

Danish Maritime Research and European Cooperation

1st European Maritime Research Policy Conference

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Disposition

- **The Danish Maritime Cluster – an agenda for growth**
- **The Danish Research System and the EU perspective**
- **Danish maritime research and the EU perspective**
- **Conclusion**
 - A picture of competences

Central Danish Maritime RDI-players

- **Ministry of Economic and Business Affairs – MEBA**
 - Conditions for growth
 - Economic analyses
 - Policy initiatives
- **Danish Maritime Authority**
 - An authority under MEBA
 - A wide pallet of tasks
 - Compliance and policy making
 - Cluster perspective
- **The Ministry of Science, Technology and Innovation**
 - An infrastructure from fundamental research to innovation

The Danish Maritime Cluster

- **6 % of the total Danish value added**
- **6 % - direct and indirect - of private employment**
- **Shipping export earnings 2006 - 21 billion Euro**
- **Net Shipping export earnings 2006 – 3,5 billion Euro**
- **Maritime equipment and service export - 3 billion Euro**
- **Danish shipping caters for 10 % of world cargo transport in value**
- **Danish Shipping – ownership, chartering in and pools**

The Danish Maritime Cluster - an Agenda for Growth - aims (1)

- Take the offensive
- A growth strategy anchored in industry and government
- **Competition**
 - Commercial
 - Framework conditions
- **Covering the maritime cluster**

The Danish Maritime Cluster - an Agenda for Growth - aims (2)

- **Quality shipping as the base line**
 - Danish
 - International
- **Regulation**
 - Do not prescribe solutions/methods
 - Set standards
 - Meet standards through innovation
- **IMO the central player**

The Agenda for Growth - Seven focus areas

- Better **education** and greater flow of **skilled labour** into the Danish Maritime **Cluster**
- **Research, development and innovation** in the Danish Maritime Cluster
- **Taxation** and development financing
- **Red tape cut down** and fewer Danish national requirements
- Promotion of **Danish international influence** and market access
- Enhanced focus on **quality shipping**
- An efficient, service-oriented and modern **administration**

The Danish research system

- **The Ministry of Science, Technology and Innovation the central player**
- **Offers an infrastructure from fundamental research to innovation**
- **Strongly committed to European research**
- **Strategic research**
 - Broad national exercise ongoing
 - Industrial and societal values
 - Anchored in the ministries
 - Maritime strategic research a part of the work
 - Finance available from 2009

The EU dimension for Danish maritime research –(1)

- **ERA-net**
 - Transport
 - Martec – Maritime technologies
 - Calls – modest projects
- **Framework programmes**
 - Denmark participates in maritime research
 - Denmark aims for bigger participation

The EU dimension for Danish maritime research –(2)

- **Waterborne TP**
 - We are all in the same boat
 - How to eat the cake?
 - A clear role in policy making?
- **ERA-net and Waterborne TP important RDI drivers**
 - Academics - disciplines and methods
 - Industry - innovation

Paving the way to EU research

- **Denmark aims for significant FP7 participation**
- **EU FP's as an integrated part of Danish Research**
- **Instruments**
 - Co-funding of negotiating periods
 - Grants for preparing FP7 applications
 - Awarding Danish universities for their FP7 success
 - Liaison office in Brussels
 - Specific information days
 - Dissimination of best practice

Danish Maritime Research to day – (1)

- **No maritime programme for the time being**
- **Strong university settings**
 - The Danish Technical University
 - The University of Southern Denmark – the Maersk Mc. Kinney Moller Institute
- **Force Technology**
 - Applied Technological Institute
 - Maritime division

Danish Maritime Research to day – (2)

- **The Danish Center for Maritime Technology**
 - DTU, Force and industry
 - The bridge from academic to industry
 - Joint projects for safety, efficiency and environment
 - Advisory board

- **The Danish Maritime Fund**

Strategic maritime research program in the pipeline

- **Vision**
 - Reduction of emissions from ship transportation by developing environmental and energy effective maritime technologies and systems
- **Sub-themes**
 - Energy efficient ship production plant
 - Efficient propulsion systems
 - Efficient ship operation and maintenance
 - Planning and optimising the transport chain
- **Danish ERA-net Martec call condition**

