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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

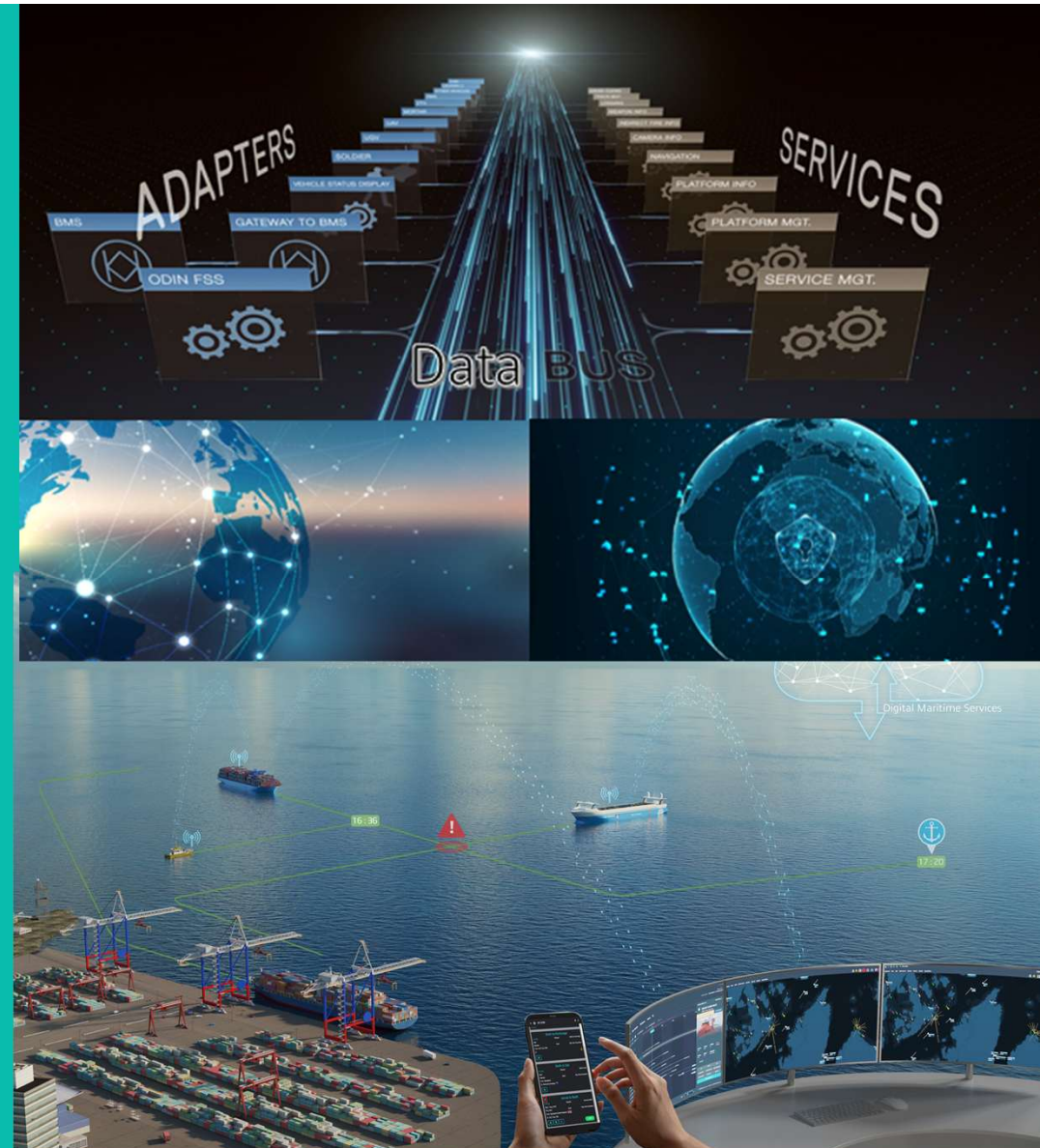


Available data

