EMSA's Integrated Maritime Services: Improving Operational Maritime Awareness at EU level

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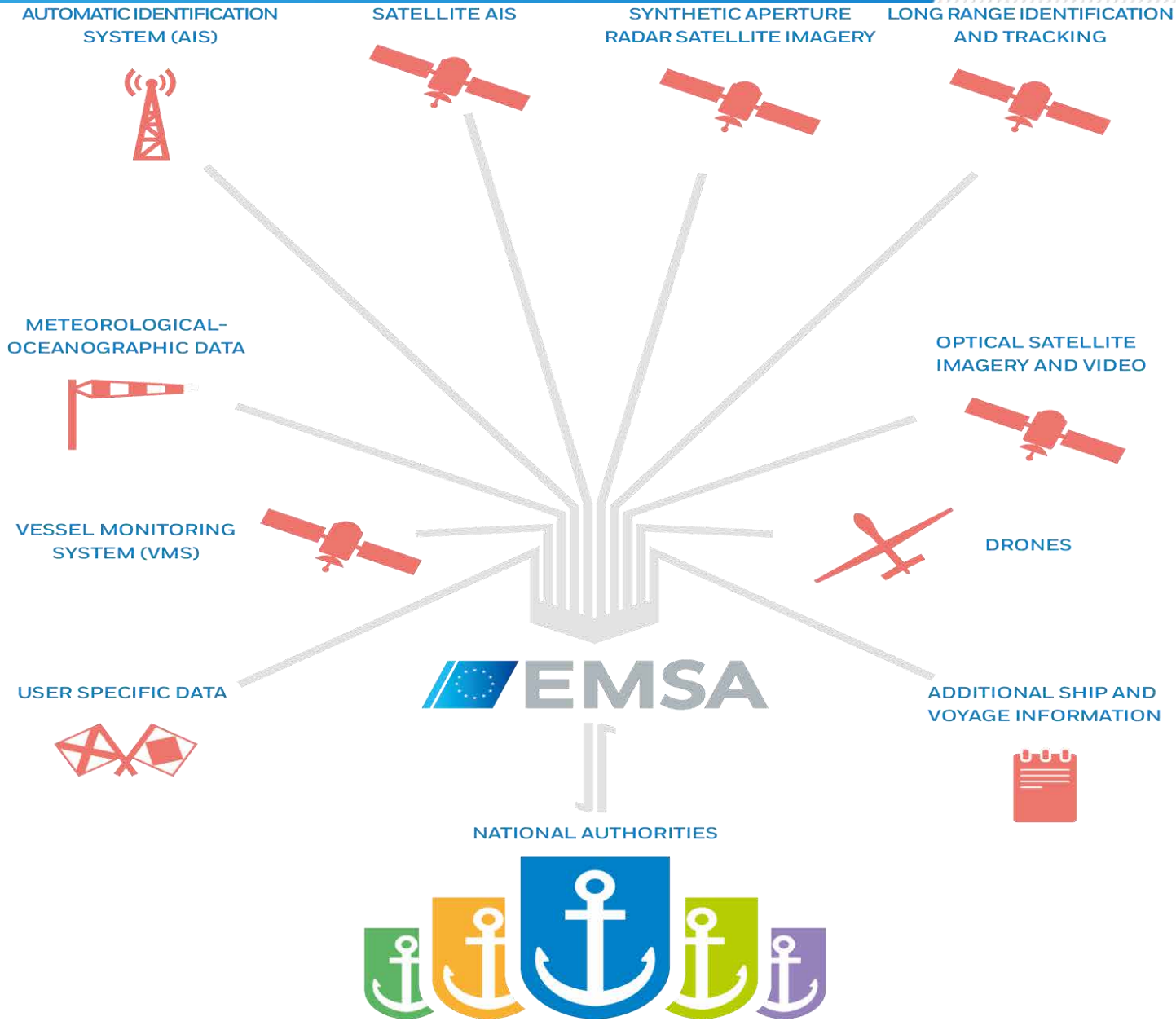
EMSA

