Company Introduction

KOTUG SMIT TOWAGE

Kotug Smit Towage

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SEEMP

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Digitalization

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Tug Energy Efficiency - In Practice

People

- Awareness
- Appraisal
- Training ICT skills

Propulsion

- Design Tug
- Bollard pull tug
- Asset type

Planning

- Lay berth and Route Tug
- Data information
- Dynamic

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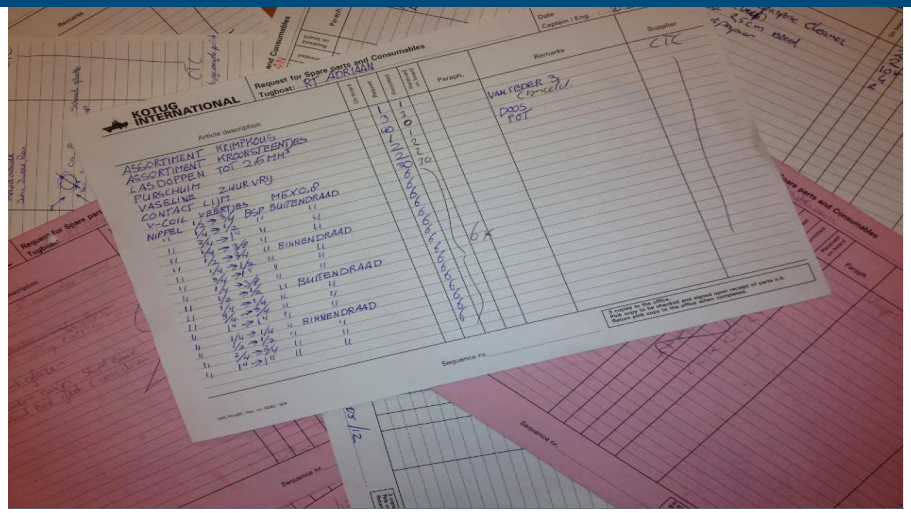
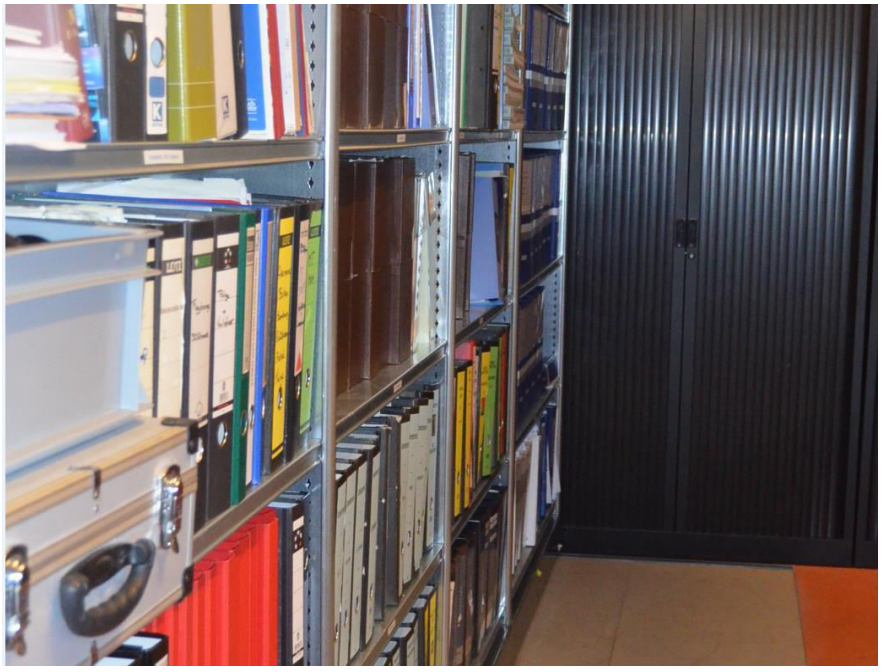
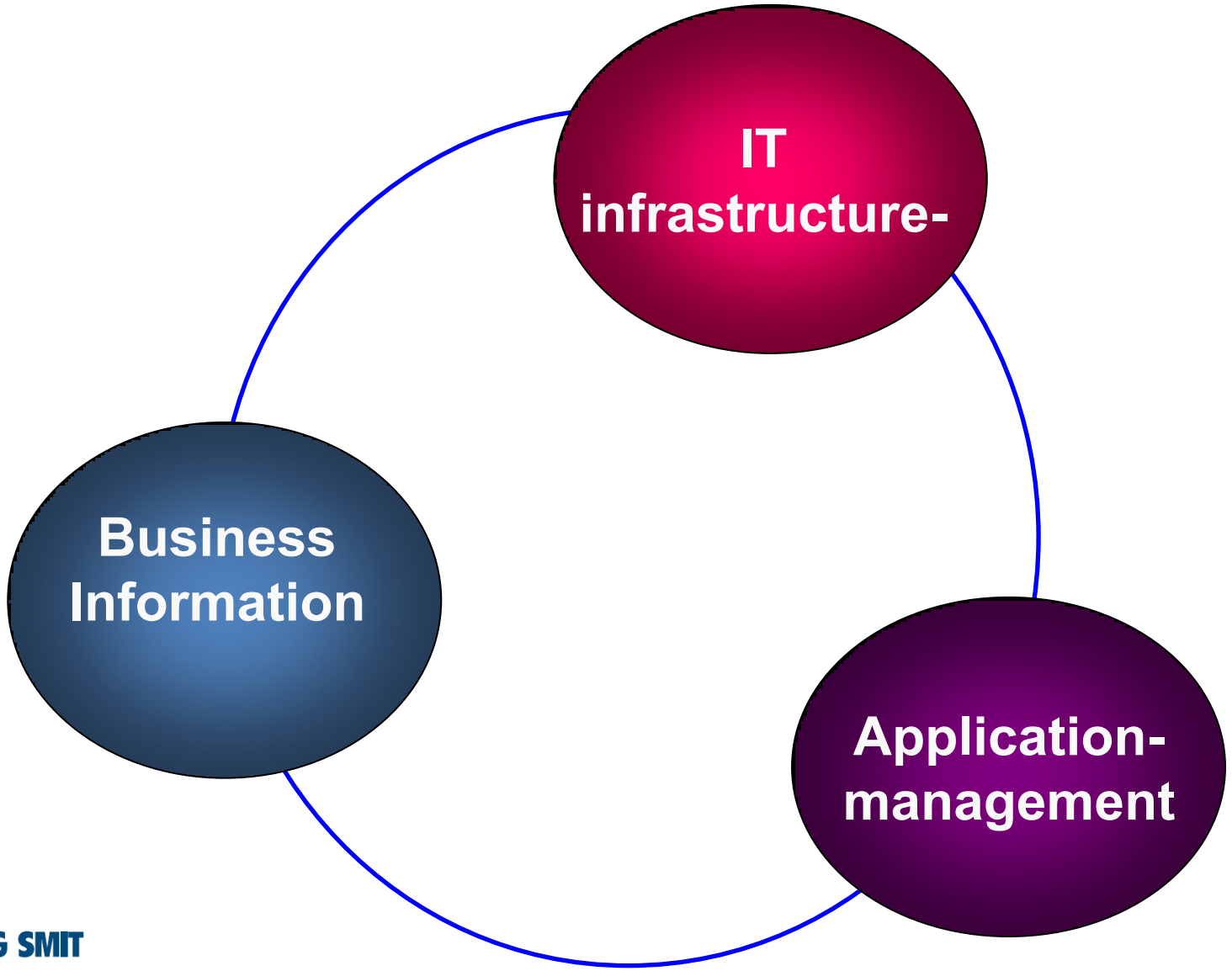
History