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



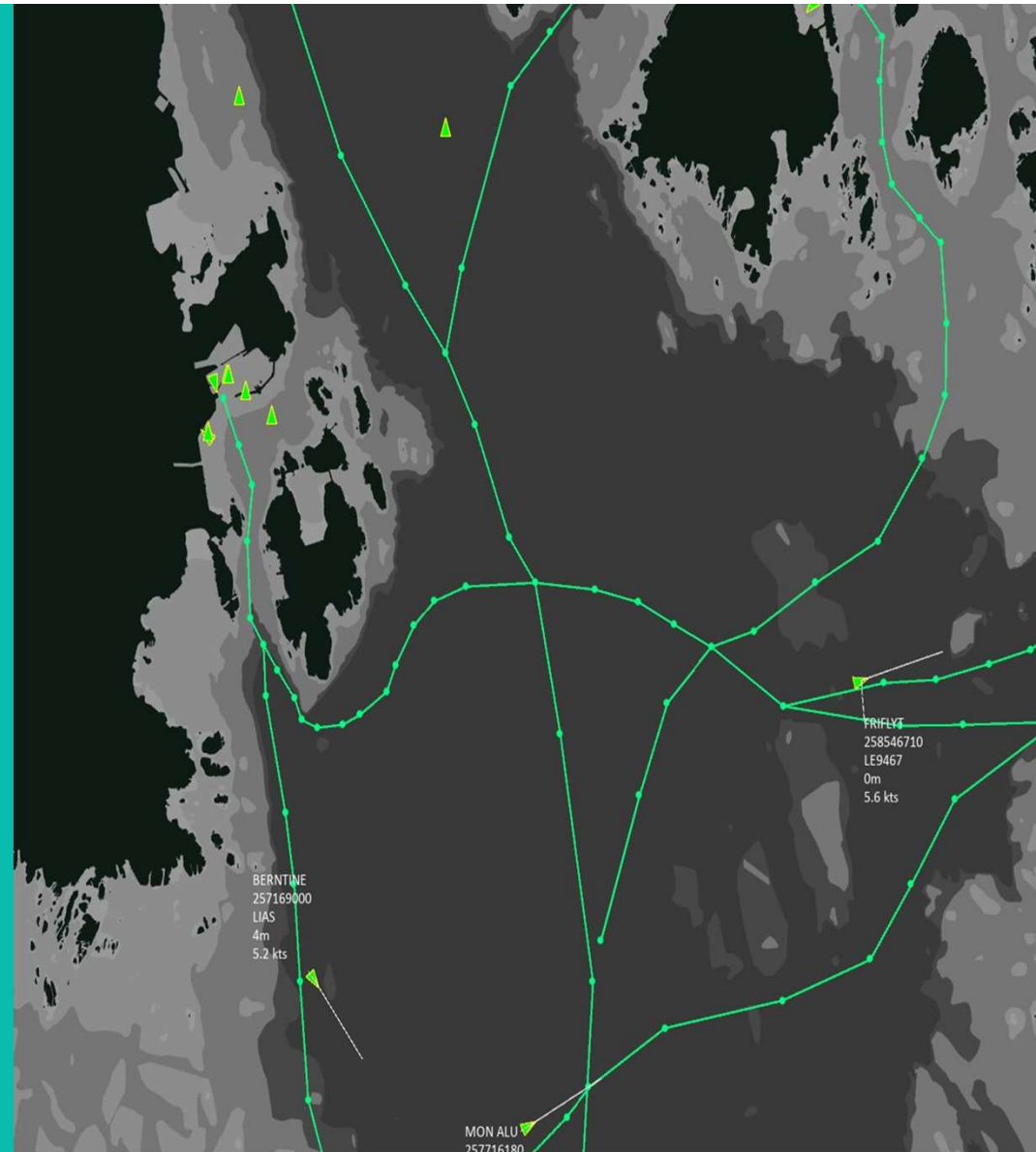
Utilise Data - Traffic Predictions

- 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.



