



9th SSN/LRIT Group Meeting

Interoperability project progress report

Agenda item 9.6.1

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Department 3: Simplification / Unit 3.3

Videoconference / 25 May 2021



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Promotion of interoperability between industry and competent authorities in the European Maritime Single Window environment (EMSWe) under the CISE Process

Action grant from DG MARE

Action 1.2.1.4 of European Maritime and Fisheries Fund's work programme for 2018 - Commission Implementing Decision C(2017)8146

Grant agreement signed 18 September 2018

Ends 18 January 2021

Budget: € 3.000.000

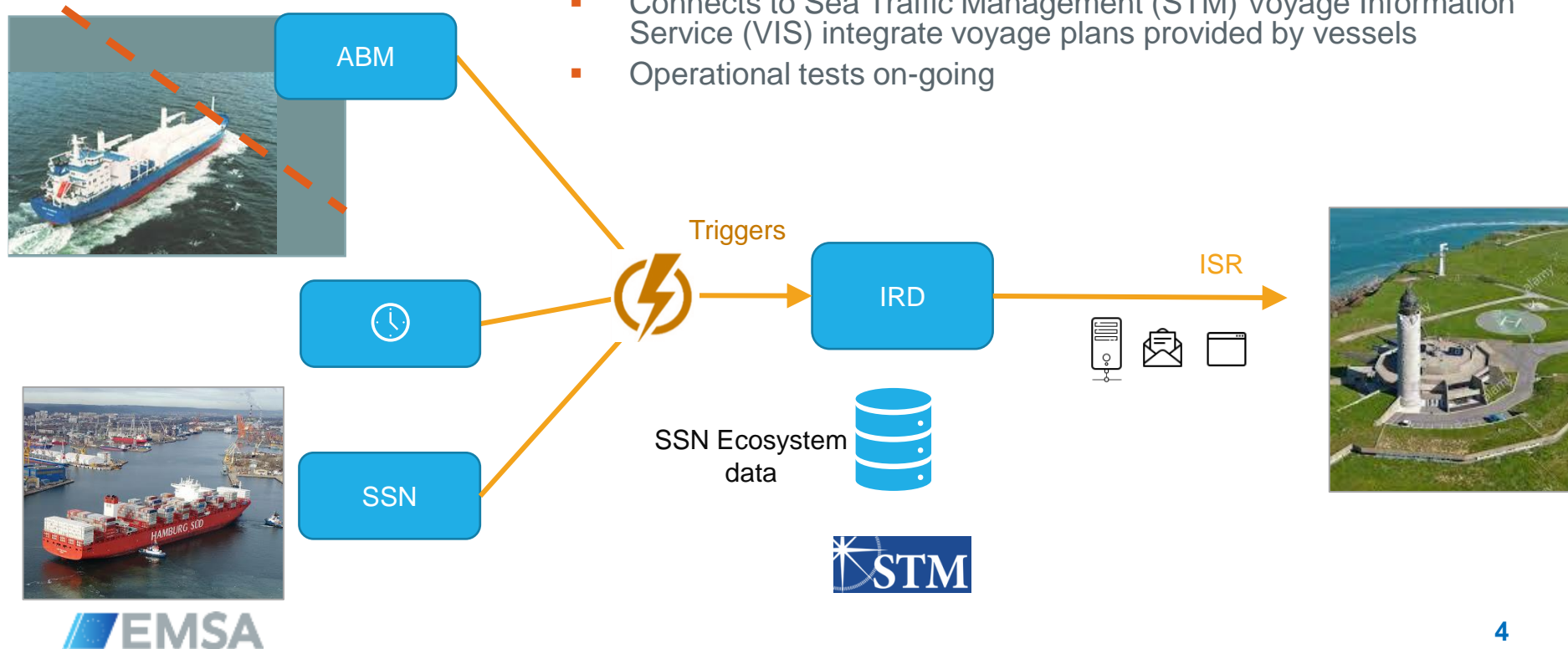


- **Port Calls Detection service** (agenda item 9.6.2)
- **Facilitation of Ship to Shore Reporting**
- **Enhanced Central Ship Database**
- **Traffic Density Mapping service**
- **HAZMAT Data Validation service**