IMS – Integrated Maritime Services



Definitions

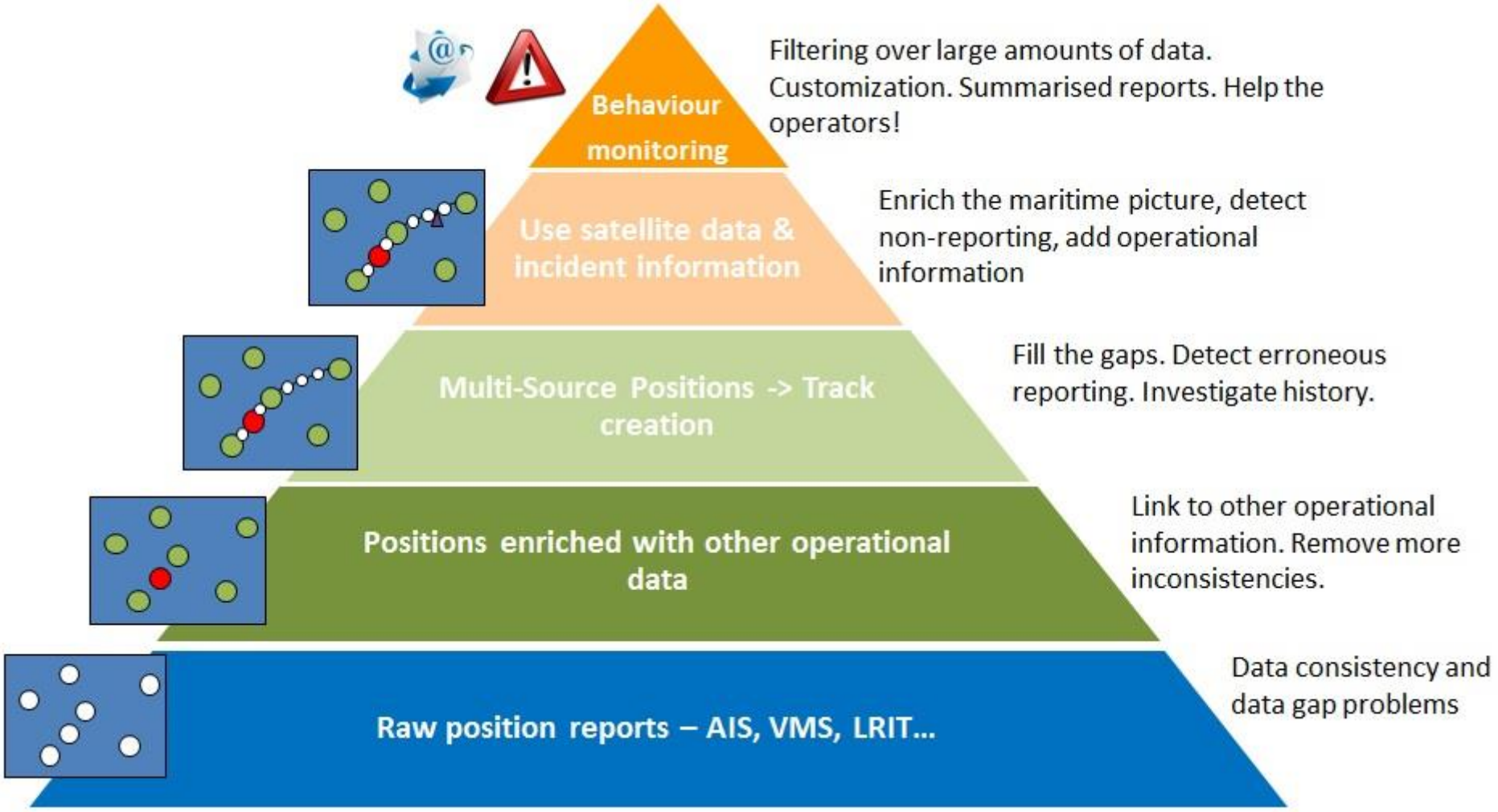
Integrated Maritime Services (IMS)

- Configurable, voluntary, functionalities, ***promoting regional, national and local cooperation, providing an enhanced maritime picture***, using the integration capability, following the agreed access rights and responding to the users specific needs.

- These functionalities foster the ***sharing and exchange of data*** between different users and applications and provide ***additional, complementary and supportive tools***. They do not replace any existing systems and mandatory system functionalities.