KOTUG INTERNATIONAL
Request for Spare parts and Consumables



ICT

ICT Domains



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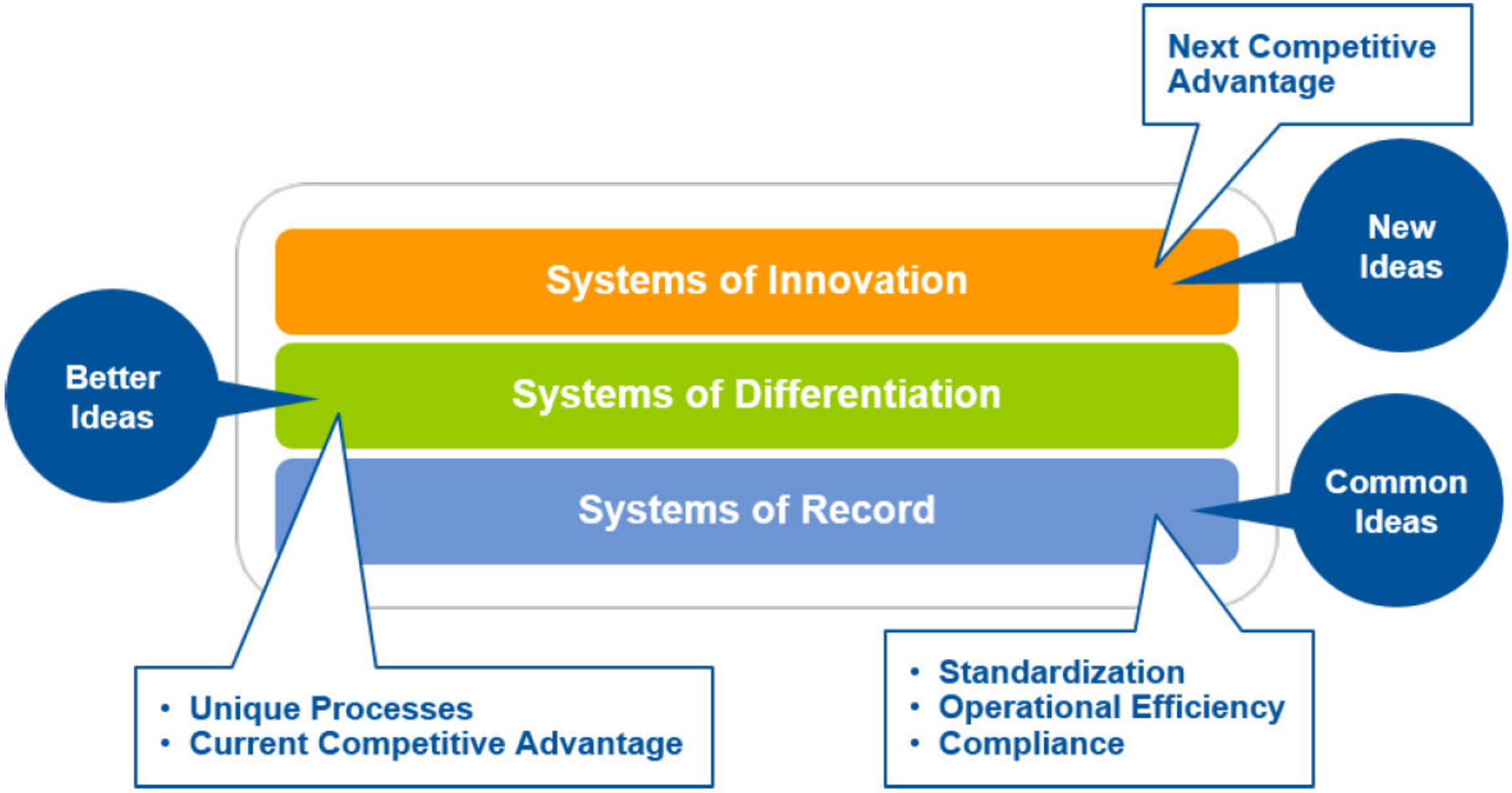
Digitalization



Source: Gartner (April 2015)

