



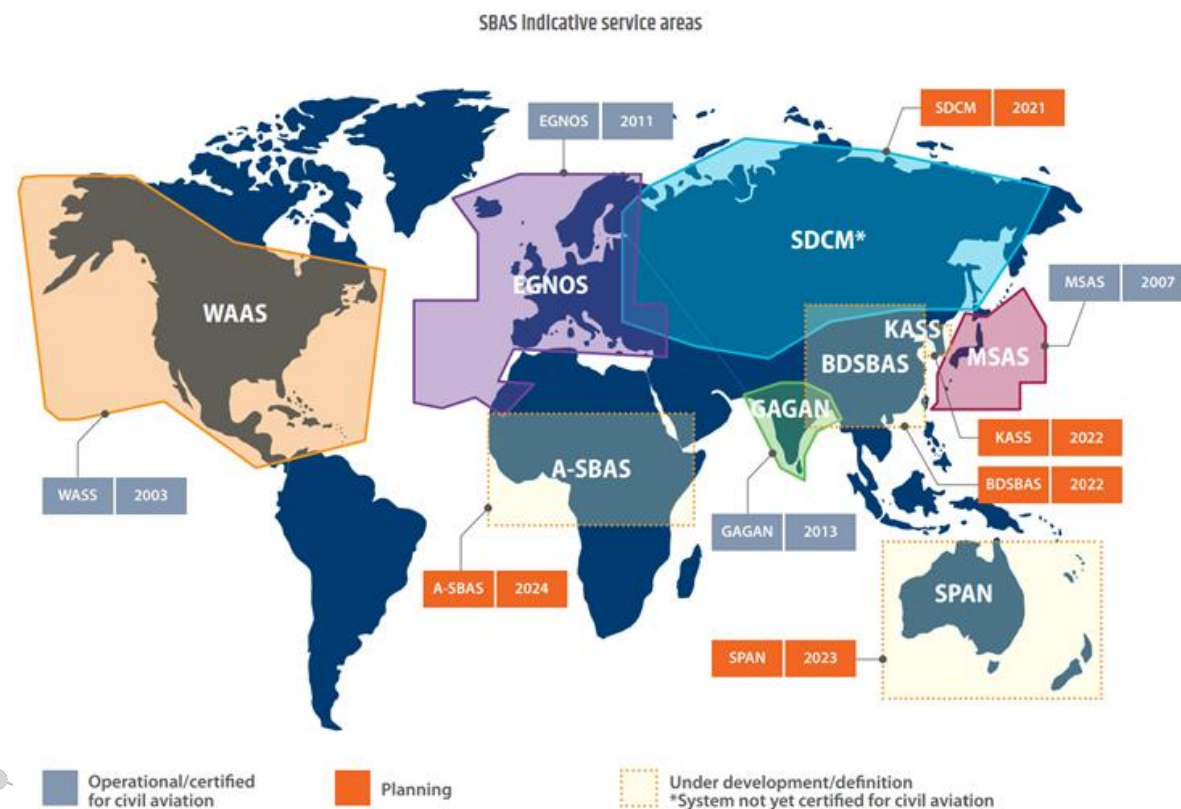
# EGNOS and Galileo Maritime Safety Information (MSI) Requirements, Promulgation Scheme and Operational Concept

Manuel Lopez, Technology Officer for Market Development, EUSPA  
Maria Mota, User Services, European GNSS Service Centre  
Jose Manuel Alvarez, Service Development Manager, ESSP