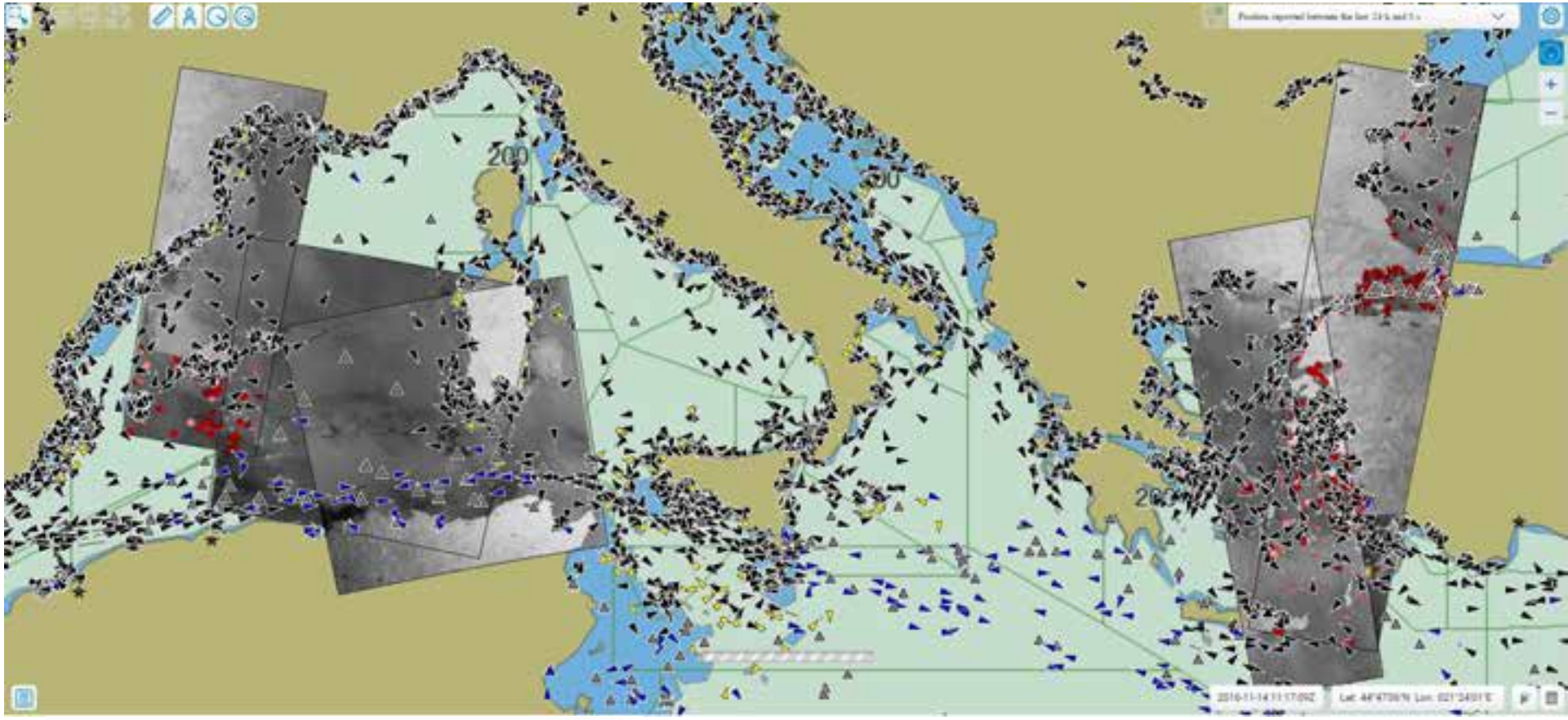
- IMS are offered to EU Member States and EU Bodies, following a ***functional approach***, i.e. IMS are offered to ***all authorities/organisations executing functions in the maritime domain***.

Integration of Maritime Data



Building higher order products/services

IMS - Position reports used



VESSELS SYMBOLOGY

Data source	Heading	Risk status
T AIS data	Heading available	Single Hull Vessel
SAT AIS data	No heading available	Banned Vessel
LRIT data		Detained Vessel
VDS data		
VMS data		