Facilitation of ship to shore reporting

Facilitate MRS and VTS reporting from ship to shore and improve coastal stations' situation awareness by re-using and combining SSN information

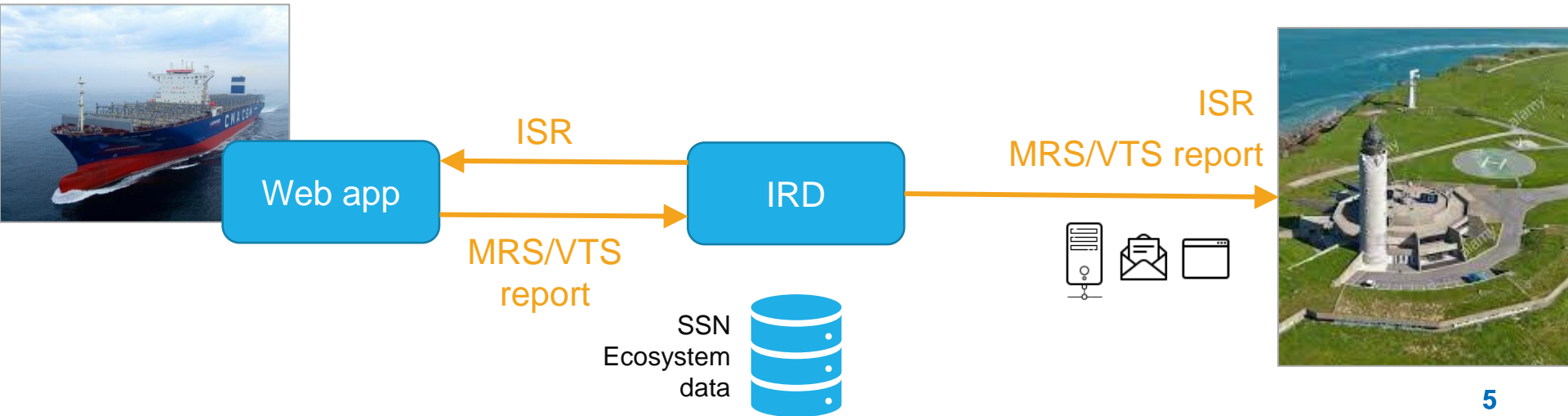
- 14 Member States
- 5th project meeting held 8 April
- Technical solution: IRD – Integration Reports Distribution service
- Sends Integrated Ship Reports with consolidated SSN Ecosystem's data to authorities using triggers
- Connects to Sea Traffic Management (STM) Voyage Information Service (VIS) integrate voyage plans provided by vessels
- Operational tests on-going



