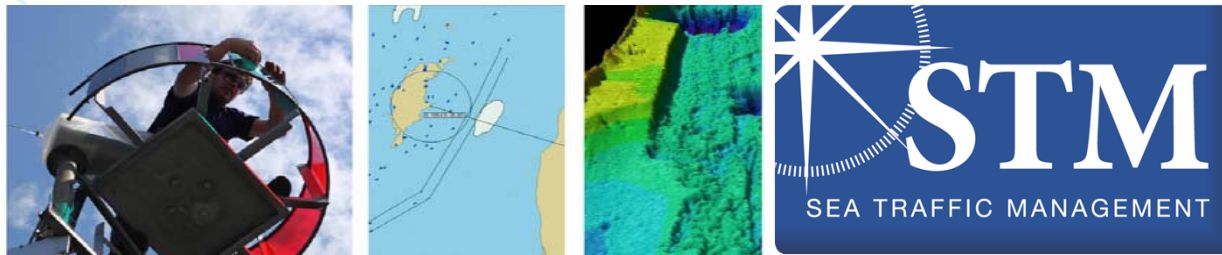


Research and Innovation



- taking the Swedish Maritime Administration and the maritime sector into to future

August 2018

Mission

The Swedish Maritime Administration (SMA) is an authority and public enterprise within the transport sector, responsible for maritime infrastructure and services connected to maritime transport.

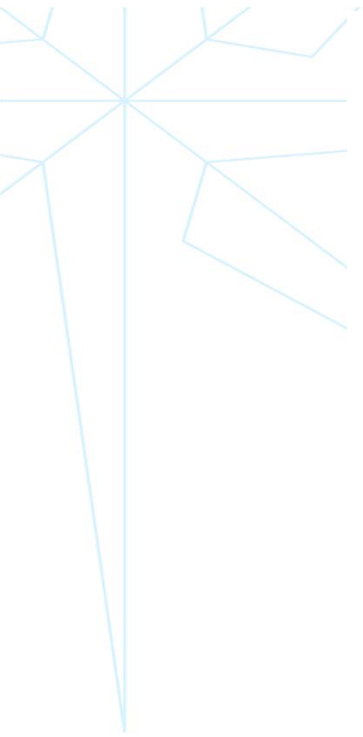




Objectives of Research and Innovation

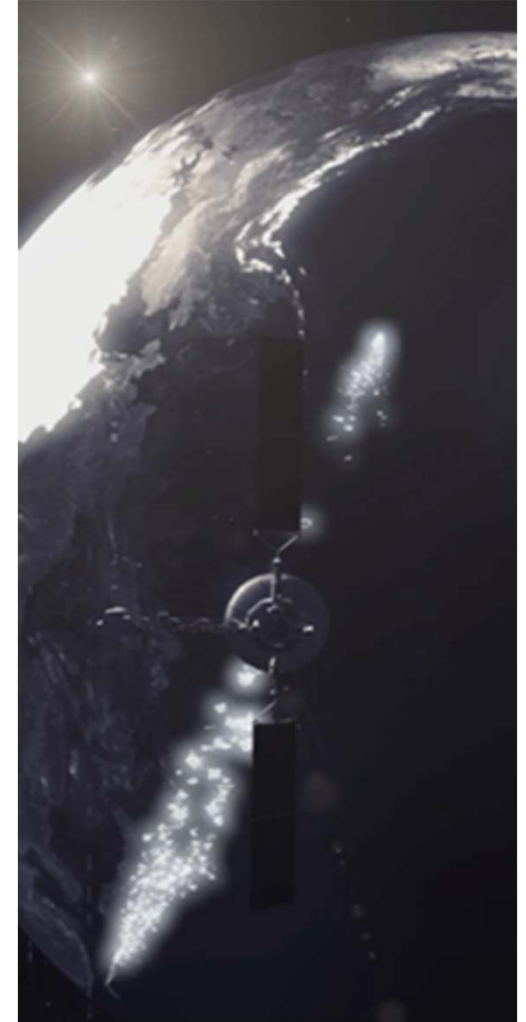
- R&I develops services, products and operations of SMA
- R&I contributes to sustainable, safe and efficient maritime transport
- R&I strengthen the competitiveness of maritime transport