VDS SYMBOLOGY

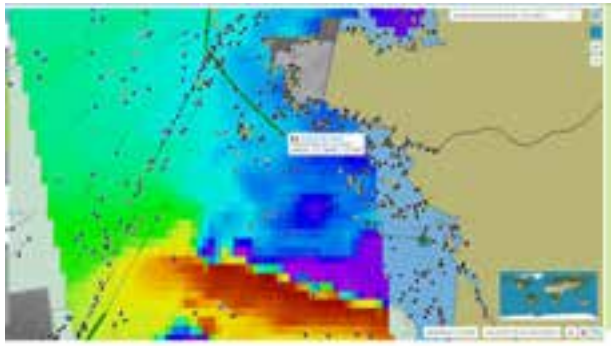
- Correlated
- Non correlated

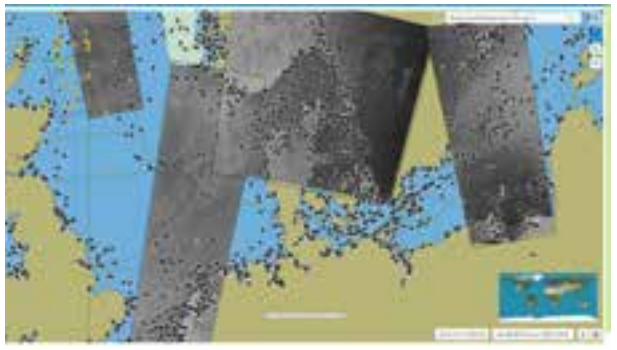
POTENTIAL OIL SPILLS SYMBOLOGY

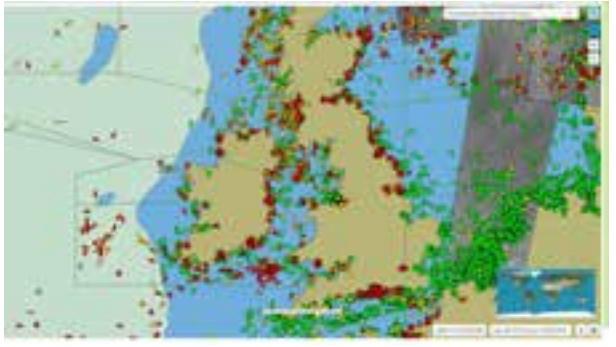
- Class A
- Class B

Main functionalities

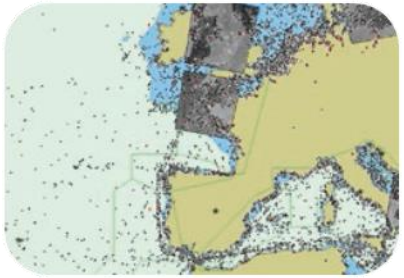
- A ***single screen*** combining all data, tailored to the users needs;
- ***Integrated ship tracking***, including the correlation among different data sources (T-AIS, SAT-AIS, LRIT, VMS, etc.);
- Availability of a ***global Satellite-AIS data*** stream;
- Availability of ***met-ocean data*** (in-situ, remote sensing and forecast);
- Display of the ***ice concentration, ice thickness*** maps***;***
- Integration of ***specific MS sources*** of information;
- ***Sharing*** of relevant data;
- Provision of ***Automated Behaviour Monitoring*** alerts;
- Availability of ***System-to-System interfaces***.

