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Fremtidens digitale samhandling mellom Skip og VTS

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Introduction

1. Where we are today – Technology wise
2. Current Developments
3. Future Plans and Possibilities

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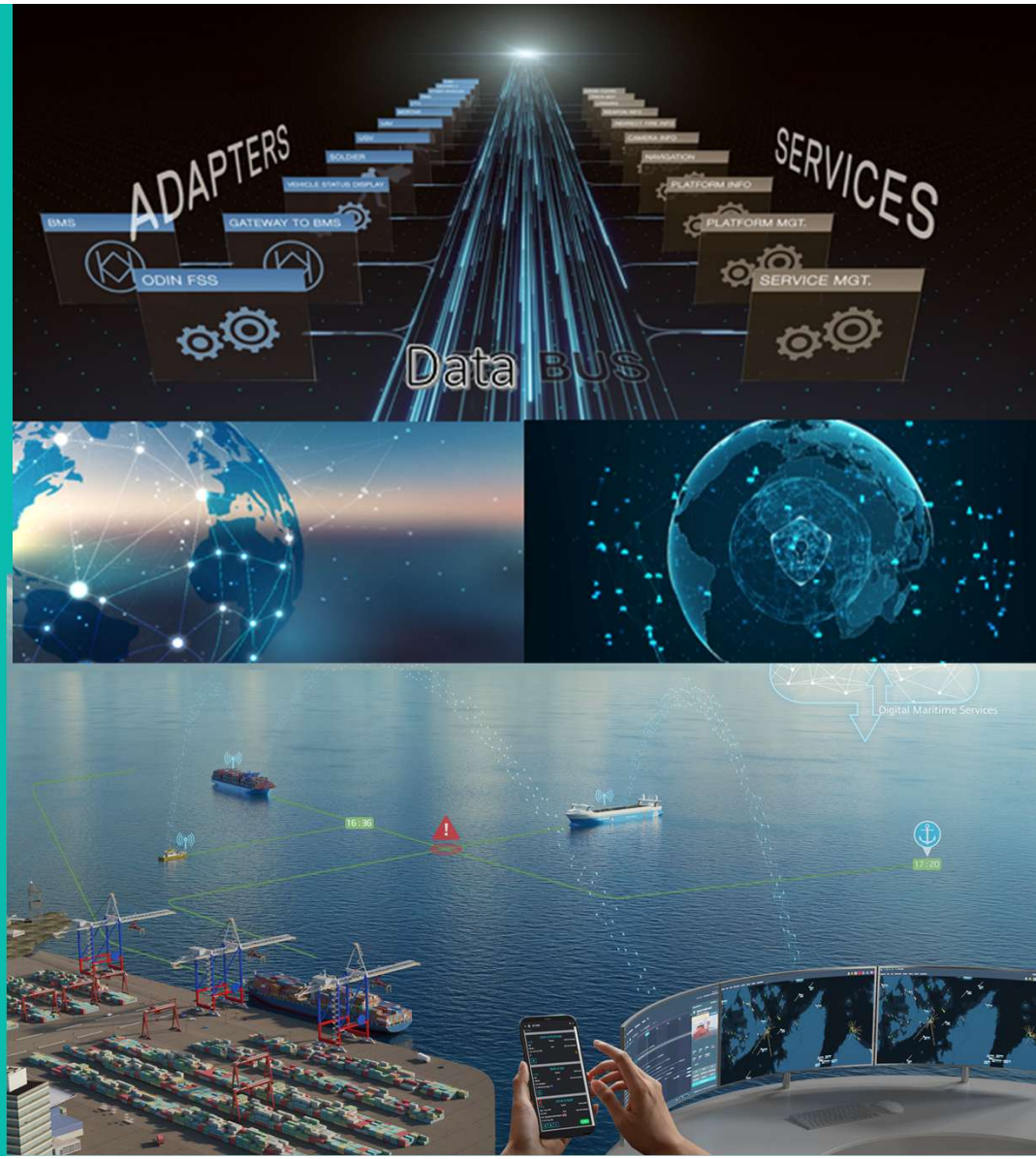
Available data

