



# 7<sup>th</sup> SSN-LRIT Group Meeting

## SSN Data Quality Report

Agenda item 7.5.1

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Unit 3.1 – Maritime Digital Services

Video-conference / 13 May 2020





- 1. SSN IMPLEMENTATION**
2. SSN AVAILABILITY AND PERFORMANCE
3. DATA QUALITY AND AVAILABILITY
4. INTERFACE WITH THETIS

# SSN Implementation



Central SSN				National SSN
- SSN BCF exercise	2019	SSN/LRIT 6	OCT	- SSN Training in Germany - Meeting with Irish NCA in EMSA
		2nd "Incident Reports" WG	NOV	- Latvia and Greece switched to SSN V4
		1st Waste WG		
- Deployment of SSN v.4.3 in Production			DEC	
- Deployment of UNECE LOCODEs (released 12Dec2019)	2020	6th HLSG	JAN	- Cyprus switched to SSN V4
			FEB	
- Deployment of CLD and COD v.1.2 in Production			MAR	- Finland switched to SSN V4
			APR	
		SSN/LRIT 7	MAY	
- Deployment of SSN v.4.4 in Production		3rd "Facilitation of ship to shore reporting"	JUN	
		7th HLSG	JUL	

# SSN Implementation – SSN V4 status

Member State	Commissioning tests stat	In production with V4
Belgium	Completed	Yes
Bulgaria	Scheduled for June 2020	No
Croatia	Completed	Yes
Cyprus	Completed	Yes
Denmark	Completed	Yes
Estonia	Completed	Yes
Finland	Completed	Yes
France	Completed	Yes
Germany	Completed	Yes
Greece	Completed	Yes
Iceland	Completed	Yes
Ireland	Completed	Postponed due to COVID-19
Italy	Completed	Yes
Latvia	Completed	Yes
Lithuania	Completed	Yes
Malta	Completed	Yes
Netherlands	Completed	Yes
Norway	Completed	Yes
Poland	Completed	Yes
Portugal	Partially completed	1st phase scheduled May 2020
Romania	Completed	Yes
Slovenia	Completed	Yes
Spain	Completed	Yes
Sweden	Completed	Yes
United Kingdom	No updated information	No

## Recommendation 1:

Member States are invited to note the presented information, and to provide feedback should there be any changes

# SSN Implementation – Exemptions



**Since SSN v4 the reporting on Exemptions has been improved:**

- Exemption on Waste fees and Exemption on Waste Delivery (in addition to Waste Notification)
- Waste types to which the Waste Exemption is applicable
- Ports to which the Exemption is applicable – “Exemption applies to”
- Port Facilities to which the Security Exemption is applicable – included under “Exemption applies to”

**“Guidelines on reporting PortPlus and exemptions in SSN”** provides some guidance and identify the best way forward.

## **Recommendation 2:**

**Member States are invited to register exemptions in SSN system and update the existing exemptions information in SSN, in particular the information regarding the Ports to which the Exemption is applicable, in order to allow SSN to associate the exemption information to the relevant voyage.**