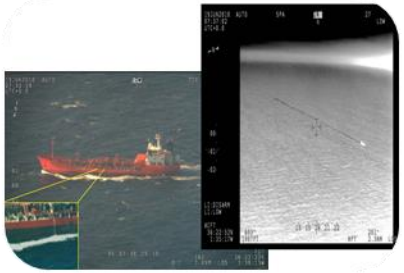






Users needs and their functions





MARITIME SAFETY & VESSEL TRAFFIC MANAGEMENT

Member States

MARITIME ENVIRONMENTAL PROTECTION & RESPONSE

Member States

MARITIME SEARCH & RESCUE

Member States

MARITIME BORDER CONTROL

Frontex

ANTI-PIRACY & MARITIME MIGRATION

EU Navfor

FISHERIES INSPECTION & CONTROL

EFCA

MARITIME CUSTOMS ACTIVITIES

OLAF

PREVENTION & SUPPRESSION OF TRAFFICKING & SMUGGLING & RELATED MARITIME LAW ENFORCEMENT

MAOC-N

IMS - Overall distribution of users

IMS: NUMBER OF USERS PER AUTHORITY TYPE

TYPE I - INSTITUTIONS/EU BODIES

230 TOTAL NUMBER OF USERS DISTRIBUTED AMONG

EFCA	54
MAOC-N	17
DG MOVE	1
OLAF	27
EU NAVFOR	15
DG MARE	30
FRONTEX	6
EMSA	72

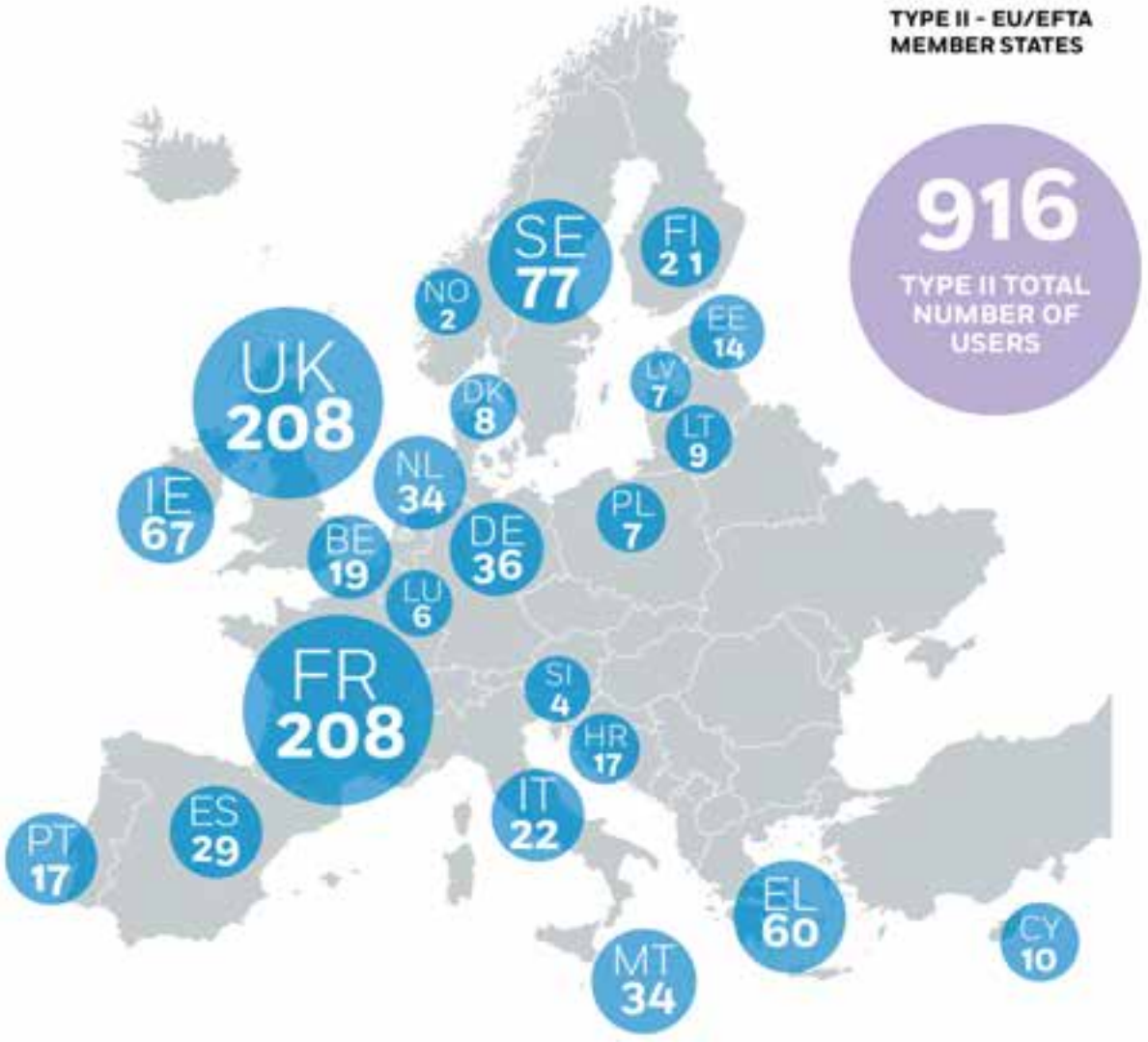
TYPE III - NON-EU MEMBER STATES

