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**SDG 14** 

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#### THE OCEAN CONFERENCE



OUR OCEANS, OUR FUTURE: PARTNERING FOR THE IMPLEMENTATION OF SUSTAINABLE DEVELOPMENT GOAL 14

5 - 9 JUNE, 2017, NEW YORK

ABOUT



#### **CONFERENCE 5-9 JUNE** 2017

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Information note for participants

List of Participants of the Partnership Dialogues

**NEWS** 

9 JUN 2017 - Countries set to agree on decisive and urgent actions to restore marine world to health as Ocean Conference concludes

8 JUN 2017 - Facebook live interview. Joint efforts to #SaveOurOcean



#### **FEATURED VIDEOS**

Our Ocean, Our Future



The Ocean and Us, BBC Earth



UNFAO headquarters in Rome lights up in blue to mark World Oceana Dan







## S Y K E

#### SYKE

#### the Finnish Environment Institute

The expert and research agency for Finnish government and administration

Director General Lea Kauppi

Staff 550

Ministry of the Environment

- Finland's hub for environmental data and information
- Finland's environmental laboratories
- Terrestrial, marine and freshwater environmental science
- Sustainable consumption and production
- Circulation economy and environmental policy









#### SYKE Marine Research Centre Resurces

Staff:

95 researchers and experts

55 % men; 45 % women

40 % PhDs

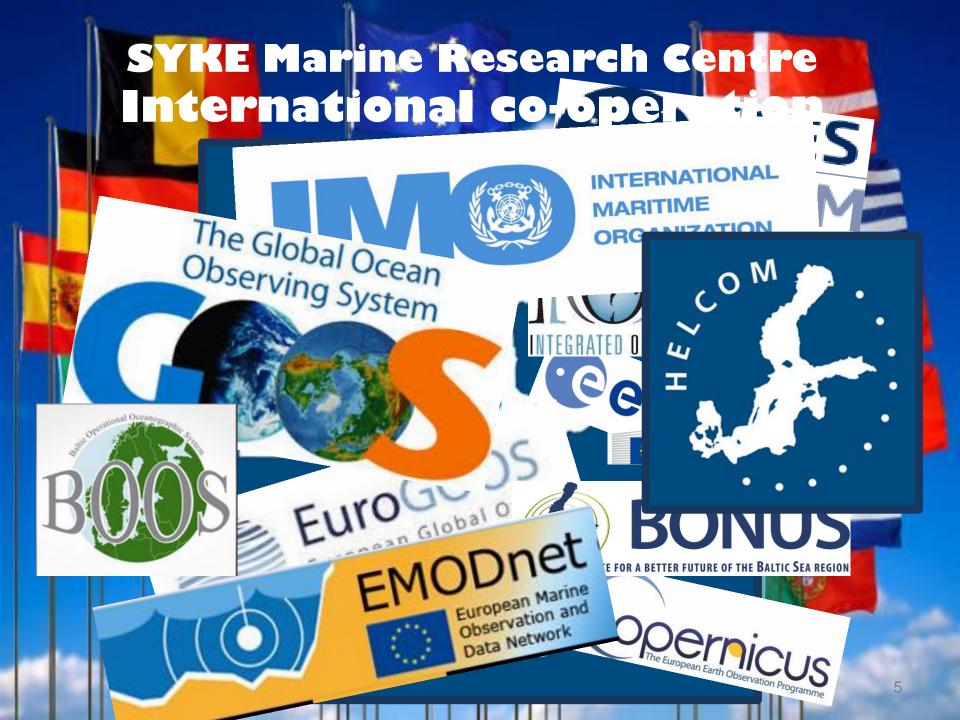
• Budget:

almost 9 m€

External funding:

70 %





SYKE Marine Research Centre for Finnish Government on marine environmental laws and regulations