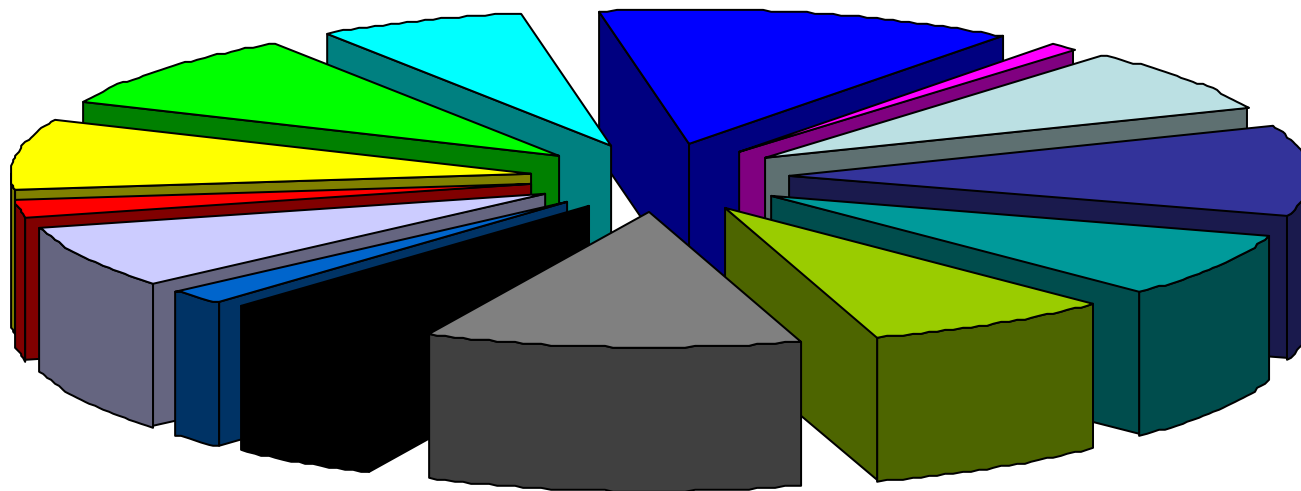
A Danish maritime demonstrator?

- **The 2009 climate summit in Copenhagen**
- **The "minus X emission ship"**
- **Danish ship-technology to day**
 - The energy production plant
 - The propulsion system
 - Operation and maintenance
 - Cooperation within the value chain
- **A way ahead for further improvements**
 - Needed RDI
 - Cooperation

Conclusions on maritime research

- **A holistic maritime policy agenda is needed**
 - Research as an element
 - Cluster perspective
- **Stable and timely adjustments of framework conditions**
- **A European wide agenda for maritime cluster growth**
 - National framework conditions
 - Waterborne, FP and other EU-instruments
- **Partnerships and commitments**
 - RDI as a network
- **Competences – recruitment, education and RDI – make a (the?) difference**
- **At the end – let us take a look on competences!**

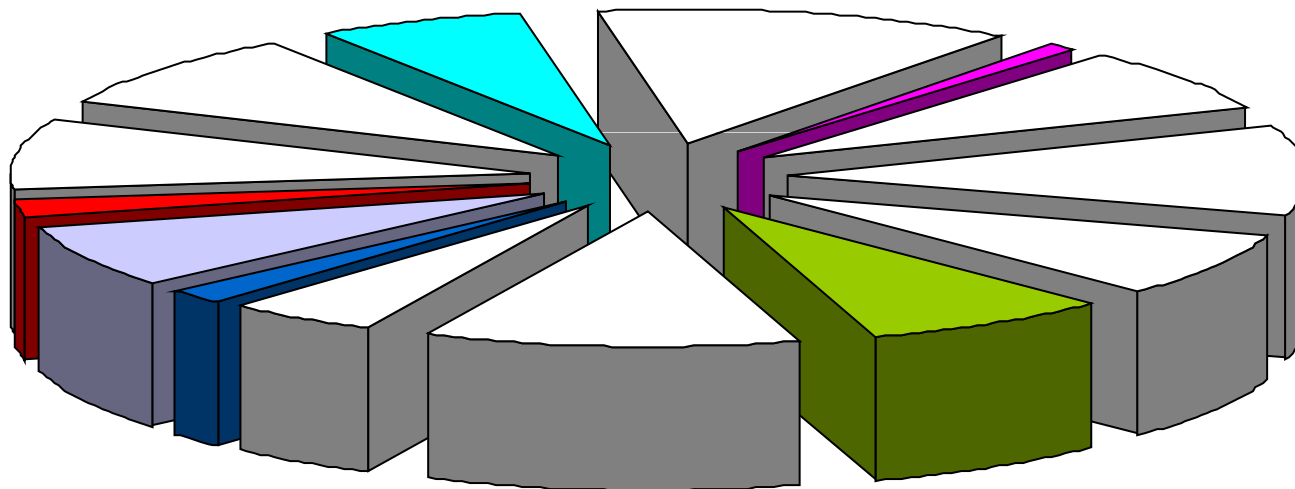
Competences in the Maritime Cluster (1) – Recruitment, education and RDI



A mosaic of competences is needed



Competences in the maritime cluster (2) – Recruitment, education and RDI



Blank spots **erode** - **nurturing** is imperative - a **common responsibility**

End

Thank you for your attendance