

# The Future of the Maritime Digital Landscape

How to get MSW  
implemented before Jan 1<sup>st</sup>  
2024 ?

PCS context & viewpoints...



# IPCSA

International Port  
Community Systems  
Association



**NETWORK**  
OF TRUSTED NETWORKS

Connecting and  
sharing data globally  
between ports and  
cross border

**PROTECT**  
Port Message Design Group

# Single Window for ship data exchange to become mandatory - IMO

#SGA188923148661

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**IMO** INTERNATIONAL MARITIME ORGANIZATION

# MANDATE

№123456789

23.05.2022 | Monday

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The Maritime Single Window for Ports is a legally introduced electronic business solution by the IMO under the SOLAS Convention for the integration of communication services.

IMO's Facilitation Committee has adopted amendments to the Facilitation (FAL) Convention which will make the single window for data exchange mandatory in Ports around the world, marking a significant step in the acceleration of digitalization in shipping for **Port/Shipping Lines/Agents**.

The amendments update the provisions of the FAL Convention on mandatory electronic data exchange in ports for ship clearance. The annex of the Convention will make it mandatory for public authorities to establish, maintain and use single window systems for the electronic exchange of information required on arrival, stay and departure of ships in ports.

In addition, public authorities will have to combine or coordinate the electronic transmission of the data to ensure that information is submitted or provided only once and reused to the maximum extent possible.

The amendments adopted at the Facilitation Committee (FAL 46) session, which met 9 to 13 May, are expected to **enter into force on 1 January 2024.**

