

Finnish SafeSeaNet and Implementation of new MNSW



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Fintraffic Group in brief

We offer and develop traffic control and management services on land, at sea and in the air.

We also produce digital services and up-to-date open-source traffic data for operators and end users in the transport ecosystem.

Our services support the mobility of citizens, the needs and logistics of the business community, the operations of the security authorities and the competitiveness and welfare of Finland.

We employ 1,100 professionals.



FINTRAFFIC
Parent Company and joint services



FINTRAFFIC RAILWAY



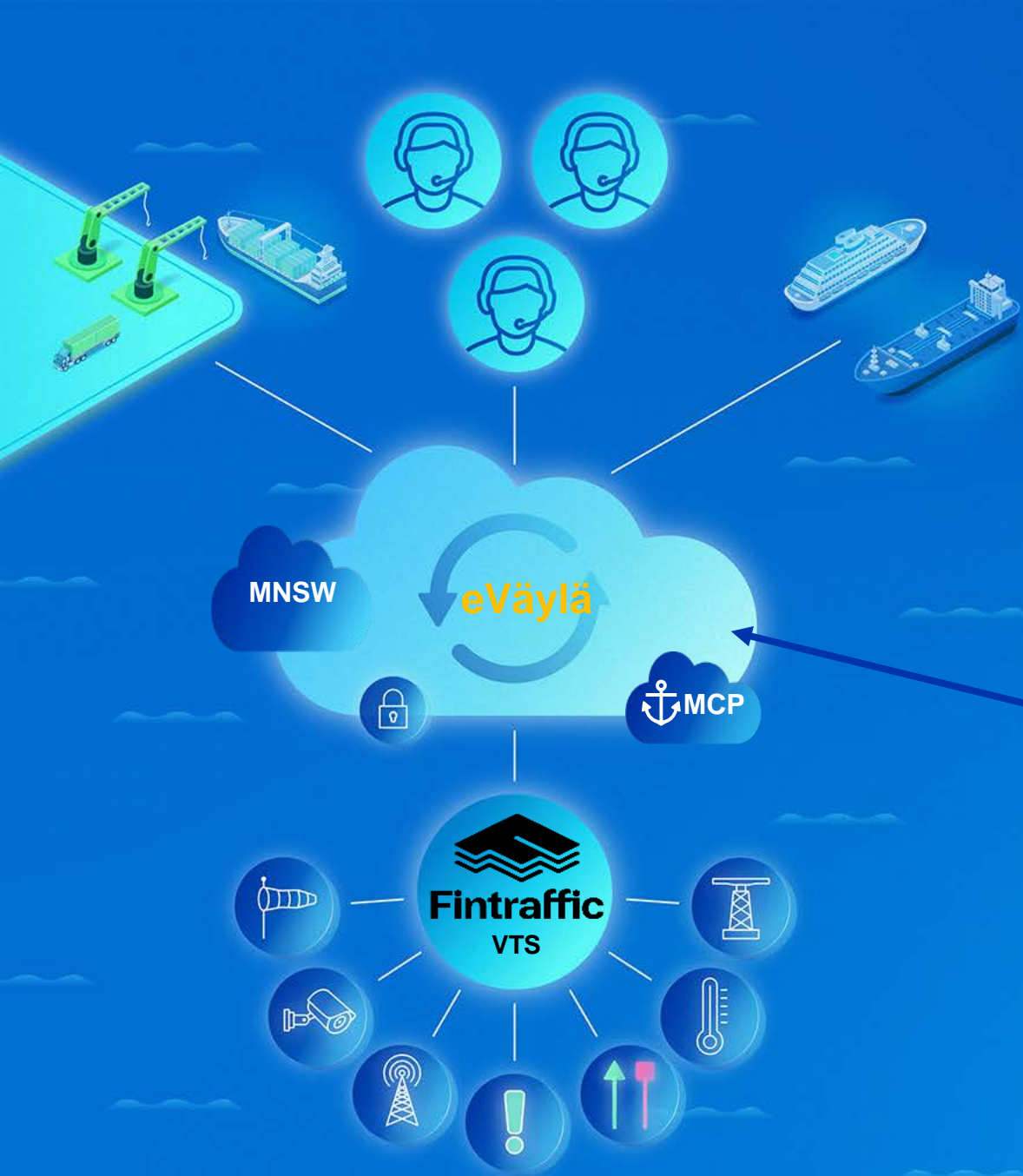
**FINTRAFFIC AIR
NAVIGATION
SERVICES**



FINTRAFFIC ROAD



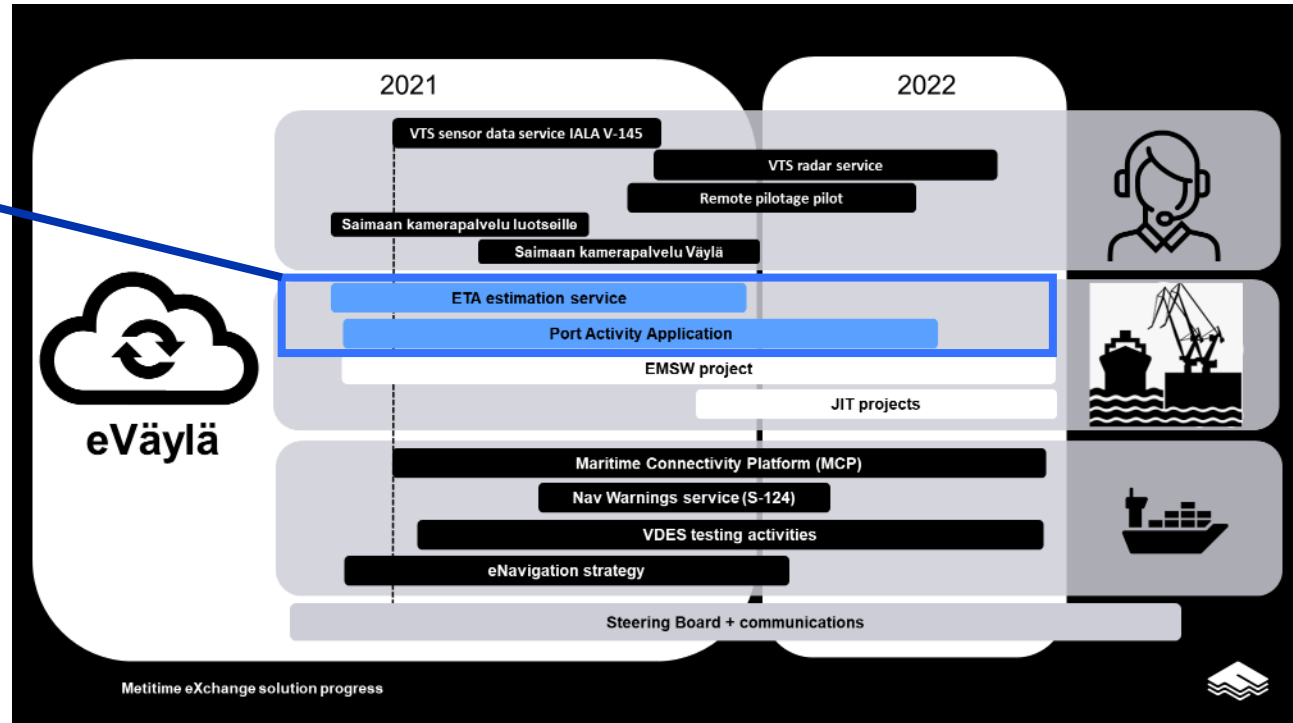
**FINTRAFFIC VESSEL
TRAFFIC SERVICES**



eVäylä = Maritime digital information exchange solution

eVäylä

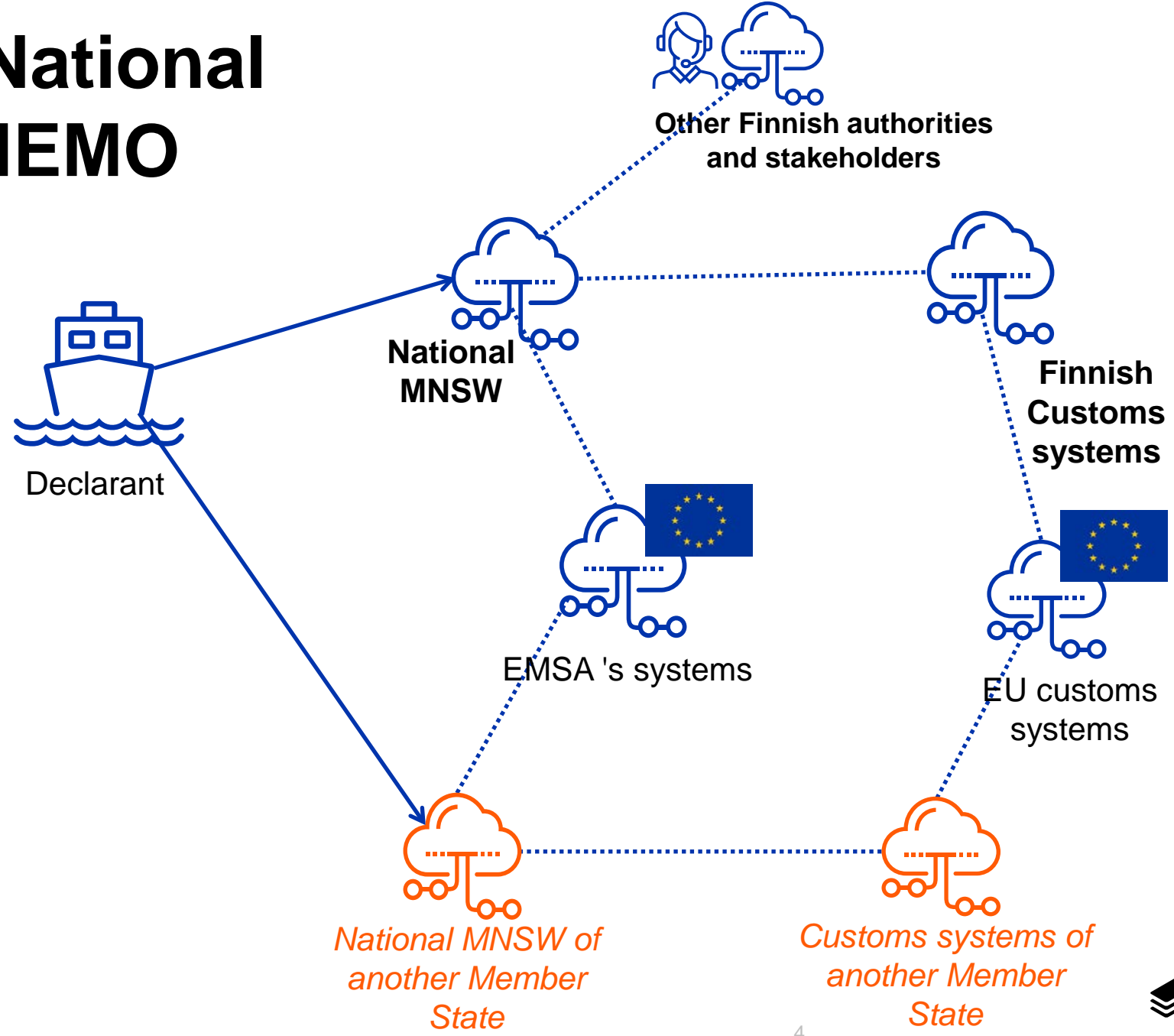
provision of vessel traffic management and control services in a way that ensures the safe and smooth operation of traffic on waterways. As part of this, Fintraffic VTS aims to accelerate the development of automation and digitalization in the industry and has taken a stronger role as a provider of new, intelligent maritime information services and a strengthened situational picture through the **eVäylä** development project.



Finnish Maritime National Single Window - NEMO

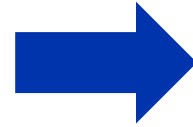
National services (MNSWs) provide notifiable and harmonized user and application interfaces for declarants.

The aim is to facilitate the electronic transmission of information related to reporting obligations for ships port calls at Union ports, staying in Union ports and leaving Union ports. The EMSWe environment allows for the exchange of once-entered data between Member States.



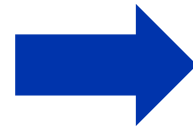
The change

Port call reporting obligations cause unnecessary administrative burden as reporting is almost, but not quite harmonized across EU member states



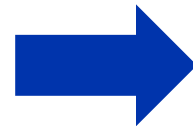
Tighter harmonization with binding legislation on EU level

