



Just in Time- Optimization

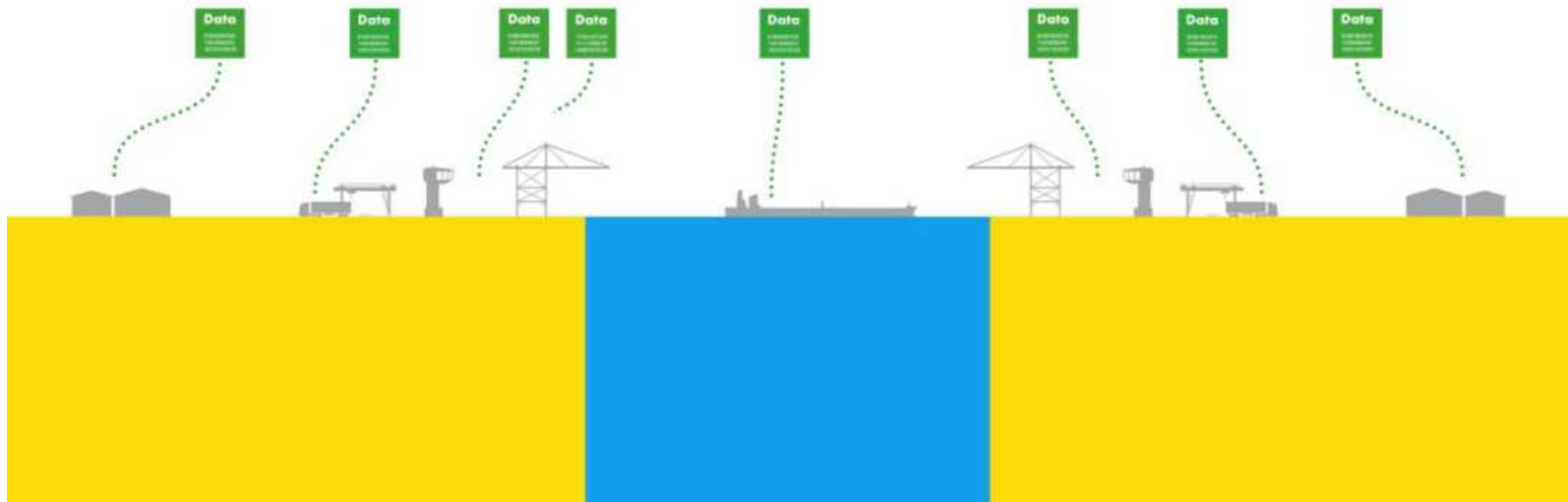
Ben Van Scherpenzeel

President

**International Taskforce Port Call
Optimization - Port of Rotterdam**



Supply chain bottleneck



Port bottle neck

Data
01001001010
11010000101
101011010101



Ship bottle neck



Ambition IMO

General context of the IMO decarbonization agenda

“

consider and analyse measures to encourage port developments and activities globally to facilitate reduction of GHG emissions from shipping, including provision of ship and shoreside/onshore power supply from renewable sources, infrastructure to support supply of alternative low-carbon and zero-carbon fuels, and to further optimize the logistic chain and its planning, including ports;

”

Cooperation between the port and shipping sectors to contribute to reducing GHG emissions from ships

Resolution MEPC.323(74) identifies four possible areas of action:

- Provision of Onshore Power Supply (preferably from renewable sources)
- Provision of safe and efficient bunkering of alternative low-carbon and zero-carbon fuels
- Incentives promoting sustainable low-carbon and zero-carbon shipping
- **Support for the optimization of port calls**

actions by States may include:
 “supporting the industry’s collective efforts to improve quality and availability of data and develop necessary global digital data standards that would allow reliable and efficient data exchange between ship and shore as well as enhanced slot allocation policies, thereby optimizing voyages and port calls and facilitating just-in-time arrival of ships.”