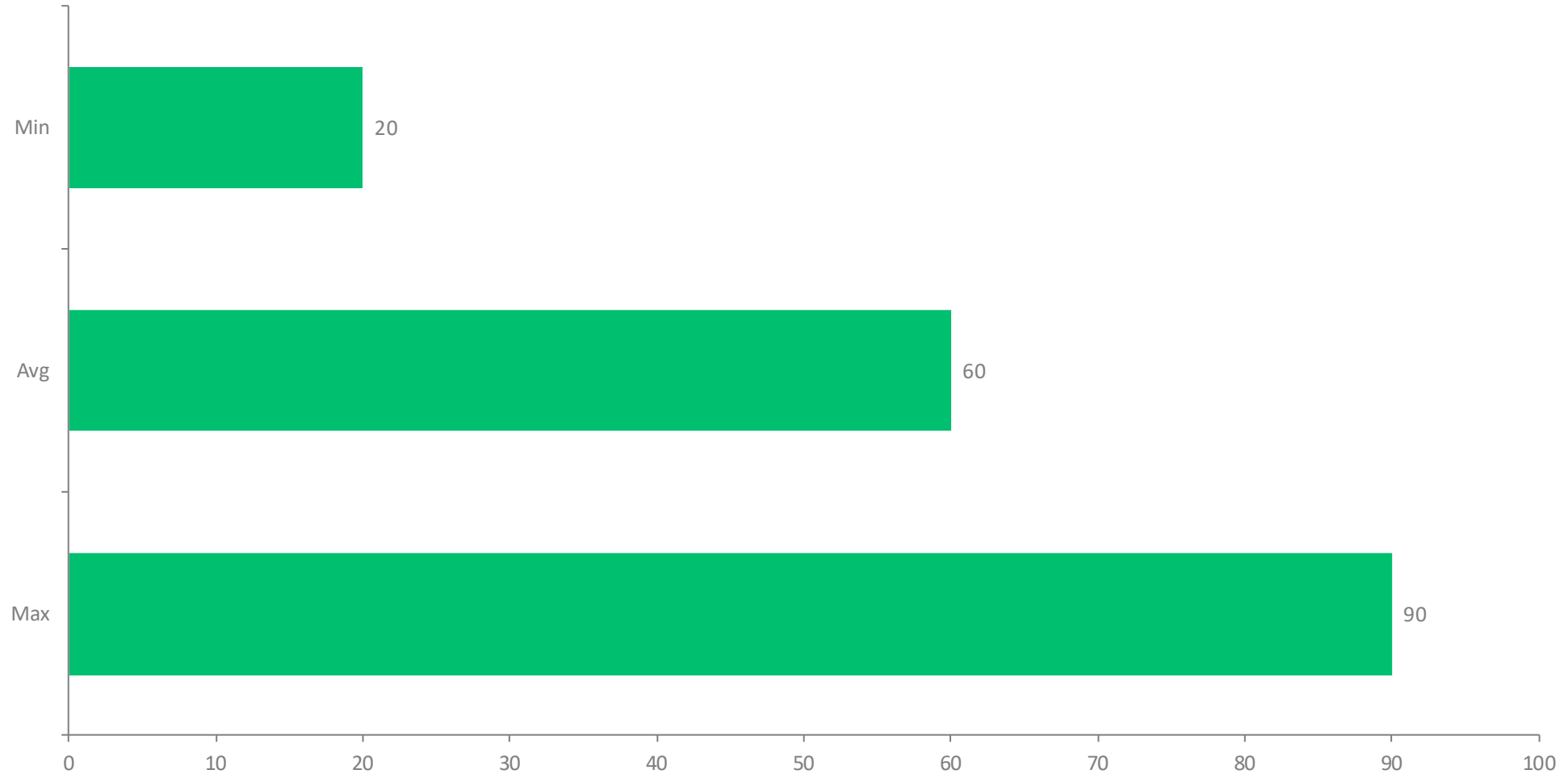


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