



## ***EMSA - HELCOM Single Hull Tanker monitoring and reporting***

***- solving monitoring through regional cooperation***

**Jarle Hauge  
Norwegian Coastal Administration**

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## Objectives and scope

### To...

- .... improve the monitoring situation in the Baltic Sea where the whole AIS infrastructure may contribute.
- .... detect and investigate the ship traffic considered to pose a particular risk.
- .... implement a system within existing data network to serve as an early warning system for the operators/member states.
- .... implement technical and operational procedures to support the early warning system.



## Objectives and scope

- The system shall monitor the provisions of the amended Annex I of MARPOL Convention and of the Regulation (EC) No 1726/2003, regarding the banning of carriage of heavy oil in single hull tankers which entered into force as from 5 April 2005. The monitoring is achieved by using the traffic monitoring systems of the Member States as well as EMSA database systems.
- A pilot system is developed to get experience from the monitoring of the relevant MARPOL and E.U. provisions in the Baltic area. The Baltic area is chosen as the monitoring area due to the sensitive area, with a rapidly increasing volume of oil transports.

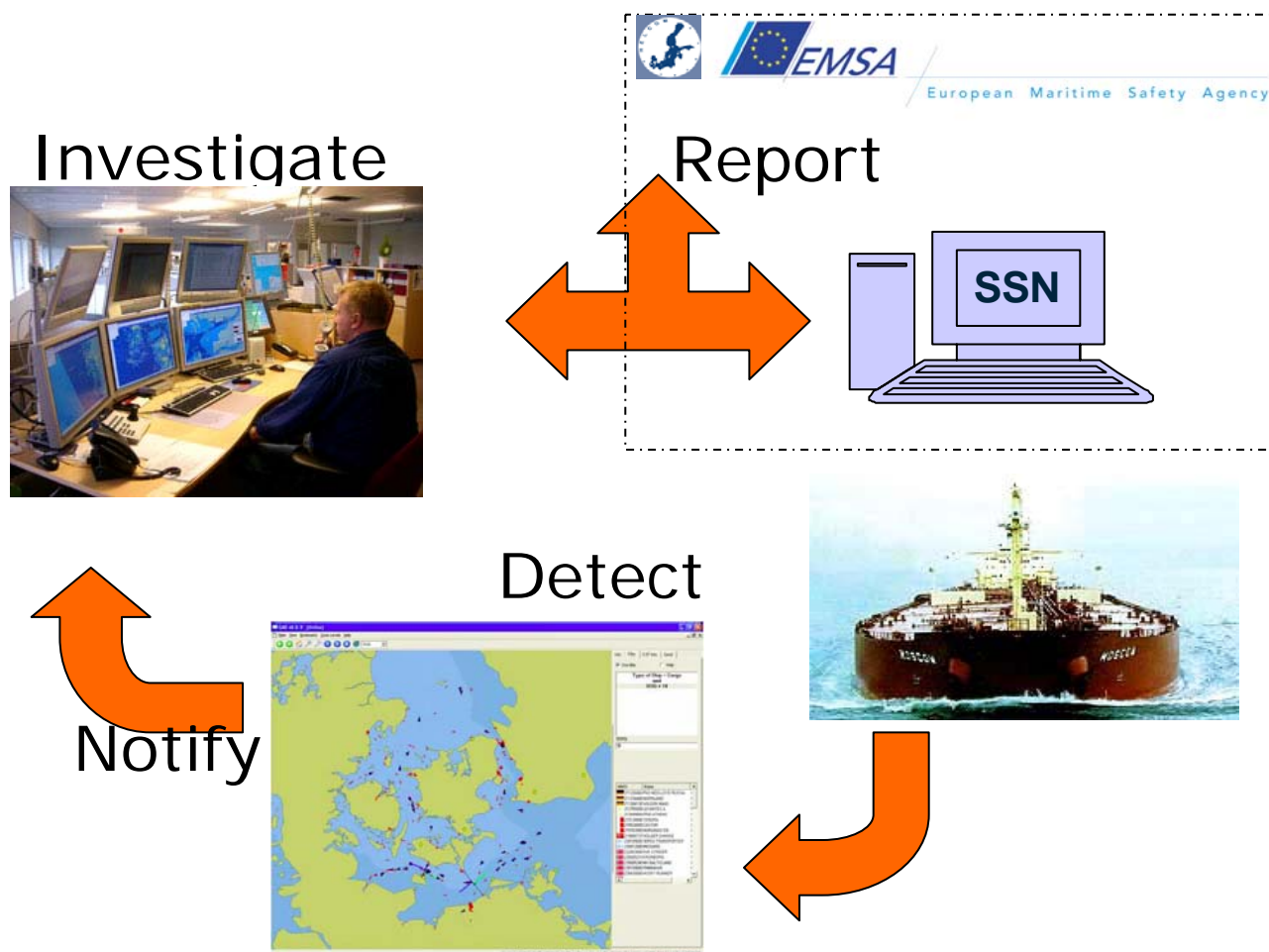


## Objectives and scope

- Within the framework of SafeSeaNet to provide EMSA with vessel and voyage information whenever an identified single hull tanker is detected by AIS networks in the HELCOM region.
- Shall also be possibility to use the system for other (similar) types of surveillance tasks.
- To recognize the existing systems as basis for the development
- Integrating existing systems enabling the concept for single hull detecting, reporting and providing statistics.
- To implement and test the integrated system from an operational point of view