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

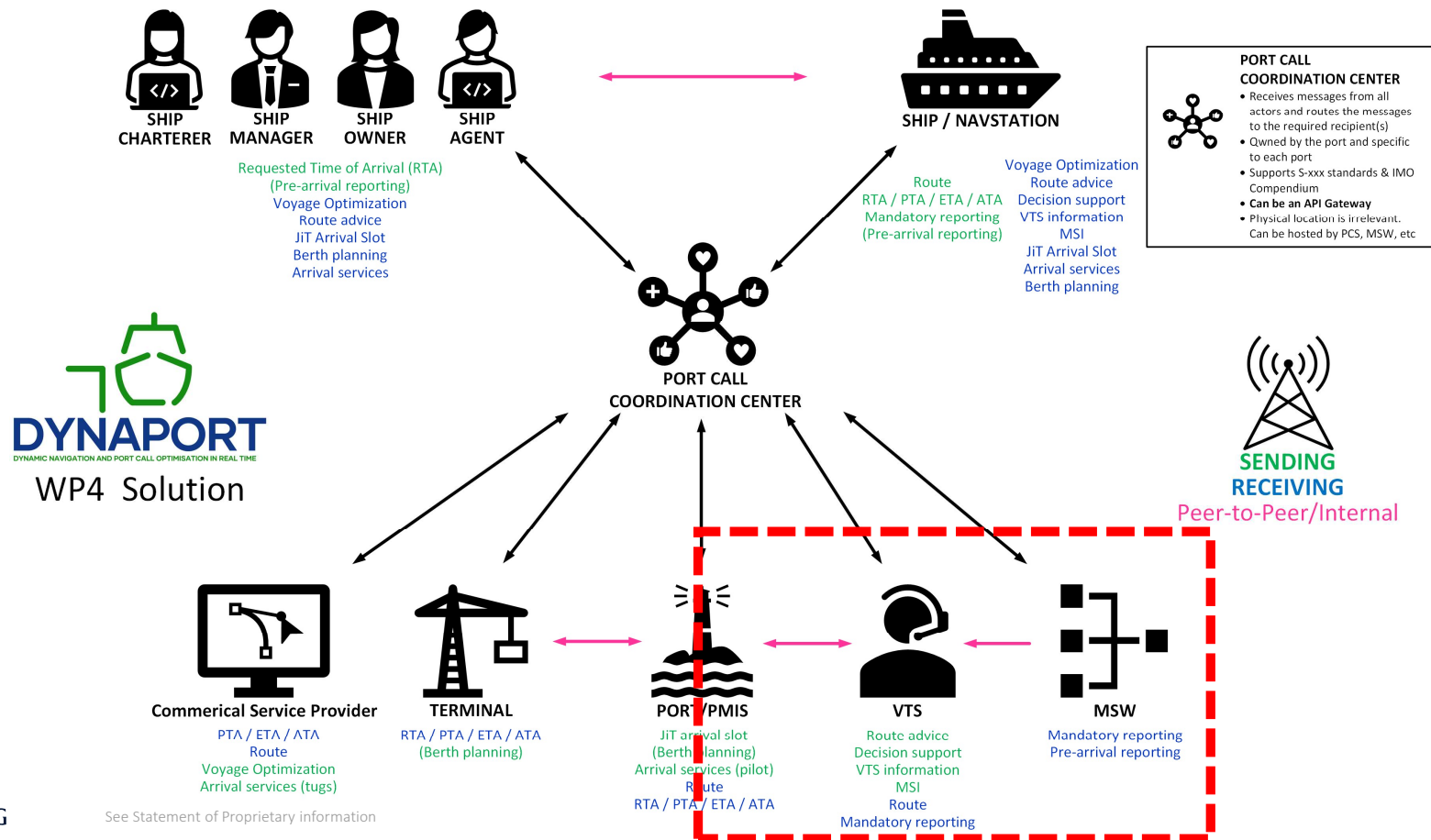


Leveraging

- 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

Ship Report System: BarentsSR5 Class: NE - North East Lane Status: Advance

A Name: EDUARD TOLL - Callsign: O6CR2 - IMO Number: 9750696 - MMSI Number: 311000548