# SSN Implementation – Ship MRS

Member State	Shipcalls			AIS <sup>(1)</sup>	MRS	Incident Reports	Total
	New	Updates	Cancellations				
Belgium	27,585	307,583	802	347,299,125	783	17	347,635,895
Bulgaria	3,793	20,866	79	29,330,371	-	5	29,355,114
Croatia	12,021	33,724	24	92,240,954	7,628	177	92,294,528
Cyprus	3,547	41,530	101	47,229,589	-	2	47,274,769
Denmark	24,064	68,609	680	285,379,275	60,113	32	285,532,773
Estonia	11,971	67,148	152	105,540,692	82,532	3	105,702,498
Finland	37,475	175,218	75	91,185,724	46,938	136	91,445,566
France	59,818	304,754	3,506	172,547,215	138,913	510	173,054,716
Germany	59,939	258,664	763	234,091,976	-	29	234,411,371
Greece	83,312	174,408	2,294	91,699,090	-	200	91,959,304
Iceland	3,351	6,682	254	105,514,994	1,237	-	105,526,518
Ireland	13,639	53,316	116	60,122,076	-	15	60,189,162
Italy	76,293	448,710	2,134	343,512,968	22,816	750	344,063,671
Latvia	7,405	48,184	90	25,192,385	-	10	25,248,074
Lithuania	5,230	52,348	154	10,492,680	-	26	10,550,438
Malta	11,613	85,547	721	19,094,092	-	21	19,191,994
Montenegro	1,081	2,159	20	11,910,863	-	-	11,914,123
Netherlands	50,646	724,922	2,233	504,794,354	-	235	505,572,390
Norway	164,504	884,912	8,484	630,619,574	783	29	631,678,286
Poland	17,027	162,500	1,226	71,076,392	21,424	8	71,278,577
Portugal	13,384	73,291	862	75,248,555	77,004	15	75,413,111
Romania	5,342	31,446	186	102,161,505	-	6	102,198,485
Slovenia	1,796	10,535	77	6,838,856	1,868	12	6,853,144
Spain	178,880	1,148,137	16,811	451,810,062	96,023	16	453,249,929
Sweden	52,063	358,751	2,476	295,703,352	-	104	296,116,746
United Kingdom	109,513	454,795	9,458	389,102,434	184	104	389,676,488
<b>Total</b>	<b>1,035,292</b>	<b>5,998,739</b>	<b>53,778</b>	<b>4,599,739,153</b>	<b>558,246</b>	<b>2,462</b>	<b>4,607,387,670</b>

(1) Includes AIS information transmitted through message-based and streaming mechanisms

# SSN Implementation – Incident Reports



- The exchange of IR information between MSs has not yet been widely implemented.
- The main issues found on the content of Incident Reports are:
  - The **wrong classification** of Incident Reports.
  - The **lack of identification in the notification of the ship(s)** involved (ships are identified only in the attachment or in the detailed part).
  - Provision of **information solely in national language**.

## Recommendation 4:

Member States are invited to report all Incident types in accordance with the SSN Incident Report Guidelines.



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# System Availability and Performance



- **SSN Central system:** 99.64% availability in 2019 (7 downtimes with total duration of 31h 49m)
- **SSN–THETIS interface:** 9 downtime with total duration of 11h 21m
- **SSN National systems:**
  - 1 Member State (**Portugal**) suffered 1 full downtime
  - 13 Member States (**Croatia, Denmark, Estonia, Finland, Greece, Iceland, Ireland, Lithuania, the Netherlands, Poland, Portugal, Sweden and the United Kingdom – port of Gibraltar**) experienced significant downtimes affecting the provision of PortPlus information to Thetis

## Reporting technical failures or planned interventions/releases:

- Interventions are announced via email to SSN Operational PoC and NCAs 24/7 :
  - Information about the failure of the system + Information about the system recovery

### Recommendation 5:

Member States are invited to take appropriate measures to reduce downtimes as far as possible, but should they occur, to resolve them within a 12h period.

# Back-up procedures



- **Back-up procedures** – in the event of a failure or a scheduled interruption, back-up procedures should be in place for each SSN system component (IFCD - section 4.4)
  - **NCA**s shall ensure that SSN messages are stored and then transmitted to the central SSN system when communications and/or systems have recovered
  - **The national and central SSN systems** should be able to re-send messages for up to 2 weeks (ship position information may be down-sampled for this purpose).

## Recommendation 6:

MSs are invited to store notifications during SSN intervention time windows, and to ensure that they are transmitted to the central SSN system when communications and/or systems have recovered (in accordance with Section 4.4 of the IFCD).

