

TRANSPORT MIDDLE EAST 2024 Abu Dhabi 23-25 January 2023

"From Data to Value"

How predictive analytics and optimization can support decisions, improve efficiency and competitive advantage.

Thursday, January 25, 2024 – 11:20 am



Marco Fehmer, DSP Chief Executive Officer





The right approach to digitalization and innovation projects



Concretely Innovate

Know your problem, learn the technology, design your solution



Understand

Acknowledge your issue Define your objective Set Expectations

Access Technology and Innovate with the right tools



Data Strategy





Automation

Process

Equipment

Hybrid operations

Safety

Sustainability



Digital Intelligence

Added Value Application

Digital Model to mirror, simulate, emulate the reality.

Artificial Intelligence to apply to the model and to reality to enhance decisions criteria

Human Supervision



Common obstacles on the road to innovation

Lessons Learned



Preparation

- Decision Process can take too long
- Lack of specific knowledge
- Lack of resources
- Set expectations



Strategy

- Ideal desired architecture cannot be achieved immediately, you need planned comprises.
- Roll-out in multiple sites shall not stop local evolution, some
 rework shall be expected



Project planning

- Each project, especially involving automation should be phased
- Deliver tangible concrete short term results is a key-success factor for future adoption



Control

- Integration of solutions is never plug&play
- Model validation is mandatory
- Testing is crucial, especially
 Live Equipment Testing





Who we are











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38+ Years in the shipping and port industry

+ Projects completed worldwide

Navis Certified consultants

Industry Experts

Global help desk and support services

14+ Languages

DSP Product Live Installations in 2023



DSP is compliant with ISO 27001-2022 certification to grant Information security, cybersecurity, and privacy protection to its customers



Our core business

TOS CONSULTING

DSP team supports the Terminal Operations in all the phases of the Terminal **Operating System** implementation, optimization, support and training.

BUSINESS INTELLIGENCE

DATAVIEW is a DSP product. It's a Business Intelligence showing you any data everywhere in one view

DIGITAL TWIN

Product: **GEMINI**

GEMINI is a Digital Twin solution. GEMINI is a platform, bespoke on the characteristics of every single terminal organization, able to mirror decisions, strategies and show workers practice during real operations.

SYSTEM INTEGRATOR

DSP is a System Integrator Company with a wellestablished network specialized in connecting specific solutions to address individual cases.



Part 03

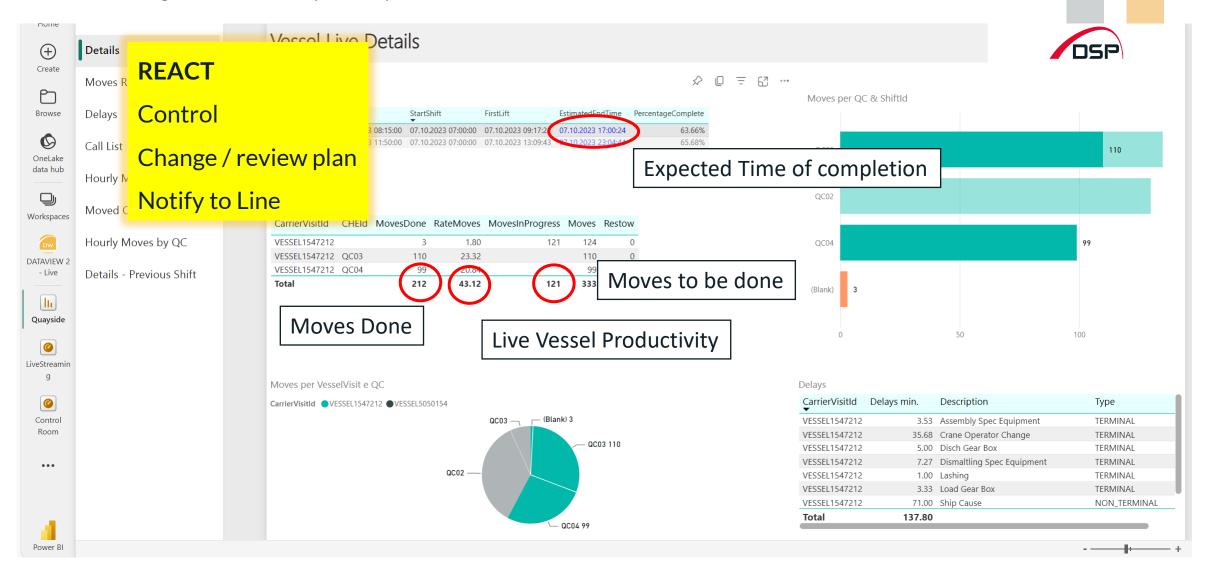
Predictive Analytics with Business Intelligence