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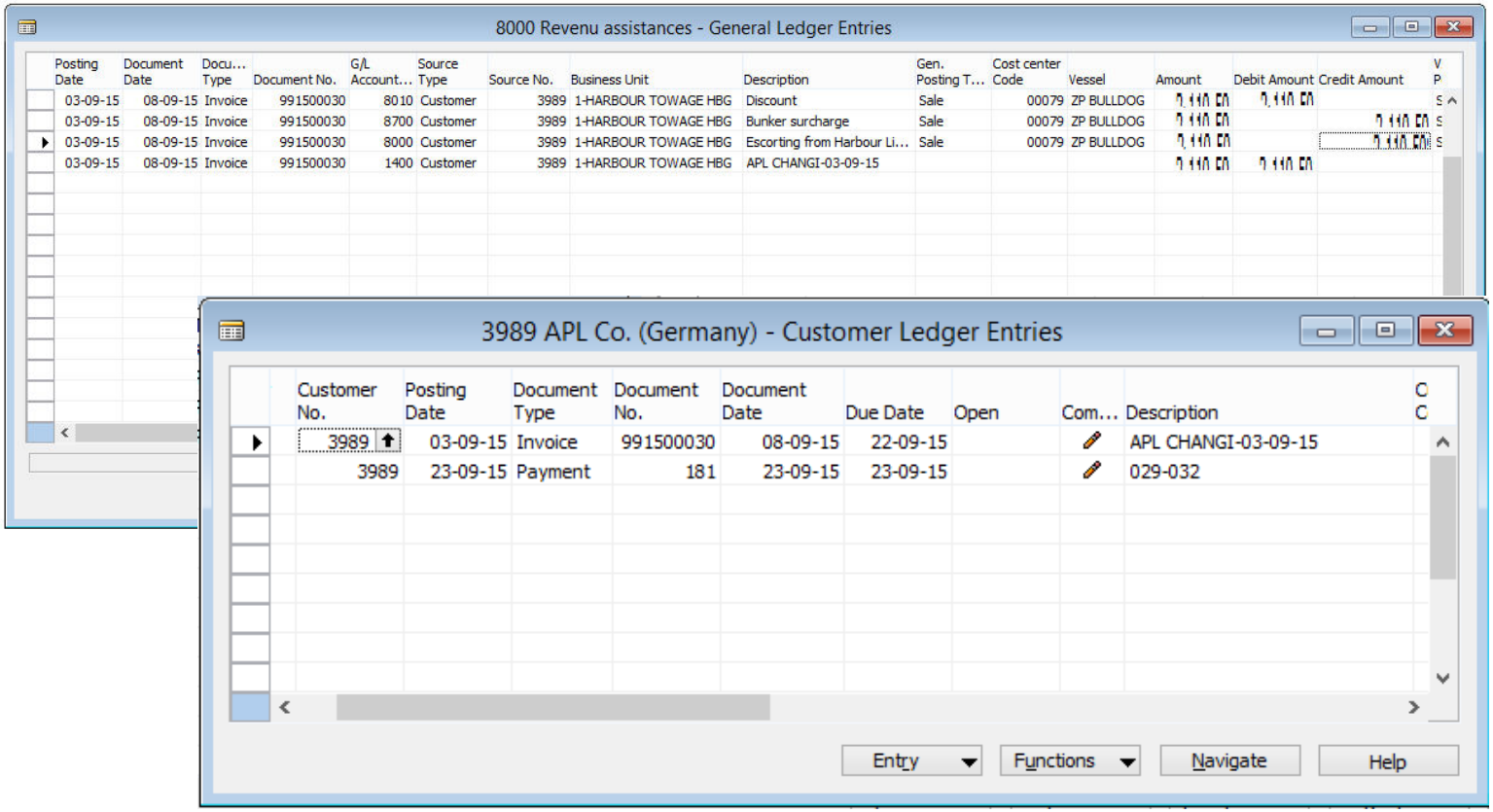
Microsoft Dynamics NAV / Logic Vision / Kotug Smit