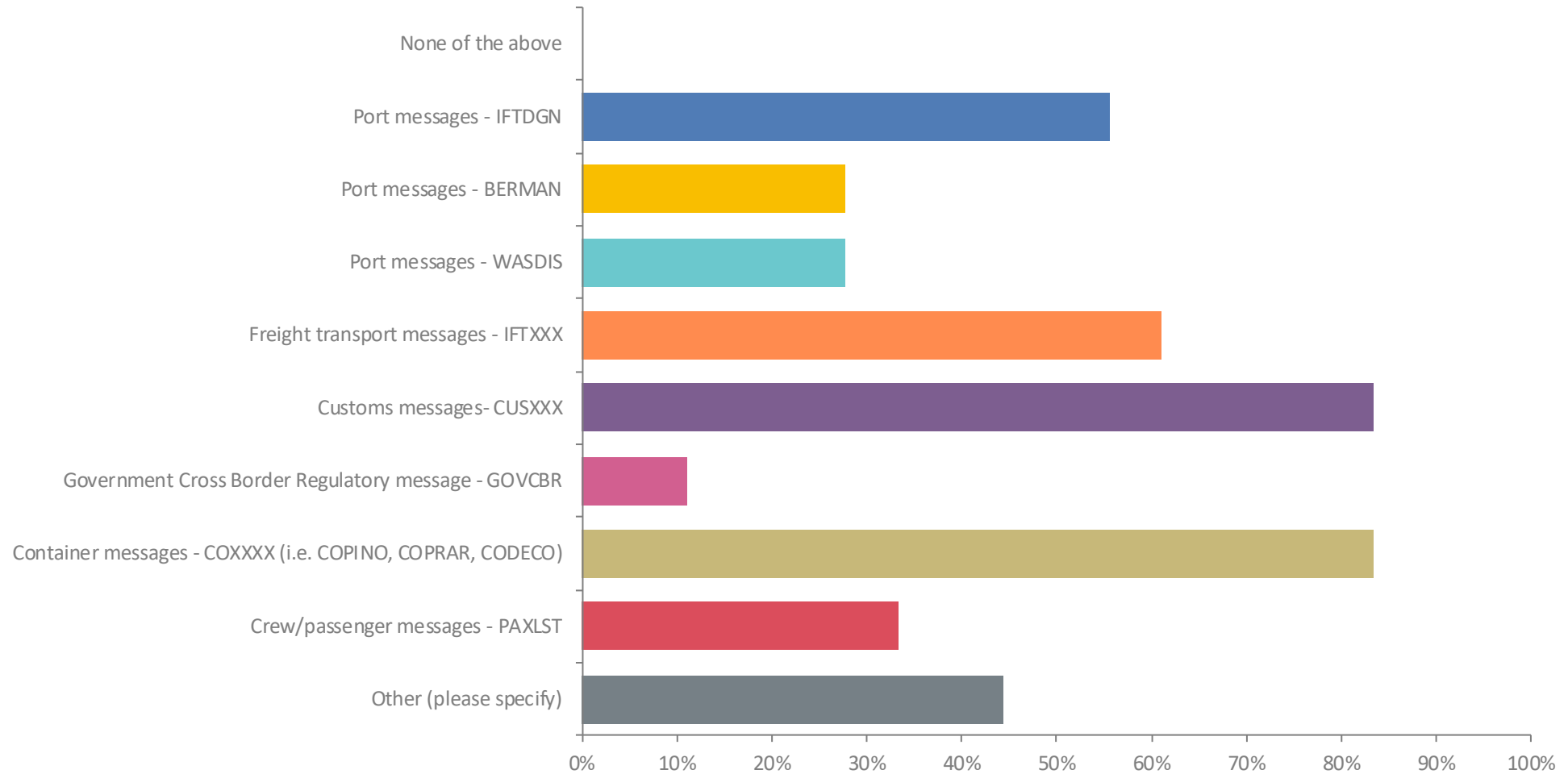
To enter into force on  
**1st January 2024.**



