



STORMWINDS

Strategic and operational risk management
for wintertime maritime transportation system

GOALS

Safer maritime traffic without accidental pollution

- Analyze vessel traffic control and response using systems-theoretic accident models and maritime planning tools and processes
- Develop safety management model for Vessel Traffic Services (VTS) operations

Enhance environmental response capabilities

- Develop novel/improved situational awareness tools for emergency response
- Develop pollution response fleet risk management model for winter conditions

Advance state-of-art in e-Navigation technologies

- Develop a tool to classify SAR images in terms of ship performance in ice
- Develop methods for ship routing in ice

CONSORTIUM

Finland

Aalto University, Espoo
 Finnish Meteorological Institute, Helsinki
 Finnish Geospatial Research Institute, Masala
 Novia University of Applied Sciences, Turku
 Finnish Environment Institute, Helsinki

Estonia

University of Tartu, Tartu
 Tallinn University of Technology, Tallinn

Russia

Institute of Numerical Mathematics, Russian Academy of Sciences, Moscow

Sweden

Swedish Meteorological and Hydrological Institute, Norrköping



FACTS

- > 20 researchers involved
- 9 organizations in 4 countries around the Northern Baltic Sea
- 1.8 Mio Euro total budget
- additional 100k EUR in kind infrastructure committed
- 36 months project lifetime

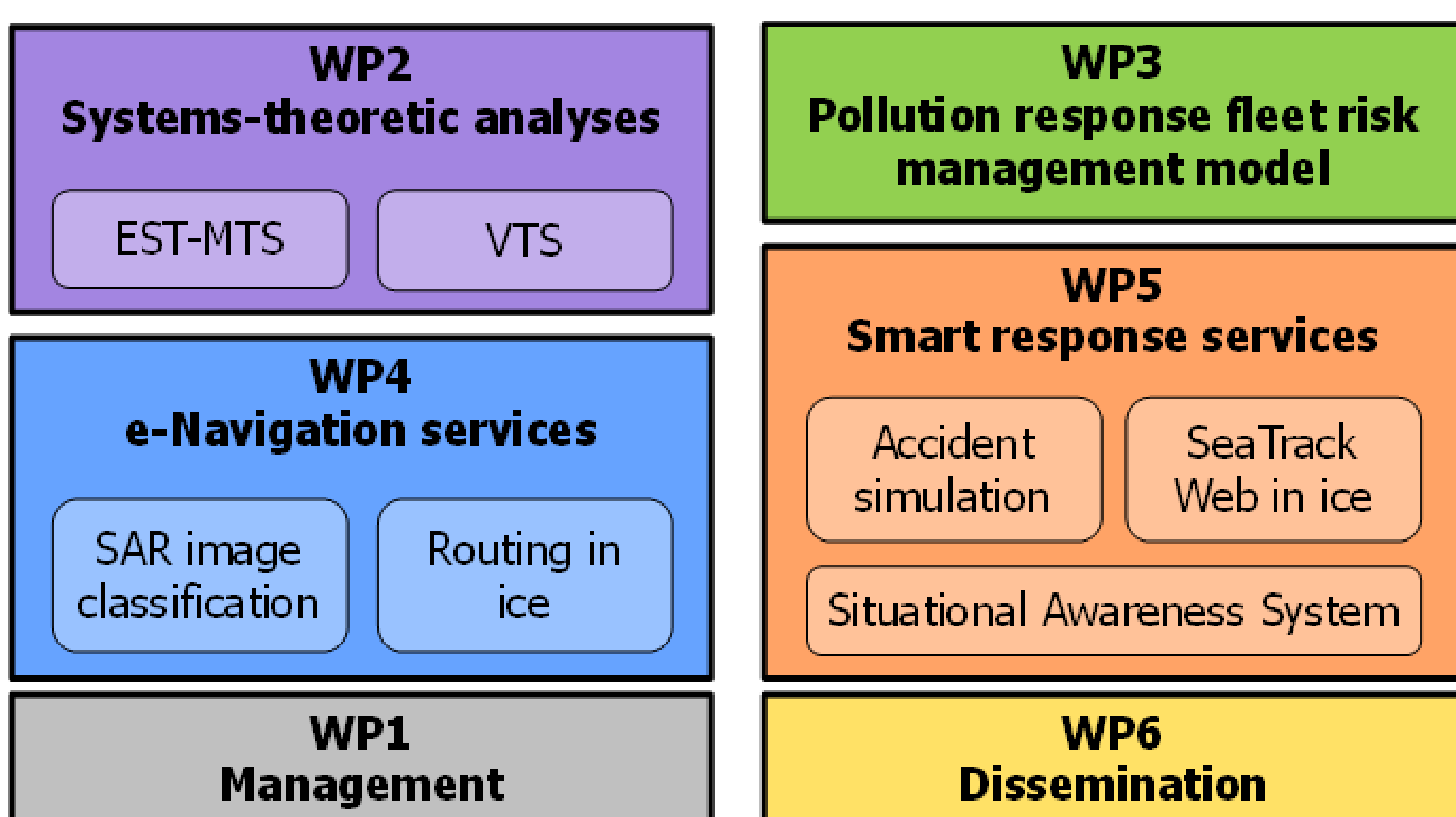
CONTACT

Project Coordinator: Pentti Kujala
pentti.kujala@aalto.fi
 Project Manager: Floris Goerlandt
floris.goerlandt@aalto.fi

ONLINE

www.stormwinds.aalto.fi

STRUCTURE



FUNDING

STORMWINDS has received funding from BONUS (Art 185) funded jointly from the European Union's Seventh Programme for research, technological development and demonstration, and from Baltic Sea national funding institutions: the Academy of Finland (Finland), the Estonian Research Council (Estonia), the Research Council for Environment Agricultural Sciences and Spatial Planning (FORMAS) (Sweden).