## Concept, Single Hull Tanker monitoring





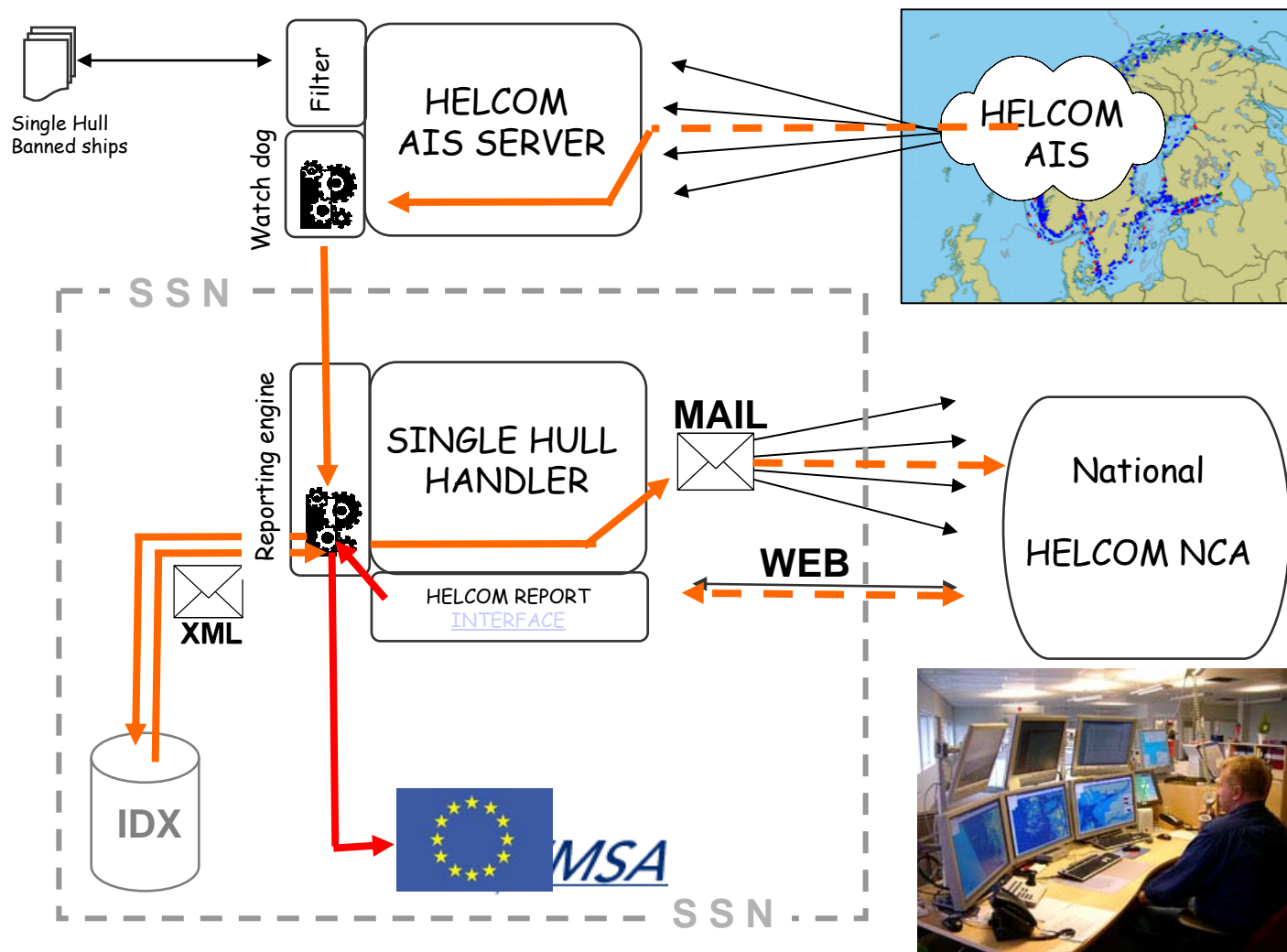
## Existing systems and components

- National AIS networks in the region
- HELCOM regional AIS server with filtering
- Single Hull reporting system currently being used
- Vessel Traffic Services (VTS)
- EMSA SafeSeaNet system





