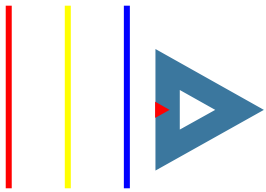


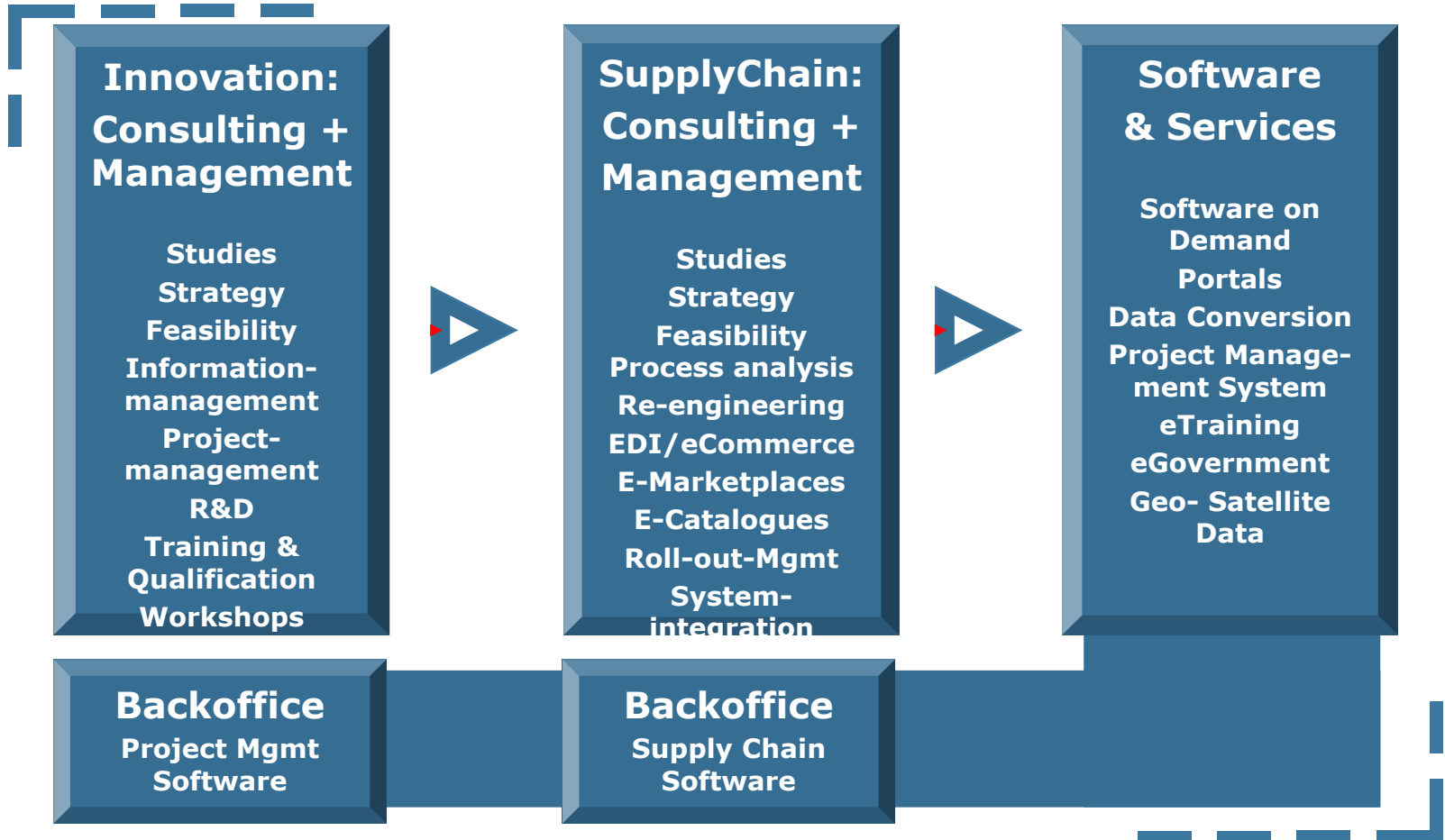
**EU FP 6
Maritime Co-ordination
and Maritime Project Initiatives**

Joachim Brodda





BALance Business Fields

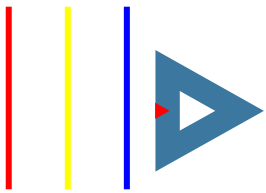


- **Maritime R&D Co-ordination Means**
- **FP 6 – Framework, Instruments**
- **Maritime relevant programmes**
- **Examples**



Maritime RTD Co-ordination



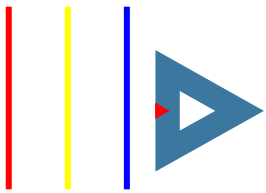


MIF Members



- ▲ **EC DG Transport and Energy (Commissioner)**
- ▲ **EC DG Enterprise and Information System (Commissioner)**
- ▲ **EU Shipbuilders' Association (CESA)**
- ▲ **EC Shipowners' Association (ECSA)**
- ▲ **EU Cooperation in Maritime Research (ECMAR)**
- ▲ **EU Marine Equipment Council (EMEC)**
- ▲ **EU Metalworkers' Federation (EMF)**
- ▲ **EU Sea Ports Organisation (ESPO)**
- ▲ **EU Association of Classification Societies (EURACS)**
- ▲ **EU Oil & Gas Innovation Forum (EUROGIF)**
- ▲ **EU Transport Workers' Federation (ETF)**





