

PORT CDM ASSIGNEMENT

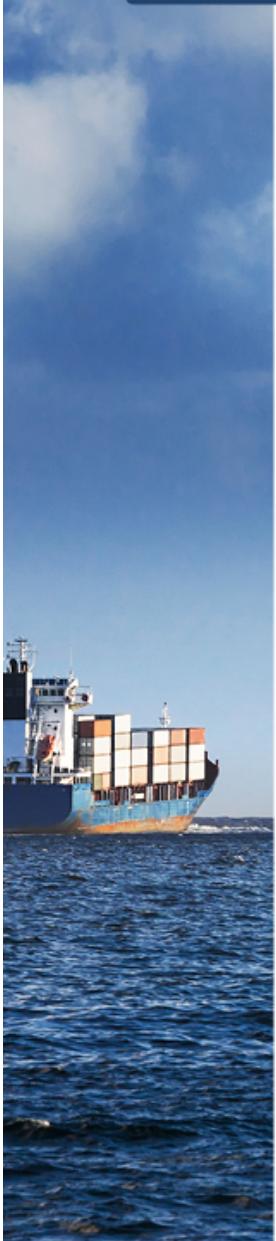


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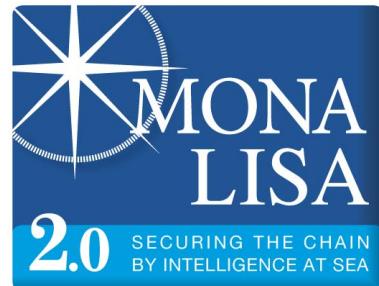


AGENDA

- About STM and PortCDM?
- The assignment, basis and expected deliverables?
- Support and Contact persons?



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MONALISA 2.0 (2013-2015)

- **Definition** of the Sea Traffic Management concept
- 39 Partners
- 24 MEuro

FACTS IN FIGURES



STM validation project (2015-2018)

- **Validation** of the Sea Traffic Management concept
- 57 partners
- 43 MEuro



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Project Beneficiaries

Public sector

Swedish Maritime Administration (SE)
Swedish Meteorological and Hydrological Institute (SE)
Danish Maritime Authority (DK), Ministry of Infrastructure and Transport (IT)
Ministry of Transport and Communications (FI)
SASEMAR (ES)
Norwegian Coastal Administration (NO)
Port Authority of Valencia (ES)
Port Authority of Barcelona (ES)

Private sector

Valencia Port Foundation (ES)
Carnival Corporation (UK)
Costa Crociere (IT)
CIMNE (ES)
GS1 (SE)
HiQ (SE)
TRANSAS (IE)
Furuno (FI)
SAAB (SE)
Jeppesen (DE)
Navicon (DK)
Signalis (DE)
Frequentis (AT)
SAM-Electronics (DE)
Svitzer (SE)
Magellan (PT)

Academia

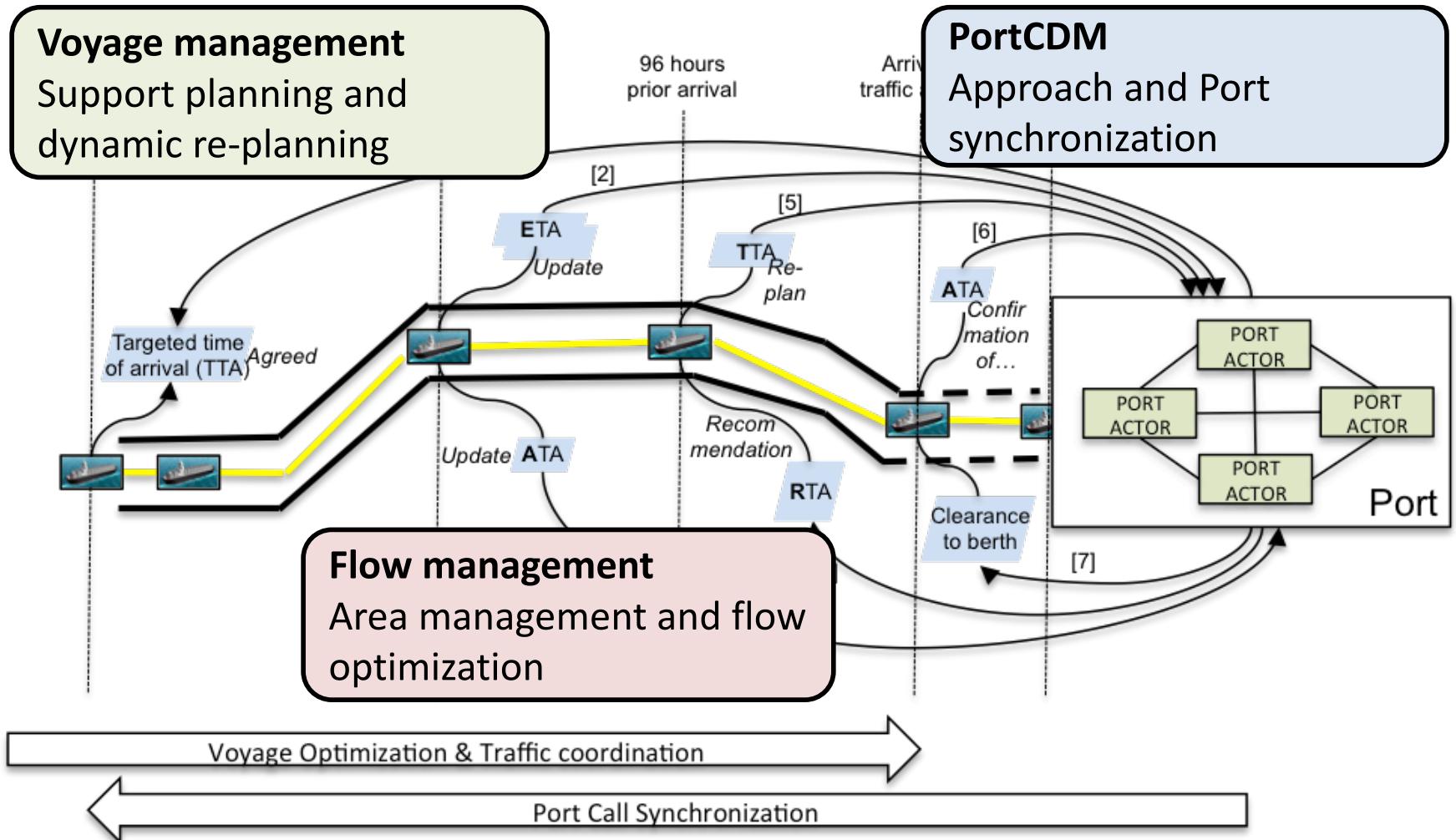
Chalmers University of Technology (SE)
Novia University of Applied Sciences (FI)
Southampton Solent University (UK)
University of Southampton (UK)
University of Flensburg (DE)
Maritiem Instituut Willem Barentsz (NL)
Cyprus University of Technology CY)
OFFIS (DE)
University of Oldenburg (DE)
SSPA (SE)
Polytechnical University of Catalonia (ES)
Fraunhofer CML (DE)
Rörvik Maritime Safety Center (NO)
Viktoria Swedish ICT (SE)