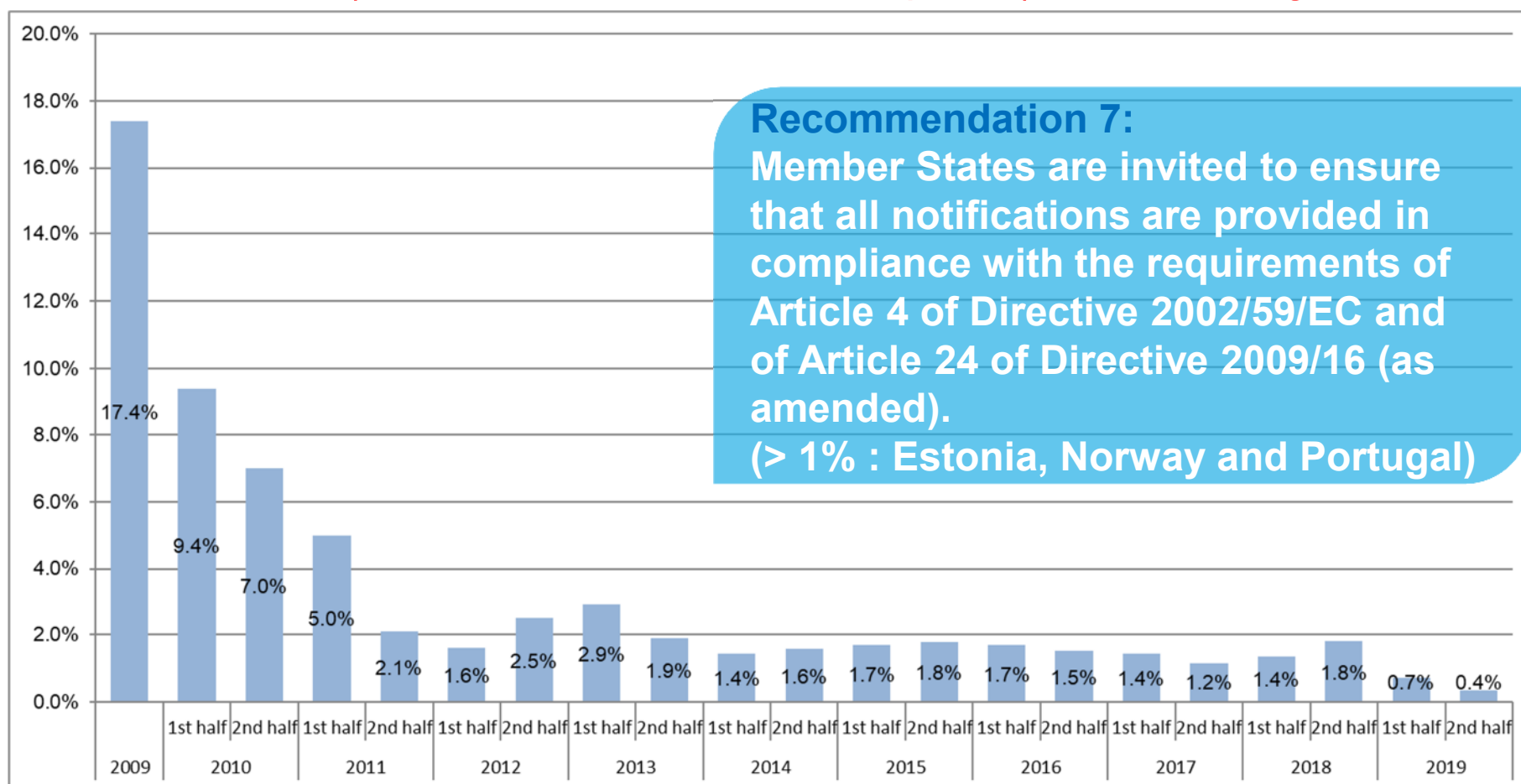
# Content

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# Data Quality and Availability

