Modelling and Simulation

- Understanding the Real World
- Safety and Efficiency Analysis
- IT-Architecture Development
- Risk Monitoring

Research and Development

- Development Methods and Processes
- Requirements engineering and IT-Architectures
- Validation & Verification Lab
- System-of-Systems aspects

Evaluation

- Testing of Concepts and Software Systems
- Testing in Real Environments
- In situ Demonstration
- Technologies and Services

eMIR Platform for Development, Verification and Evaluation of Civil Maritime Systems

24.01.2018
Flagship project for Civil Maritime Safety
Implementation of the National Master Plan Maritime Technologies (NMMT)

Traffic Safety
- Traffic Guidance and Monitoring
- Maritime transport chains
- Safe Navigation

Environmental Safety
- Environmental Monitoring
- Coastal Protection
- Ship Emissions

Safe Infrastructures
- Ports and Critical Assets
- Vessels
- Offshore and Underwater Infrastructures

Cross-cutting topics
- System Integration and Standardization
- Comm. and IT Security
- Qualification
- Operational Safety
eMIR
Support R+D, Development Processes and Validation of new eNavigation Technologies and Services

HAGGIS
Virtual R&D Environment

- Maritime Traffic Simulator
- 3D Simulation
- Scenario Editors
- Co-Simulation Ecosystem
- Simulations

LABSKAUS
Physical R&D Environment

- Reference Waterway
- Experimental Bridge
- Mobile Bridge
- Maritime Control Station
- NaviBox
- Research Vessels
- Communication
- Infrastructure

24.01.2018
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Support R+D, Development Processes and Validation of new eNavigation Technologies and Services
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