Finland's current NSW system, Portnet, is nearing the end of its life cycle



EMSW NEMO project to build new system

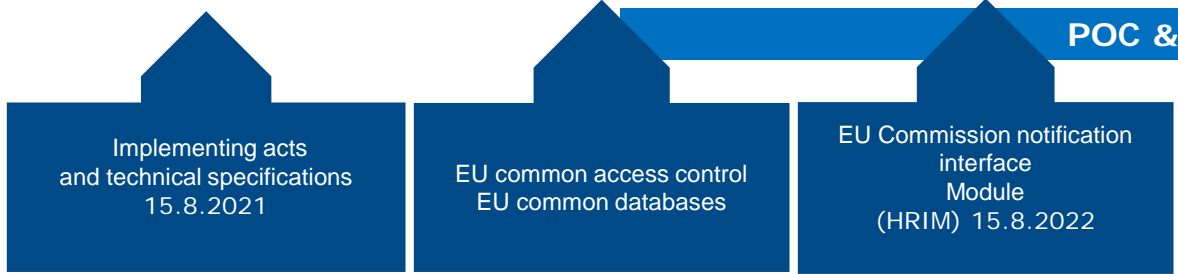
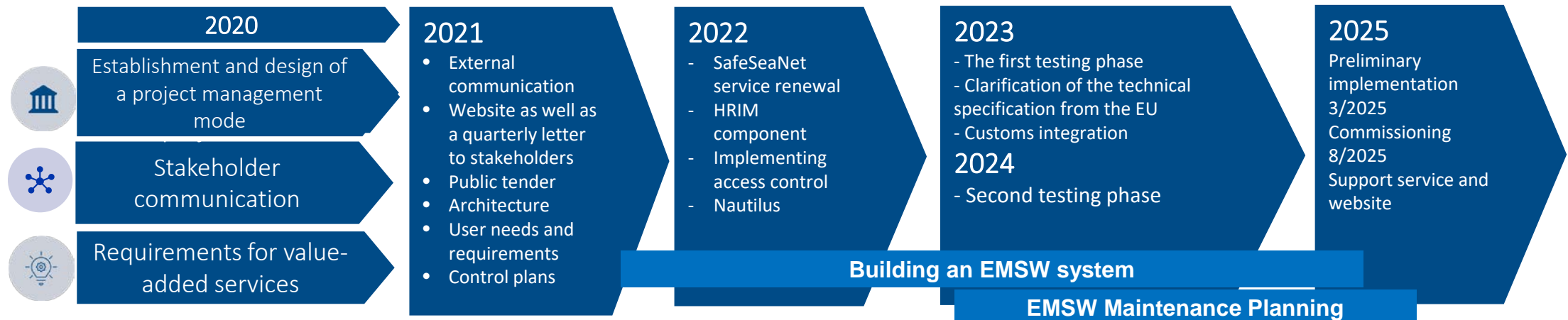
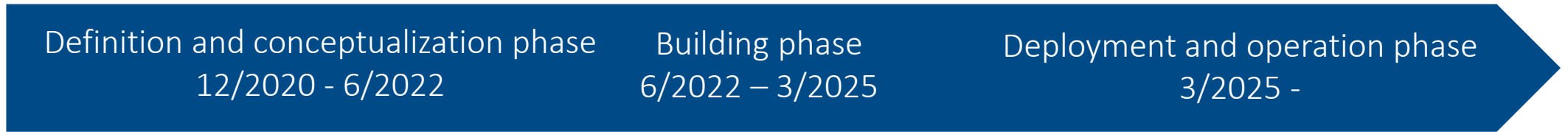
Stakeholder requirements clearly extend beyond the scope of EMSW regulation



Facilitated dialogue to establish mutual understanding of requirements, possibilities and way forward of the value added services



Planned schedule for the EMSW project (NEMO)



Finnish EMSW Program – content

MNSW
(NEMO)