## Port arrivals

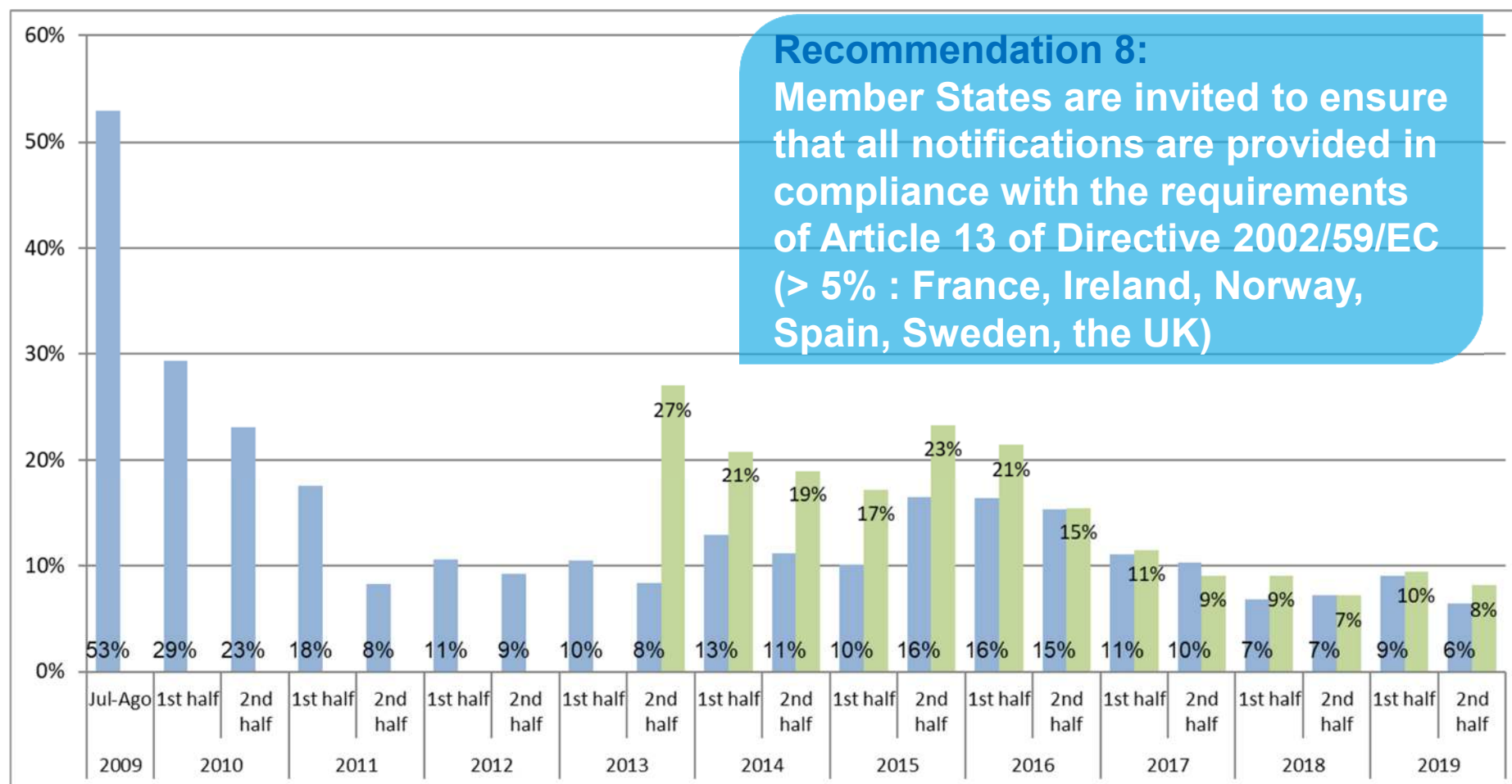
0.4% (15 out of 4,236 checked shipcalls) were missing



# Data Quality and Availability

## Hazmat information

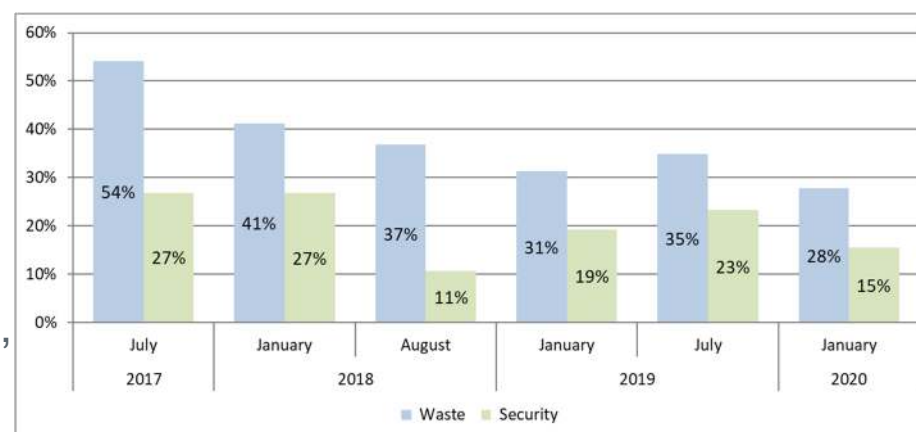
7.1% (201 out of 2,825 checks) were missing