Where we are (today)

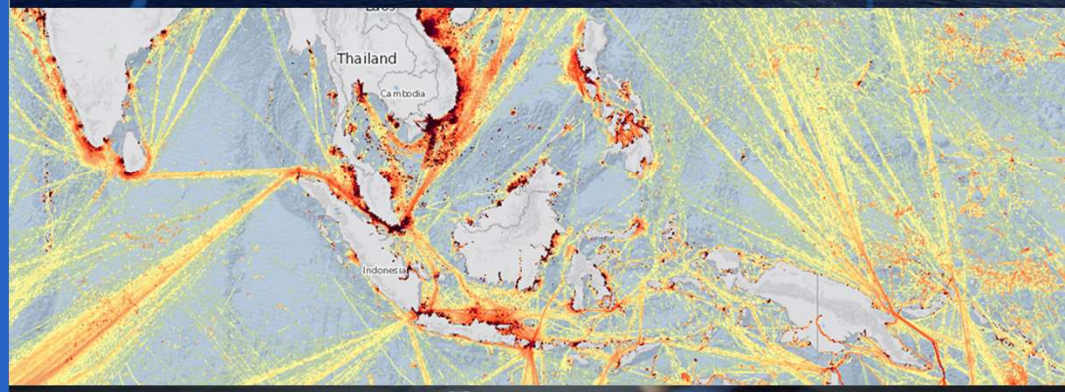
Data Sources

- Maritime Single Window
- Digital Communication
  (Sat com. & VHF Data Exch.)
- Maritime Digital Service (IMO E-navigation)
  - Route Exchange
  - Digital Reporting
- Meteorological / Hydrological data providers
- Port Management System



Utilise Data - Traffic Predictions

- Real-Time or near real-time data
  - Radar, AIS
  - Hydrological / Meteorological
- Historical data / Intelligence data / Static data
  - Recorded real-time data
  - Incidents & logged events
  - Planned activities (Destination, ETA etc.)
  - Vessel data & Voyage data (Draft, length, etc.)
- Reference data
  - Reference routes / Pilot routes
  - Tidal tables, etc.



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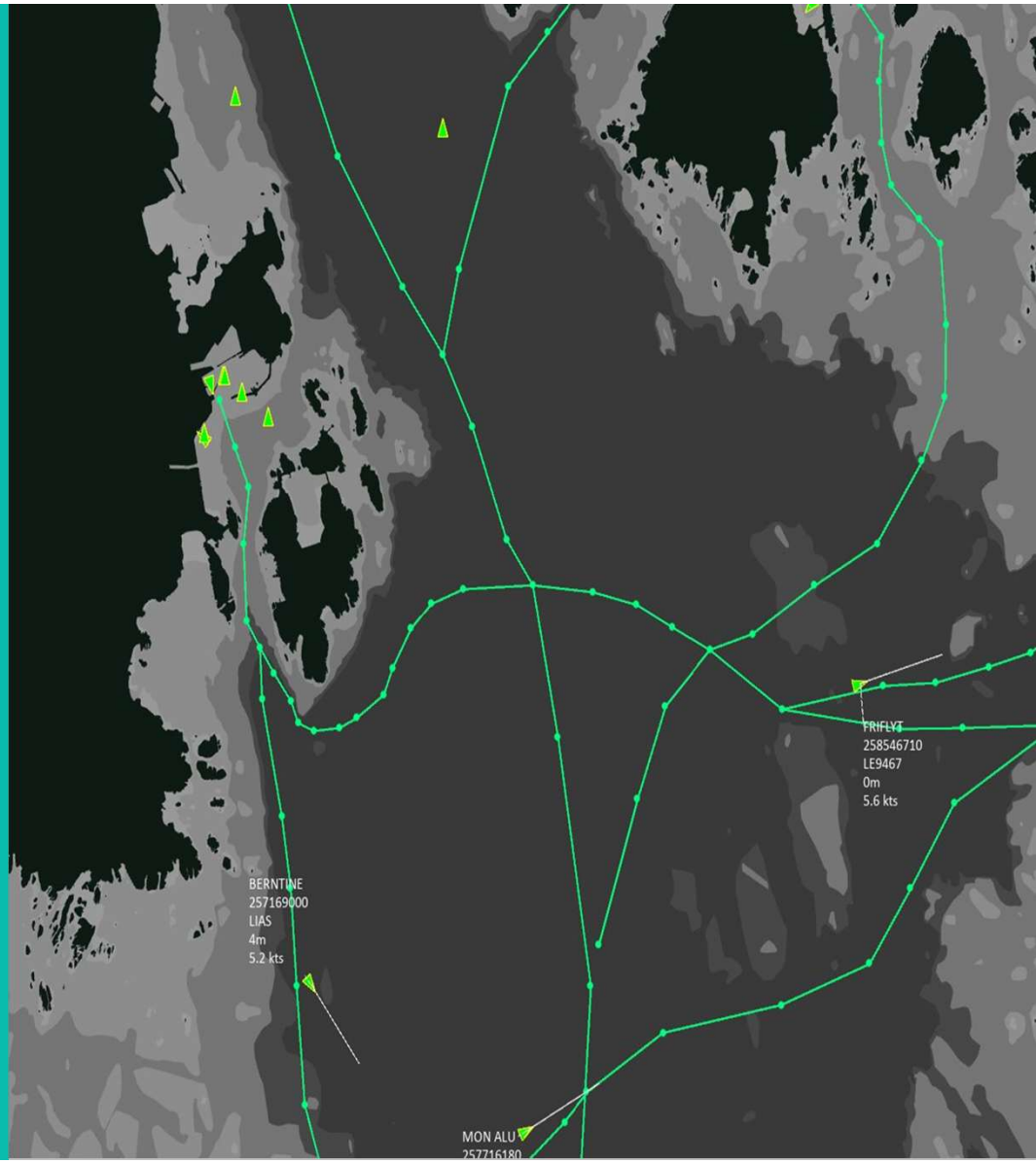
Predicting the Future