MNSW
Service desk

SafeSeaNet national
connection point

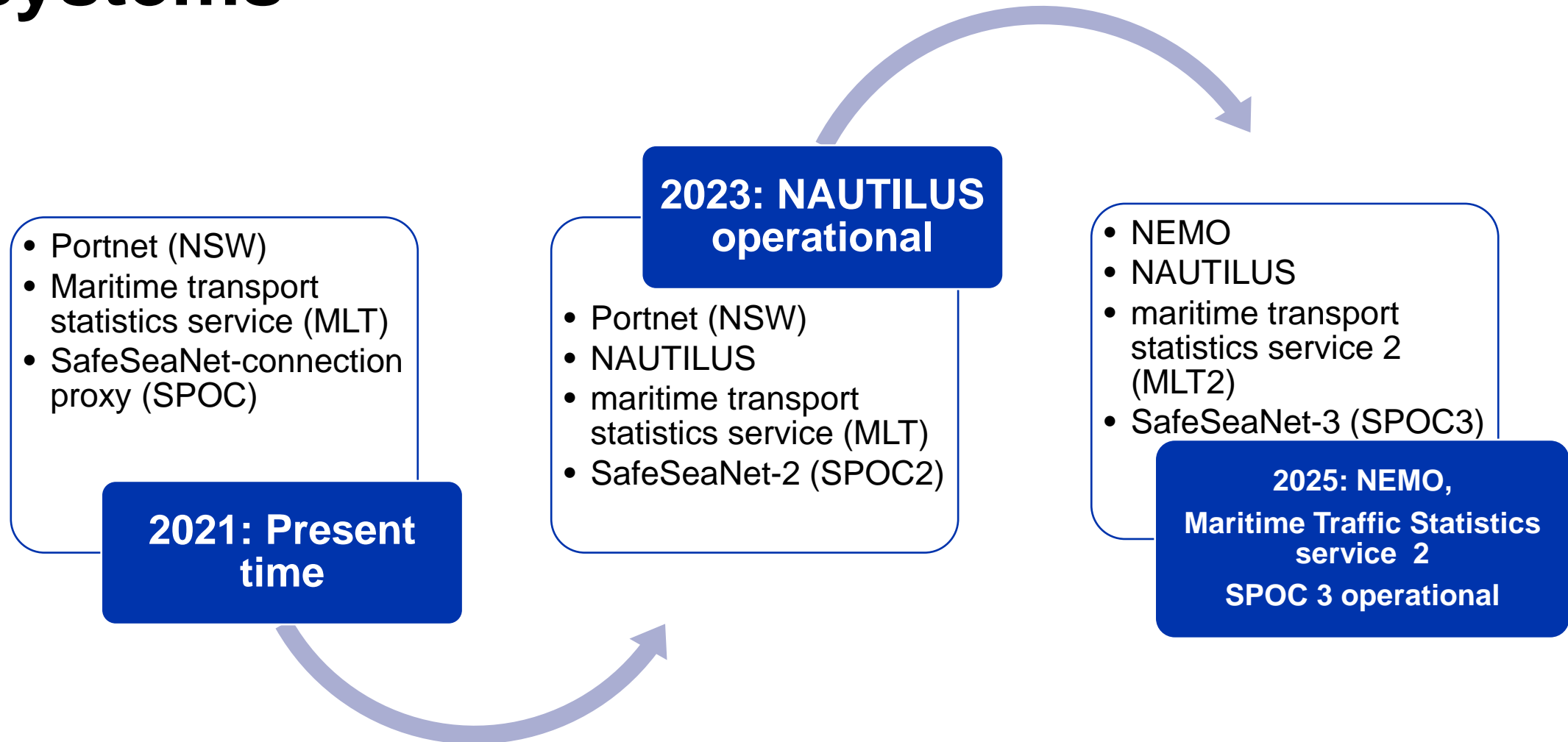
Maritime Transport
Statistics Service 2
(MLT 2)

Passenger reporting
service for small
passenger ships
(NAUTILUS)