Facilitation of ship to shore reporting

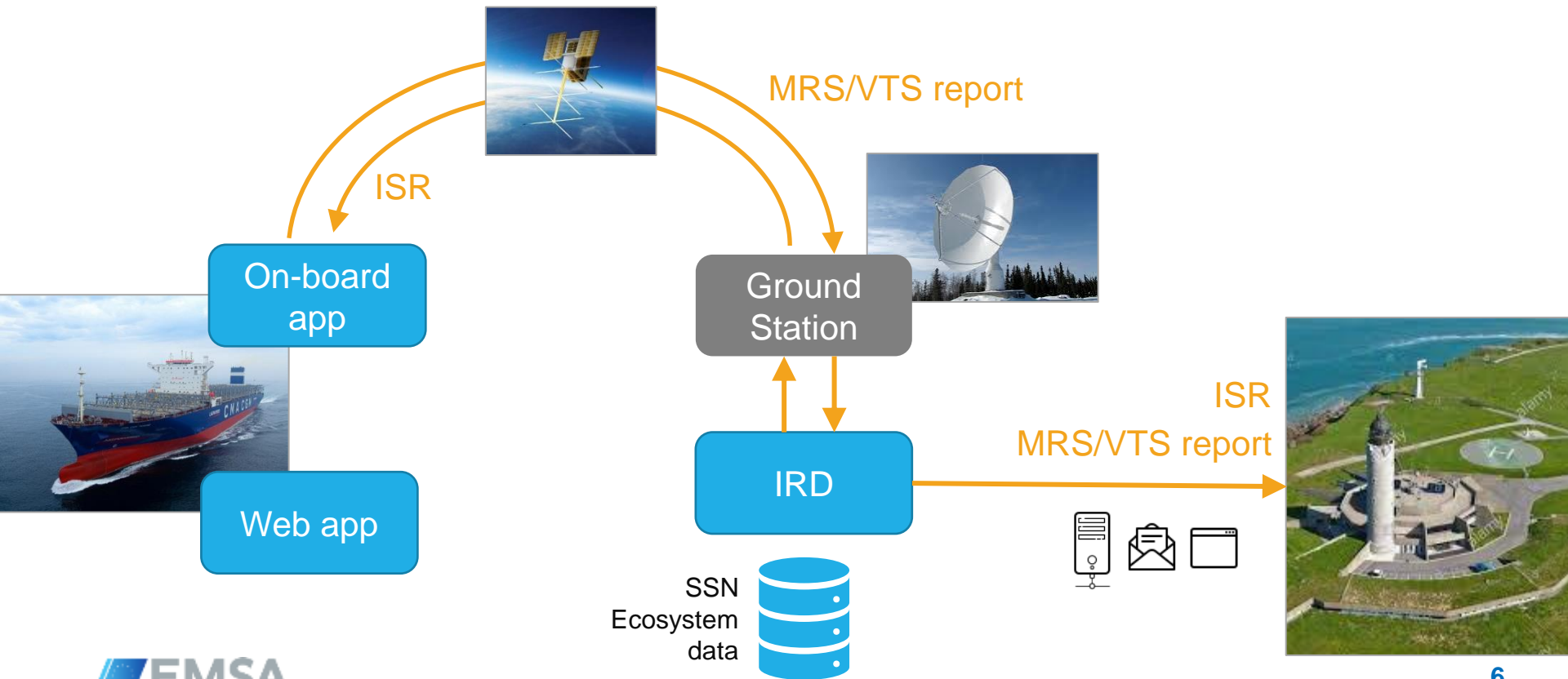
Phase 3 under development:

- Web user interface for ships to report MRS and VTS reports
- MRS and VTS reports pushed to coastal stations
- Reuse of Integrated Ship Report data
- Includes VDE-SAT testing
- Operational tests in summer 2021



VDE Capability project

- Test VDE-SAT solution in cooperation with Space Norway and ESA.
- Connection of EMSA IRD system (phase 3) with Norwegian ground station, development of on-board application connected to ship's VDE-SAT equipment.
- Operational tests in summer 2021.

