





E-DEA S.p.A. info@edeatech.eu www.edeatech.eu

Efficient freight and port terminal systems

September 20th, 2023



Introduction

BACKGROUND - Who we are

EFFICIENT FREIGHT AND PORT TERMINALS – Why it is important?

PROJECT GENESIS - Searoad (Australia) objectives

CHALLENGES - Why - to some extent- it has been difficult?

DELIVERABLES – What has been implemented and what are the key benefits?



E-Dea at a glance

MULTIPLE MARKETS

IT Solutions for maritime industry connecting **170 ports** and **23 countries** across EU, America, AU and West Africa

INTERNATIONAL FOOTPRINT

90% of our Revenues come from international contracts

HIGH MANAGED VOLUMES

>40 million pax and >15 million vehicles yearly

SPECIALIZED TEAM

50+ highly technology and business skilled employees



L

Efficient freight and port terminals



Efficient freight and port terminal systems are crucial components of the global supply chain, as they play a vital role in the movement of goods and commodities



Main Benefits of an optimized port are **cost savings**, **reduced congestion and emissions**, **shorter transit times**, eventually **enhanced overall productivity**



This is achieved allowing hauliers to manage directly the entire flow until the arrival at the ports and through **advanced planning** and **scheduling**, **real time tracking** and **visibility**



Intermodal transportation and PMS (integrations of container tracking, berth management and Customs) are also important aspects for an Efficient freight and Port terminal system



Periodical **Infrastructural investment** are required (expansion of berths, modernization of equipment, and improvement of road and rail connections) to ensure that the port can handle growing volumes efficiently.



Predictive analysis analytics and **machine learning algorithms (ML)** to forecast demand, optimize routes, and predict equipment maintenance needs can help in proactive decision-making and resource allocation.



Project background



Family-owned ferry and logistic company with a **+100 years** heritage



Leading maritime player to move goods between Tasmania and Australia



Two Ro-Ro ships (2016 and 2023), 2 sailings per day, approx. 10h sailings





PoM_New-Webb-Dock-Automated-Container-Terminal





Most of the **processes** were managed manually (with paper), very time consuming, and inefficient



Need more control by automating processes and replacing obsolete technology. Also required to allow hauliers to manage directly the entire flow until the arrival at the ports



Required a reliable proven track Cloud based, **integrated solution to manage both reservations and TOS activities** for trailers and containers

Challenges



+11h time difference, during full strict Covid-19 restrictions, the entire project has been managed remotely



Specific cargo loading requirements for containers, several port assets and ship equipment





High degree of customizations to the standard system



Shift to a full laaS model on Oracle Cloud from a traditional on-premise installation





Important dependencies with infrastructural port enhancements for the GOS part, to be managed with the integration to a third-party



Advanced re-routing functions (in bulk) of vehicles/containers which have already been ingated to a future sailings

Deliverables

Proactive & paperless approach transforms SeaRoad



Booking/ticketing system to maximize revenue. Very granular Inventory control (pricing based on cargo commodity)



Customer Portal (B2B). Customers to pre-book cargo against their inventory quota. This will ensure a transparent error-free information flow, resulting in stronger revenue controls and efficient port practises



TOS for Digitized operations. Drivers make way to terminal area. Operators to proceed cassette packing task and ship loading. Tasks are executed on rugged tablet in real-time anywhere on the terminal



Self Service check-out. Drivers proceed to exit gate and confirm checkout details. This eliminates truck administration processes at check out and increases terminal turnaround times



Datamart smart analytics. Allows to provide a tool aside of the booking/to perform Business Intelligence a ticketing system analysis in terms of revenue, volumes, performances and whatever data is available from the system



Deliverables



Transport Technology

Thank you for listening







E-DEA S.p.A. info@edeatech.eu www.edeatech.eu