• IMO encourages the adoption by ports of regulatory, technical, operational and economic actions to facilitate the reduction of GHG emissions from ships

• MEPC also calls for sharing successful examples of initiatives taken in relation to port developments and activities to facilitate the reduction of GHG emissions from ships

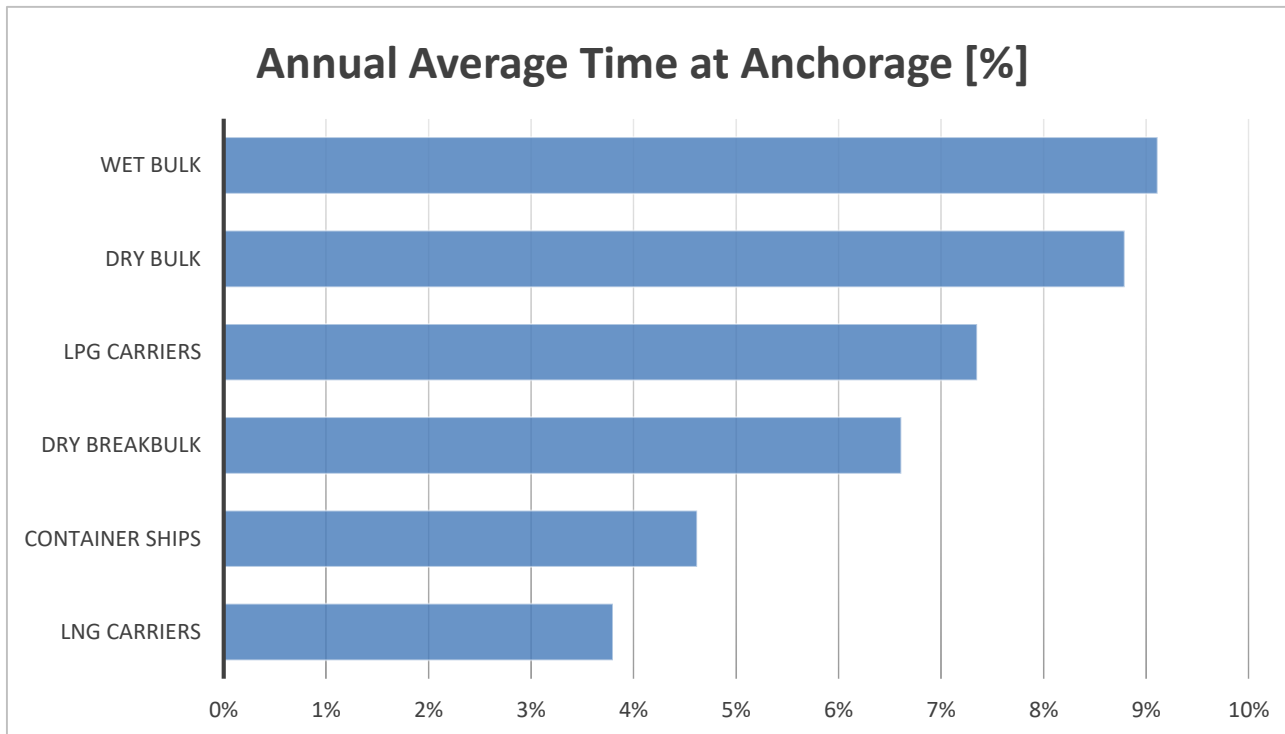
Support for optimization of port calls of ships Starting with Just In Time Arrivals