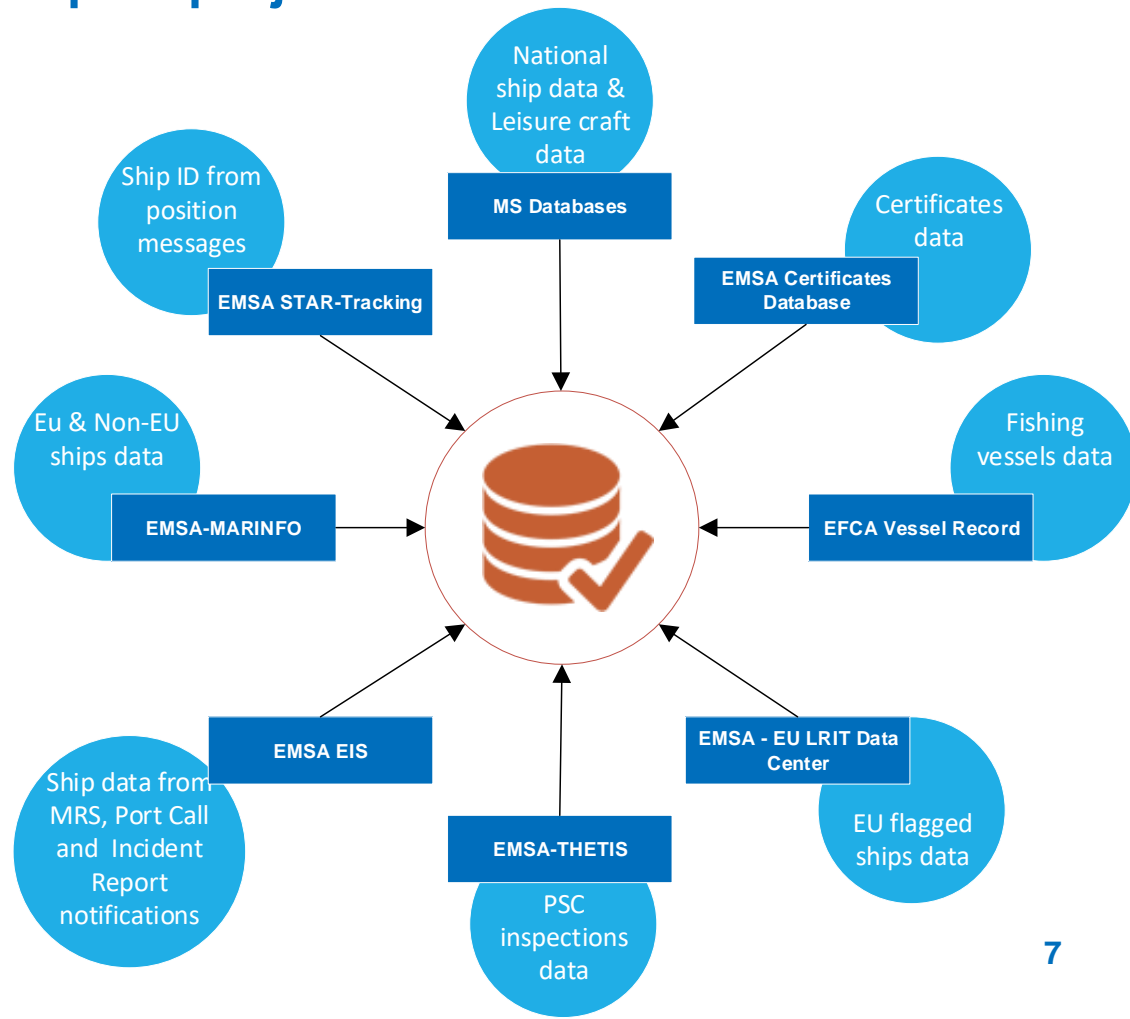


Enhanced Central Ship Database

Collects ship information from SSN Ecosystem, EU databases, National databases, ROs, commercial data providers

11 Member States involved in the pilot project

- Uses Master Data Management platform Tibco EBX
- Dynamic management of data model and processes
- First version to be deployed in June
- Connection with MS databases and Certificates database to be planned
- Will serve as reference for all EMSA maritime applications