RDSGP work programme



- ▲ Formulating the policies and strategies for short and medium term R&D, with the principles of the ERA
- ▲ Provide assistance to other MIF Ad Hoc Working Groups on R&D issues
- ▲ Stimulating dissemination of R&D results
- ▲ Provide a forum for allowing dialogue between MIF and other organizations
- **...to continuously update the Masterplan with the support of thematic network ERAMAR**



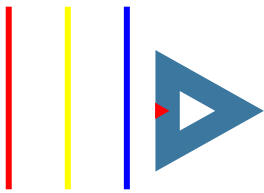


Maritime Thematic Networks



- ▲ **SAFEREURORO**
"Design For Safety: An Integrated approach to Safer European roll on, roll off ferry design,"
- ▲ **ADVANCES**
Added Value Network Concerning European Shipping
- ▲ **THEMES**
Thematic Network an Safety Assessment in Waterborne Transport
- ▲ **METNET**
Thematic Network on Maritime Education, Training and Mobility
- ▲ **CEPS**
Competitive engineering and production in shipbuilding
- ▲ **PRODIS**
Product development and innovation in shipbuilding
- ▲ **TRESHIP**
Technologies for Reduced Environmental Impact from Ships
- ▲ **FLOATTECH**
Floating Structures Technology Thematic Network
- ▲ **SWAN**
Standardisation & dissemination support actions for waterborn telematic networks & applications
- ▲ **ROBMAR**
Robotics for the maritime industries
- ▲ **WATERMAN**
Thematic Network on Waterborne Transport Management and Information Services
- ▲ **ETISMAR**
A project to help maritime SMEs to participate in RTD projects
- ▲ **E - MAR**
Thematic Network for Supporting new methods of Management Systems for Suppliers and Consumers, E-work and E-commerce in the Maritime World
- ▲ **ERANET**
Exemplary Research and Development Network for Technology Transfer





▲ The maritime transport chain

Area 1: shipbuilding

- Design
- Production
- Recycling
- Ships, ship systems and equipment
- Safety and environmental needs
- Education and training

Area 2: shipping

- Economics and changes in markets
- Logistics and intermodality
- Environmental sustainable transport
- Human resources and manning
- Application of ICT in operation and maintenance
- Safety of shipping in coastal waters

▲ The marine resources

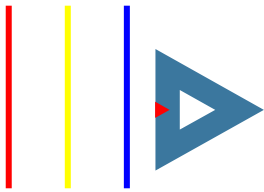
Area 3: offshore energy technologies

- Offshore wind farming
- Offshore oil and gas
- The deep water challenges

Area 4: coastal zone and marine resources

- Coastal defenses to tackle possible rise of sea level
- Land reclamation
- Offshore islands
- Offshore renewables
- Short sea shipping





Maritime RTD Co-ordination



- MIF - Indust
- RDSPG and De Strategic Group
- COR
- Maritim Master

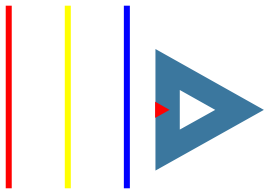
LeaderSHIP 2015

A Road Map for the Future of the European Shipbuilding and Ship-Repair Industry



• Maritime R&D Projects





FP6 Focussing and Integrating Community Research



F O C U S S I N G A N D						I N T E G R A T I N G		C O M M U N I T Y		R E S E A R C H		
P R I O R I T Y T H E M A T I C A R E A S						S p e c i f i c a c t i v i t i e s c o v e r i n g a w i d e r f i e l d o f r e s e a r c h						
Genomic and biotechnology for health	Information society	Nanotechnology intelligent mat., new production processes	Aeronautics and space	Food safety and health risks	Sustainable development and global change	Citizens and governance in the knowledge society	Research for policy support		Anticipating scientific and technological needs			
							Specific SME activities					
							Specific international cooperation activities					
							JRC activities					

S T R U C T U R I N G T H E E R A			
Research and innovation	Human resources & mobility	Research infrastructures	Science and society

S T R E N G T H E N I N G T H E F O U N D A T I O N S O F E R A	
Support for the coordination of research activities	Support for the development of research/innovation policies





- **Europe's 4 year R&D funding plan 2002 – 2006**
- **Research Vision of European Research Area**
- **To Integrate and strengthen Europe's Global Position**
 - **Competitiveness**
 - **Benefits for European Citizens**
- **17+ Billion Euros**

Priority Thematic Areas

1. Genomic and biotechnology for health
- 2. Information Society Technologies**
- 3. Nanotechnologies, intelligent materials and new production processes**
4. Aeronautics and space
5. Food safety and health risks
- 6. Sustainable development and global change**
7. Citizens and governance in the knowledge society