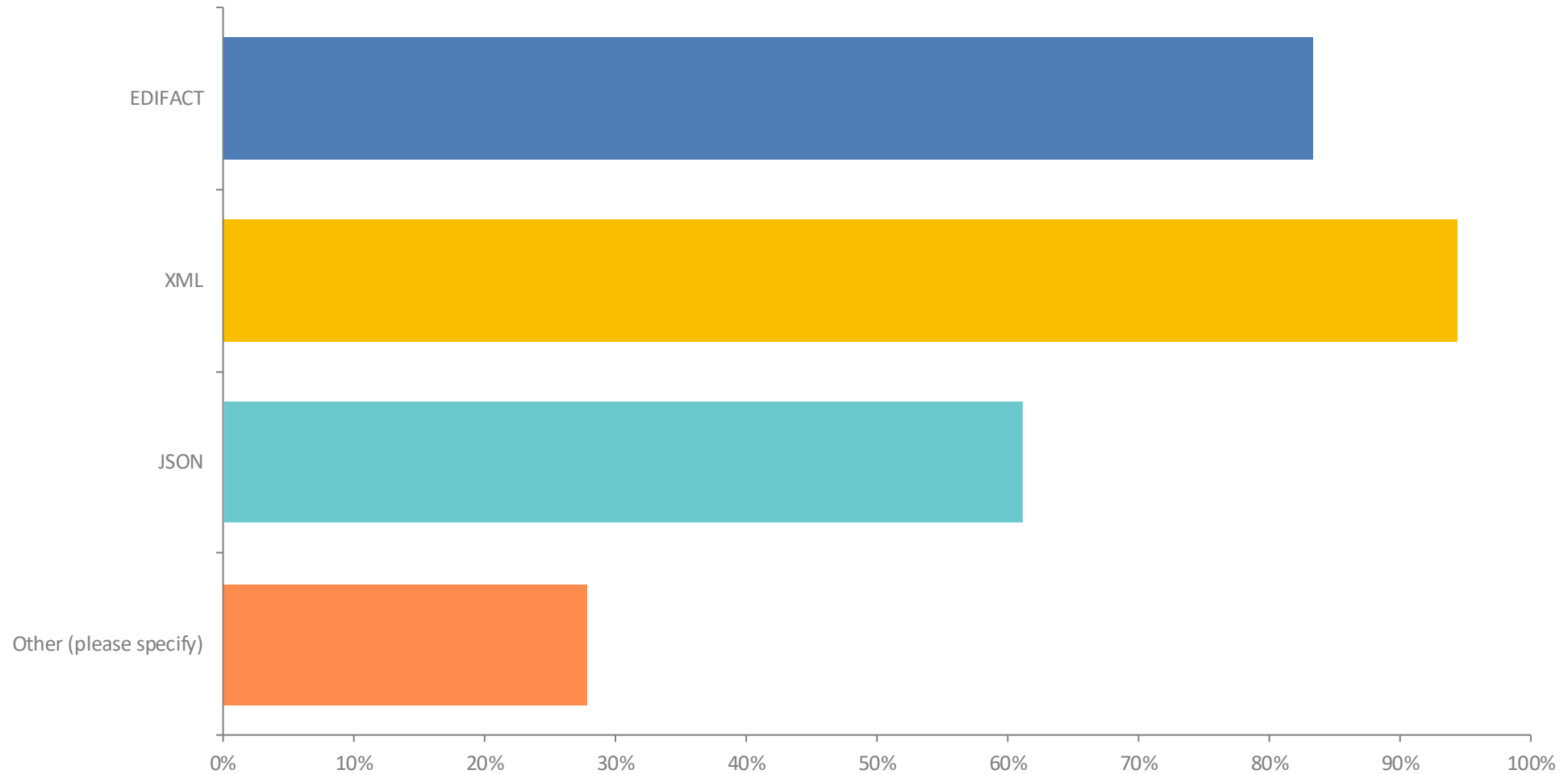
# Q: Please rate the use of international message standards in your company (%)