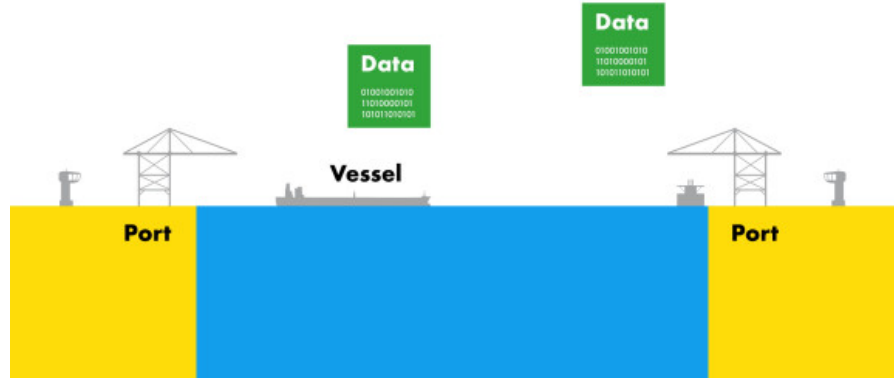
What is Just In Time Arrival



Ships spend time waiting at anchorage

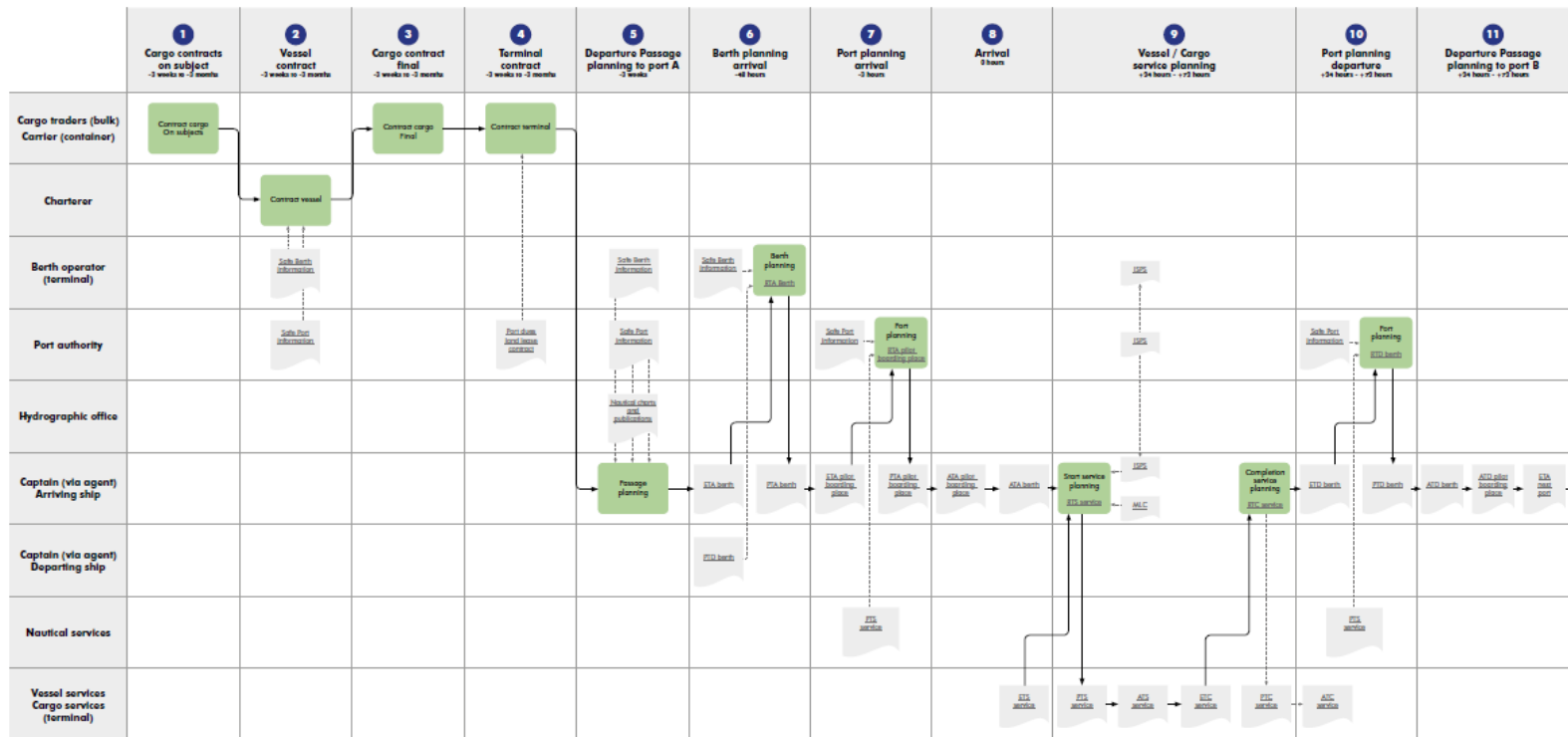


First: respect standardization bodies



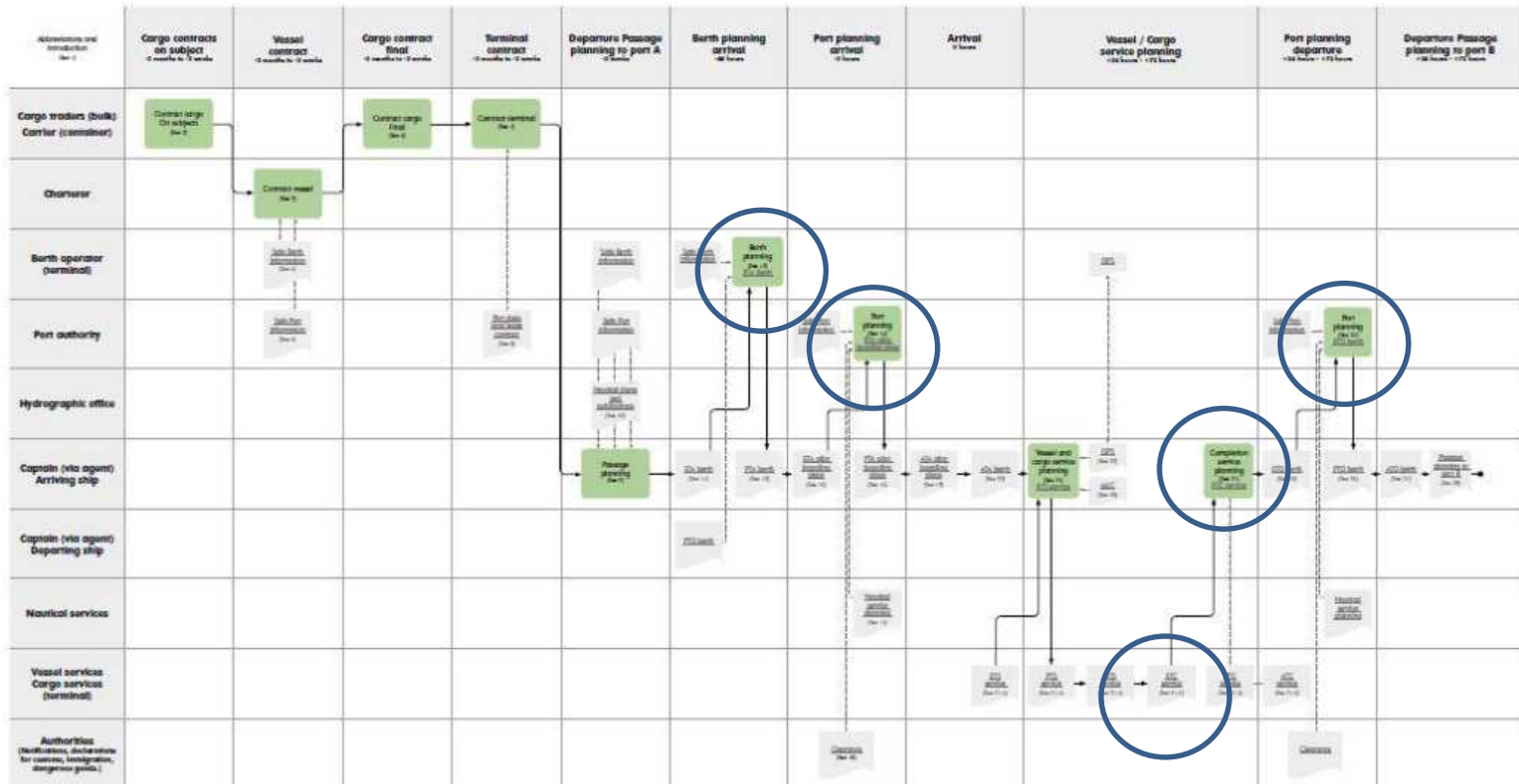
Second: respect business

International Maritime
 Port Call Optimization

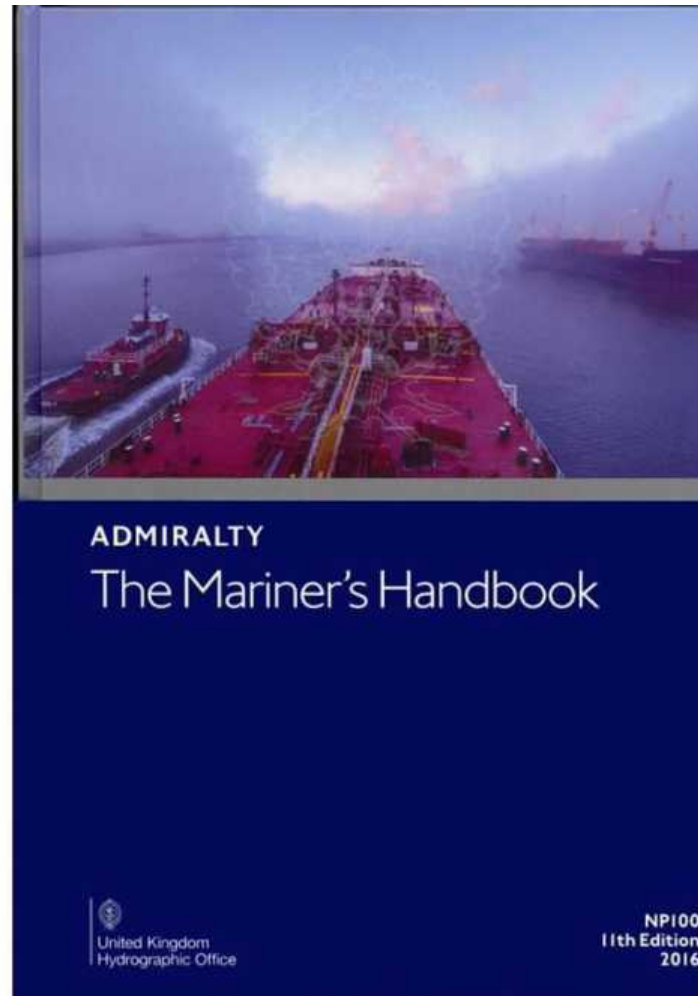


Which time stamps are needed

Port Call Optimization
 Lower costs, cleaner environment, more reliability and safety for shipping, terminals and ports.



Support for data standards



Support for data sharing willingness



Support of data sharing easiness