Associated partners: Port of Gothenburg, Kvarken Ports (Umeå/Vaasa), IBM, Ericsson, Cygate, Raytheon, Kongsberg UK Hydrographic Office, BIMCO, SSAB, Rheinmetall, STENA



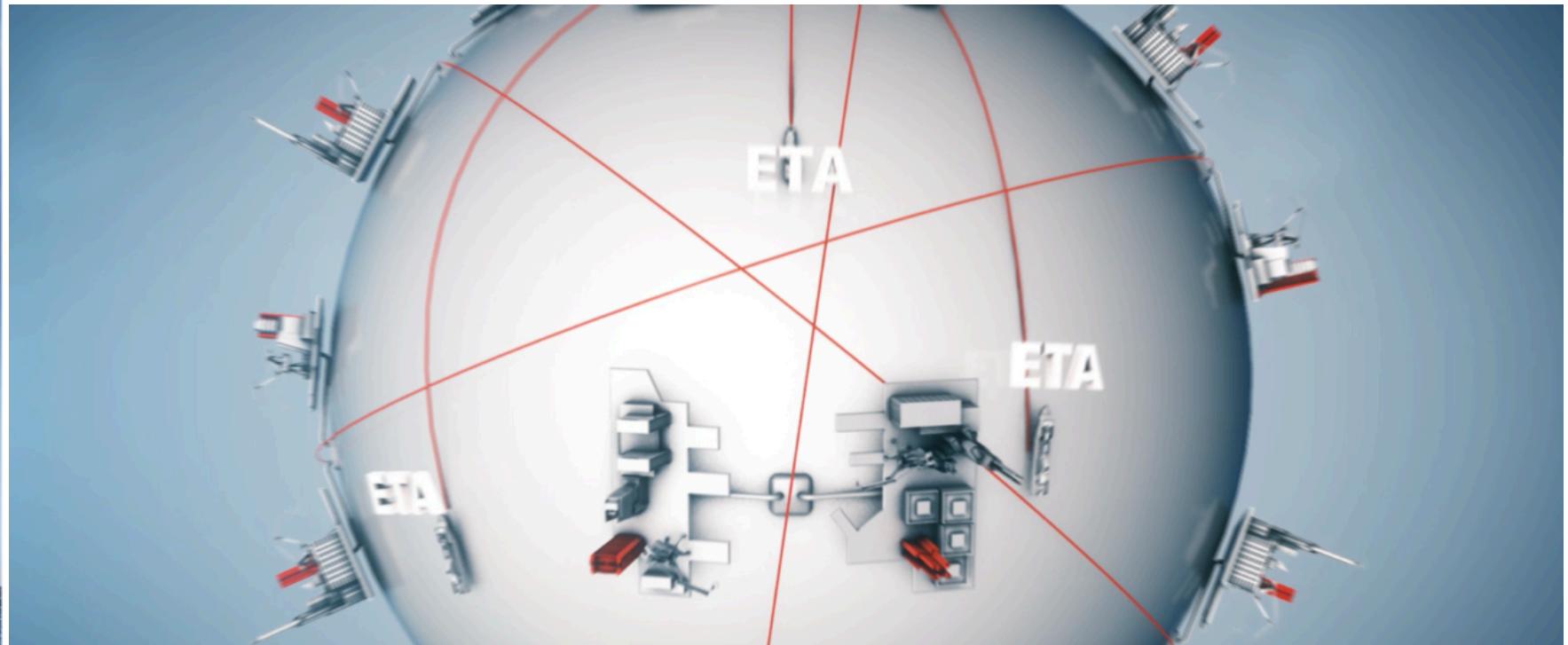
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STM STRATEGIC CONCEPTS & OPERATIONAL SERVICES