# Q: Which message standards are used in your company ?



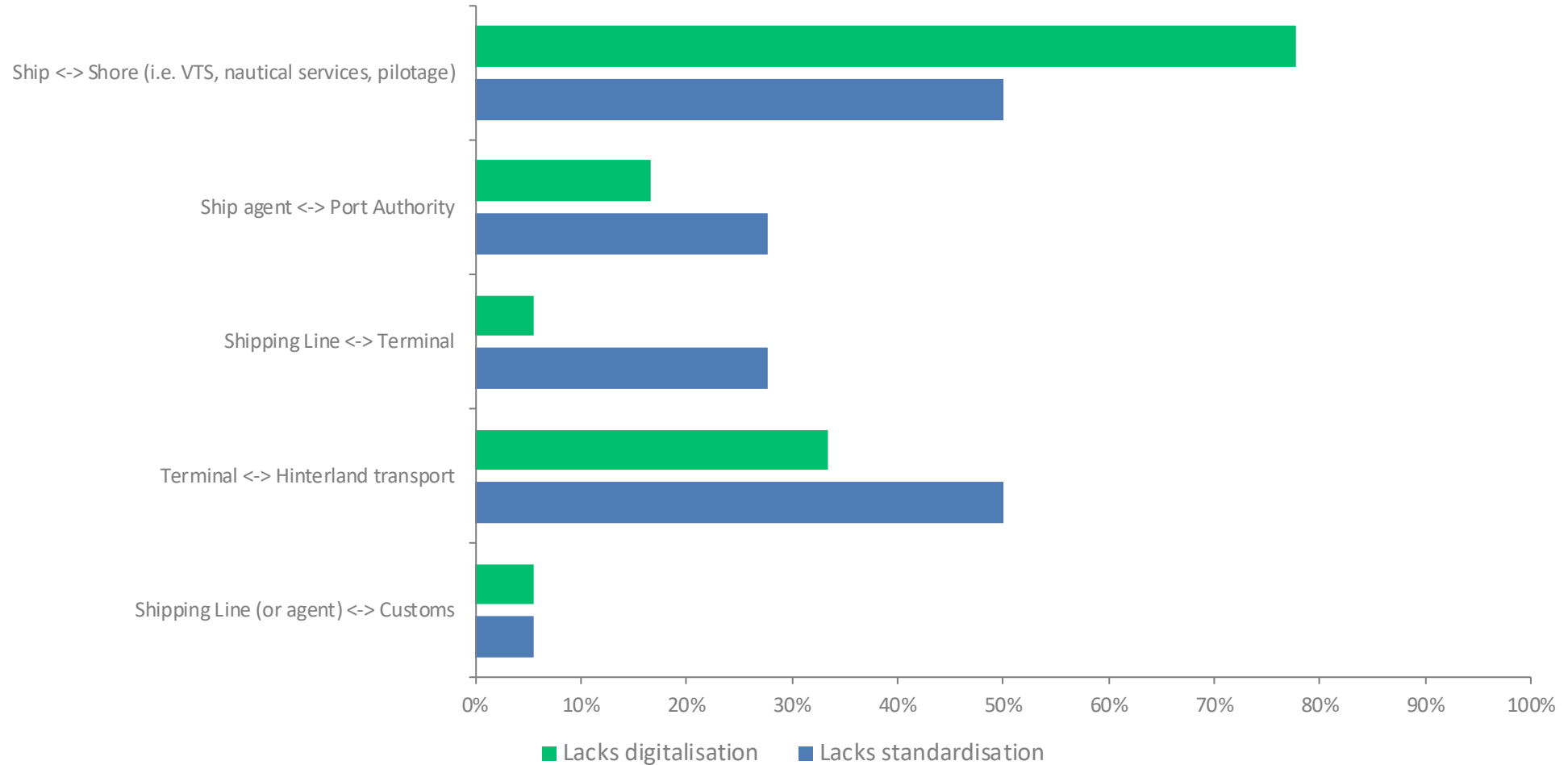
# Q: Which message types are used in your company?



# Q: Looking at the port(s) you operate in, are there processes that lack digitalisation or standardisation?

!! “besides Customs, still a lot of other governmental / legal obligations are paper based processes”

!! degree of digitalisation highly differs depending on the type of cargo – this makes all the different types of data-connections a very complex exercise, from the viewpoint of a port



# MSW-guidelines in a PCS-context

- use & follow the IMO data Reference Model as a basis
  - it will help you in the long run...
- PCSs take the (minimal) MSW-requirements as part of their solution
- be open to heterogeneous system implementations
  - new coding technologies and easy-to-develop solutions (*eg* JSON REST APIs) if you need to build new things...
  - ... but look to existing building blocks & proven standards and re-use where possible
- learn from & listen to others who already built up experience
  - *eg* for non-EU countries, learn from EMSWe regulation for inspiration and adoption from message structures and -implementation guides



