

How to facilitate innovation; lessons learnt from desk research and regional innovation meetings recommendations for next steps

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Innovation Agenda

Objective

- Speeding up the deployment of Research & Innovation
four areas: logistics/market; fleet; jobs&skills; infrastructure



Desk Research and Stakeholder Meetings

- Define R&I needs and priorities
 - screening, filtering and evaluating existing studies
 - input stakeholders
- +
- Identification of barriers to implementation
- Identification of ways to support deployment

Innovation Agenda

Screening, evaluating and filtering to get clear view of:

1. Benefits (economical and environmental)
2. Applicability to the fleet
3. Technological 'maturity'
4. Necessary support needed
5. Extent to which topics are already being dealt with



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Intermediate results

What is needed:

- **Focus & commitment**
- **Develop critical mass / cluster innovation topics**
- **Comprehensive approach (carrot and stick)**

Address the necessary dimensions

- technical
- legal
- financial
- market
- human



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Fleet - promising technologies (emphasis on greening)

1. Emission reduction / after treatment (SCR/DPF)
 - Prominent; financing issue
2. Hybrid propulsion systems (standardized solutions)
 - Prominent; no pilot / real life demonstrator
3. LNG
 - LNG Masterplan, Prominent; financing issue; Methane slip and BioLNG need further attention
4. Hydrodynamic optimization
 - Move-It ; technology already more mature; financing issue
5. Small ships
 - Large scale development; standardization; new businessmodel, including finance
6. New fuels; Fuel cells / Hydrogen (standardized solutions)
 - Longer term research item



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Logistics – promising technologies / avenues

- New logistic concepts (e.g. Q-Barge)
- Cooperation (increasing payload, consolidating flows, maritime containers)
- Continental cargo
 - Addressed in Platina II



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Education & Qualification – promising technologies

1. Mobile learning
 - Prominent
2. Simulator training (energy efficiency)
 - Prominent
3. Energy Efficient navigation
 - Prominent
4. Integration of IWT in logistics education
 - Prominent
5. Automation (autonomous navigation)



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Infrastructure - promising technologies

1. Prediction of available water depth (improve load factor)
 - Covadem (IDVV)
2. Real time info on fairway data (improve energy efficiency)
 - Prominent
3. Technologies for waterway maintenance

1-3 support for deployment needed



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Next steps

Document results and further validate with stakeholders

Roadmaps for selected issues

- Small ships
- Fuel cells / hydrogen
- Logistical measures (collaboration)
- Digitalization Agenda (Fairway info systems, etc)

Attention needed for:

- Innovation deployment support tools
- **Financial issues**
- End goal
- Intermediate organization



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Contact WP2

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