Result

PRONTY DASHBOARD

HTTP://PRONTY-BTH.NL

Agent XYZ 0 Notifications...

Search by Ship... Select from and to date/time... Status visit: Inbound, Outbound, Alongside, Finished. Notifications: 33, 22, 45.

Call Status	Ship	Berth	ETA/ATA PSI	ETC/ATC Cargo	ETD/ATD Berth	Port approach	Port passage	Berthing
Shipname	Berth-nr	16-01-23 12:00	16-01-23 12:00	16-01-23 12:00	16-01-23 12:00			
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Shipname	Berth-nr	16-01-23 12:00	16-01-23 12:00	16-01-23 12:00	16-01-23 12:00			

Map Notifications Events Contacts Messages

Terminal view Vessel view Timelms

May 23

01 15 30 45 02 15 30 45 03 15 30 45 04 15 30 45 05 15 30 45 06 15 30 45 07 15 30 45 08 15 30 45 09 15 30 45 10 15 30 45 11 15 30 45 12 15 30 45 13 15 30 45 14 15 30 45 15 15 30 45 16 15 30 45 17 15 30 45 18 15 30 45 19 15 30 45 20 15 30 45 21 15 30

Inbound Maersk Pembroke / Alongside Outbound

LRR / Pilot on Board APMT / Cargo operations LRR / Pilot on Board

Kotug / 3 Tugs VT-Tankers / Bunkers Bonn-Mees / Cranes Smit / 2 Tugs

Ship A / Outbound Ship D / Inbound





International Taskforce



Port Call Optimization



**GLOBAL INDUSTRY ALLIANCE
TO SUPPORT LOW CARBON SHIPPING**



**Thank
you/Merci** ■