Value-added port and ship services

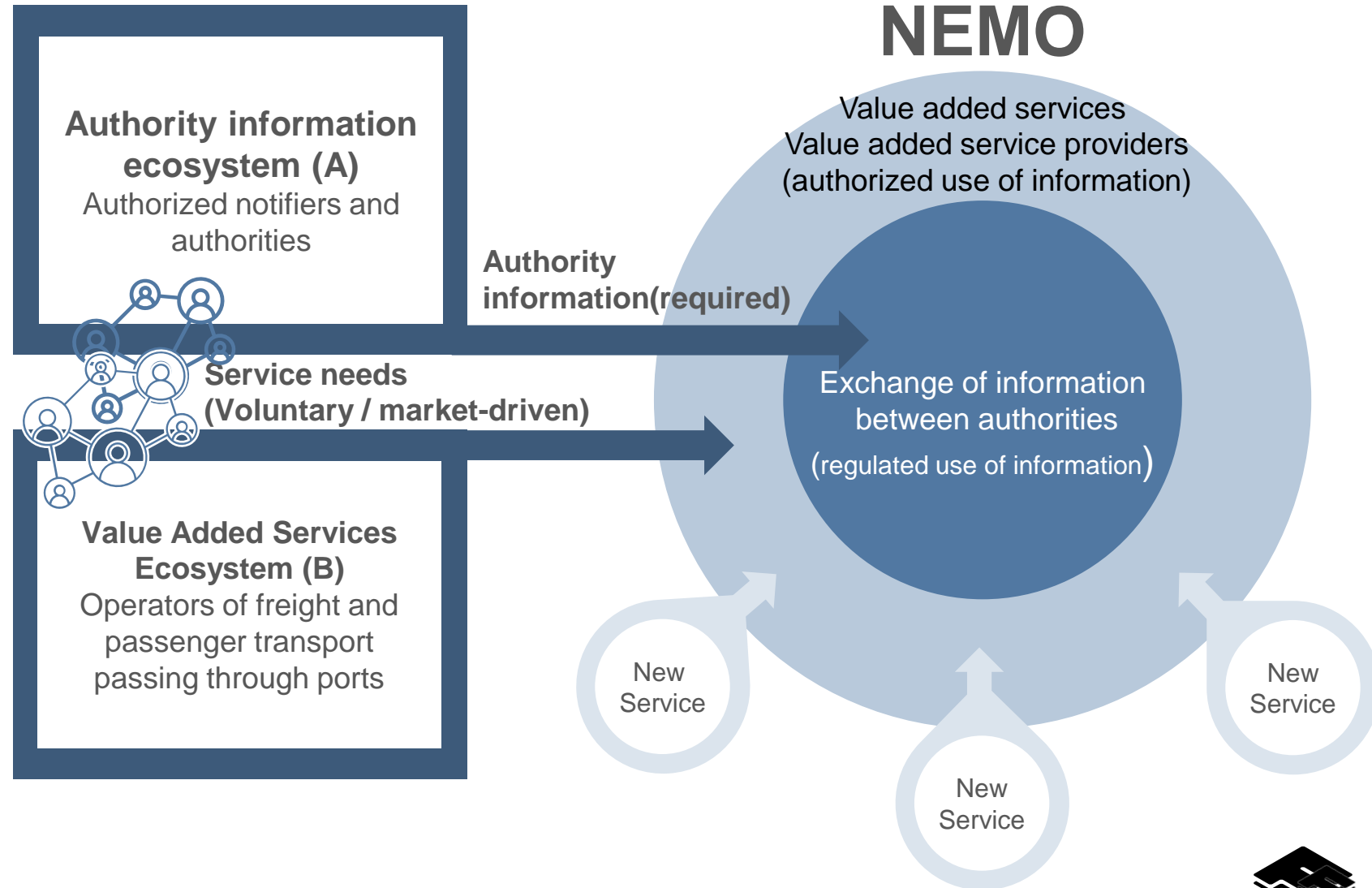


Phased introduction of information systems



National Maritime Notification Service and (NEMO) Value Added Services

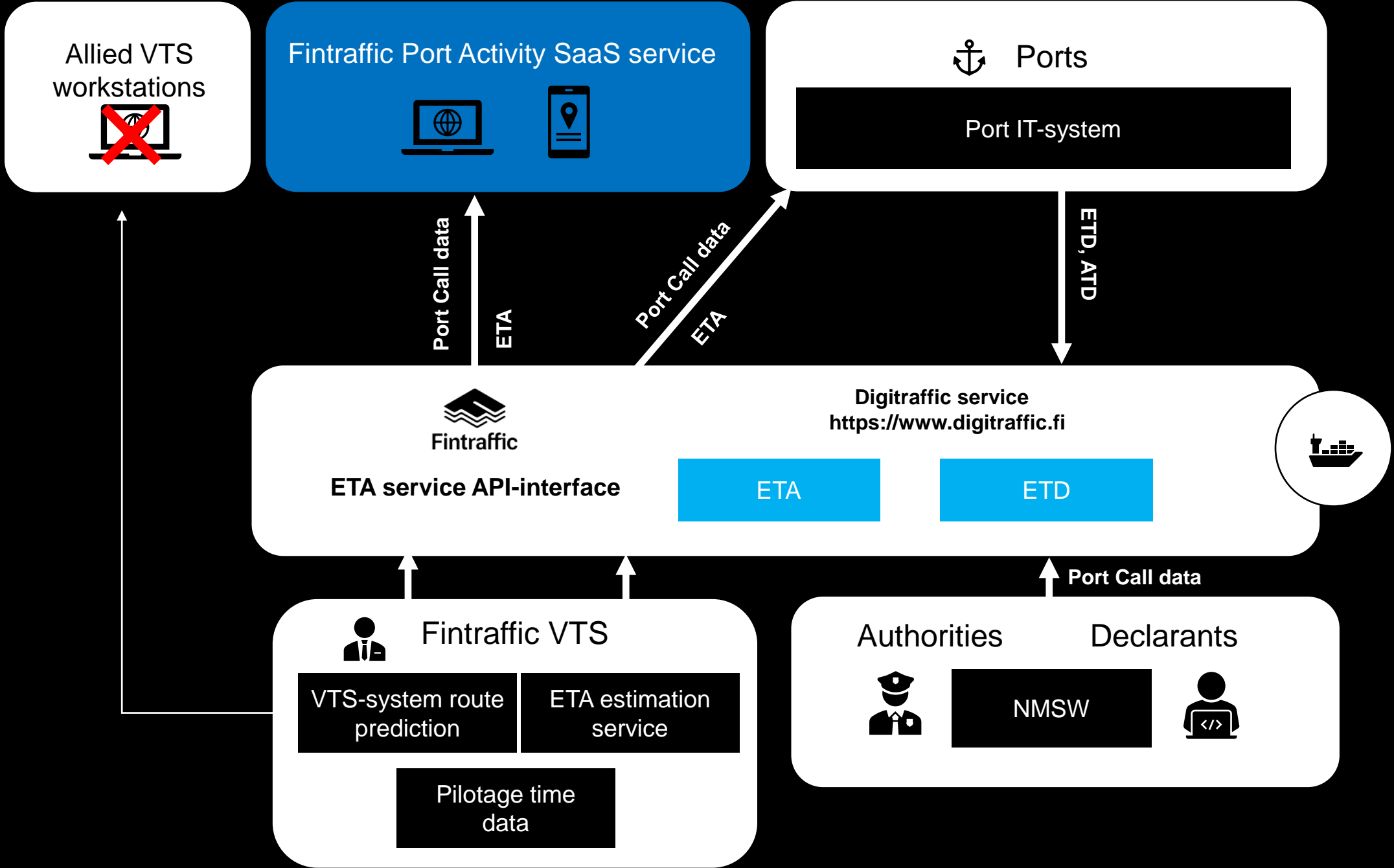
- ▶ Value-added services are services of general interest or commercial services published for notifiers or other operators
- ▶ The need and supply of services will develop naturally later
- ▶ The NEMO system authority information ecosystem is used for reporting formalities related to port calls
- ▶ Open traffic data is published in the Fintraffic public (digitraffic) interfaces for use in the development of value-added services
- ▶ From the beginning of 2023, Fintraffic VTS will start work on defining a publishing platform for value-added services.