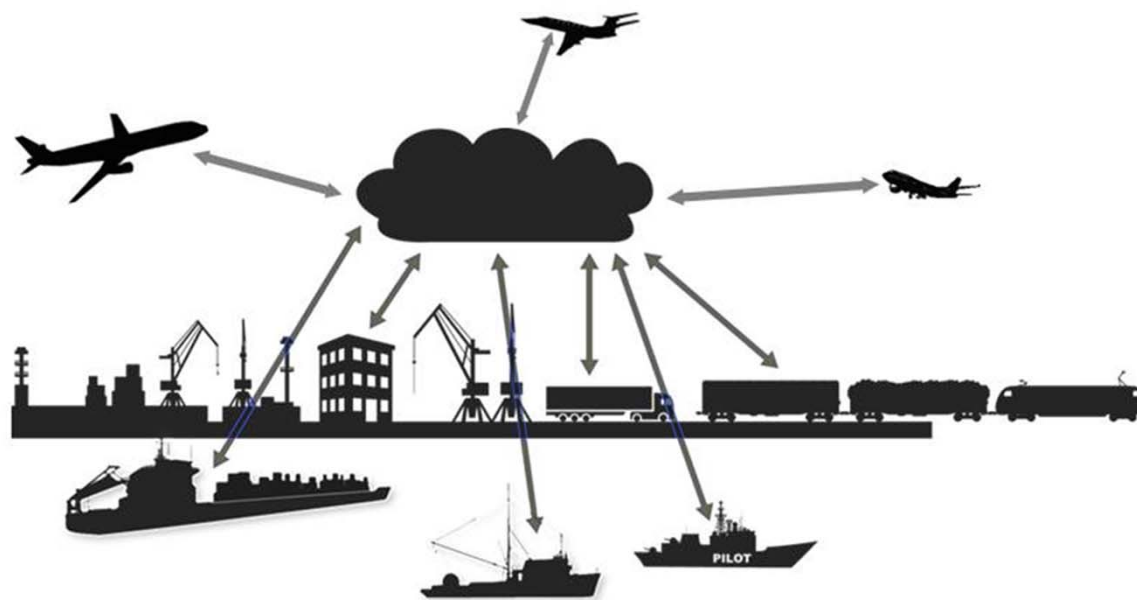
Focus areas of R&I

- Digitalisation
- Automation
- Positioning
- Information sharing
- Sea Traffic Management



Digitalisation and Sea Traffic Management

- A prerequisite for a sustainable and integrated transport system



Benefits of R&I within SMA...

Why
R&I?





 Co-financed by the European Union
Connecting Europe Facility

 SJÖFARTSVERKET

A paradigm shift for shipping, similar to AIS!

Examples of R&I: VTS and pilotage



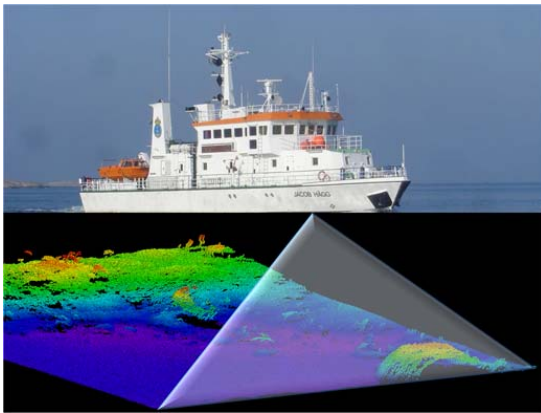
- STM in practice
- RESKILL och F-AUTO
- Increased automation of pilotage services ordering and planning
- Shore-based navigational assistance
- Autonomous safety

Examples of R&I: SAR and icebreaking



- STM in practice
- New sensor technology for SAR
- New technology for competence building and trials
- Winter navigation research programme with Finland

Examples of R&I: fairways, aids to navigation and hydrography



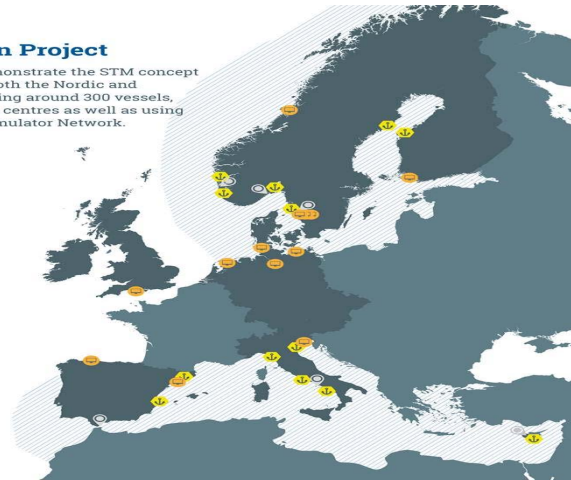
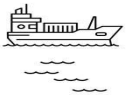
- Robust positioning
- Digital and connected fairways
- Broadband at sea
- UKC Management
- New methods for hydrographic surveys

The maritime simulator centre and the Simulator Network

STM Validation Project

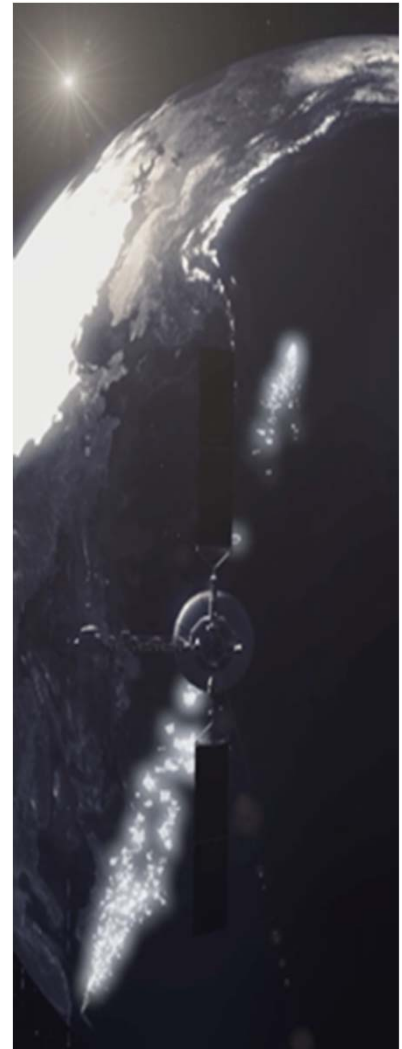
The STM Validation Project will demonstrate the STM concept in large-scale test beds in both the Nordic and Mediterranean Seas, encompassing around 300 vessels, 13 ports and 6 shore based service centres as well as using the European Maritime Simulator Network.

- Simulation centre in European simulation network (EMSN)
- Port CDM Port
- Shore centre
- Test bed for STM-services
- Country with project partner(s)



Requirements for long-term R&I at SMA

- External and internal focus
- Long-term financing
- Close collaboration within the organisation
- Close collaboration with the private sector, other authorities and academia
- International cooperation
- Continued high ambition, engagement and positive energy among experts and management





THINK DIFFERENT
MAKE THINGS HAPPEN
MAKE A DIFFERENCE