

Update on ABMs

IMS Group UCM#14

Lukasz Bibik

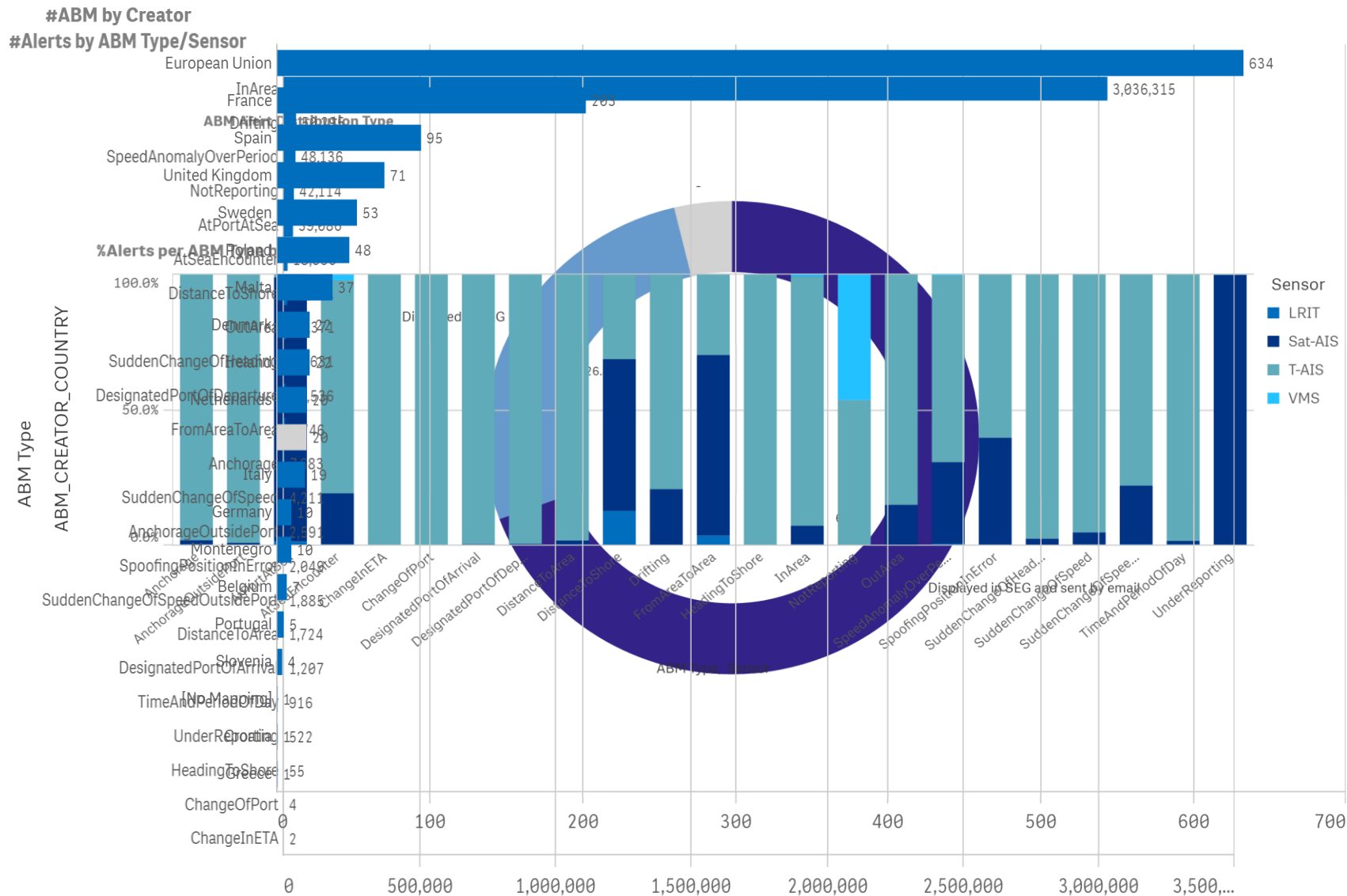
Lisbon, 30.10.2019



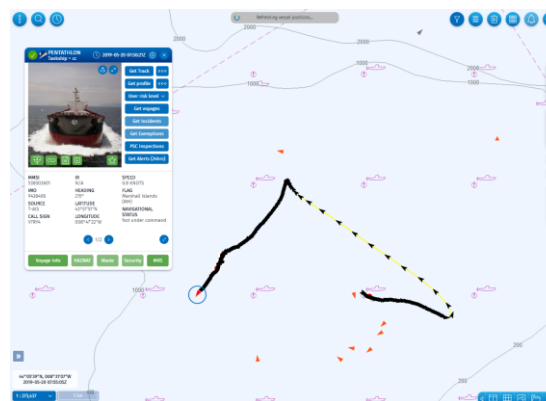
- **Status**
- **Recent and planned Developments**
- **Next steps**
- **ABM WS5**
- **Interfaces**
- **Actions**

- **120 ABM admin accounts granted to 18 Member States, 1 candidate country, 5 EU Bodies and EMSA**
- **420 running (actively used) ABM algorithms. An additional 750 ABMs were used over last year**
- **110 distribution lists to more than 300 users**
- **The top five most popular ABM algorithm types, have been: 'In Area'; 'Not Reporting'; 'Drifting'; 'At Sea Encounter'; 'From Area to Area.**