- Standardization
- Operational Efficiency
- Compliance

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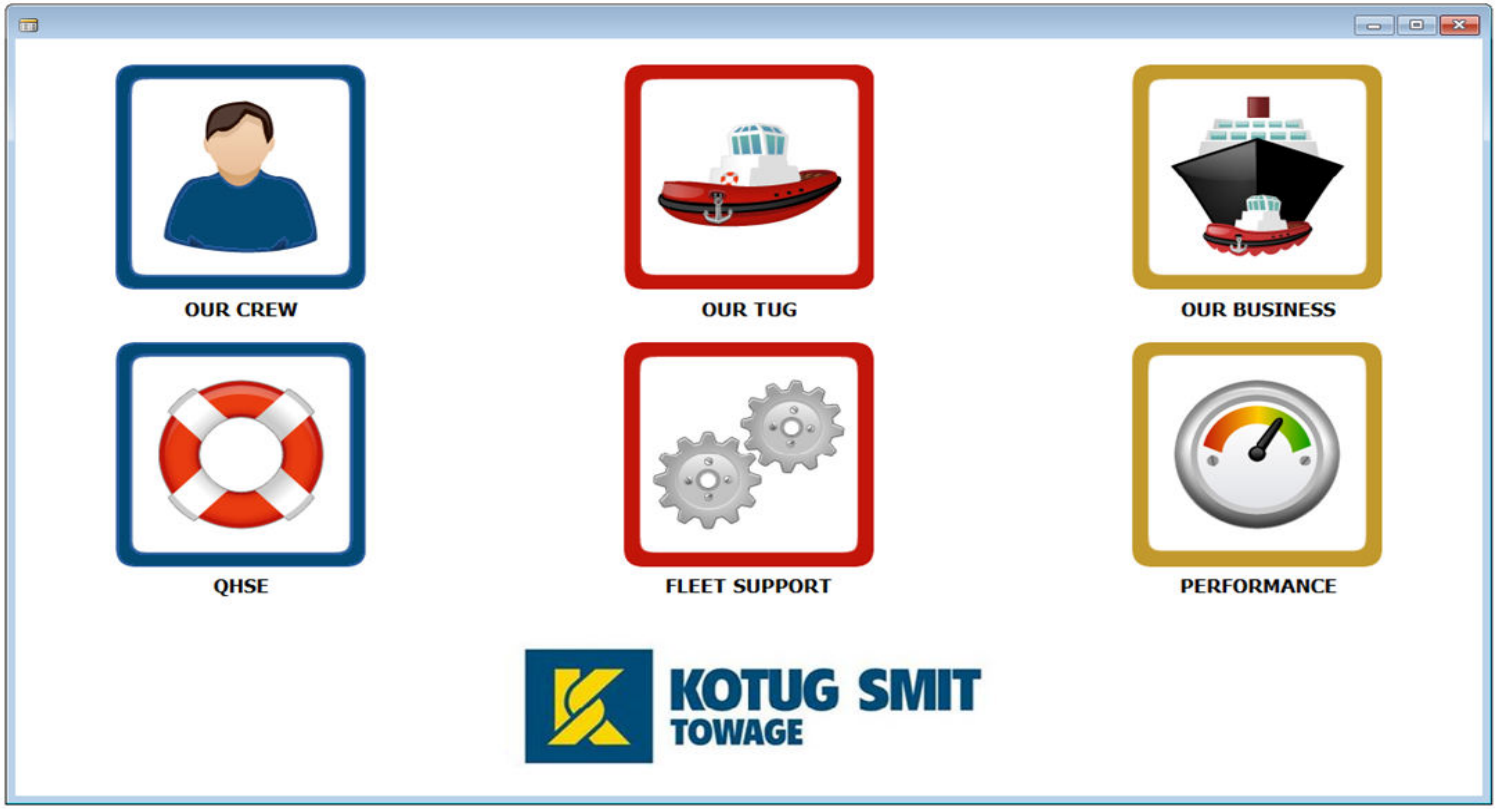
Tug Vision