PortCDM – the movie



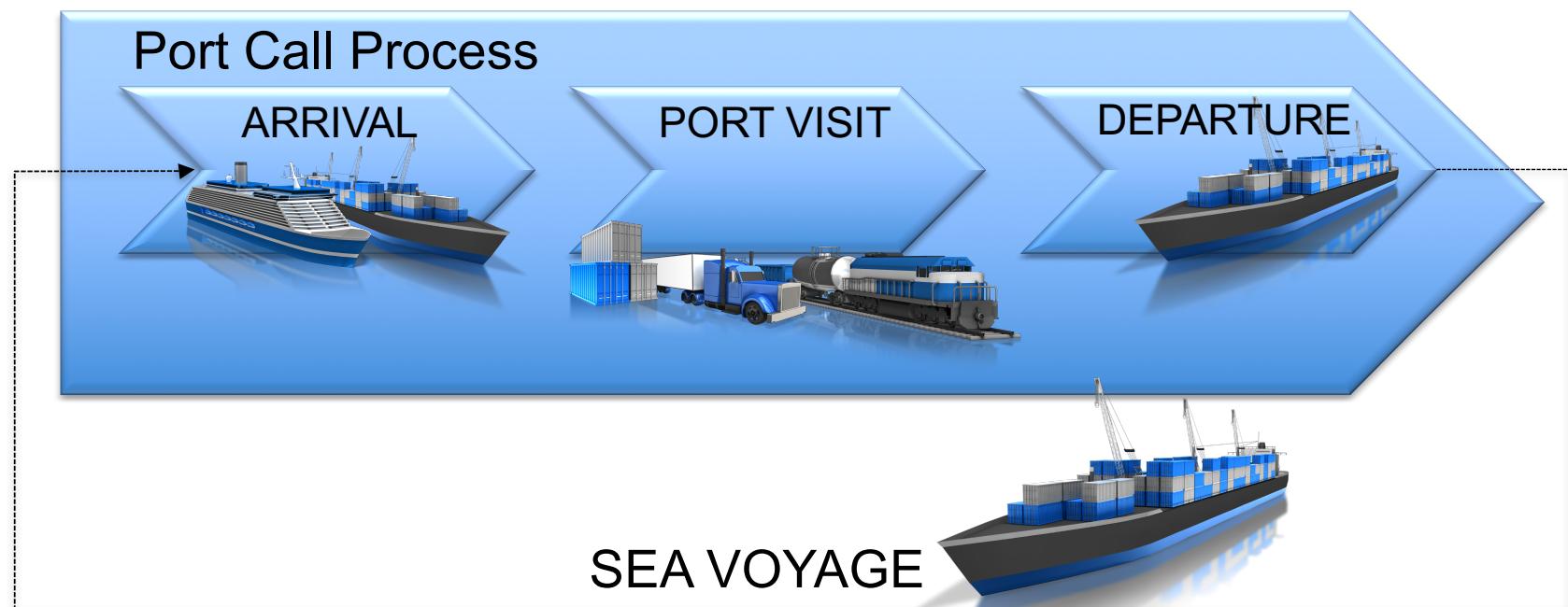
<https://www.youtube.com/watch?v=ZS5SjDAoI90&t=24s>



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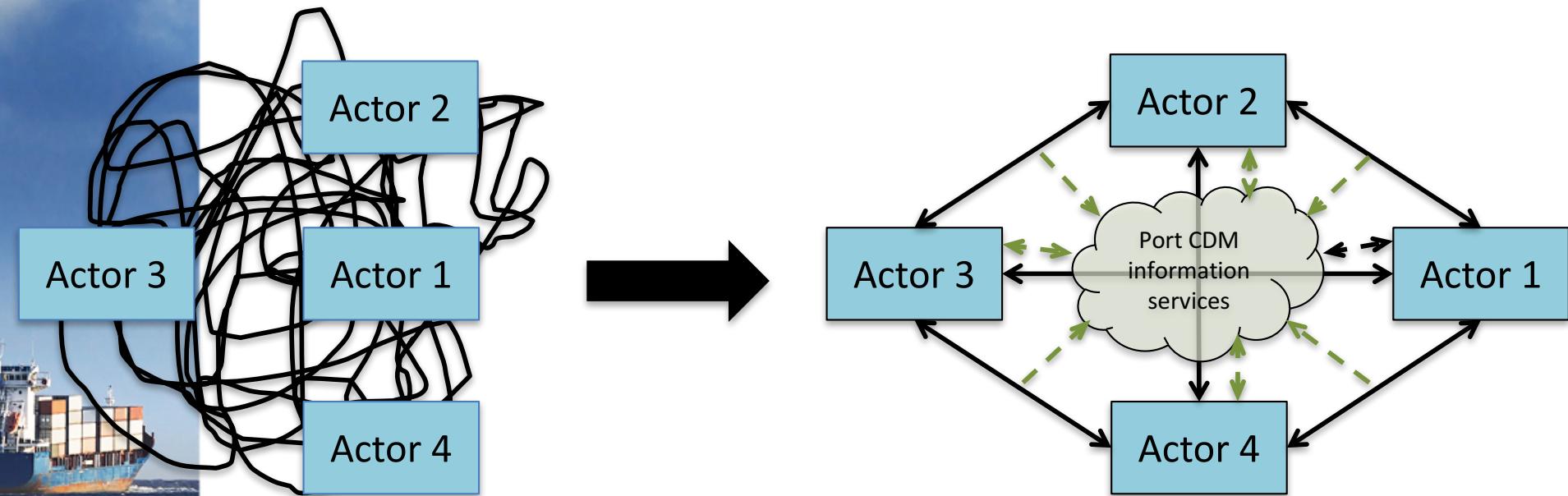
Port Call Process