Status - stats

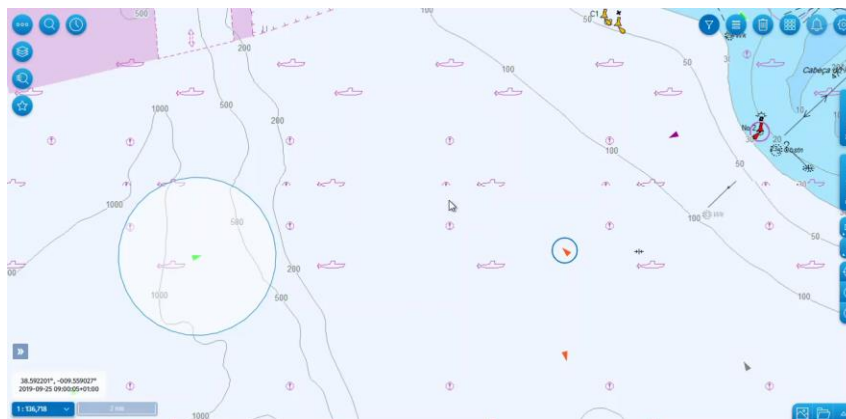


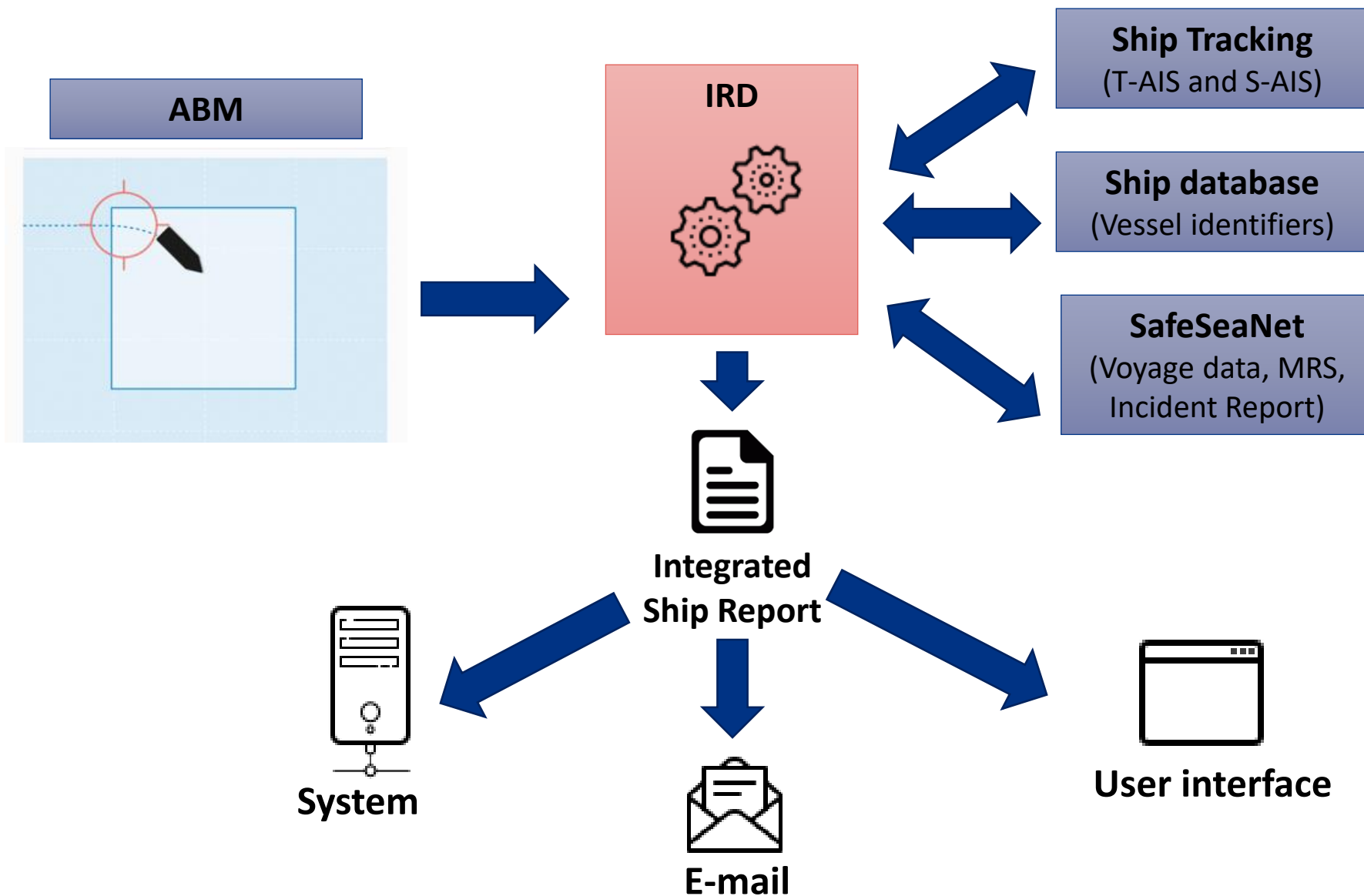
- ✓ ABM technical module was updated to the new version – STAR ABM 3.1
- ✓ UCM#13 meeting, agreed to extend the scope of the ABM Working Group to include Data Analytics and the use of new technologies (e.g. machine learning)
- ✓ Training activities for the new ABM administration console



Position Details				
MMID	R0		N.A.	
IMO	9150408		Call Sign	
9150408	V7814			
Flag State	Name			
SRI	PENTATHLON			
Timestamp	Latitude	Longitude	Heading	Speed
2019-09-20T14:05:20Z	43.888	-8.787	177	0.3
Location in Map				
L20				
Alert Details				
ID	1586228976335		Surveillance description	
Surveillance name	GLOBAL_DRIFT_T_VALIDUBI_BISCAY		GLOBAL_DRIFT_T_VALIDUBI	