39 TOTAL NUMBER OF USERS INVOLVING

ALGERIA	14	JORDAN	2
AZERBAIJAN	1	LEBANON	1
GEORGIA	2	MOROCCO	9
ISRAEL	2	TUNISIA	8

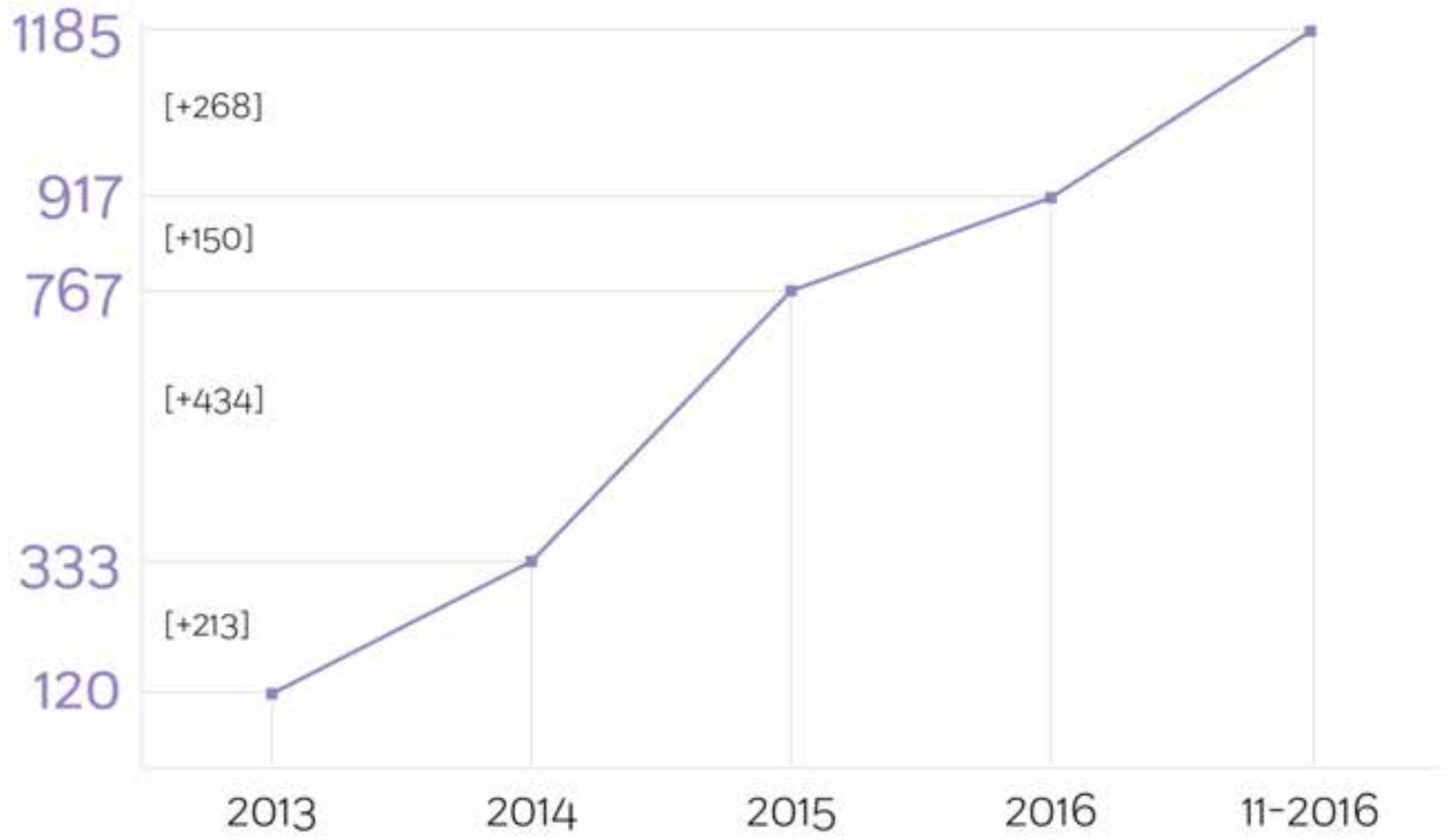
TYPE II - EU/EFTA MEMBER STATES

916 TYPE II TOTAL NUMBER OF USERS



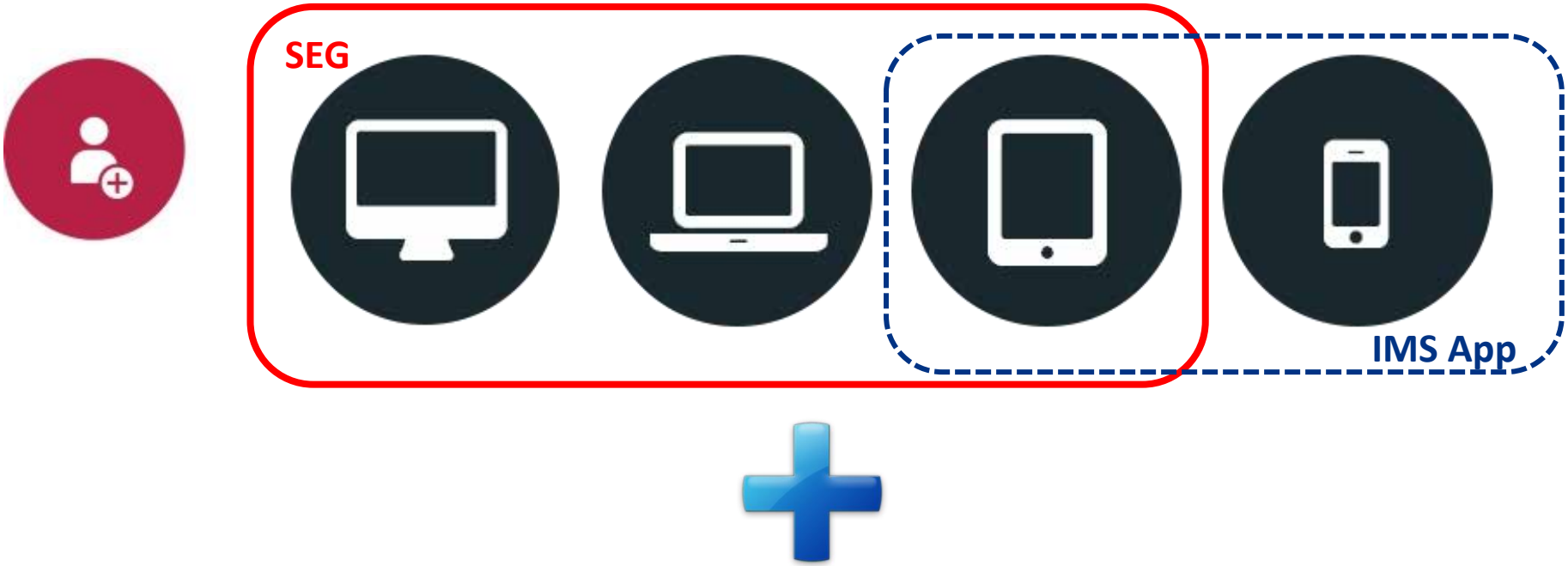
Evolution of users: 2013->2016

IMS: TOTAL NUMBER OF USERS PER YEAR

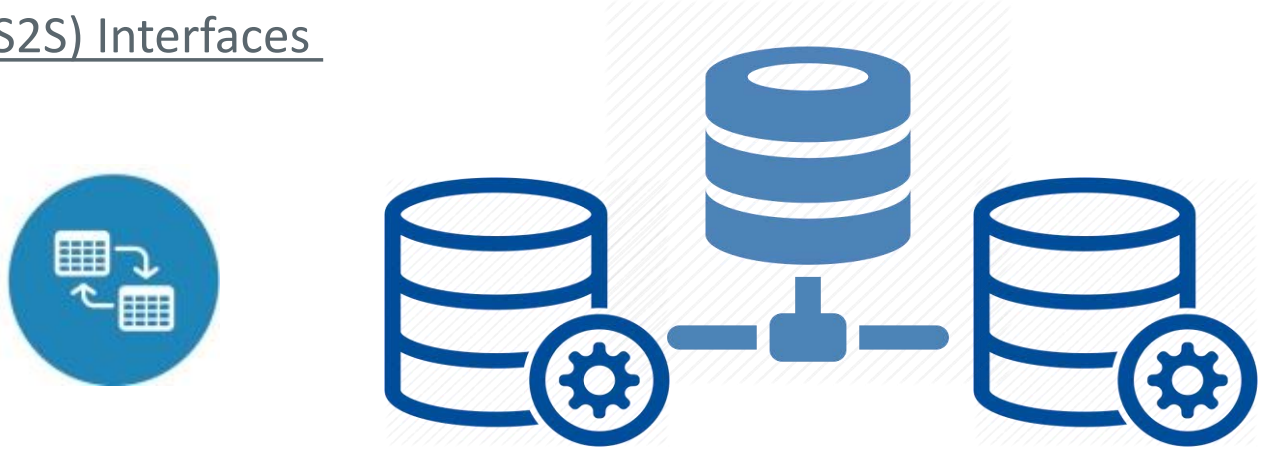


Access to IMS (1/2)