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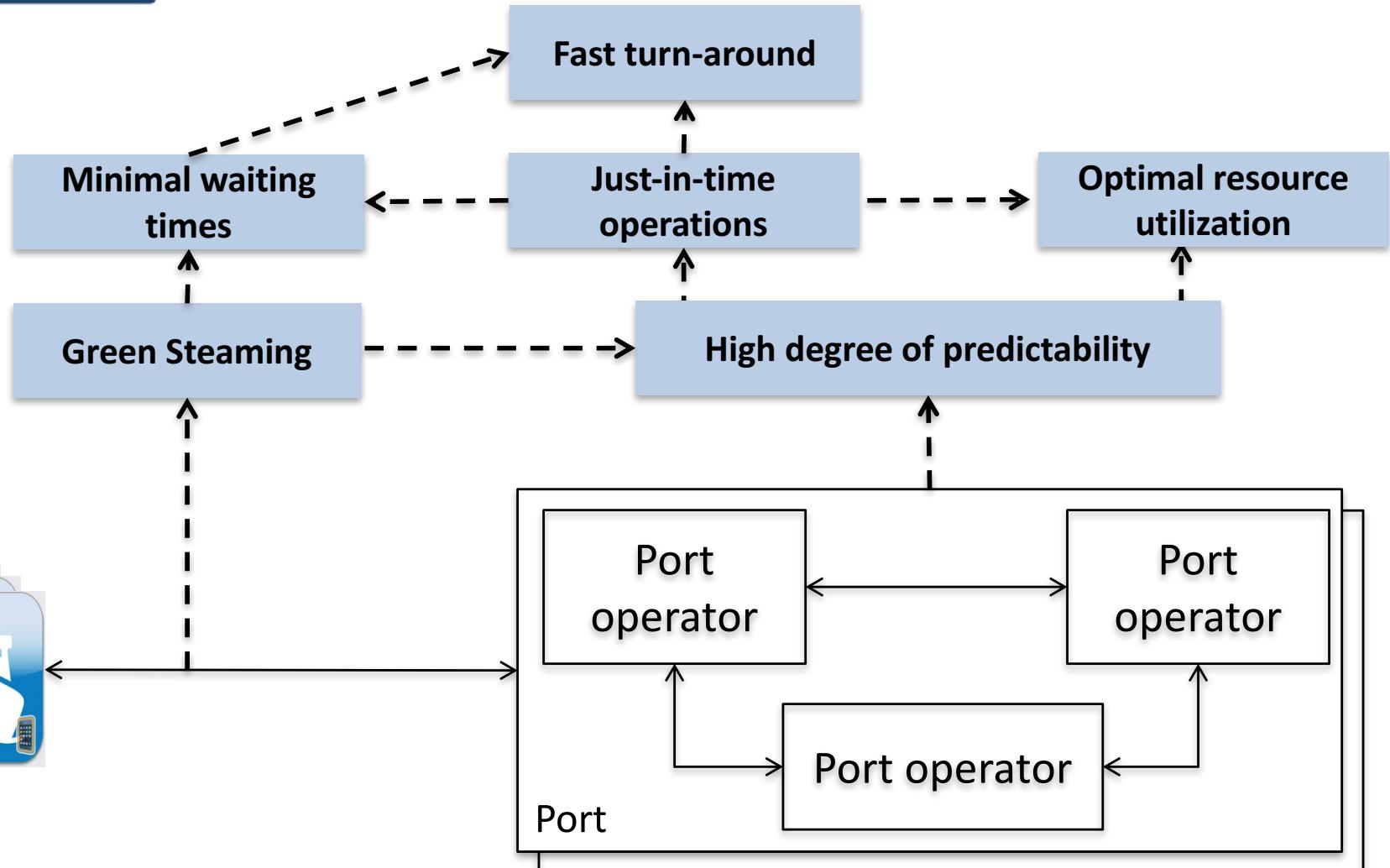