B Date/time of Ship Report: 191154UTC NOV 2019

C Latitude: 66°35.17N - Longitude: 008°08.58E

E Course: 025°

F Speed: 10.50 kts

G Last Port: Portland - GBPTL

H Entry Date/Time: 191300UTC NOV 2019 - Position: <null> - Latitude: 67°11.00N - Longitude: 008°52.00N

I Next Port: Sabetta - RUSAB - ETA at Next Port: 231500UTC NOV 2019

O Current Draught: 10.8 m

P IMO Cargo Type: - Description: Unknown IMO cargo type code

Q Defects/Limitations: nil

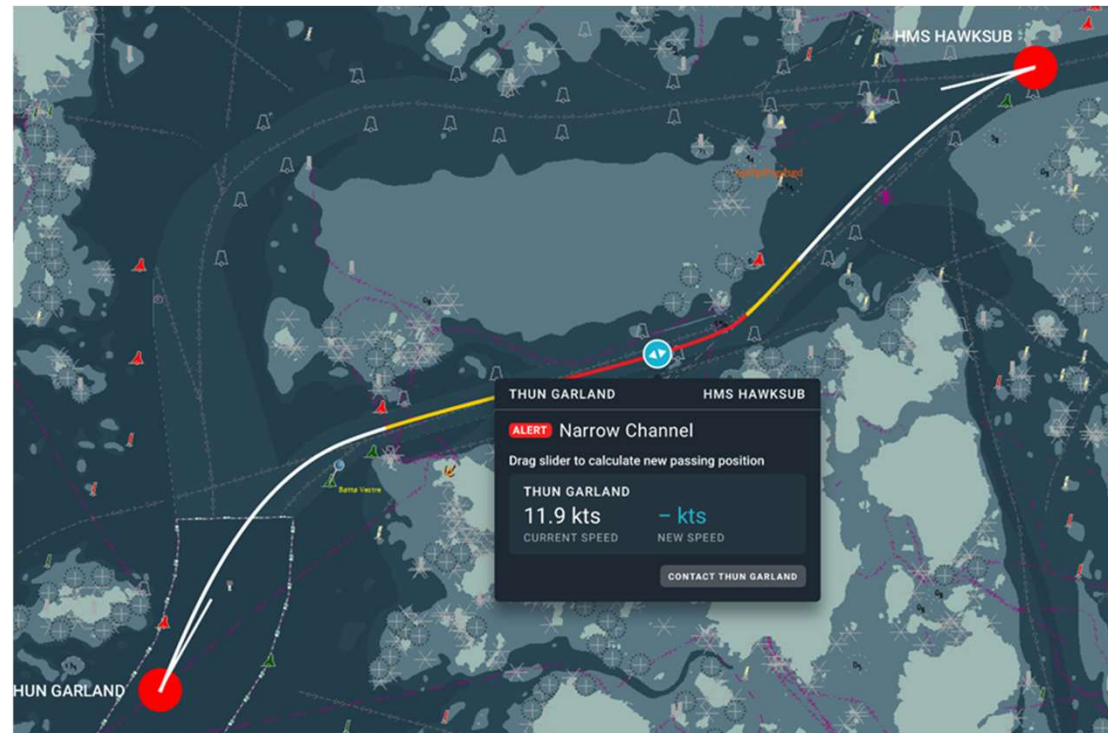
T Vessel Representative: Email: master.eduardtoll@teekay.com, Inmarsat: 431103358, Iridium: +88 16 777 54 598, MobilePhone: +1 904 596 1177, Telephone: +1 904 596 1177, Preferred communication: TELEPHONE



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Richer data -> More advanced traffic management

- Route exchange enables more advanced non-linear traffic prediction



Thank You

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