Predictive Analytics with BI Tool – Vessel Completion Time

Reading the actual facts to predict a punctual event

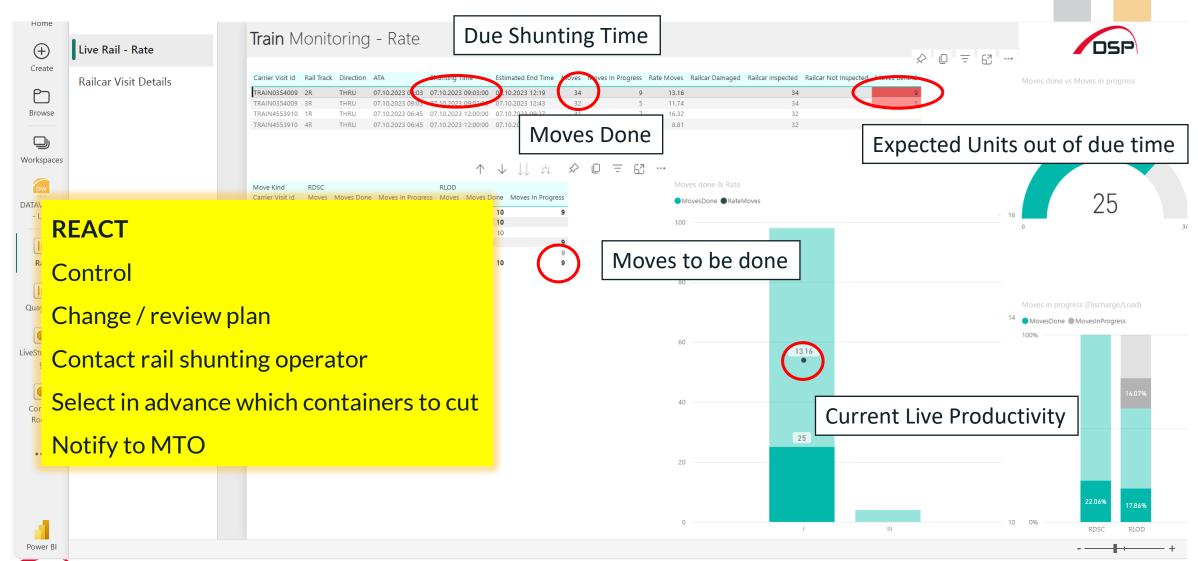






Predictive Analytics with BI Tool – Rail Moves before Shunting

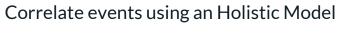
Reading the actual facts to predict a punctual event