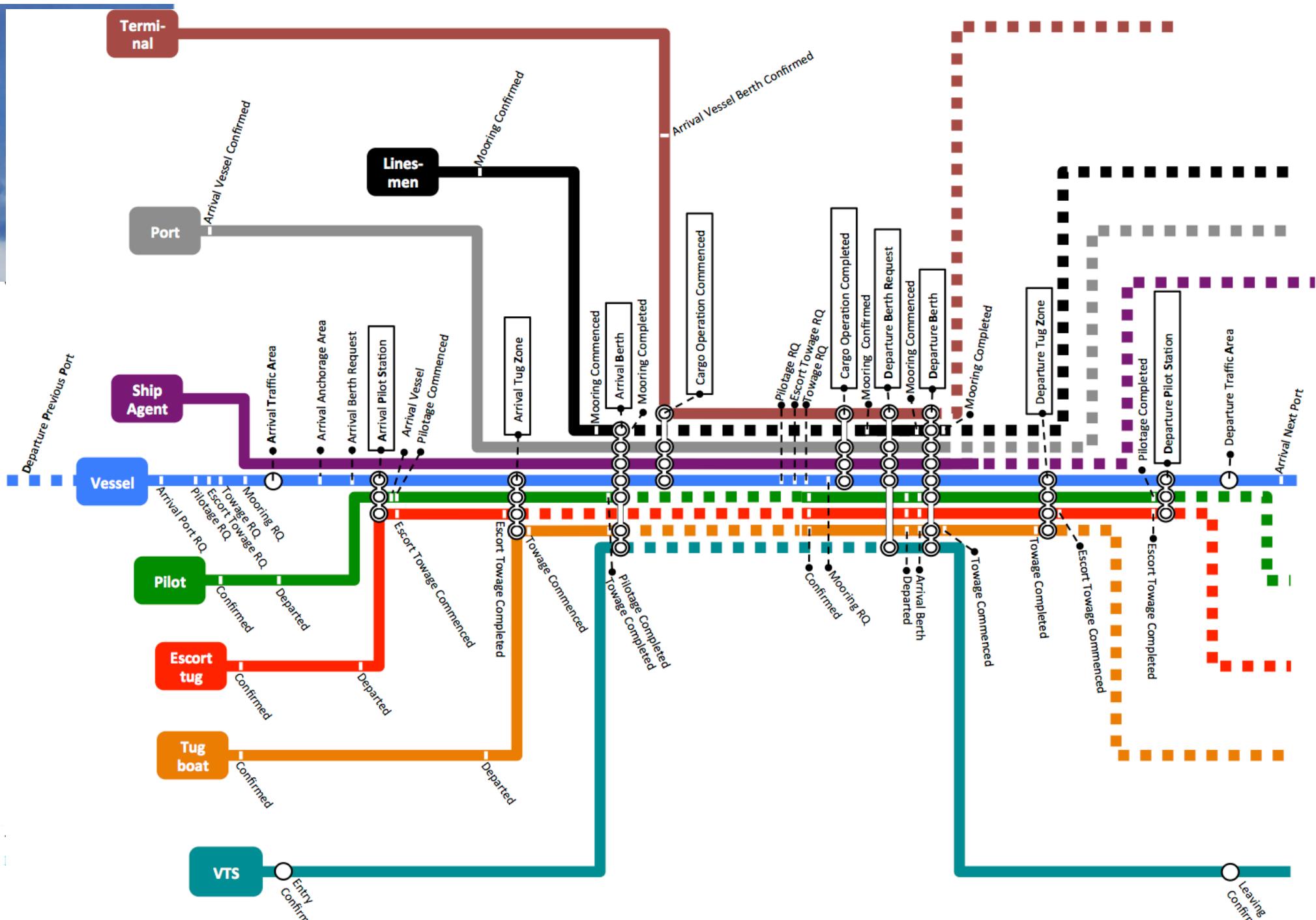
Towards common instant information sharing



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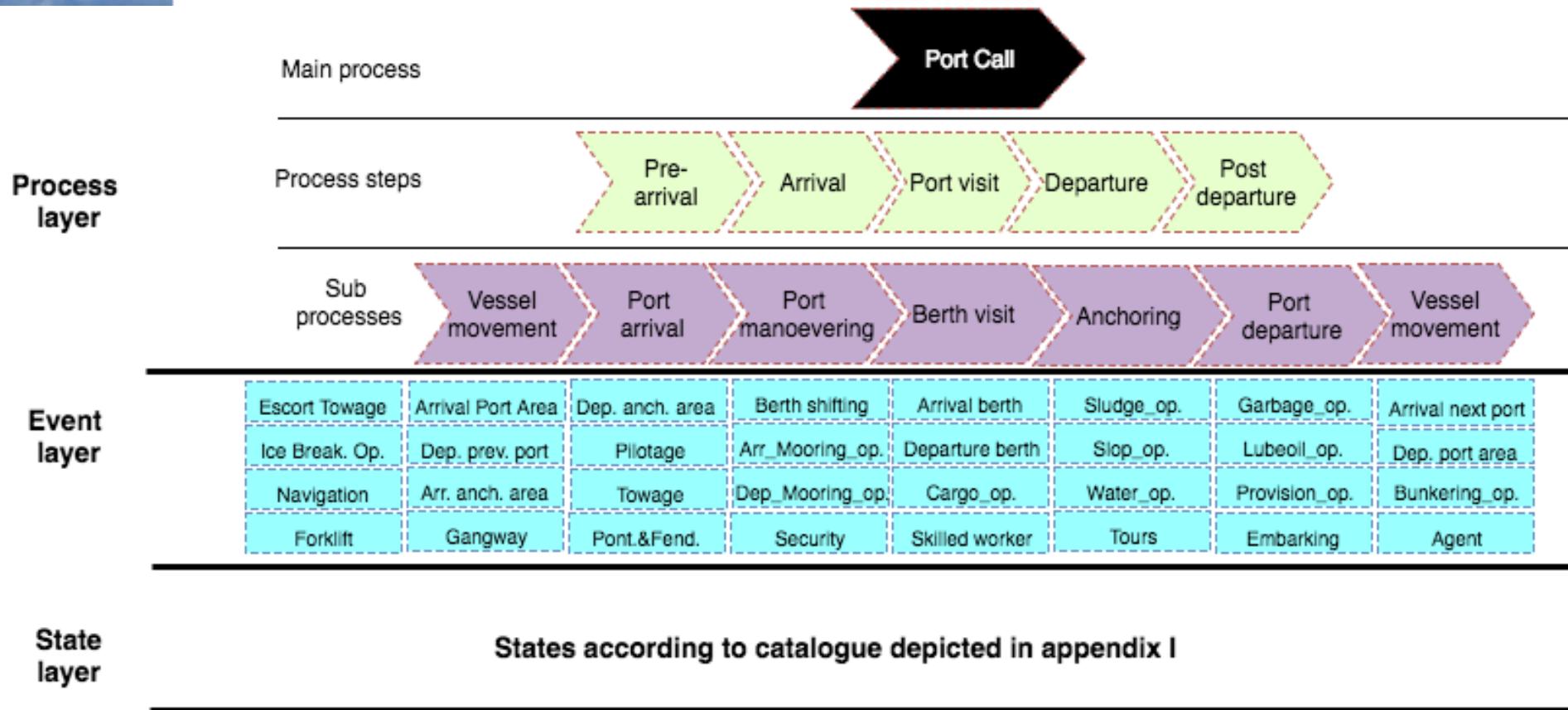
OBJECTIVES OF PortCDM



