

<https://www.youtube.com/watch?v=5aDs-Zcc6i4>

# **FAMOS**

## **Status update**

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**SWEDISH MARITIME  
ADMINISTRATION**



**EUSBSR**  
EU STRATEGY  
FOR THE BALTIC  
SEA REGION

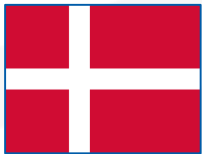


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# Safety Accuracy Efficiency

in the Baltic Sea and Beyond

**Denmark**



**Estonia**



**Finland**



**Germany**



**Latvia**



**Lithuania**



**Sweden**





## FAMOS summary and highlights

- FAMOS Odin has been finalized 30 June 2019
- FAMOS Odin (2016-2018) received 11 MEUR of EU co-financing from the CEF Transport programme for estimated total costs of 29 MEUR
- FAMOS Freja (2014 – 2016), received 12 MEUR of EU co-financing for total costs of 34 MEUR
- Surveyed area in Freja was 31733 km<sup>2</sup> and in Odin 27 850 km<sup>2</sup>.  
**Almost 60 000 km<sup>2</sup> re-surveyed area in the Baltic Sea**
- 8 Shipborne gravity campaigns in Freja and 17 shipborne and one airborne gravity surveys in Odin have been conducted.
- Procurement and upgrade of survey equipment for EMA, MAL and LTSA according to plan.
- Upgrade of bathymetry and chart production systems for improved workflow; DK, FI, LV, LT and SE.

# FASTMOS

**2020 - 2023**

Enhancing possibilities for the maritime sector to become a more efficient mean of transport, by making the Baltic Sea a model region where development, sustainability, safety and digitalization are in focus.

# The Baltic sea- the perfect testbed



- Endangered Sea – Need for optimisation
- A lot of sea traffic – Need of Sea Traffic Management
- Fairly shallow water – Need for UKC optimisation
- Close to shore – Connectivity is fair
- Best of all – All countries involved are at a high technological level and have a tradition of fruitful co-operation

# Work packages

1. COMPLETION OF HELCOM-BSHC Baltic Sea Re-survey Scheme
2. BALTIC SEA PRECISE POSITIONING
3. UKC LOAD – UKC GO
4. BALTIC SEA MODEL REGION

SWEDISH MARITIME  
ADMINISTRATION

## POLICY AREA 'SAFE'

**EUSBSR**  
EU STRATEGY  
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SEA REGION

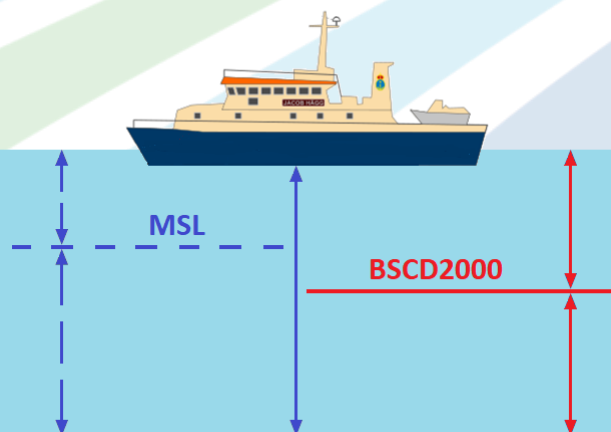


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# 1. COMPLETION OF HELCOM-BSHC Baltic Sea Re-survey Scheme