Start Time	2019-09-20T14:05:20Z		End Time	2019-09-20T14:35:40Z
Event Details				
Event type	Drifting			
Status	DRIFTING			
Start Time	2019-09-20T14:05:20Z		End Time	2019-09-20T14:35:40Z

- ❑ Uncorrelated VDS in Area, Zone around the ship, navigational status change, line crossing;
- ❑ Use of the LOCODES database in ABMs (e.g. for port arrivals)
- ❑ Upgrades for MS/ Frontex/ 'Interoperability' projects
- ❑ Improvement of the ship reference DB





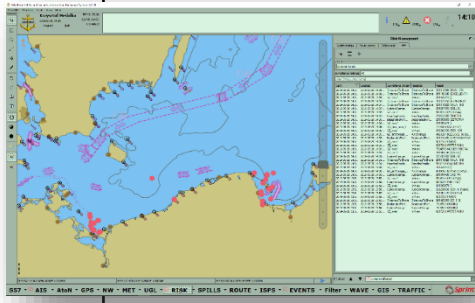
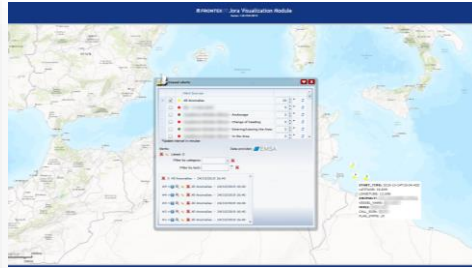
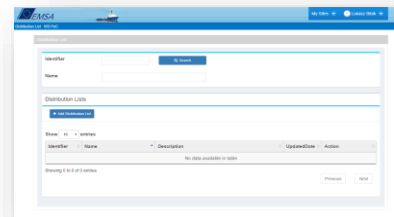
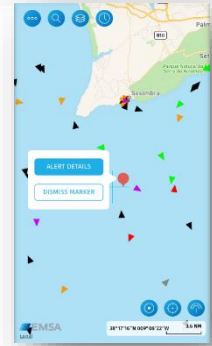
- **Automated Behaviour Monitoring (ABM) and Advanced Analytics Working Group Workshop is planned on 04 December**