# Complementarity of MSI functions

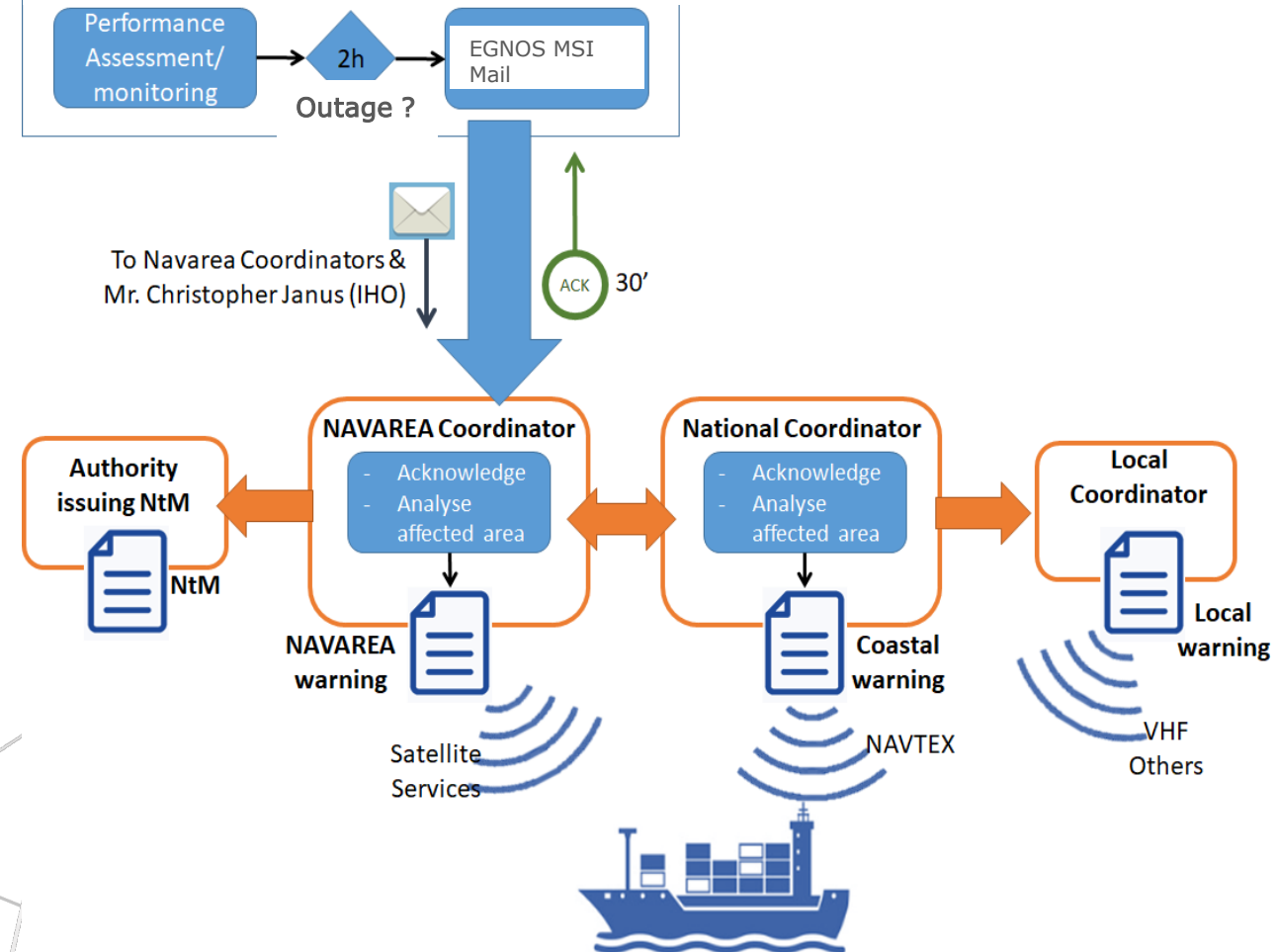
- MSI **EGNOS** function – will provide information, in Europe, about **EGNOS** planned and unplanned service outages.
- A new MSI **Galileo** function – could provide information, worldwide, about **Galileo** planned and unplanned service outages



