



Center of Maritime Technologies e.V.
Competences – Projects - Interests in FP7- 4

FP7 Maritime Transport Brokerage Event 2010 London

Dr.-Ing. Frank ROLAND



Introducing CMT

- Association
- Research Centre

Skills & Expertise in relation to the Call and its Topics

CMT Interests in FP7-Transport - Call 4 (2011)

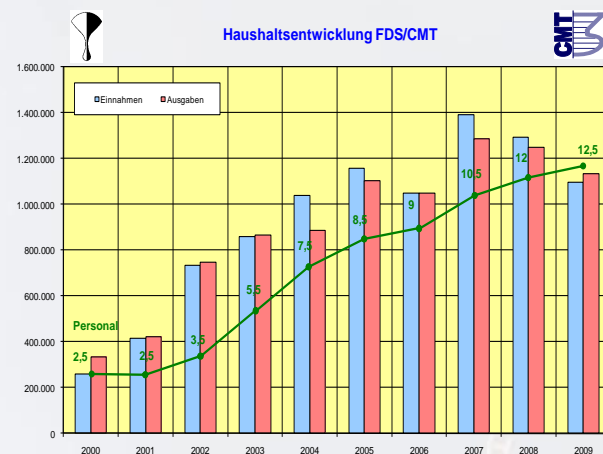
History and Development:

- **CMT founded in June 2003** as a joint initiative of industry, research and the German administration
 - strong focus on Europe (75..80% turnover);
 - all maritime sectors (shipbuilding, shipping, offshore);
 - own research activities in strategic fields.
- ca. **13+ employees, ca. 1.2 Mio € turnover** (2009)



Services for Members:

- **contact point** for innovative ideas and technical questions;
- **Information** on RDI funding programmes, projects and competences;
- **strategy development** and **political support** in Germany and Europe;
- **R&D network** and joint development of **competences**;
- **technology transfer** and **application of R&D results**;
- own resources for **contract research** and development.



- Since 2002:
 - ca. 40 involvements in funded RTD Projects;
 - ca. 35 direct industry contracts;
 - ca. 40+ German Joint Industry Projects (SME).
 - Main **Fields of Expertise**:
 - Investment and Production Planning;
 - Joining, Production Equipment, Process Development, Approval, Quality;
 - Strength, Materials (metallic and composite);
 - Ship concepts and Life Cycle Performance assessment (cost, environment, safety);
 - Ship and offshore concepts;
 - Onboard energy management, fuel cells;
 - Central Design and Tool Platform.
- covered with own expertise and through the CMT network.



Fotos: VSM

GENERAL:

- *contact point* for the involvement of German partners and of European shipyards in projects and consortia;
- dissemination and management activities (proven skills and experiences in more than 30 EU projects);
- *Active role* – WP or task leader – organizing work and partners;
- *Proposal coordinator* (shared cost) and *project management* if a consortium requests.

- List of technical subjects of interest: see Partner Search Forms

Our interest in Call SST-2011-RTD-1

Topic	Tasks of interest
SST.2011.1.1-1. Green retrofitting through optimisation of hull-propulsion interaction, SST.2011.1.1-2. Retrofitting of existing ships with green technologies	<ul style="list-style-type: none">• <i>overall energy management</i>• <i>life cycle performance assessment</i>• <i>planning und re-engineering of retrofitting processes</i>• <i>development and selection of equipment, processes and materials for retrofitting</i>• <i>adaptive or easily interchangeable devices</i>• <i>modular solutions (“green modules”)</i>• <i>innovative lightweight structures</i>
SST.2011.1.1-3. Towards zero emission marine engines	<ul style="list-style-type: none">• <i>Overall energy flows and management</i>• <i>Alternative fuels and energy sources</i>• <i>life cycle performance assessment</i>

For details and contacts – see [Partner Search Forms](#)

Our interest in Call SST-2011-RTD-1

Topic	Tasks of interest
SST.2011.2.1-1. Efficient interfaces between transport modes	<ul style="list-style-type: none">• <i>intermodal transport simulation</i>• <i>simulation of the ship-terminal interface</i>• <i>cost assessment for loading / unloading operations</i>• <i>energy balance</i>• <i>Cost and environmental impact assessment</i>
SST.2011.5.2-3. Cost-effective modernization of the inland fleet for freight transport	<ul style="list-style-type: none">• <i>Energy Load Balance, alternative energy</i>• <i>life cycle performance assessment</i>• <i>lightweight and conventional structures</i>• <i>retrofitting and production processes</i>
SST.2011.5.2-4. international collaboration SST.2011.5.2.1 Waterborne competitiveness	<ul style="list-style-type: none">• <i>Under discussion with European associations</i>

For details and contacts – see [Partner Search Forms](#)

Our interest in Call “Ocean of Tomorrow 2011”

Topic	Our expertise and skills
OCEAN.2011-1 Multi-use offshore platforms	<ul style="list-style-type: none">• <i>Development of offshore and ship concepts</i>• <i>Structural design including the use of innovative materials,</i>• <i>Planning and simulation</i>• <i>Life cycle performance assessment</i>• <i>retrofitting and production processes</i>

Further information you can find in our Partner search forms

*Thank you for your attention!
Questions and comments are welcome !*



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