- Unique Processes
- Current Competitive Advantage

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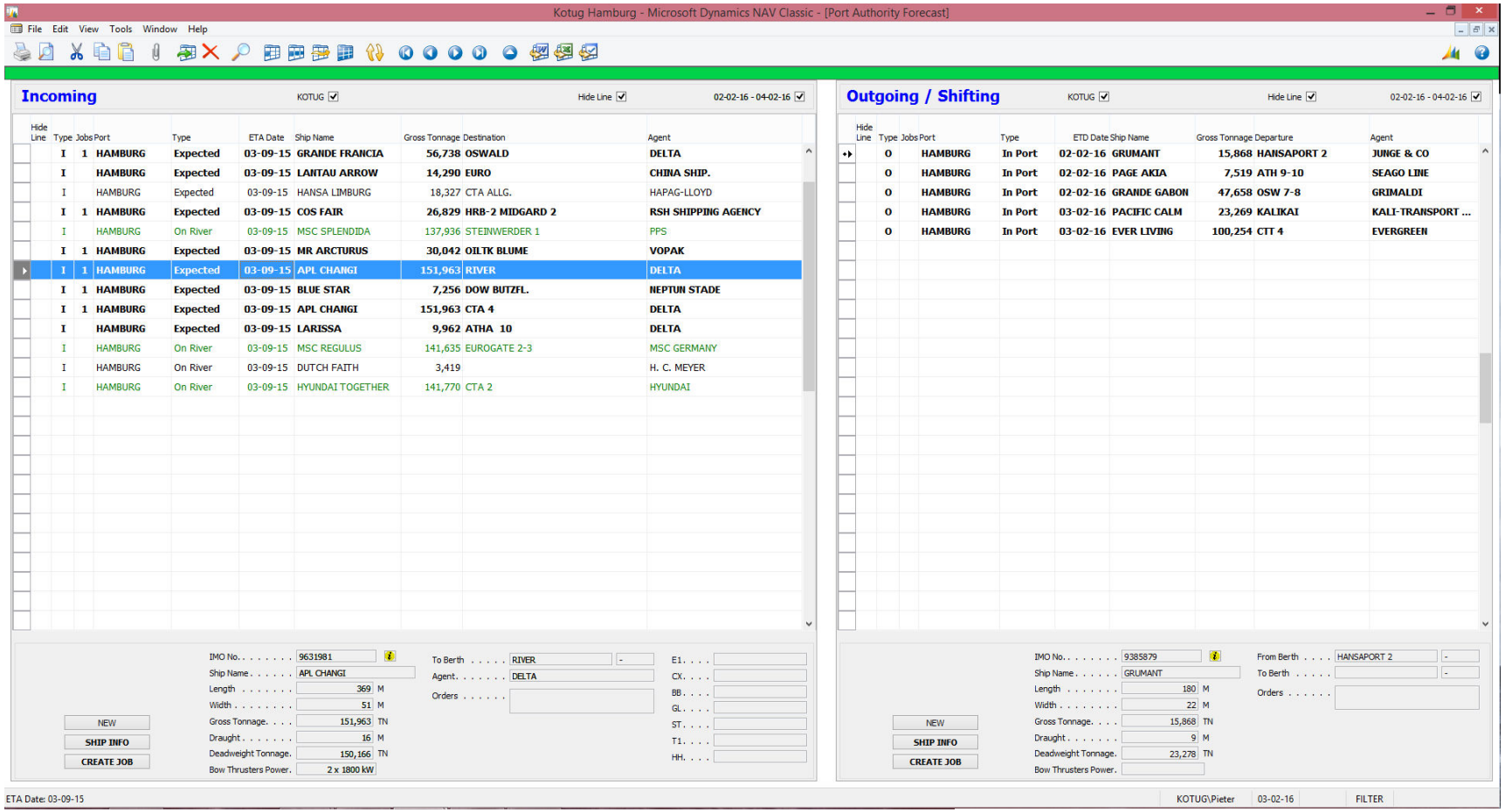
Tug Vision <–> Port Systems