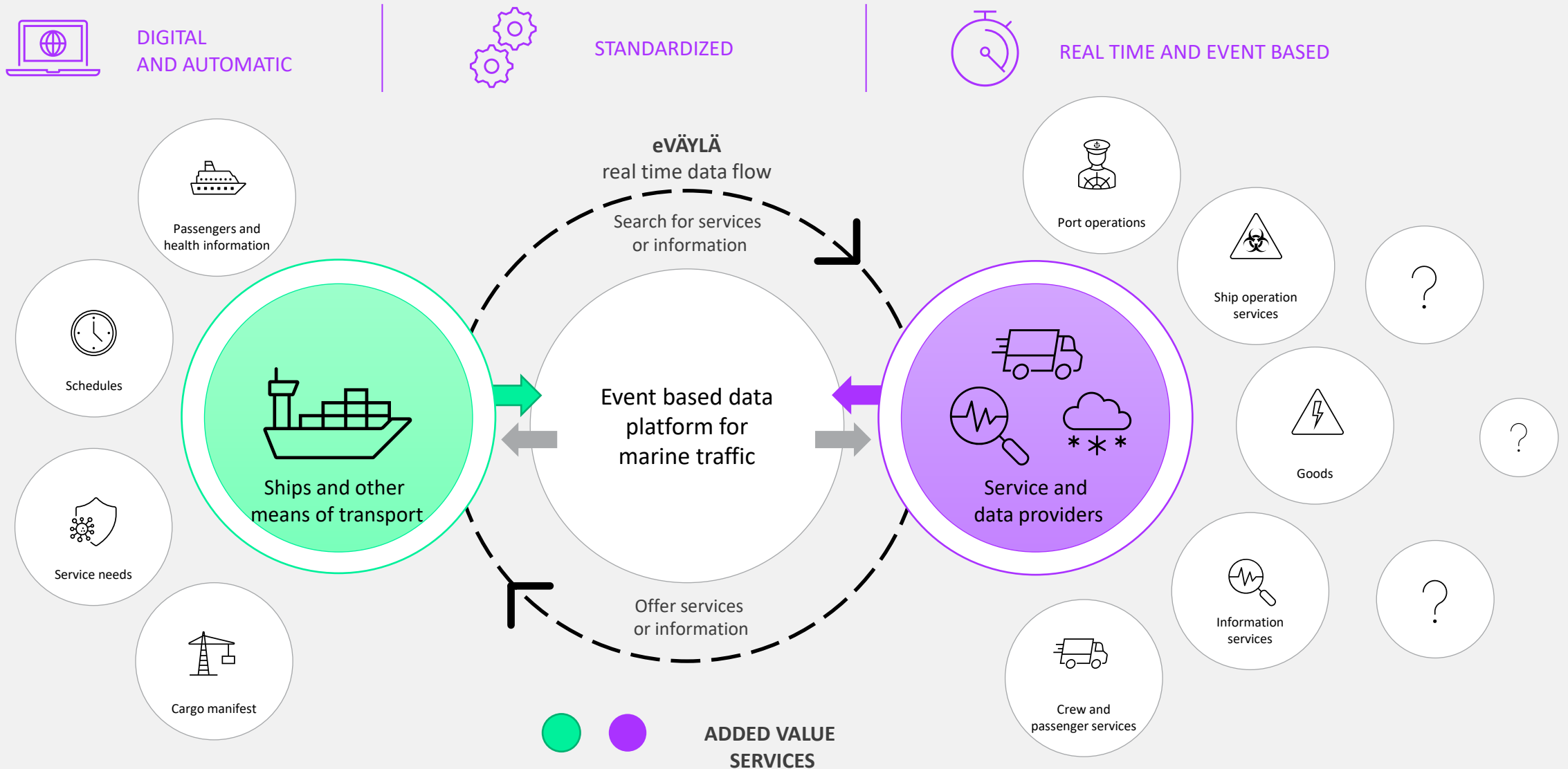
The project identified a total of 59 value-added services in nine different categories