Part 04

Predictive Optimization





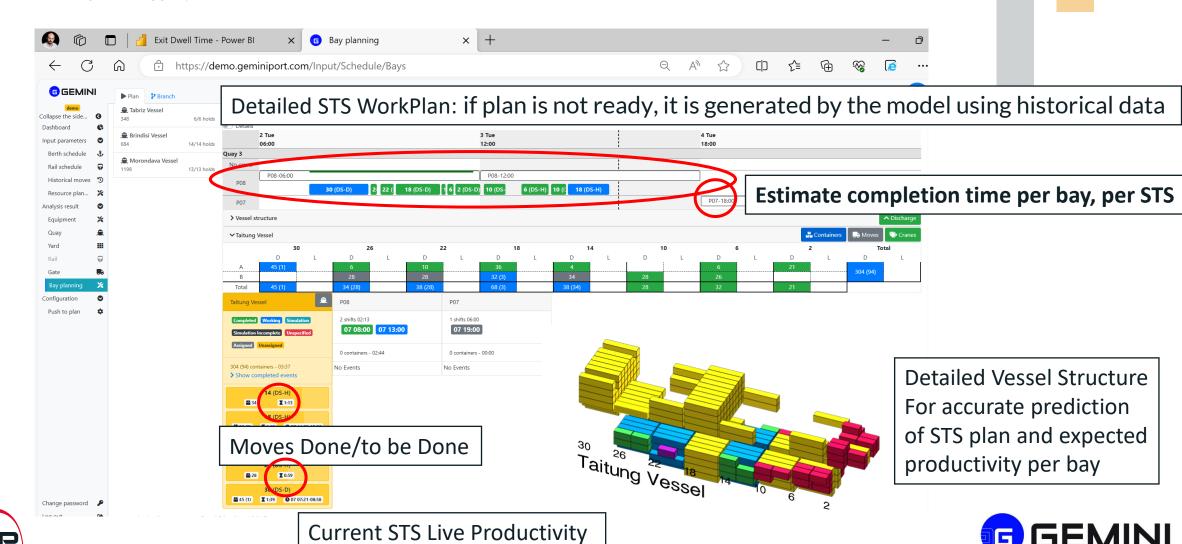




Predictive Optimization with Digital Holistic Model – 1st Step

Use live and historical data to predict correlated events

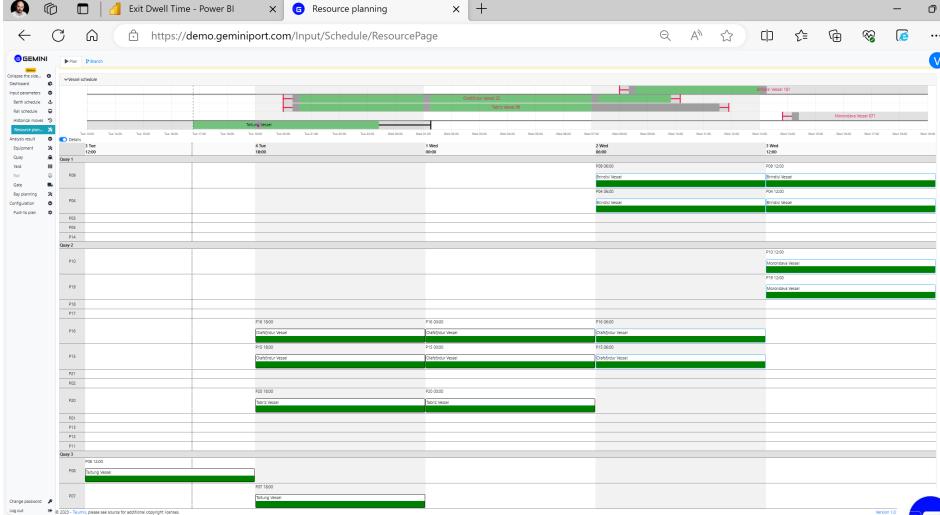
For each Vessel:



Predictive Optimization with Digital Holistic Model – 2nd Step

Use live and historical data to predict correlated events

STS WorkPlan for all Vessels scheduled



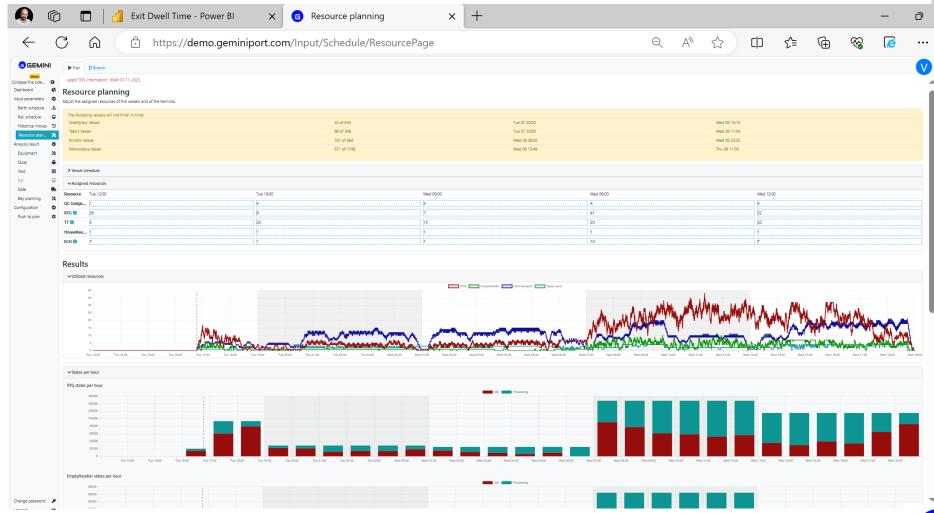




Predictive Optimization with Digital Holistic Model – 3rd Step

Use live and historical data to predict correlated events

Planned Yard Resources

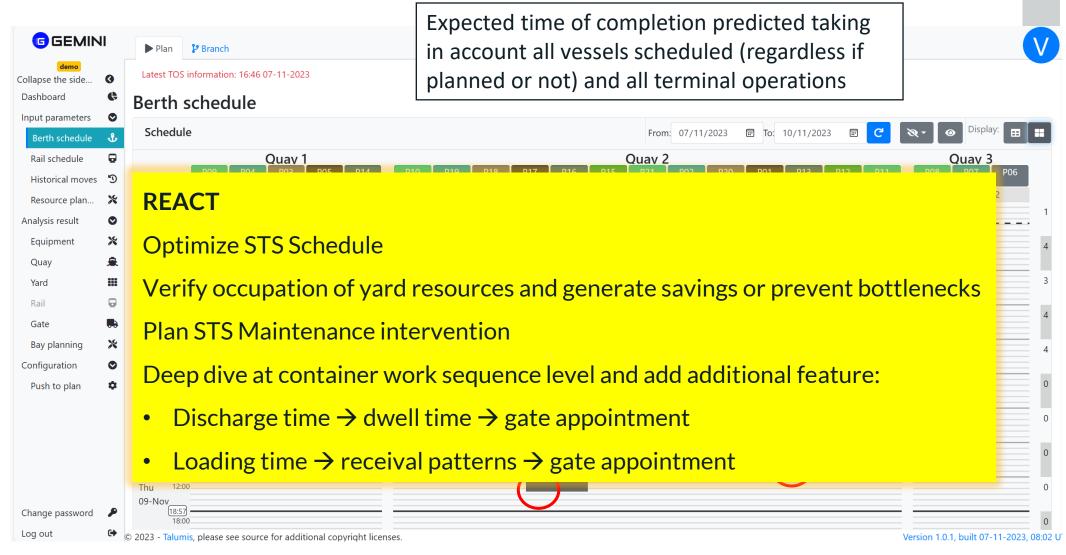






Advanced Predictive Analytics with Digital Holistic Model – Result

Use live and historical data to predict correlated events









Thank you!

TOS CONSULTING





www.dsp.team