# Data Quality and Availability

## Missing Waste and Security information

- Checks were made by taking into account: exemptions registered in SSN system; ship type; gross tonnage, domestic voyages
- **Portugal** has not yet implemented the Security notification
- **The UK** (only port of Gibraltar) has not yet implemented the Waste and Security notifications
- **Waste information (in blue)** was not reported in 28% of ship calls (> 5%: HR, FI, FR, DE, IT, NL, NO, ES, UK)
- **Security information (in green)** was not reported in 15% of ship calls (> 5%: FR, DE, NL, SE, UK)



### Recommendation 9:

Member States are invited to ensure that all notifications are provided in compliance with the requirements of Directives 2002/59/EC (as amended) and 2010/65/EU, and to analyse the difference between the numbers of ship calls and the relevant Waste and Security notifications

# Data Quality and Availability

## Availability of the details (week 19)

Member State	Hazmat	MRS	Waste	Security	Bunkers
Belgium	Yes	Yes	-	Yes	-
Bulgaria	Yes	-	Yes	Yes	-
Croatia	Yes	Yes	-	Yes	Yes
Cyprus	Yes	-	-	Yes	-
Denmark	Yes	Yes	-	Yes	-
Estonia	Yes	No	-	Yes	-
Finland	Yes	Yes	-	Yes	-
France	Yes	Yes	-	Yes	-
Germany	Yes	-	-	Yes	-
Greece	No	-	-	No	-
Iceland	Yes	Yes	-	Yes	Yes
Ireland	No	Not Impl.	-	Yes	-
Italy	Yes	Yes	-	Yes	Yes

Member State	Hazmat	MRS	Waste	Security	Bunkers
Latvia	Yes	-	-	Yes	No
Lithuania	Yes	-	-	Yes	Yes
Malta	Yes	-	-	Yes	Yes
Netherlands	Yes	-	-	Yes	-
Norway	Yes	Yes	-	Yes	Yes
Poland	Yes	Yes	-	Yes	Yes
Portugal	No	No	Not Impl.	Not Impl.	-
Romania	Yes	-	-	Yes	Yes
Slovenia	Yes	Yes	-	Yes	Yes
Spain	Yes	Yes	-	Yes	-
Sweden	Yes	-	-	Yes	Yes
United Kingdom	Yes	Yes	Yes	Yes	-

### Recommendation 10:

Estonia, Greece, Ireland, Latvia and Portugal are invited to ensure that the detailed part of the relevant notifications is made available to MS data requesters in electronic format.

Ireland, Portugal and the UK are invited to implement the missing notifications.

### Recommendation 11:

Member States are invited to ensure that their contact details are kept updated and made available to MS data requesters on a 24/7 basis as a back-up solution for the provision of the detailed part of notifications.