<p style="text-align: center;">Ship port control</p> <ul style="list-style-type: none"> • Ship mooring, unmooring and hauling services • Pilot order • Tug order • Harbor icebreaking • Information on restrictions on port assistance 	<p style="text-align: center;">Ship operation services</p> <ul style="list-style-type: none"> • Maintenance - related services • Sanitation inspection order • Ship security services, eg law enforcement • Orders for various inspections • Up-to-date ship depth information • Icebreaking assistance plans • Billing services for paid services • Various reporting services (waste, security screening) • Preliminary inquiries and instructions / restrictions for VA cargoes • Receipt of dangerous goods • Time of service deliveries • Time information services for various events: VTS area, pilot station, pier, etc. • Announcements of registration numbers of future cars 	<p style="text-align: center;">Transmission of ship and cargo information to port operators</p> <ul style="list-style-type: none"> • Desired lead time window related to ship deliveries • Continuous transmission of real-time vessel time data (intelligent EEA times) • Port-specific ISPS formalities: driving licenses, security regulations, route signs, port maps • Transmission of unloading time information to all ro-ro units (currently only for trailers) • Ro-ro traffic: a standard database for ship traffic for professional traffic • From land to sea: land consignment note (eFTI) linked to the cargo unit in question • Messaging service between the land freight side and the shipping companies • Port billing information - freight charge discounts, congestion charges, etc. information needs • Comprehensive (more accurate) cargo, ie cargo manifest information for Customs 	<p style="text-align: center;">Value-added services for land logistics operators</p> <ul style="list-style-type: none"> • Real-time scheduling information related to the arrival of the vessel for land transport operators • Traffic light rhythm and traffic control solutions • Maps and routes of the port area compiled for land transport operators • Preliminary information on traffic disruptions and estimated additional time, eg by SMS message • Route guidance optimized for conditions for freight traffic • Land cargo tracking data to port: time of arrival of cargo or unloading equipment at port. • Cargo tracking solution in port: the time
<p style="text-align: center;">METOC and port information</p> <ul style="list-style-type: none"> • Weather data: Water level, Wind data • Pier information: minimum length and draft • Preliminary information on the port: situation and schedule of berths, moorings • Winter shipping materials (ice charts, etc.) 			
<p style="text-align: center;">Crew related services</p> <ul style="list-style-type: none"> • Crew transportation • Crew changes (customs) • Crew accommodation services • Catering orders • Health testing and COVID testing • Making a maritime health declaration • Comprehensive crew lists for authorities (PTR) • FAL Supplementing passenger and crew information with shipping company information 			
<p style="text-align: center;">Passenger related services</p> <ul style="list-style-type: none"> • Passenger transport • Subscription for assisted passenger (disabled) assistance service • Health testing and COVID testing 	<p style="text-align: center;">Commodities and waste</p> <ul style="list-style-type: none"> • Water sales • Waste collection or receipt • Bunker order • Shore power 	<p style="text-align: center;">General information services and functionalities</p> <ul style="list-style-type: none"> • Interfaces to historical data • Communication services between actors • Alarm function related to NEMO data • Age of assessment data and providing authority • Wolt-like service for goods obtained from outside the port • Automation of bus charges 	





NEMO, PLATFORM FOR MARINE TRAFFIC INFORMATION



Thank you