## Concept





## Step by step process

- Ship identification through HELCOM AIS server
  - Filters
  - Monitoring
- Notification to existing reporting engine in Norway
- Collecting data from SSN
- Notification to national HELCOM NCA/LCA (VTS)
- VTS cargo investigation
- NCA notification and EMSA reporting







Live demonstration

[HELCOM AIS](#)

[Generate Notification](#)

[Update HELCOM web interface](#)





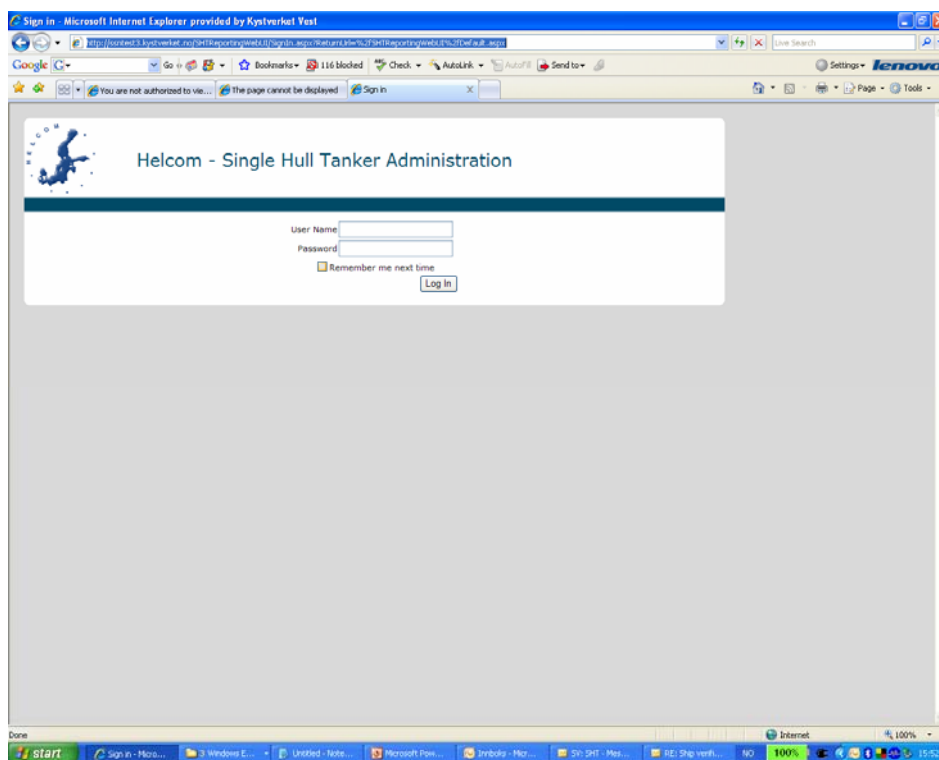
Offline demonstration

HELCOM AIS





# Offline demonstration Update HELCOM web interface





# Offline demonstration Update HELCOM web interface

SHT - Search - Microsoft Internet Explorer provided by Kystverket Vest

http://shttest3.kystverket.no/SHTReportingWebUI/Search.aspx

Helcom - Single Hull Tanker Administration

Search Sign out

IMO no:  MMSI no:  Call sign:  Ship name:

Verification status: -- All -- NCA: -- All --

Timestamp from:  Timestamp to:

Search

| IMO no  | MMSI no   | Call sign | Ship name   | Verification result | NCA | Timestamp           |        |
|---------|-----------|-----------|-------------|---------------------|-----|---------------------|--------|
| 7929671 | 308643000 | C6FD7     | ANAWAN      | NoViolation         | NOR | 20.09.2007 18:41:42 | [View] |
| 7929671 | 308643000 | C6FD7     | ANAWAN      | NoViolation         | NOR | 21.06.2007 10:03:04 | [View] |
| 7929671 | 308643000 | C6FD7     | ANAWAN      | NoViolation         | NOR | 21.06.2007 10:03:00 | [View] |
| 7926180 | 375541000 | J883502   | ZHEN HUA 20 | NoViolation         | NOR | 15.06.2007 13:52:40 | [View] |
| 7926180 | 375541000 | J883502   | ZHEN HUA 20 | NoViolation         | NOR | 15.06.2007 09:03:12 | [View] |
| 7929671 | 308643000 | C6FD7     | ANAWAN      | NoViolation         | NOR | 15.06.2007 08:02:48 | [View] |
| 7917587 | 215845000 | 9HCY8     | VIKSTRALIM  | NoViolation         | NOR | 14.06.2007 13:58:55 | [View] |
| 7929671 | 308643000 | C6FD7     | ANAWAN      | NoViolation         | NOR | 14.06.2007 08:40:17 | [View] |
| 9176058 | 219601000 | OZQH      | MAX MOLS    | Violation           | NOR | 12.06.2007 11:14:53 | [View] |
| 9112997 | 219000332 | OZGN      | MAI MOLS    | NoViolation         | NOR | 24.05.2007 08:17:10 | [View] |

