# PORT CALL OPTIMIZATION NETWORK



**We provide essential guidance to optimise voyages from port to port and berth to berth, establishing a comprehensive global network of connected ports, terminals and ships.**

This saves time, reduces emissions, and lowers costs, benefiting all stakeholders.

## WHO WE ARE

The network encompasses a wide array of ports, terminals, shipping lines, associated nautical and ship services, and project consortia.

## WHAT WE DO

Our common mission is to accelerate the adoption and harmonization of global standards and solutions for nautical, operational and administrative data in the global network of ports.

The benefits are substantial. It will:

- **reduce ship emissions en route, in and around ports, terminals and port cities;**
- **ensure greater safety and compliance, promote cleaner environment;**
- **lower costs for shipping lines, shippers, terminals and ports.**

This represents a targeted yet considerable advancement towards enhancing the sustainability of shipping.

While we are not a formal organisation, coordinating efforts through this global network significantly improves the feasibility and effectiveness of our scope.

# A DATA-DRIVEN FRAMEWORK

**The data scope is based on a port and trade agnostic port call process, with a foundation in IMO regulations and BIMCO contracts.**

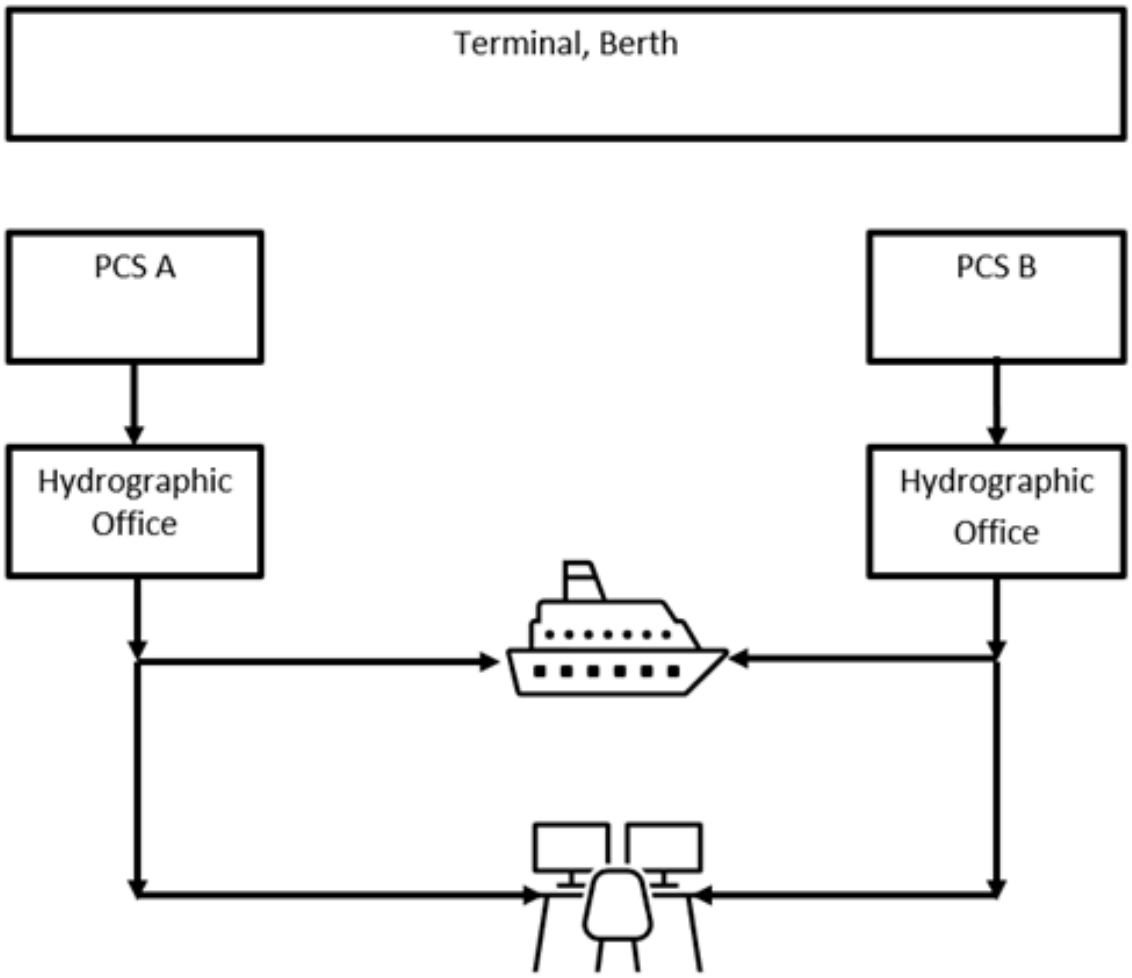
The data sharing is established through existing technologies and trade practices, ensuring that existing chains of command and contractual relationships between commercial parties remain untouched.

