahrain

Operating
Khalifa Bin Salman Port



Our “North Star”



Throughput of more than 1m TEU by 2030, resulting in a significant economic contribution to Bahrain



Operating as a **top-ranking worldwide efficient terminal** with a **highly capable Bahraini workforce**



Achieve **Net Zero decarbonisation target by 2040**

Our four strategic imperatives



Operational Efficiencies



Reducing Vessels Port Stay

Over the last three years, our top strategic priority was reducing vessel port stay

We followed a structured approach to understand the vessel value stream and identified the major waste buckets that impact our vessels and found **(4)** main areas of improvements



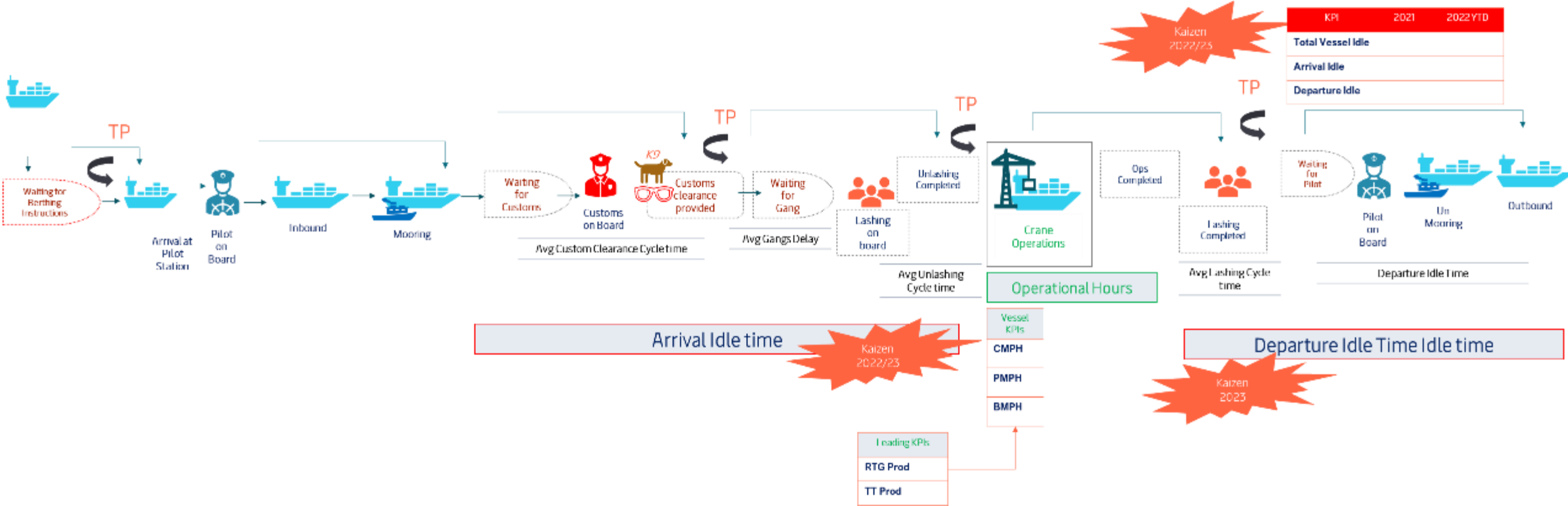
Vessel Idle
Time (arrival
& departure)

Customs
Clearance
Process

Lashing
Cycle Time

Operational
Performance

Value Stream Mapping – CT Vessel



Results:

1317
hours saved

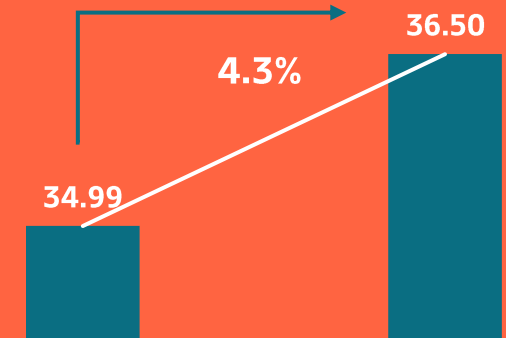
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18%
YTD in 2023

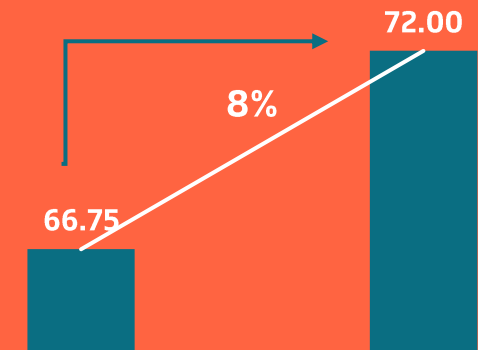
Improvements:

- Vessel Idle time (Arrival and Departure) reduced by **44%** Since 2021
- Customs clearance process reduced by **28%** cycle
- Lashing Cycle time **38.6%** reduced from previous process cycle time
- Operational performance :
 - **4.3%** Improvements in crane productivity
 - **8%** Improvement on our Berth moves per hour

Crane Productivity Enhancements (3 Years)



Berth Productivity Enhancements (3 Years)



Decarbonization Roadmap

RENEWABLE ENERGY

Install solar panels on the roof of four warehouses located inside the terminal, covering an area of 71,000 square meters

In total, 26,960 solar panel grids will be installed which will have a capacity to generate 19 GWh, covering 100% of the terminal's electricity requirement



ELECTRIFICATION OF EQUIPMENT

Comprehensive plan to electrify all terminal equipment starting from **2026**

A total of **69** terminal equipment are in scope which will help neutralize the carbon footprint from diesel emissions



ENERGY CONSUMPTION OPTIMIZATION

APMT will deploy technology and industry-leading best practices to constantly optimize the way it consumes fuel and electricity across the entire terminal

Key areas of focus are

- Utilities & Buildings (LED, building controls)
- Reefer optimization
- Distributed energy systems (e.g. Microgrid controllers)



Q & A





APM TERMINALS

Lifting Global Trade