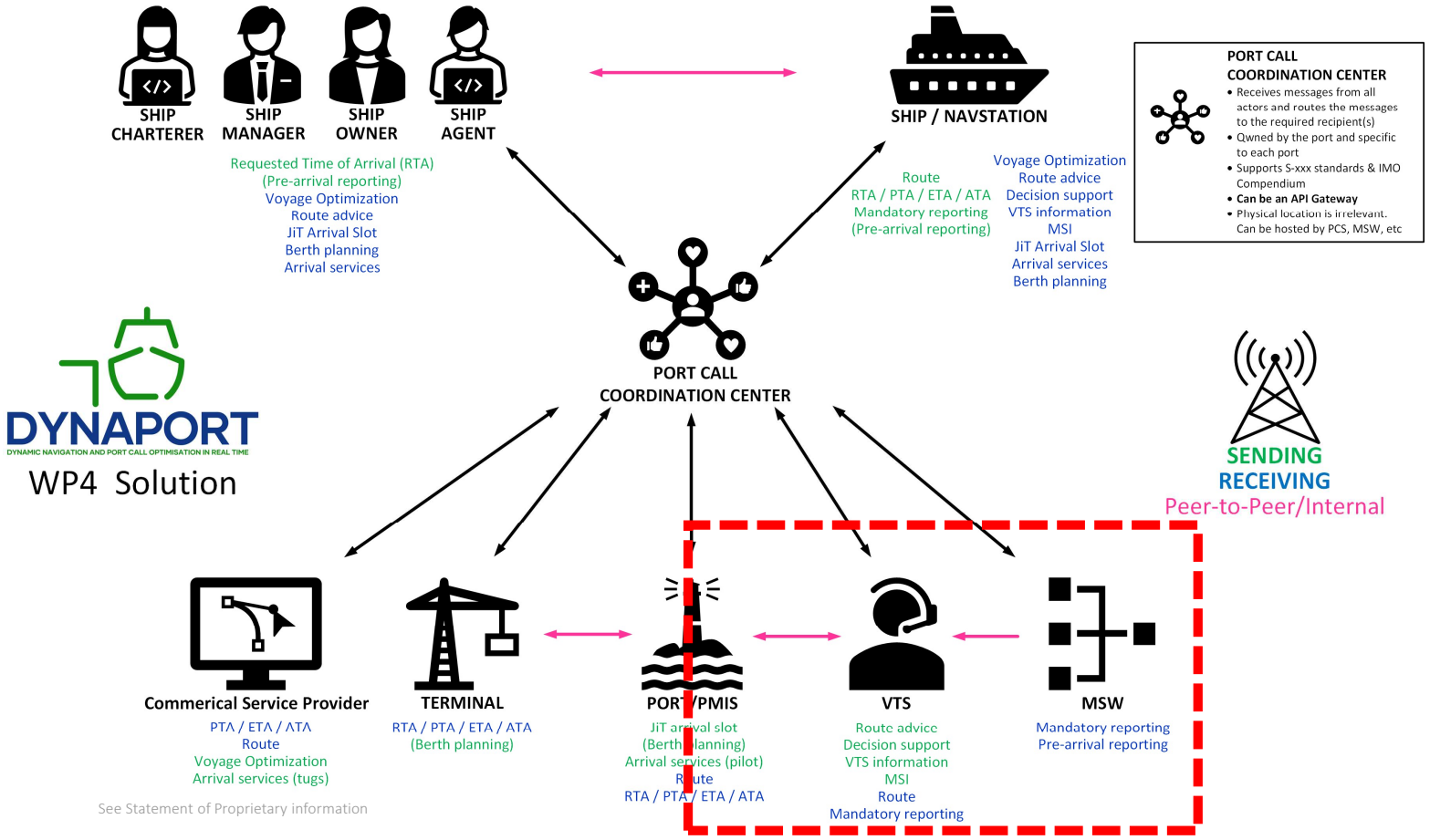
- Route prediction based on:
  - Destination & ETA/ETD (reliable)
  - Reference routes
  - Normal behaviour
- Creating a combined traffic picture for a period ahead
  - Identifying bottlenecks
  - Service provision planning (pilots, tugs etc.)
  - Avoid dangerous situations