We are working on harmonising three core data domains based on robust standardization bodies respected by both ports and shipping stakeholders.



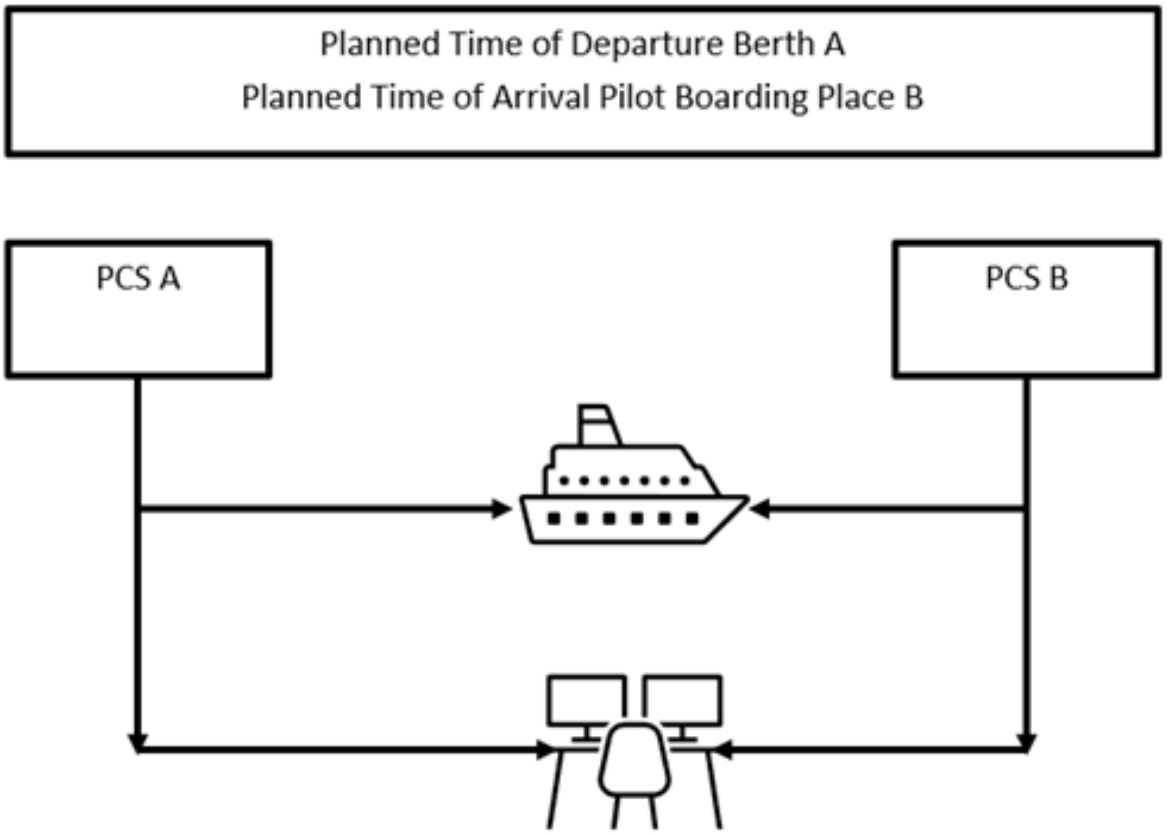
# Nautical Data

| | | |
|---|---|---|
| **Scope**<br>- Terminal: *unique identifier, name, position, type*<br>- Berth: *unique identifier, name, position, type* | **Standards**<br>- Non-technical standards from IHO<br>- Technical standards based on JSON, *given the initially limited number of ports.* | **Sharing**<br>- Connecting Port Community System (PCS) with the Hydrographic Office, providing Electronic Navigational Chart (ENC's) for ships.<br>- Application Programming Interface (API) for back office applications. |
| **Guidelines for implementation**<br>- Guidelines for Harmonized Communication and Electronic Exchange of Nautical Data for Port Calls. | **Benefits**<br>- Improved ship-berth compatibility check prior to chartering the vessel.<br>- Improved berth to berth navigation.<br>- Less idle time of ships waiting for the tide to enter port. | |