Objectives are:

- To present and discuss ABM-related developments, setting future priorities;
- To share operational aspects and practices on the use ABMs by different communities, Member States and EU bodies;
- Discuss scenarios for Advanced Analytics, Risk Assessment and the usage of new technologies (e.g. Machine Learning)



ABM Interfaces available

Functionality ->	ABM configuration	ABM- alerting mechanism	Configuration of the ABM alerts distribution lists
Interfaces	S2S	S2S	EMSA Maritime Portal (new interface)
			
	SEG (new interface)	SEG (new interface)	
		IMS Mobile App	
		E-Mail	
	WUP (old interface) *	WUP (old interface) *	

- **Take note of the current ABM status**
- **Analyse operational needs + communicate them to EMSA (ABM WS 5 and UCM#14)**
- **Approve decommissioning of the ABM admin in WUP**
- **Volunteers are needed for the:**
 - Validation of the future ABMs; (during 2020)
 - Definition of the Advanced Analytics scenarios ;
 - Validation of the requirements for historical and combined ABMs scenarios. (Nov 2019 – Mar 2020)



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 **EMSA**
European Maritime Safety Agency

Example – import function

Vessels **Import** ▾

Download .csv model

Select File...

abm_import_vessel.csv



Vessels **Vessel list** ▾



MMSI



259131000



IMO



7368695



IR



LFXX



Vessel Name



Skulebas



Call Sign



LFXX



Flag



(NO) Norway



Vessel Type



Vessel Type



Search Vessels

What's next? (Ref. 1)

No.	TOPICS	STAR ABM version	Foreseen date	MS assistance needed	Status
1	DECOUPLING OF THE ABMS FROM IMS/IMDATE PLATFORM	STAR ABM 3.0	Q42018 – Q1 2019	Yes - validation (volunteers)	✓
2	IDM V2 - ROLES AND POLICIES	IDM V2	Completed – to be implemented Q4 2018	Should be transparent for the users	✓
3	USE OF THE VDS IN NEW 'VDS UNCORRELATED IN THE AREA'	STAR ABM > 3.0	~Q3 2019	Yes - validation (volunteers)	↻
4	USE OF THE COG IN STEAD OF HEADING	STAR ABM > 3.0	~Q3 2019	Yes - validation (volunteers)	↻
5	CHANGING THE ABM REPORTS CONTENTS	STAR ABM 3.0	Q2 2019	Yes - validation (volunteers)	✓
6	MOVING THE ABM ADMIN TO SEG	STAR ABM 3.0	2018	Yes – ongoing validation IT, DK	✓
7	DISTRIBUTION OF ALERTS S2S	STAR ABM 3.1	2018	PL, FX	✓

What's next? (Ref. 2)

No.	TOPICS	STAR ABM version	Foreseen date	MS assistance needed	Status
8	CONFIGURATION OF THE ABM INSTANCES VIA S2S	STAR ABM3.1	2019	-	✓
9	NEW ABMS	STAR ABM > 3.1	Q3 2019	-	↻
10	HISTORICAL ABMS	N.A. new module/ technology	on-going/ completed POC	-	↻
11	INCREASE OF THE T-AIS FREQUENCY	STAR ABM 3.0 / STAR TRACKING	2019	RO	✓
12	LOCODES - CLD SYNCHRONIZATION	STAR ABM > 3.1	Q2 2019	-	↻
13	CONFIGURATION OF THE DISTRIBUTION LISTS BY THE ABM ADMIN	STAR ABM 3.1	2019	-	✓
14	USE OF THE REGISTERED CGD AREAS FOR THE AOI SELECTION	STAR ABM > 3.1	> 2019	Upload/ provide CGD areas	↻