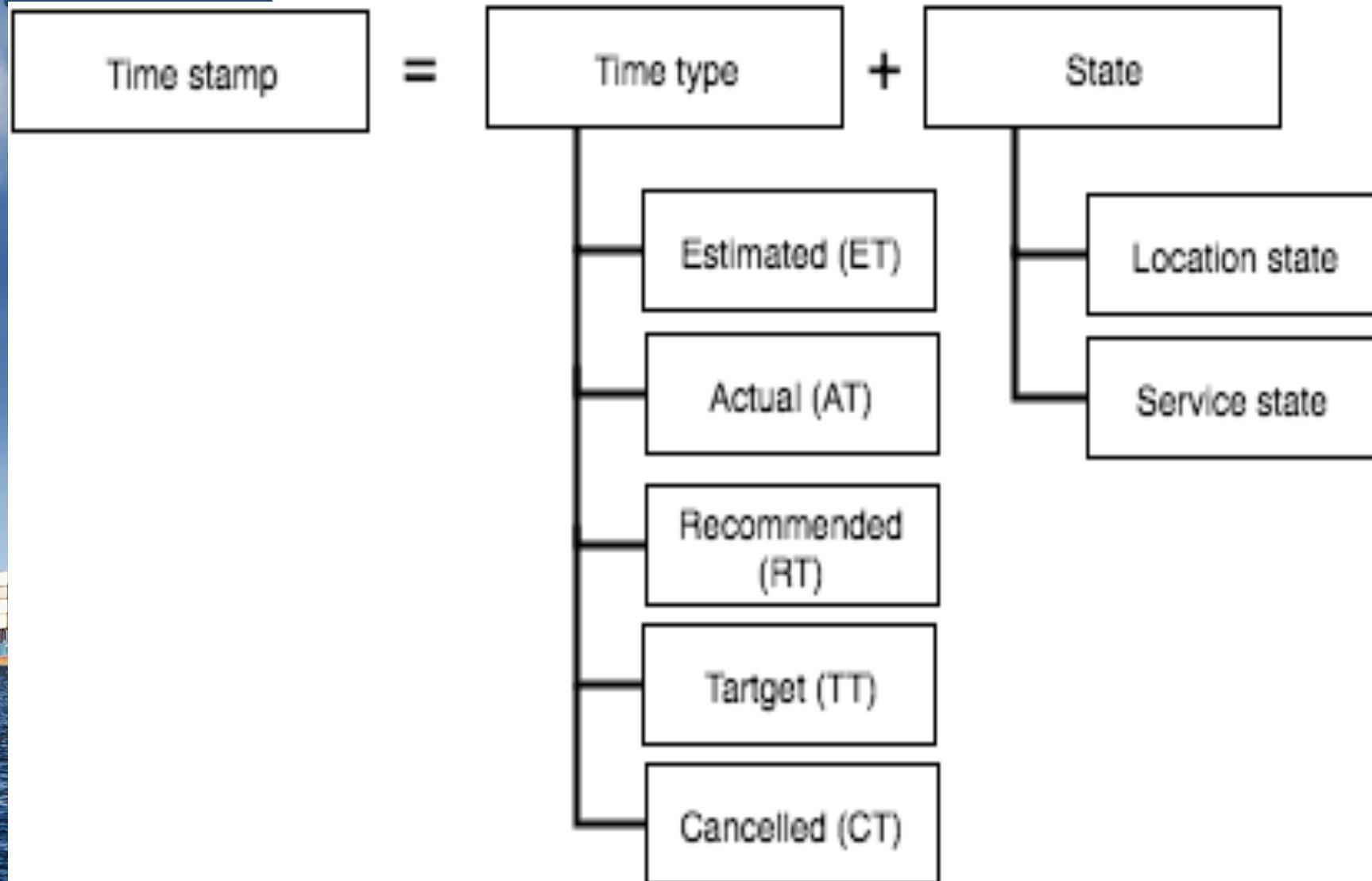


Lind M., Haraldson S., Karlsson M., Watson R.T. (2016) Overcoming the inability to predict - a PortCDM future, 10th IHMA Congress – Global Port & Marine Operations, 30th May – 2nd May 2016, Vancouver, Canada