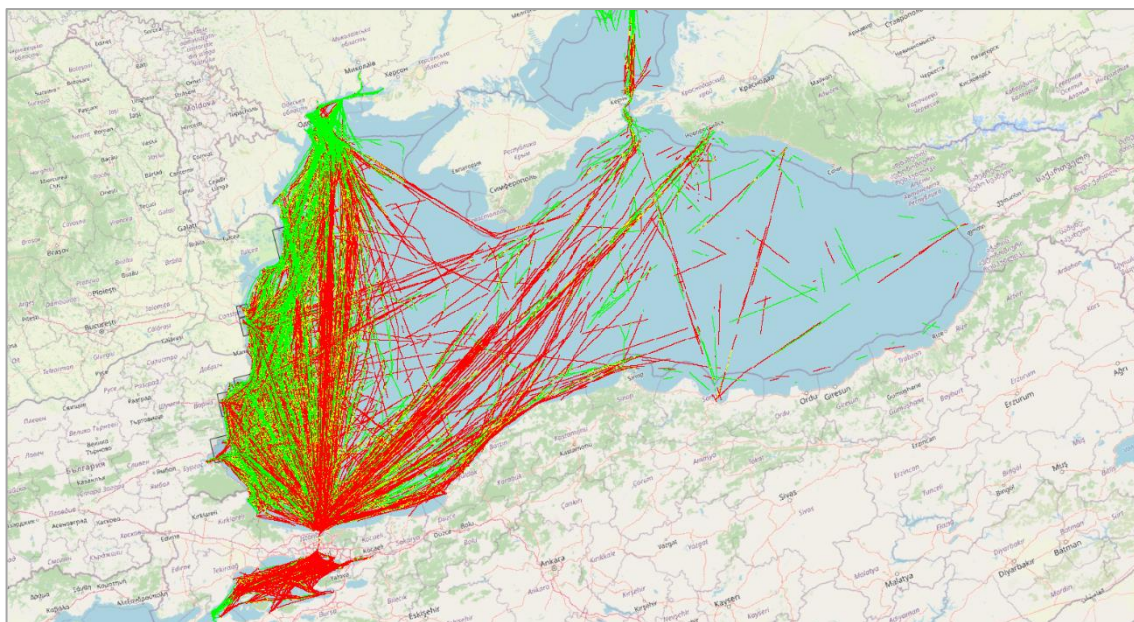


Further development of the traffic density mapping service:

- **Detailed maps** for specific areas of interest, with 200x200 m cells
- **Comparative maps** presenting differences between two standard traffic density maps, calculated on user's request
- **Vector maps** showing individual ship track, for specific areas of interest
- Possibility to **download maps** (GeoTiff image files, data files) and to see **values of individual cells**

Traffic density maps

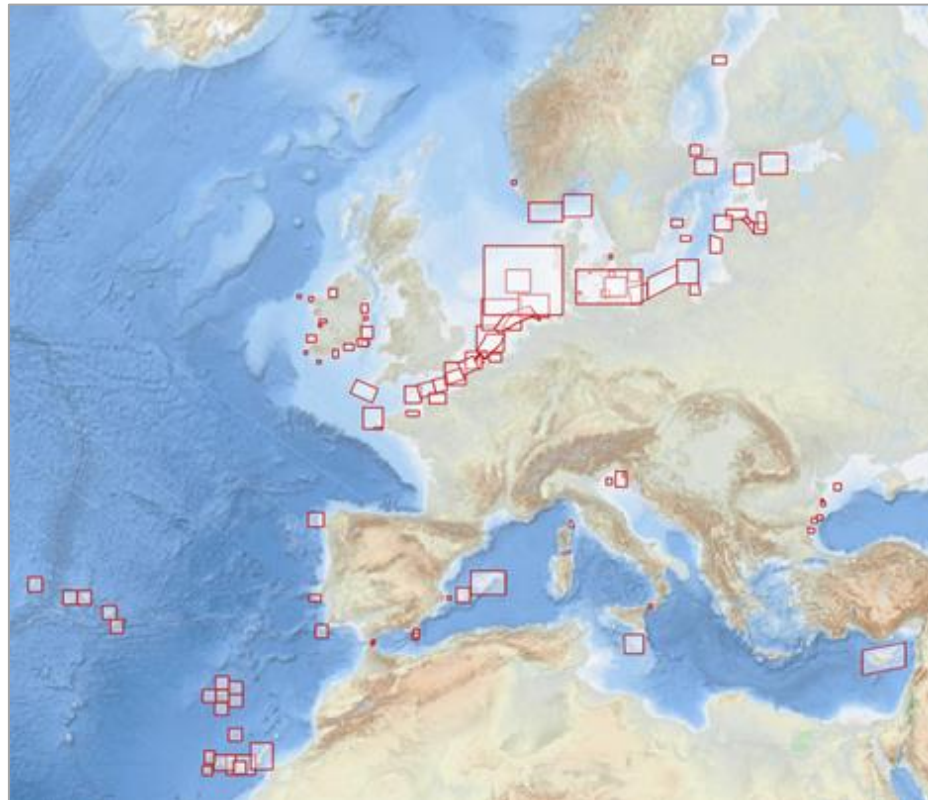
Comparative TDM: compares two selected Standard TDMs of the same type, area, time category and ship type range but different time periods