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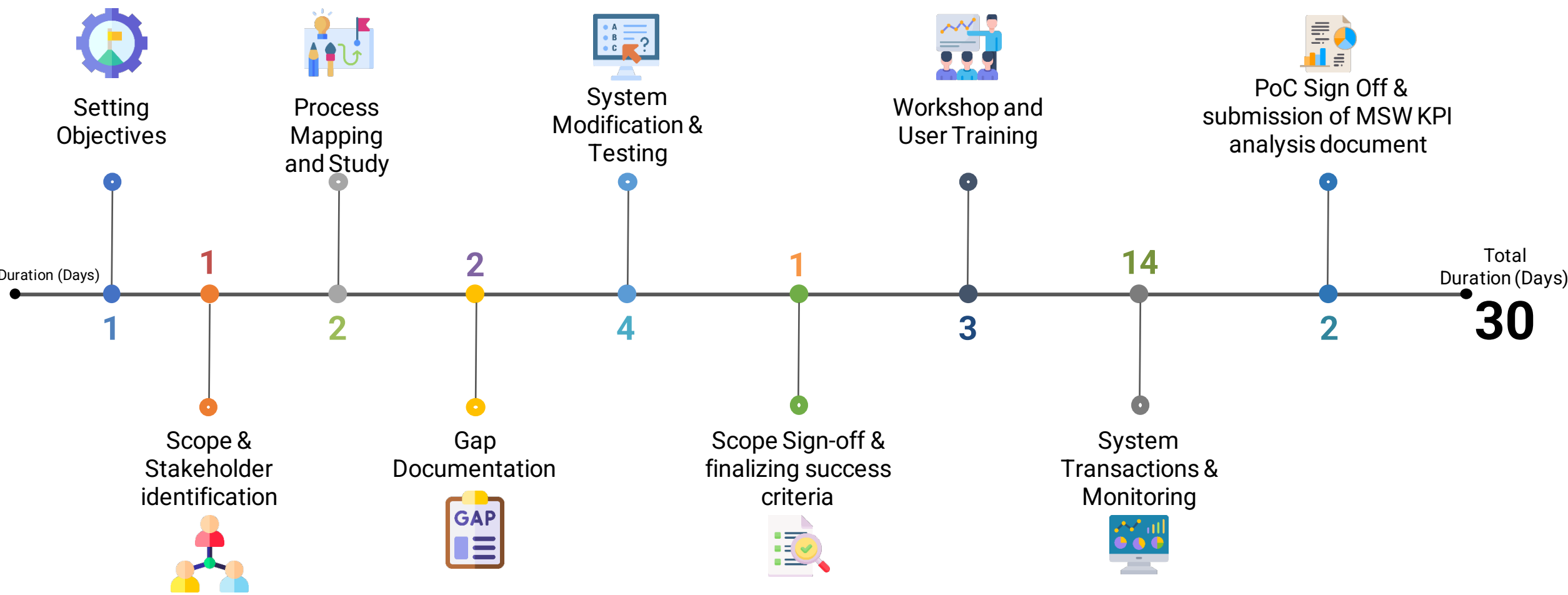
International Port  
Community Systems  
Association