# EGNOS Maritime Safety Information (MSI) Function

- The **EGNOS MSI Function** will monitor **EGNOS** performance wrt IMO Resolution A.1046 operational requirements and will communicate any **scheduled** event or **unscheduled** outages in the service:
  - Scheduled** events should be communicated with at least:
    - 72h (EMRF req / EGNOS MRD)** before the service is affected
  - Unscheduled** outages or events shall be notified
    - within 2h (EMRF req / EGNOS MRD)**
- A standard mail shall be sent to the corresponding NAVAREA Coordinator (**IHO req**)

## EGNOS MSI Function



# EGNOS Maritime Safety Information (MSI) Service

- EGNOS MSI Messages (Mails) will be issued in English and shall contain the following fields

FIELD	CONTENT
<b>Message identifier:</b>	EGNOSMSG XXX/YY (sequential number)
<b>General Area:</b>	EGNOS MARITIME SERVICE
<b>General Subject: the nature of the event</b>	EGNOS NOT AVAILABLE FOR MARITIME NAVIGATION
<b>Geographical Position</b>	Area limits/position in WGS84 in degrees and minutes or degrees, minutes and decimal minutes. Positions listed in a clockwise direction starting from the North West corner. Latitude: DD-MMN or DD-MMS Longitude: DDD-MME or DDD-MMW
<b>Amplifying remarks</b>	Date, time and duration of the event FROM: DDHHMM UTC MoMoMo YY; TO: Unknown or DDHHMM UTC MoMoMo YY Note: the ending time can be included if known. If not known, a recovery message is needed.

- The NAVAREA/Sub-Area should be responsible for the issuing and formatting the final Navigational warnings