- Higher value
- Equal value
- Lower value

Traffic density maps

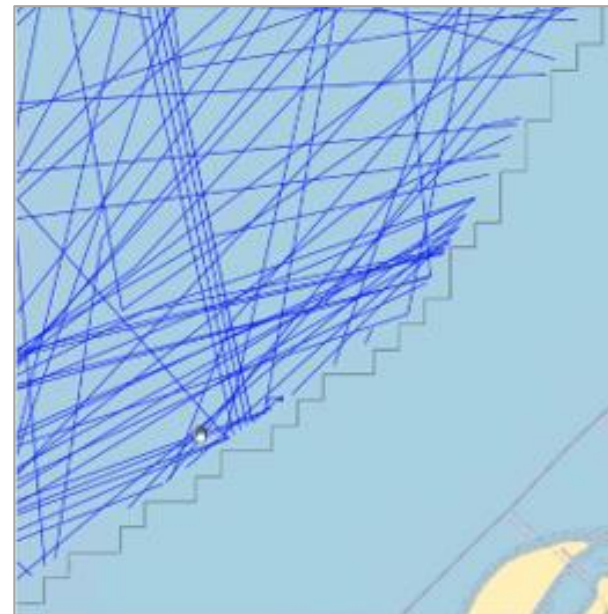
Detailed TDM: constructed for all time categories (i.e. month, season, year) but only for the predefined specific areas of interest



Traffic density maps

Vector TDM: presents routes of ships as polylines within predefined specific areas of interest

- only for the ship type range “All traffic”
- only monthly maps (due to the size of data)
- metadata for each ship route without disclosing ship’s identity





Purpose

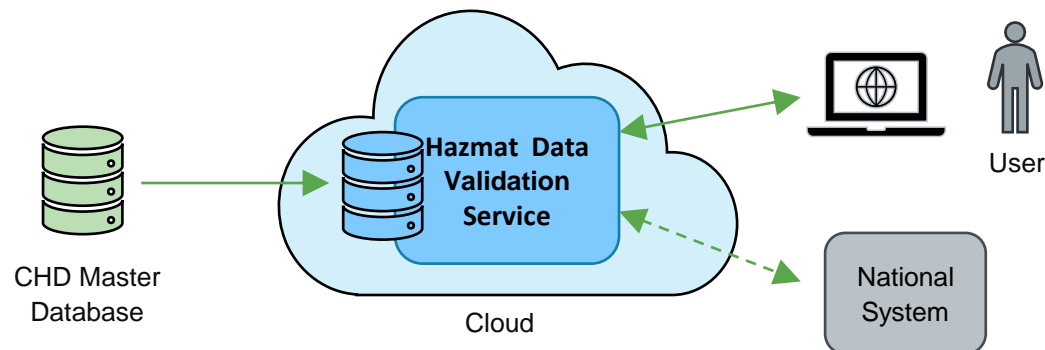
A service that can be used by the SSN Community (EMSA MSS and MS authorities) to control that ship's dangerous and polluting goods declarations are consistent with the relevant IMO Codes and Conventions

Features

- Web user interface where user can upload DPG lists in XLSX and SSN XML format
- Generates a validation report that identifies each non-consistency

HAZMAT Data Validation service

- Independent service hosted in Cloud
- Synchronises with EMSA's Central Hazmat Database (CHD)
- User authentication with EMSA's IdM
- System interface with national system will be assessed depending on need
- Extension to other user communities will be investigated (e.g. MNSW)





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