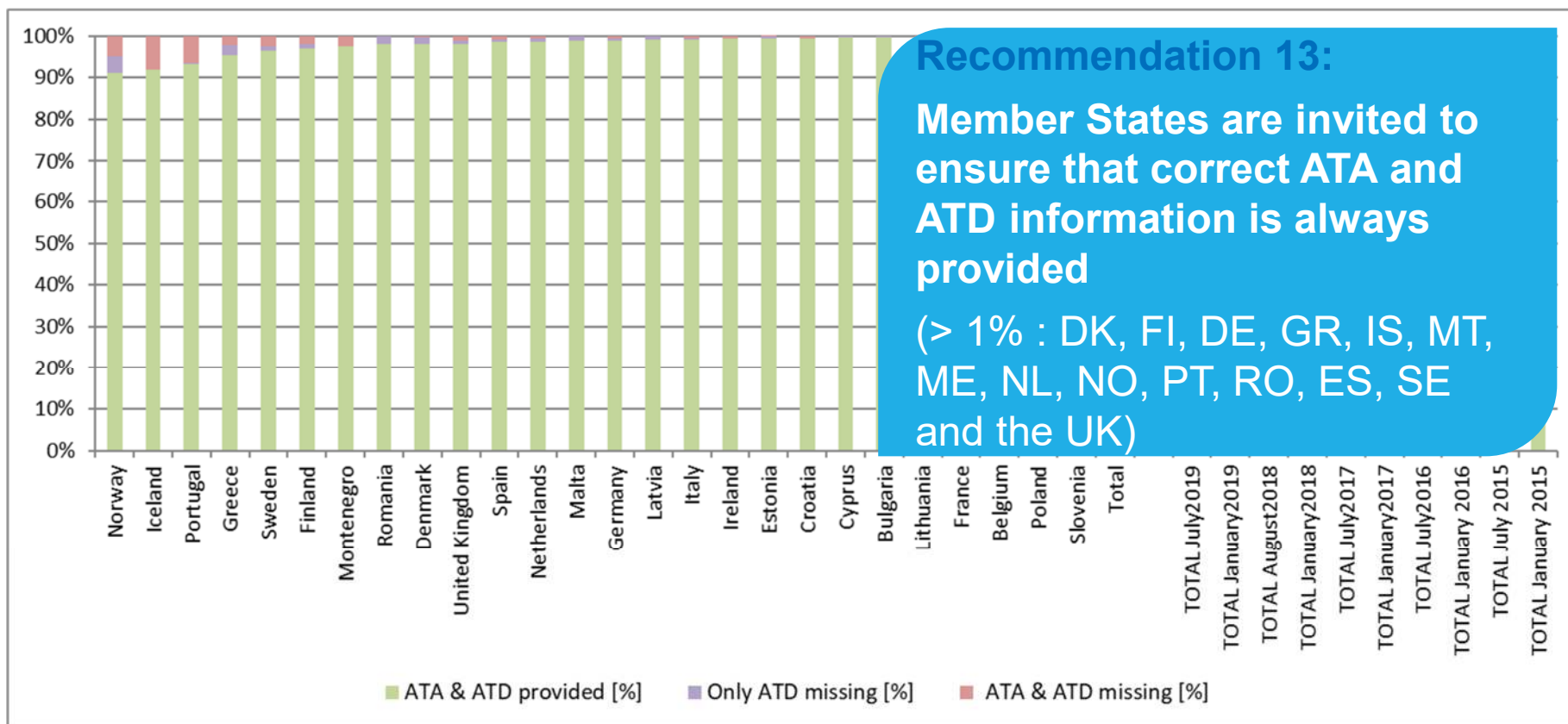
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# Interface with THETIS

## Provision of ATA and ATD

Shipcalls in THETIS are recognized only when ATA has been provided

- 2.2 % of the ship calls are missing the ATA and ATD (3.1 % in previous reported period)



# Interface with THETIS



## Timeliness of ATA and ATD

- Residual **ATAs** and **ATDs** are provided more than 3h in advance (9 out of 60,920 ship calls – i.e: 0.015%)

In 89.4% of the notifications the difference between the SentAt and the ATA / ATD is within 3h (88.2 % in previous reported period)  
(most affected are Croatia, Denmark and Montenegro)

### Recommendation 14:

Member States are invited to provide the ATA and ATD for ships calling at their ports and anchorages via SSN within a reasonable time

# Bilateral data quality meetings



- Member States are reminded that **bilateral data quality meetings** with EMSA can be organised in order to better support MSs in addressing the data quality issues (as agreed during 1st SSN/LRIT)
- 2 meetings combined with trainings were postponed due to COVID-19:
  - **Ireland**
  - **Sweden**
- 1 video-conference meeting took place since last SSN/LRIT group meeting:
  - **Spain**, on 6 February 2020

## **Recommendation 15:**

**Member State willing to organise this meeting should contact EMSA.**



[emsa.europa.eu](https://emsa.europa.eu)

 [twitter.com/emsa\\_lisbon](https://twitter.com/emsa_lisbon)

 [facebook.com/emsa.lisbon](https://facebook.com/emsa.lisbon)



# Data Quality and Availability



## Rejected notifications

- Overall situation decreased from 1.42% to 0.43%.  
**14 Member States are still above the limit defined in IFCD (0.1%)**
- CY, DK, EE, FI, GR, IE, LV, NL, PT, RO, ES are above 0.5% rejections
- What is being done:
  - MSS is continuously monitoring and reporting to the MSs on a monthly basis;
  - Member States are progressively monitoring national system;
  - Member States are correcting the causes of rejection, and;
  - Resending notifications upon correction.

### Recommendation 12:

MSs are invited to rectify the reported quality problems in order to ensure that rejected messages are eliminated, in particular by implementing checking rules in order to minimise inconsistent data in national SSN systems.