Show page: 1 2 3 4 5 6 7 8 9 10 ... (Total Records: 163) Records Per Page: 10



# Offline demonstration Update HELCOM web interface

Helcom - Single Hull Tanker Administration

Search [ ] Sign out

Created: 15.06.2007 11:19:59  
IMO no: 7826180  
Call sign: J883502  
Ship category: 0

NMSS no: 375541000  
Ship name: ZHEN HUA 20

Registration: **ATS info** Port info Hazmat info

Verification result: --Select verification result-- Ship category: Unknown  
Standard comment: --Select standard comment-- and/or freetext: [ ]

Add new registration

Registration history:

| Verification result | Comment  | NCA | Timestamp           |
|---------------------|--|-----|---------------------|
| Violation           | Test   | NOR | 15.06.2007 09:03:12 |
| Violation           | This is from operator Jarle Hauge (of course I hav not checked the vessel) | NOR | 15.06.2007 12:52:40 |



## Update of the activity of SHT's in from the 12<sup>th</sup> of June to 16<sup>th</sup> of August 2007

- 12/06 ANAWAN
- 14/06 VIKSTRAUM
- 15/06 ANAWAN, ZHEN HUA 20
- 16/06 VIKSTRAUM
- 20/06 ZHEN HUA 20
- 22/06 VIKSTRAUM
- 23/06 VIKLAND
- 28/06 VIKSTRAUM, VIKLAND
- 04/07 VIKSTRAUM, VIKLAND
- 12/07 VIKLAND
- 19/07 VIKSTRAUM
- 22/07 MT ARISTOS II, VIKSTRAUM
- 24/07 VIKSTRAUM
- 02/08 MT ARISTOS II
- 03/08 VIKSTRAUM
- 06/08 VIKLAND
- 10/08 BALTA
- 11/08 M.T. ACUSHNET
- 13/08 VIKSTRAUM
- 14/08 VIKLAND
- 16/08 KIHULAND, M.T. ACUSHNET



| Country | E-mail address   | Username   |
|---------|--|--|
| Denmark | <a href="mailto:mas@sok.dk">mas@sok.dk</a><br><a href="mailto:martinahl@mil.dk">martinahl@mil.dk</a>   | <a href="mailto:mas@sok.dk">mas@sok.dk</a><br><a href="mailto:martinahl@mil.dk">martinahl@mil.dk</a>   |
| Estonia | <a href="mailto:alarmsht@vta.ee">alarmsht@vta.ee</a>   | <a href="mailto:alarmsht@vta.ee">alarmsht@vta.ee</a>   |
| Finland | <a href="mailto:supervisors_hki@fma.fi">supervisors_hki@fma.fi</a>   | <a href="mailto:supervisors_hki@fma.fi">supervisors_hki@fma.fi</a>   |
| Latvia  | <a href="mailto:isps1@mrcc.lv">isps1@mrcc.lv</a>   | <a href="mailto:isps1@mrcc.lv">isps1@mrcc.lv</a>   |
| Norway  | <a href="mailto:vts.grenland@kystverket.no">vts.grenland@kystverket.no</a><br><a href="mailto:vts.vestland@kystverket.no">vts.vestland@kystverket.no</a><br><a href="mailto:ais@kystverket.no">ais@kystverket.no</a><br><a href="mailto:Jarle.hauge@kystverket.no">Jarle.hauge@kystverket.no</a> | <a href="mailto:vts.grenland@kystverket.no">vts.grenland@kystverket.no</a><br><a href="mailto:vts.vestland@kystverket.no">vts.vestland@kystverket.no</a><br><a href="mailto:ais@kystverket.no">ais@kystverket.no</a><br><a href="mailto:Jarle.hauge@kystverket.no">Jarle.hauge@kystverket.no</a> |
| Sweden  | <a href="mailto:sht@sjofartsverket.se">sht@sjofartsverket.se</a>   | <a href="mailto:sht@sjofartsverket.se">sht@sjofartsverket.se</a>   |



## Added Value

- Gathering of information that EMSA do not hold at the moment
- Experience on the operational level in the use of the pilot project
- Gaining experience of testing the regional concept
- NorthSea ships bound north not picked yet by other AIS systems
- Alerting possible while not in SSN currently
- Picking Baltic sea ships leaving gulf of FI with new cargo
- Possible early warning of cargo. (VTS ask for next cargo)
- List of SHT fine-tuned based on experience from the pilot project
- EMSA interested in harbors double checking?





Questions?