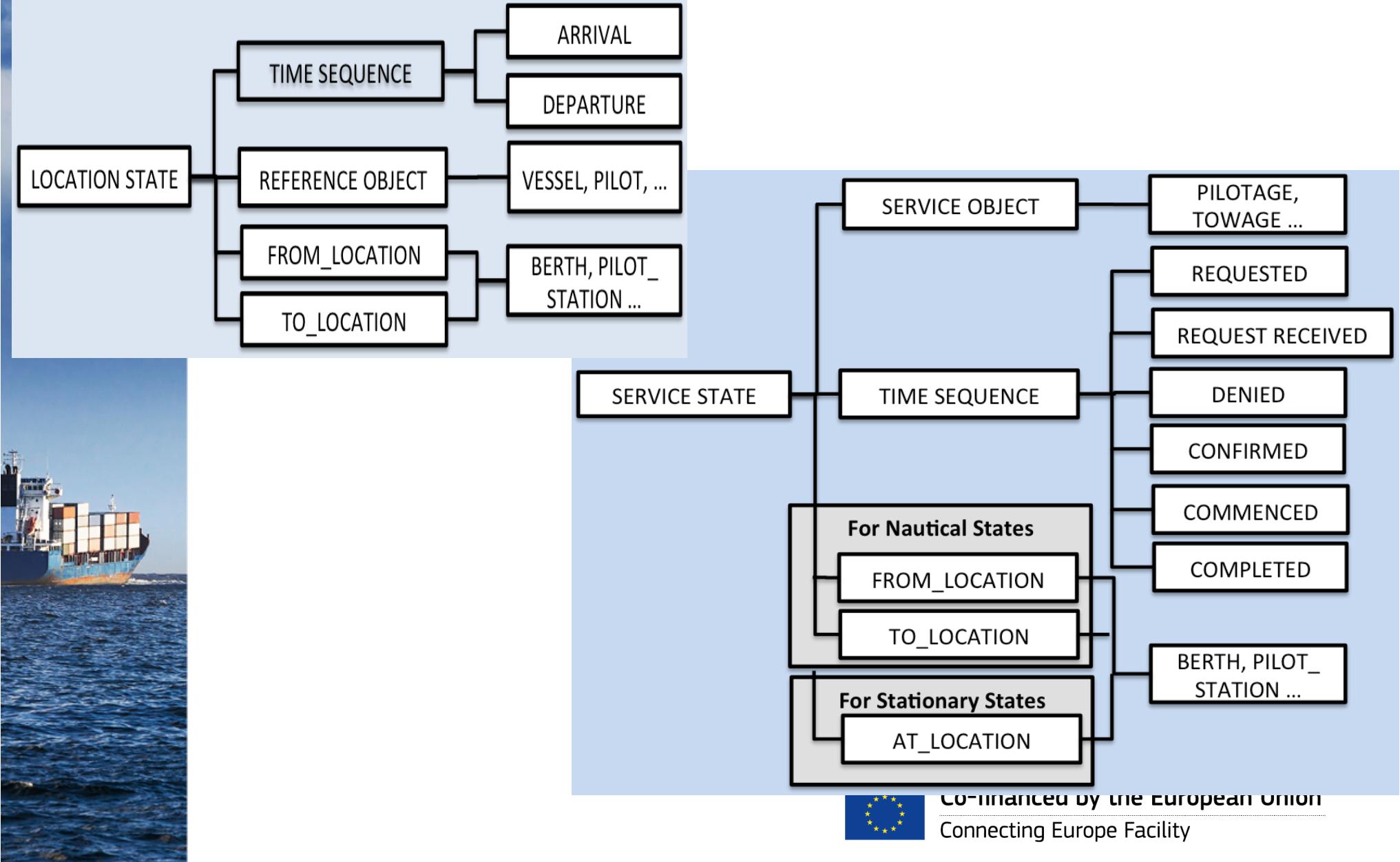
Port Call layered model



Structure of a time stamp



Location State and Service State





(2016-2018)
43 Meuro
57 partners

13 ports

300 ships

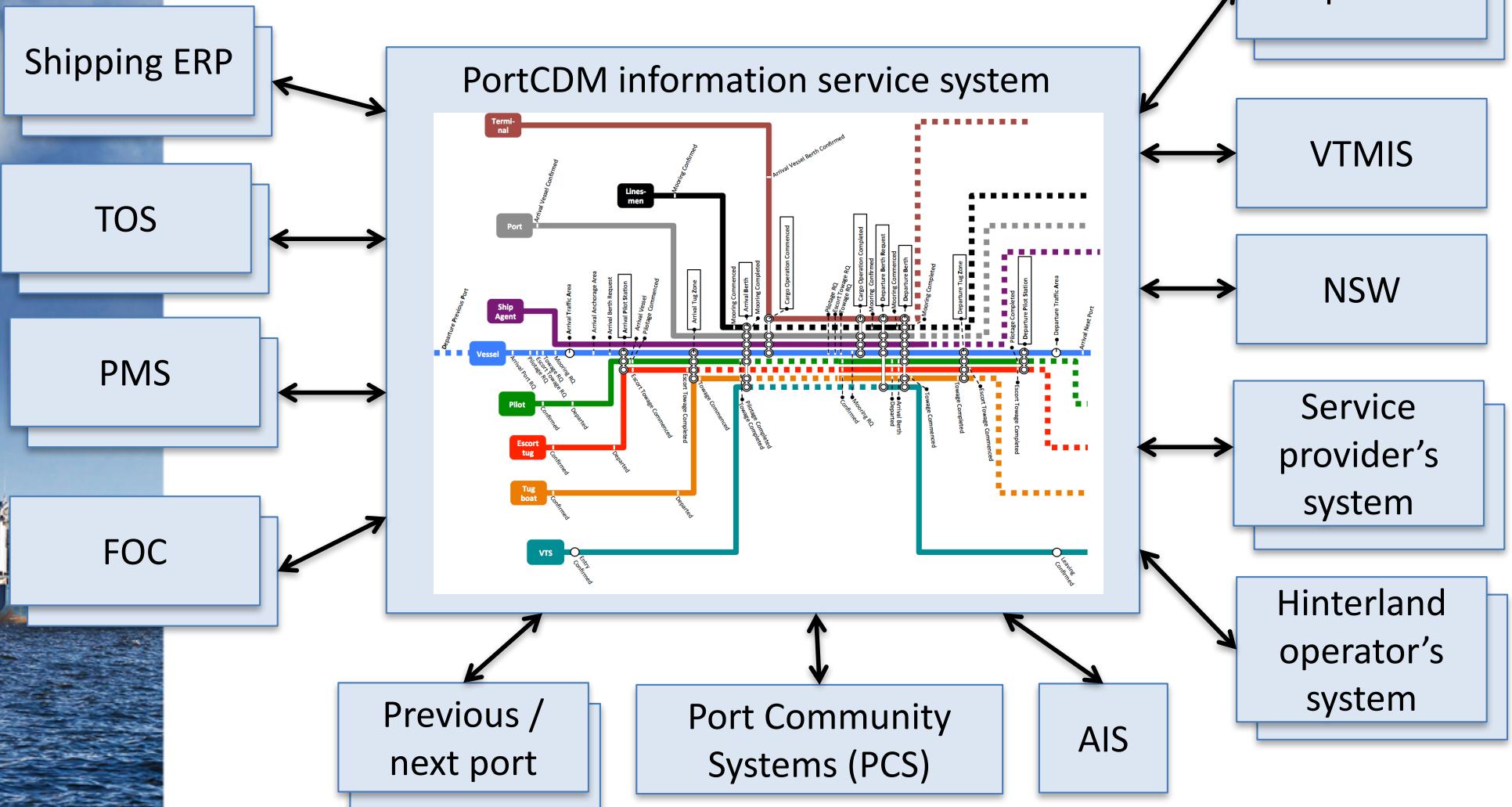
5 shore centres

PortCDM is validated in the STM validation project



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Inter-operable platform for sharing time stamps





PACT / Analytics / SeanApp / Monitoring



PortCDM Administration Console

VIKTORIA

admin

last update: 2016-12-14 13:21:00

PortCdm Analysis

- Dashboard
- ET-AT Evaluator
- Berth Productivity
- Waiting Time
- Locations
- Data Quality
- Raw Data

Dashboard

Date Range Analysis
2016-02-24 - 2017-02-23

Total Portcalls: 6

Total States: 433

Total Statements: 1079

Avg. Predictability: 91.0%

Avg. Productivity: 1.40e+4%

Avg. Waiting Time: 920 min

Statements Evolution

State Analysis

analyzed: 204

Search

Update States

Settings

Info

Add State

This screenshot shows the PortCDM Administration Console interface. At the top, there's a header bar with the title "PortCDM Administration Console" and user information like "VIKTORIA", "admin", and a timestamp. On the left, a sidebar lists various analysis modules: PortCdm Analysis, ET-AT Evaluator, Berth Productivity, Waiting Time, Locations, Data Quality, and Raw Data. The main dashboard area has several cards displaying key metrics: Total Portcalls (6), Total States (433), Total Statements (1079), Avg. Predictability (91.0%), Avg. Productivity (1.40e+4%), and Avg. Waiting Time (920 min). Below these cards is a line chart titled "Statements Evolution" showing the number of statements over time from September 2016 to December 2016. To the right is a donut chart labeled "State Analysis" with the value "analyzed: 204". At the bottom, there's a navigation bar with icons for Search, Update States, Settings, and Info, along with a "Add State" button on the far right.



