EfficienSea2 – half way there

Highlights from the Efficiensea2 project

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Today
The connected future
Four stepping stones

PRESENT

FUTURE

- Standardised end user services
- Communication channels
- Platforms for services
- The Maritime Cloud
Front runners, experts and money

3 years
€11,5 M
32 partners
Baltic/Arctic
Navigational Warnings
- inefficient information exchange
MF frequency band 518Hz
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Navigational Warnings in the near future with Niord, S-124, BalticWeb, and the Maritime Cloud
– safe and efficient business
Firing exercises. Warning.

Details:
In connection with firing exercises in EK R 18, a temporary prohibited area is established on the sea off the firing practice area in position:
- 10° 05′ W - 49° 55′ E

Prohibition:
During firing exercises, all navigation, anchoring and fishing are prohibited in the area.

Signals:
Information about firing practices is given by displaying the following signals from one hour before the start of the firing practice until its end:
- by daylight: a white fast flashing light is lit (10 flashes per minute) on signal masts 1, 2 and 3.
- at 30 minutes before sunset, lights displaying a red and white alternating flash (30 flashes per minute) are lit on signal masts 1 and 2.
- +1° 00′ N - +1° 07.50′ E, Signal mast 1 - at the coast of the (town of)
- +1° 20′ N - +1° 30′ E, Signal mast 2 - (at point of)
- +2° 54′ 04″ N - +1° 55′ 58″ E, Signal mast 3 - at the coast of (town of)

Note:
Information about firing exercises is available from Camp Jægerspris, tel. +45 728 67 67 or from www.havfarer.dk/PL, or over VHF radio. Call name: Jægerspris. Call channel: 16. Conversation channels 6, 8, and 17. The radio is open from one hour before the start of the firing practice and until its end.
Going for global impact

The global standard S-124
- IHO
- Test this year

Niord – navigational warnings editor
- Open source
- User friendly
- Free of charge

Registered in Maritime Cloud
- Described on three levels

Endorsements in Maritime Cloud
Maritime Cloud Service Registry

- **SERVICE SPECIFICATION**
  - Navigational Warnings S-124
  - NiORD

- **SERVICE DESIGN**
  - NiORD

- **SERVICE INSTANCE**
  - Navigational Warnings DMA
  - Navigational Warnings SMAA
  - Navigational Warnings ETA

All services approved by IHO.
User benefits

Mariners
• Better service quality
• Less manual work

> Increased safety and less accidents

Ship owners
• Increased safety – lower insurance fee
• Lowering administrative burden on board
• Less equipment – (in time)

> Safety, Save time and money
User benefits

**Authority/ Service providers**
- More efficient distribution of navigational warnings
- More efficient internal workflow
- Niord - Easy and cheap to update to new standard

> Save resources and increased safety at sea

**Equipment manufacturers**
- Better product quality, - 100% coverage
- Lower integration costs – everyone follow same standard
- One access point for all global providers

> Better product, lower cost
Project scope

- End user services – smart navigation and administration
- Platforms for services – web and onboard equipment
- Communication framework – The Maritime Cloud
- Communication channels – smart roaming and VDES
15 end user services

**Navigation**
- Navigational Warnings and Notices to Mariners
- Weather on Route
- Nautical Charts based on S100 Standards
- Smart Buoy Interaction
- Route Optimisation
- Ice Charts
- Crowd Sourcing of Ice Information
- Route Exchange
- No-go Areas and Comfort Zones

**Arctic**
- Arctic Live Position Sharing
- Arctic SAR Tool
- Space Weather Forecast

**Administration**
- Automated VTS/SRS reporting
- Automated exchange of port information

**Emissions**
- Sulphur emission monitoring
Platforms for services
10 services operational on BalticWeb

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Midterm feedback on Maritime Cloud

• Speed up
• Lower entry barriers
• Clear up business models incl governance
• --> Task force
• Business models for the whole ecosystem
Communication channels
VDES Sea trials
GETTING CONNECTED FOR EFFICIENT, SAFE AND SUSTAINABLE TRAFFIC AT SEA
Thank you!

• Visit our exhibition for more info or go to:
  • http://efficiensea2.org/
  • http://balticweb.e-navigation.net/
  • http://maritimecloud.net/