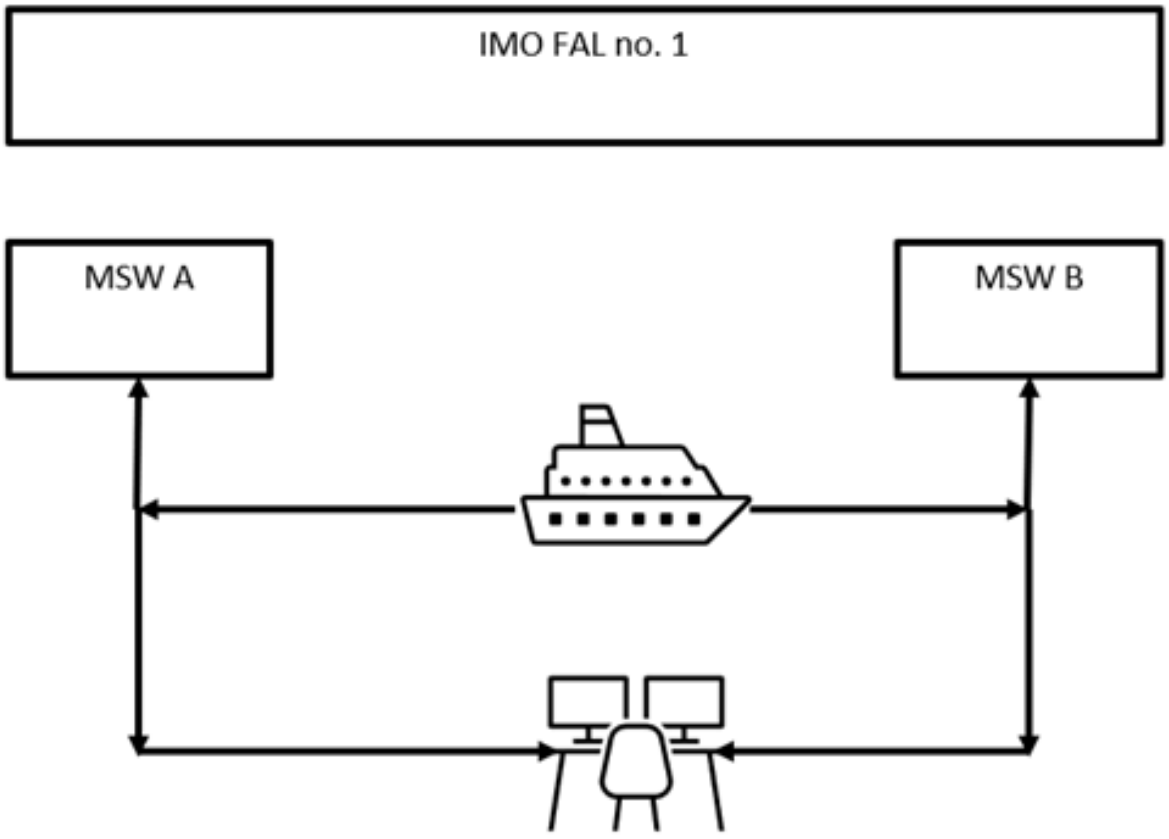
# Operational Data

| | | |
|---|---|---|
| **Scope**<br>- Planned Time of *Departure* Berth from port A.<br>- Planned Time of *Arrival* Pilot Boarding Place from port B. | **Standards**<br>- Non-technical standards from IMO<br>- Technical standards based on JSON, *given the initially limited number of ports.* | **Sharing**<br>- Connecting Port Community System (PCS) with Electronic Chart Display Information System (ECDIS) for ships<br>- Application Programming Interface (API) for back office applications. |
| **Guidelines for implementation**<br>- Guidelines for Harmonized Communication and Electronic Exchange of Operational Data for Port Calls. | **Benefits**<br>- Optimization of speed and planning of rest hours.<br>- Improving safety in the port's approaches and anchorages.<br>- Reducing idle time of berths and ships.<br>- Reducing idle time of nautical, ship, and cargo services. | |



# Administrative Data

| | | |
|---|---|---|
| **Scope**<br>- IMO FAL Declaration no. 1. | **Standards**<br>- Non-technical standards from IMO<br>- Technical standards based on JSON, *given the initially limited number of ports*. | **Sharing**<br>- Connecting ships with Maritime Single Window (MSW) through Application Programming Interface (API). |
| **Guidelines for implementation**<br>- Guidelines for Harmonized Communication and Electronic Exchange of Administrative Data for Port Calls. | **Benefits**<br>- Reduce administrative burden and stress levels on board and improve rest hours.<br>- Reduction of port stay by clearance on arrival. | |



## Want to learn more?

The projects MISSION and DYNAPORT funded by European Union facilitate the network's communication.



## Contact

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Reference: FAL.5-Circ.52.pdf