- Unique Processes
- Current Competitive Advantage

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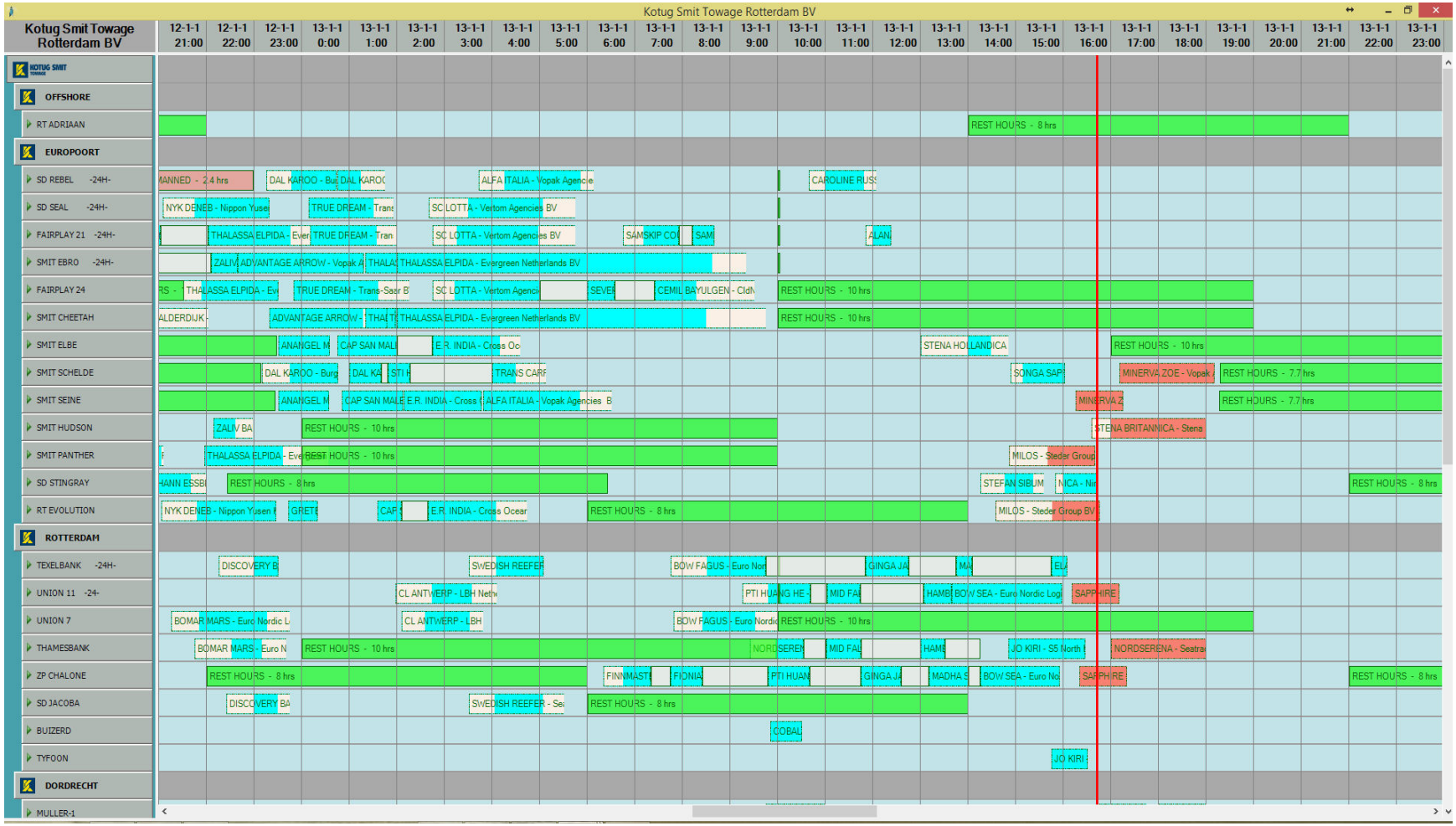
Tug Vision - Planning Board



- Unique Processes
- Current Competitive Advantage

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People make the Difference

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Implementation Digitalization - Future (1)

Advice Planning Tool

- Tool currently being developed
- Common Dispatch: Experience Based Planning
  Idea : To add prediction via AIS/Big Data/Algorithms

Goals:

- Better future ETA and ETD
- Constant update planning vs actuals
- Historic Forecast # of tugs
- Fuel saving due to efficient planning
  (layberth, routing, eco speed)

Implementation Digitalization - Future (2)

Dashboard currently being developed

Fuel consumption, data analysis, tug optimization

Next Competitive Advantage

Systems of Innovation

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What's Next ??

Be prepared and stay ahead

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LEADING IN SAFE HARBOUR TOWAGE

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