Leveraging

- Safety
  - Congestion avoidance
  - Proactive traffic management
- Efficiency
  - Improved Operational Planning
  - Reduced dwell time
- Sustainability
  - Optimised sailing
  - Improved reporting
  - Awareness & Continuous improvement

Future Plans and Possibilities



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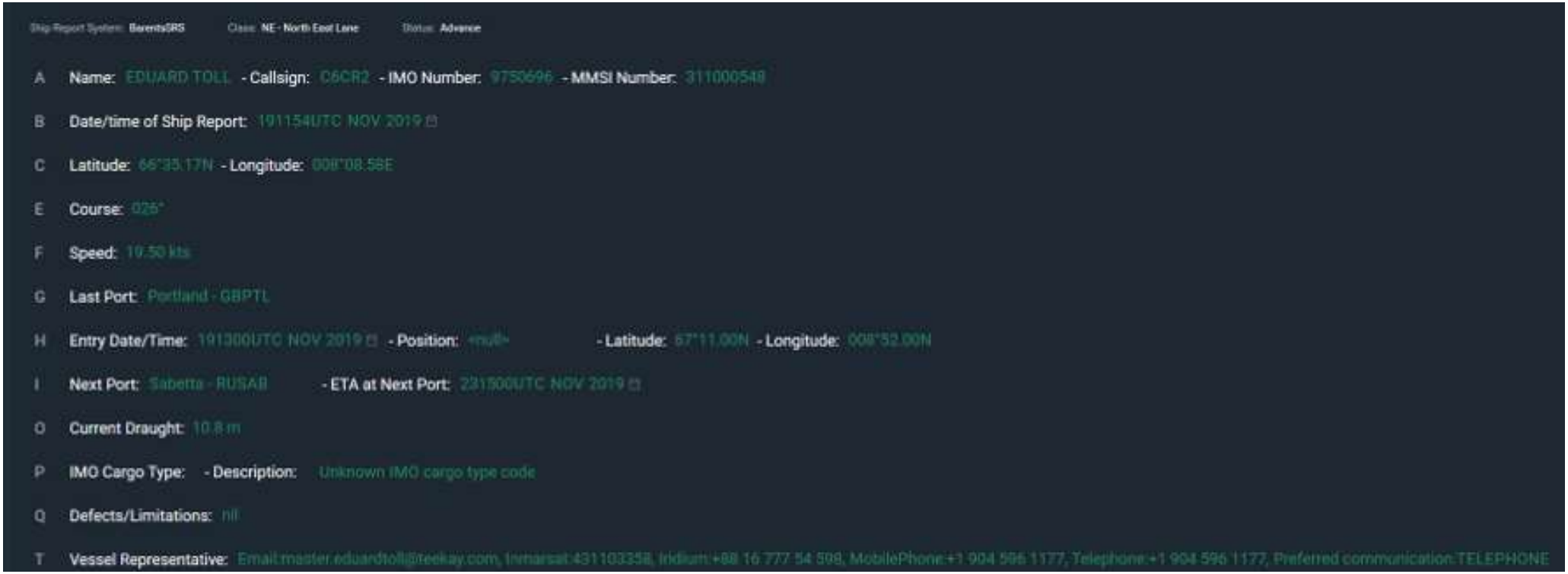
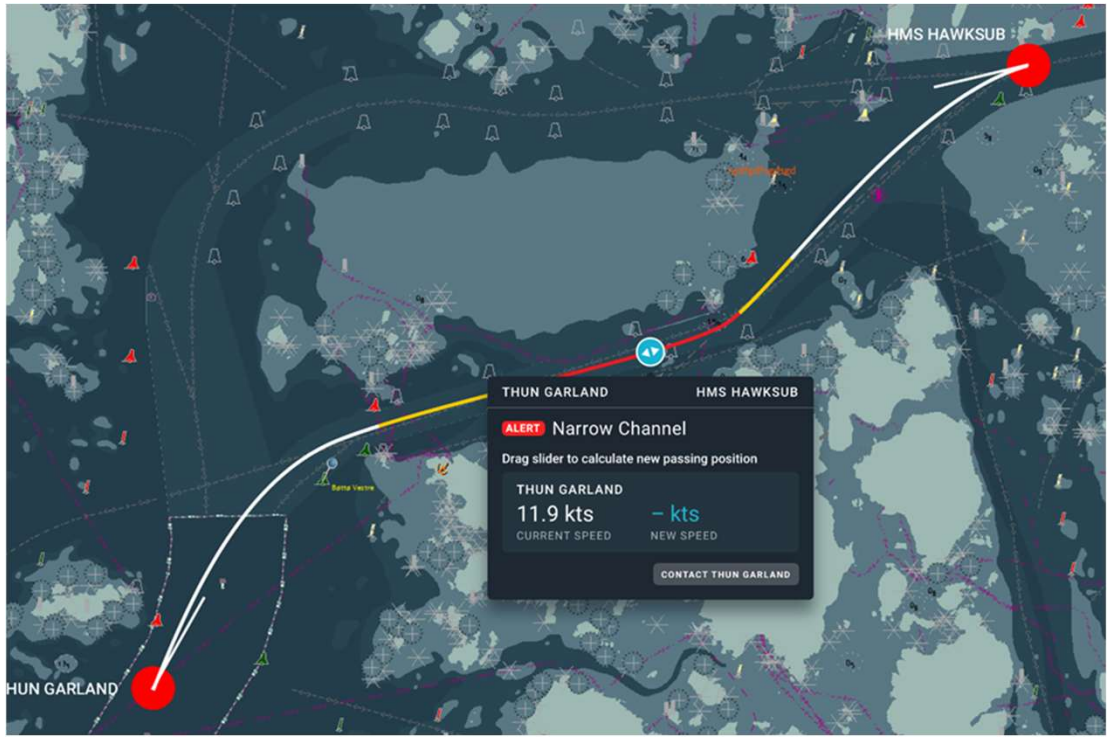
Ship Report for Dover Strait

IMO Ship reporting scheme



Richer data -> More advanced traffic management

- Route exchange enables more advanced non-linear traffic prediction



Thank You

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