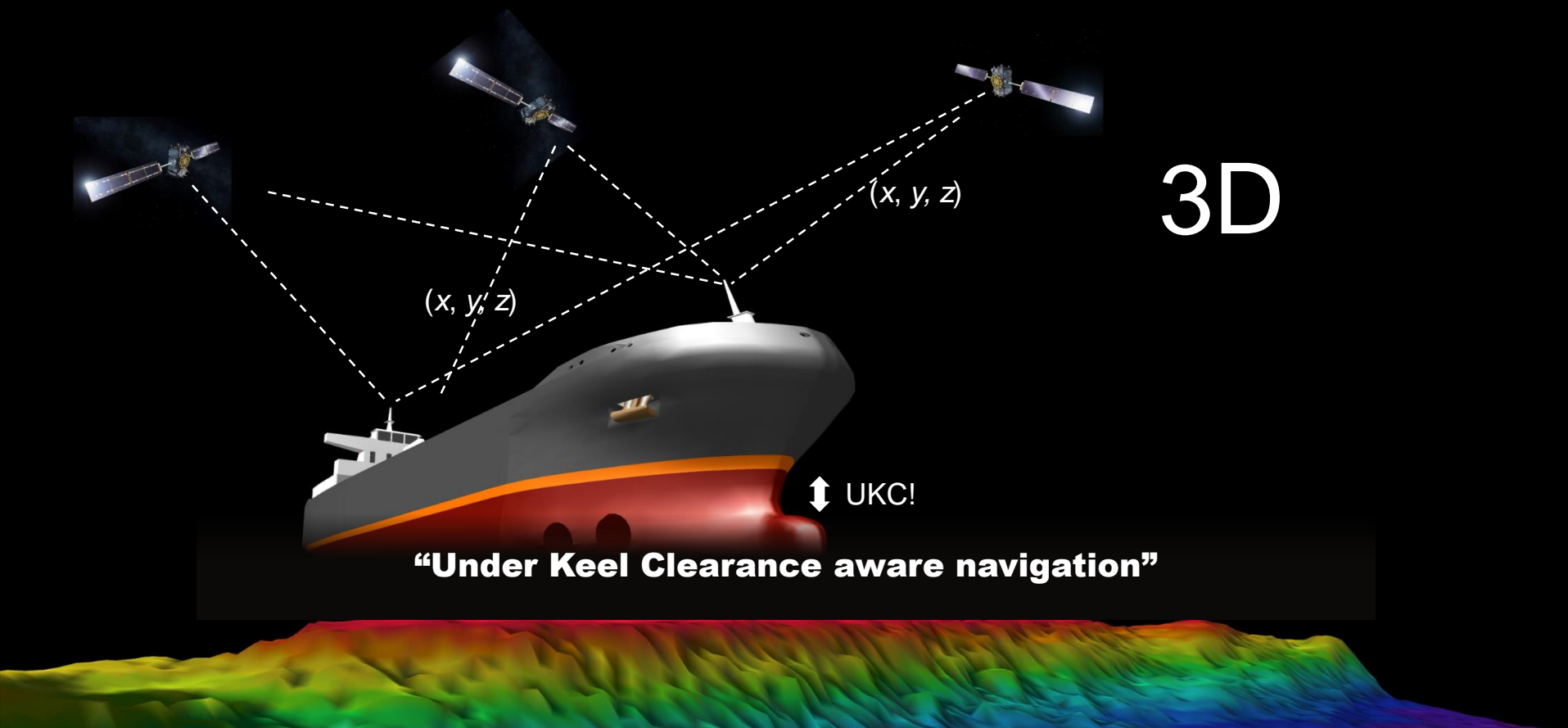
- Surveying all areas determined by the HELCOM Re-Survey implementation plan is fundamental for the development of maritime infrastructure in the Baltic Sea
- Revision of re-survey plan to facilitate coastal shipping and optimised routeing
- Creating the basis and precise conditions for further development of today's standards and navigation methods
- Access to reliable and precise depth data enables reduction of uncertainty margins when optimizing transports

# Baltic Sea reference level



## 2. BALTIC SEA PRECISE POSITIONING

- Implementation of the Baltic Sea Hydrographic Commission (BSHC) Reference System Baltic Sea Chart Date 2000
- Quality assured water level information: Tide gauges (quality assurance, co-located GNSS stations), altimetry, hydrodynamic modelling, S-104 implementation
- Quality assured geoid model as a base for BSCD 2000
- Produce a S-104 product prototype and maybe also S-111 prototype
- GNSS Positioning for ship 3D navigation



### 3. UKC LOAD – UKC GO



Development and Demonstration of commercial services for UKC GO and UKC Load, in collaboration with ports, shipping companies and service providers



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## 4. Baltic Sea as a Model Region for Development and Demonstration of S-100 Products

- Increase knowledge of the new ECDIS standard among future users.
- Nautical information relevant for port calls
- Stimulate commercial route optimization services for commercial shipping, not scientists developing algorithms
- Initiate development of a S-102 Baltic Sea realization
- Production of prototype products S-104 (water level) and S-111 (currents)
- Test bed areas identified: The Sound, Great Belt, Kadettrennen, Irbe Strait and The Quark.

## THE KEY STANDARDS

S-111

S-129

S-104

S-101



S-102

S-124

# If you want to join FASTMOS

Reply to SMA before 15 October with the following:

- Where do you see your organization in the project? What role would you like to take and which activities are you interested in participating in?
- Is there some other activity/deliverable in line with the scope of the project that your organization would benefit from? Anything more you think would fit in to the project concept under the four work packages?
- Missing someone? Based on the work packages and their aims, could you identify some gaps in the consortium that already have declared interest in the project?
- First point of contact: Andreas Andersson,  
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