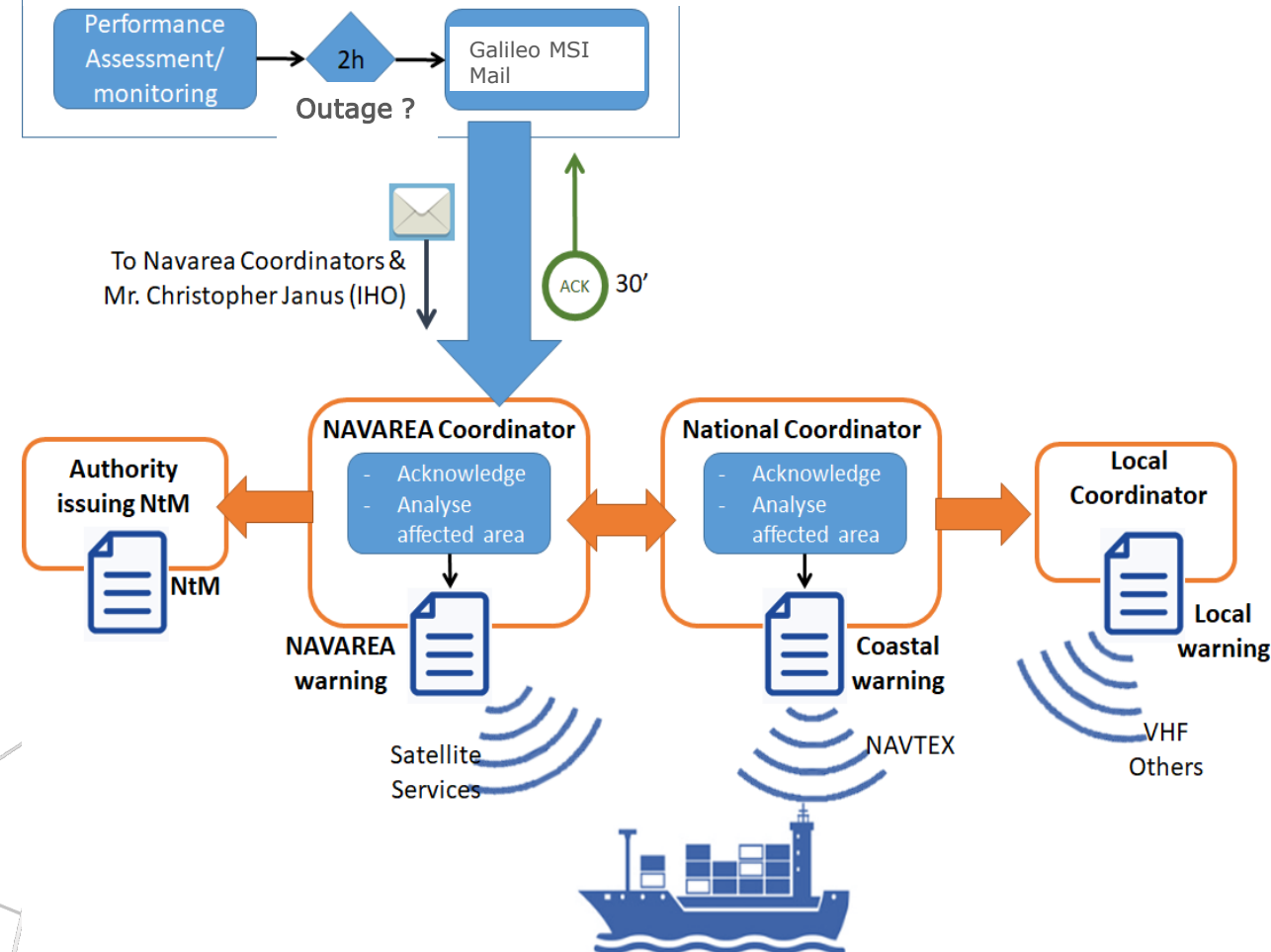


# Galileo Maritime Safety Information (MSI) Function (under study)



- The **Galileo MSI Function** will monitor the **Galileo** performance wrt IMO Resolution A.1046 operational requirements and will communicate any **scheduled** event or **unscheduled** outages in the service:
  - Scheduled** events should be communicated with at least:
    - 48h (Galileo Nagus req (TBC))** before the service is affected
  - Unscheduled** outages or events shall be notified
    - Within 30h (Galileo Nagus req (TBC))**
- A standard mail shall be sent to the corresponding NAVAREA Coordinator (**IHO req**)

## Galileo MSI Function



# Galileo Maritime Safety Information (MSI) Service

- Galileo MSI Messages (Mails) will be issued in English and shall contain the following fields

FIELD	CONTENT
<b>Message identifier:</b>	GALILEOMSG XXX/YY (sequential number)
<b>General Area:</b>	GALILEO MARITIME SERVICE
<b>General Subject: the nature of the event</b>	GALILEO NOT AVAILABLE FOR MARITIME NAVIGATION
<b>Geographical Position</b>	Area limits/position in WGS84 in degrees and minutes or degrees, minutes and decimal minutes. Positions listed in a clockwise direction starting from the North West corner. Latitude: DD-MMN or DD-MMS Longitude: DDD-MME or DDD-MMW
<b>Amplifying remarks</b>	Date, time and duration of the event FROM: DDHHMM UTC MoMoMo YY; TO: Unknown or DDHHMM UTC MoMoMo YY Note: the ending time can be included if known. If not known, a recovery message is needed.

- The NAVAREA/Sub-Area should be responsible for the issuing and formatting the final Navigational warnings



**IHO**

# **TESTING FOR GALILEO AND EGNOS**

**(EUROPEAN GEOSTATIONARY NAVIGATION OVERLAY SERVICE)**

International  
Hydrographic  
Organization

- 1. Testing will occur the week of 10 October 2022**
- 2. Participating NAVAREAs will receive an email from the European Union Agency for the Space Programme (EUSPA) with details concerning an EGOS or Galileo outage**
  - 1. (WWNWS13) EUSPA agreed to provide the authorised email address from which the requests for message promulgation will issued.**
- 3. NAVAREAs will:**
  - 1. Draft the navigational warning**
  - 2. Email the draft navigational warning to EUSPA and CC IHO\_WWNWS\_Chair@nga.mil**
  - 3. Complete the task within 30 minutes**