# Holistic Assessment of the state of marine environment

Every 6<sup>th</sup> year Next: 2018 together with the 10 Baltic States

www.peda.net

#### **SYKE Marine Research Centre**

Research of ecosystems

Effects of human actions on marine environment

Development of methods

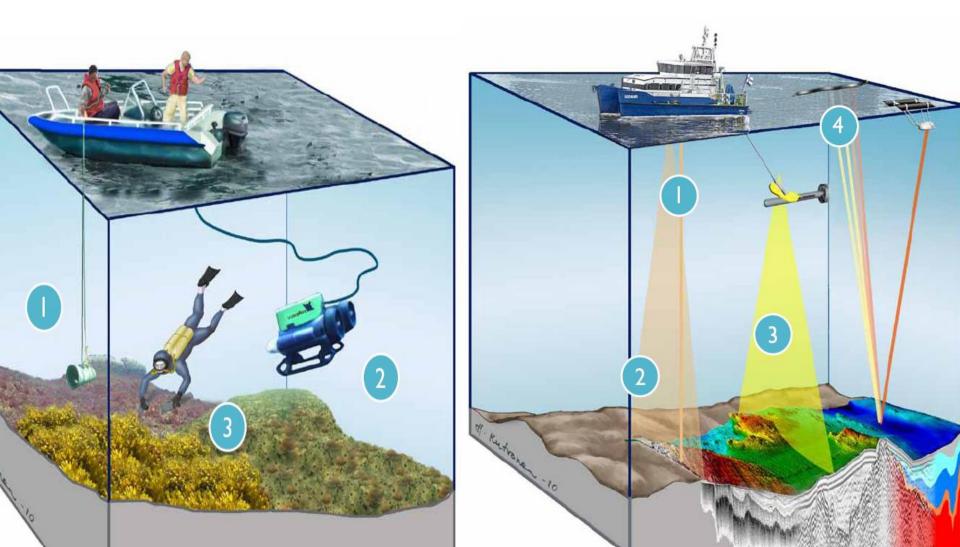


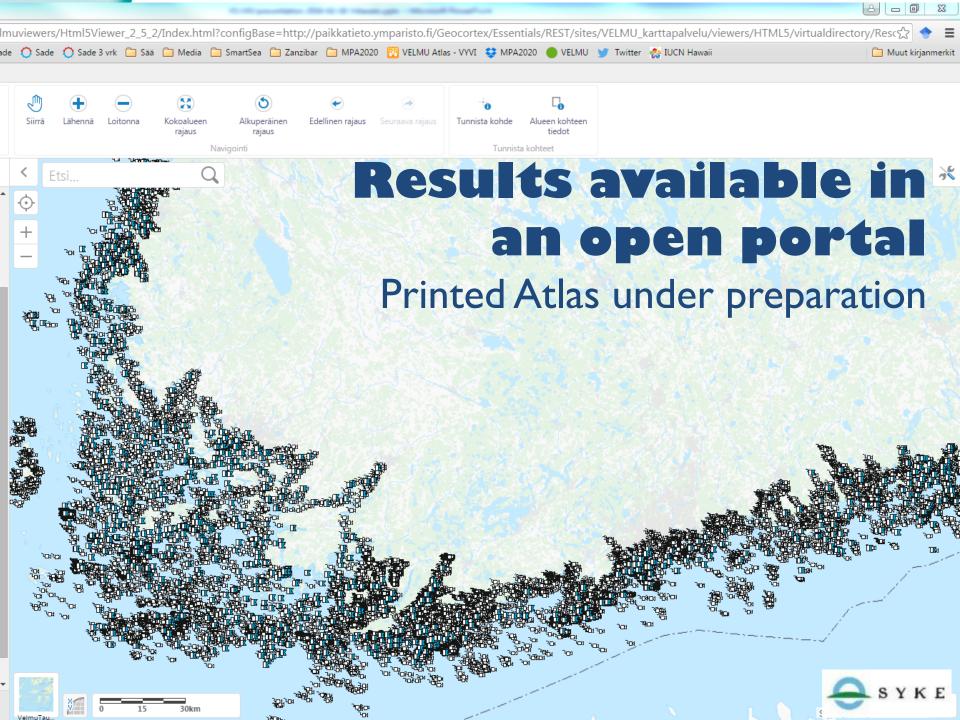


#### VELMU The Finnish Inventor of the Company of the Co Submarine Environment

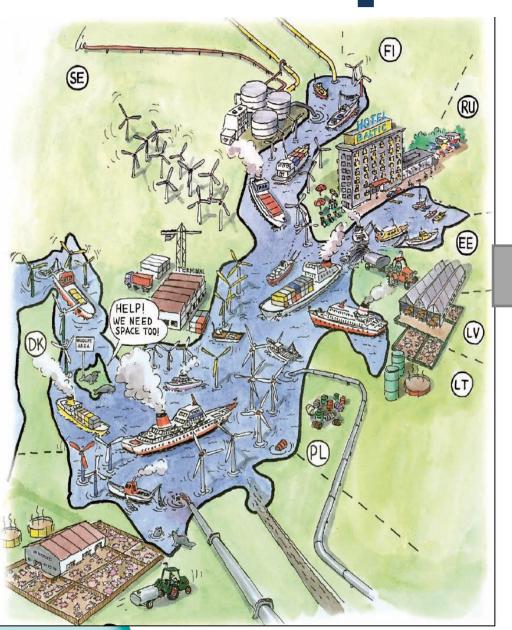
Surveys of underwater nature &

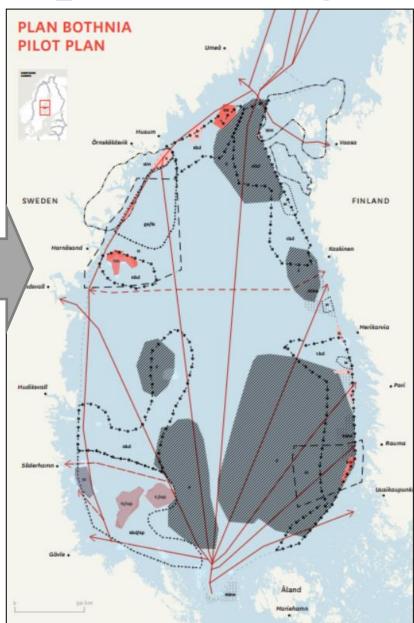
**Geological mapping** 

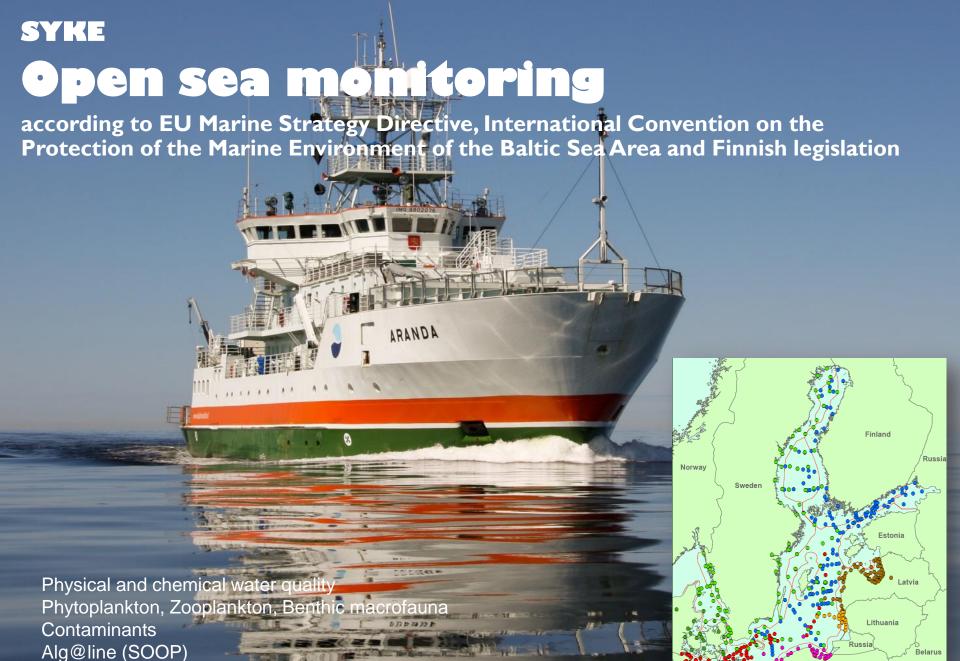




# SYKE MRC collects information and develops tools for marine spatial planning







Satellite remote sensing

# SYKE MRC: Continous data collection system

ALG@LINE 2013 M/S TRANSPAPER Kemi-Göteborg CTD, chlorophyll, turbidity, humic material and cyanobacteria. pCO<sub>2</sub>, pH, primary productivity BRAHE Lappeenranta -Helsinki LOUHI Upinniemi M/S SILJA SERENADE Helsinki-Mariehamn-Stockholm M/S VICTORIA M/S Silja Europa Tallinn-Mariehamn-Helsinki-Tallinn Stockholm M/S FINNSEA St Petersburg-Århus

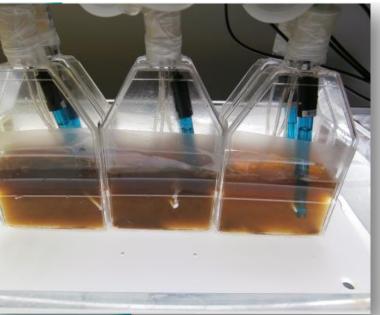
4-6 commercial ferries automated measurements and water sampling devices





#### SYKE Ecological Marine Research Laboratories

experimental research \* method development \* controllable facilities \* algae culture collection \* novel instrumentation \* bio-optics and imaging