The Assignment



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Assignment

- 10 Groups → 10 Actors
- Develop connectivity to PortCDM as a specific operator with the functionality to submit and subscribe on PortCDM-information.



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Basis

- A scenario taking the vessels turn around process as point of departure.
 - States (information) to be exchanged throughout the port call process
- API's to
 - Submit time stamps to PortCDM
 - Subscribe on PortCDM time stamps



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Expected deliverables

- Application (for each port call actor)
- Connectivity to PortCDM as an assigned actor role – provision of, and subscription to, time stamps
- Identify essential time stamps to subscribe to (in real-time) to maximize the value port call actors value proposition



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10 Business Operators

- Vessel
- Pilot organisation
- Port Authority
- VTS
- Ship Agent 1
- Ship Agent 2
- Towage organisation
- Terminal 1
- Terminal 2
- Mooring organisation



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Contact Persons

Pilot Organisation, VTS-Operator, Towage Operator	Anders Berg
Port Authority/Port Control (VTS)	Jouni Lindberg
Ship Agent	Mathias Karlsson
Mooring organisation	Anders/Mathias
Vessel	Robert Rylander
Terminal	Mathias Karlsson
Frontend:	Susanna Winther
Backend:	Niklas Mellegård
Assignment and Concept:	Sandra Haraldson
	Mathias Karlsson



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THINK DIFFERENT
MAKE THINGS HAPPEN
MAKE A DIFFERENCE



For questions do not hesitate to contact:
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Sandra.Haraldson@ri.se / Mathias.karlsson@ri.se



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