Graphical User Interfaces

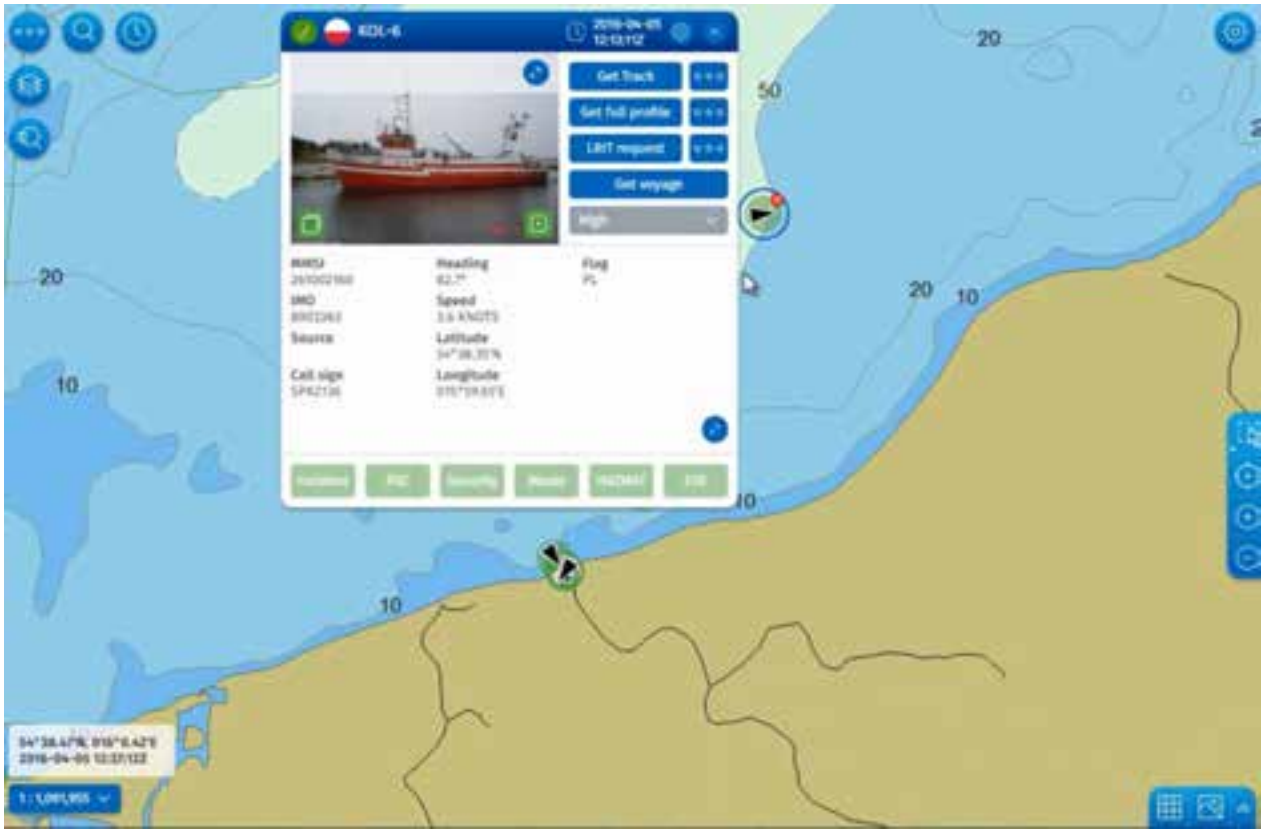


System-to-System (S2S) Interfaces



Access to IMS (2/2)

SEG – SafeSeaNet Ecosystem GUI



IMS Mobile App

Conclusions

Through IMS Services EMSA strives to:

- Promote and increase regional, national and local ***cooperation***;
- Provide additional, complementary and supportive ***data, information and tools*** for enhancing maritime domain picture;
- Provide relevant services to all authorities/organisations executing functions in the ***maritime domain***;
- Respond to detailed needs and ***requirements*** as specified by ***users***;
- Provide services to users which are ***Easy*** to use, ***Fast*** to develop and ***Cost-effective*** to run.

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EMSA
European Maritime Safety Agency