#### SYKE - FINMARI Consortium for Finland's National Marine Reseach Infrastructure

New solutions for automated sampling, real time measurement and integration of data production













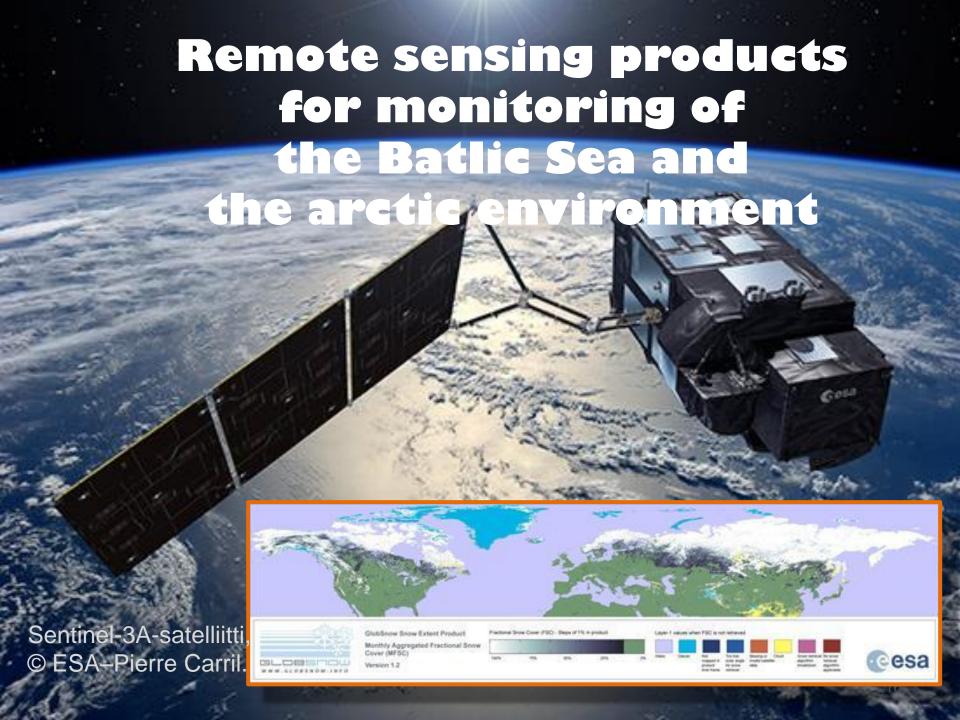




ocean carbonate chemistry \* acidification \* sea-air gas flux \* marine biota \* minute scale observations of phytplankton productivty and taxonomy

- Research since 1881 -





# SYKE is responsible for Finland's marine environmental emergency response

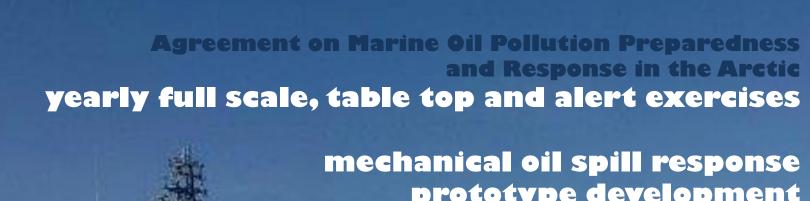
together with the Frontier Guard and the Finnish Naval Forces















Mechanical cleaning

Burning

Chemicals

Biological remediation

**Predictions** 

Provention strategies



#### Arctic multi-diciplinary research

**Baltic Sea as an arctic laboratory** 

Climate Change \* Marine Food Webs \* Sea ice ecology \* Flux modelling



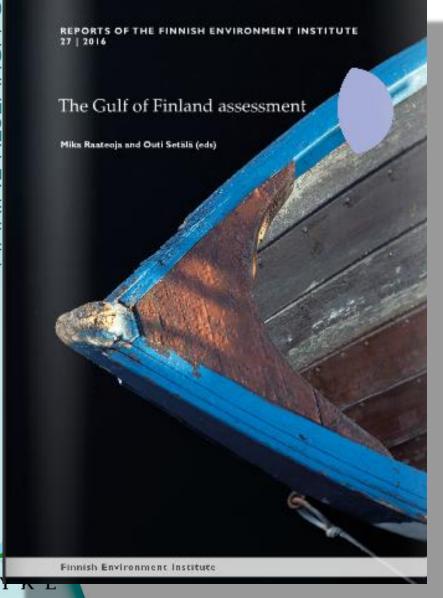






Sea ice cruise, R/V Aranda, March 2016

### Societal Impact - information for policy and decision makers - example Gulf of Finland Year









#### Thank you!

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