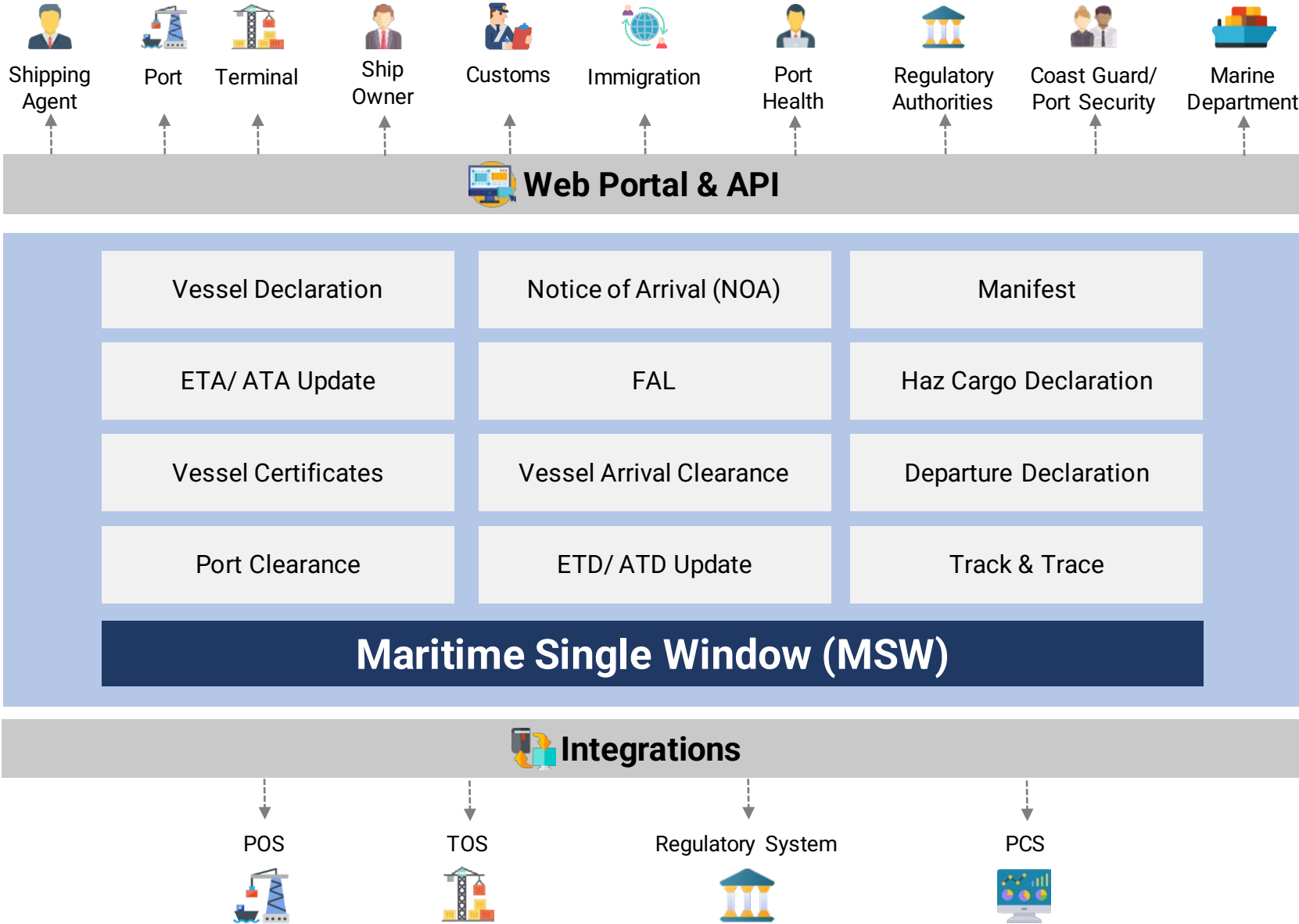
# But ... there is also more than MSW !!

- a PCS offers more than MSW-requirements
- regulatory bodies need to be aware that a MSW alone  $\neq$  a maritime ecosystem for a port
  - awareness of other essential maritime processes is needed
  - MSW is part of 'a bigger picture' where a port call is facilitated by several b2b- and other b2g-processes
- a holistic approach in a roadmap towards the "digital maritime environment"
- re-use information MSW  $\Leftrightarrow$  other b2g- or b2b-processes facilitates a smoother port call

# IMO MSW – a Proof of Concept (PoC) Service



# MSW Functional Overview



# Time is short!

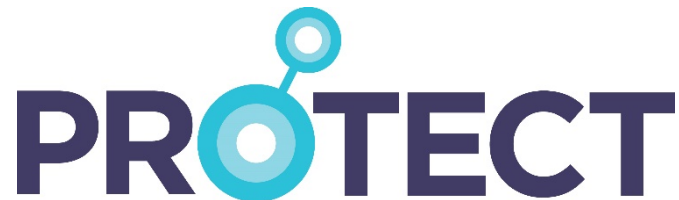
- no global solution will be available (“1 fit all”), so be pragmatic:
  - focus on what’s important & focus on what’s already available
  - re-use where possible (i.e. PCS, Port Management System, ...)
  - **and** create a vision for the future.
- don’t forget the (operational) processes !!



# About IPCSA - Mission

“to promote the electronic exchange of information to enable seamless, efficient trade logistics processes through a single submission of data connecting transport logistics”.

# THANK YOU



For further information on IPCSA or the PROTECT Group please see:

<https://ipcsa.international>

or contact IPCSA's Lead on Standards & Technology

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