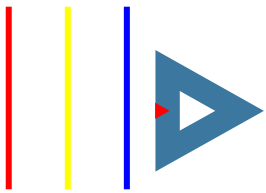




- **A new initiative EMRAC**
- **European Maritime Research Advisory Council**

- **A new initiative to establish a forum to bring together all relevant stakeholders in European maritime research**
- **To further enhance and to sustain the process of identifying and communicating maritime research priorities**
- **Mid-term (Masterplan) to long-term (strategic research agenda)**
- **Supported by network activities (eg, ERAMAR)**
- **European Commission support setting up an EMRAC**





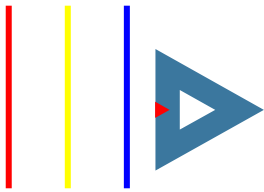
Instruments for Priority Themes



- **“New” Instruments**
- **Integrated Projects**
 - Ambitious Objective driven
- **Networks of Excellence**
 - Exploratory research

- **“Old” Instruments**
- **Specific Targeted Research Projects**
 - Address individual Topics
- **Co-ordination actions**
- **Support Actions**
- **Article 169 (Member states initiative)**



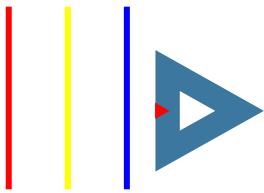


**Priority 6: Sustainable Development and
Global Change**
6.2: Sustainable surface transport



- **I. Developing environmentally friendly transport systems and means of transport**
 - **Objective 1: New technologies and concepts for all surface transport modes (road, rail and waterborne)**
 - **Objective 2: Advanced design and production techniques**
- **II. Making surface transport safer, more effective and more competitive**
 - **Objective 3: Re-balancing and integrating different modes of transport**
 - **Objective 4: Increasing road, rail and waterborne safety and avoiding traffic congestion**



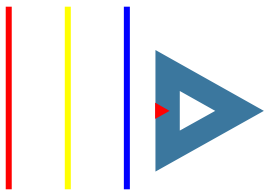


IST - Strategic Objectives Call 1



- Pushing the limits of CMOS, preparing for post-CMOS
- Micro and nano-systems
- Broadband for all
- Mobile and wireless systems beyond 3G
- Towards a global dependability and security framework
- Multimodal interfaces
- **Semantic-based knowledge systems**
- **Networked audiovisual systems** and home platforms
- **Networked businesses** and governments
- eSafety of road and air transports
- **e Health**
- **Technology-enhanced learning** and access to cultural heritage
- **Products and Services engineering 2010**



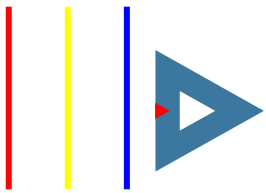


IST - Strategic Objectives Call 2



- **Advanced displays**
- **Optical, opto-electronic, & photonic functional components**
- **Open development platforms for software and services**
- **Cognitive systems**
- **Embedded systems**
- **Applications and services for the mobile user and worker**
- **Cross-media content for leisure and entertainment**
- **GRID-based Systems for solving complex problems**
- **Improving Risk management**
- **eInclusion**





1. Shipbuilding

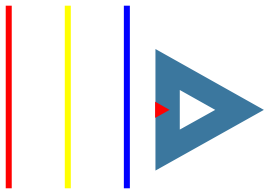
- Design
- Production
- Recycling
- Ships, ship systems and equipment
- Safety and environmental needs
- Education and training

2. Shipping

- Economics and changes in markets
- Logistics and intermodality
- Environmental sustainable transport
- Human resources and manning
- Application of ICT in operation and maintenance
- Safety of shipping in coastal waters

1.6.2 Sustainable Surface transport

- Objective 2: advanced design and production
- Objective 1: environ. friendly transport
- Objective 1: new technologies ...
- Objective 4: making transport safer ...
(accompanying measures)
- -
- Objective 3: rebalancing and integrating transport modes
- Objective 1: environ. friendly transport
- Research domain 3.1.2
(*information society tech.*)
- Objective 4: incr. waterborne safety



3. Offshore energy technologies

- Offshore wind farming
- Offshore oil and gas
- The deep water challenges

4. Coastal zone and marine resources

- Coastal defenses to tackle possible rise of sea level
- Land reclamation
- Offshore islands
- Offshore renewables
- Short sea shipping

1.6.1 Sustain. energy systems

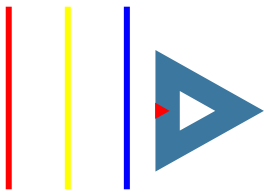
- clean energy, in particular renewable energy sources ...

1.6.3 Global change and ecosystems

- sustainable land management, including coastal zones

1.6.1 Sustain. energy systems

- clean energy, in particular renewable energy sources ...

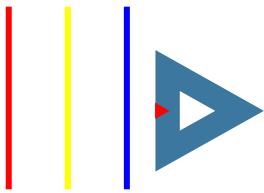


Match Instruments to P 6.2



Objectives Priority 6.2	Call 1A 04/03 39 M€	Call 1B 04/03 170 M€	Call 2A 12/03 48 M€	S.Act cont. 5 M€
1 – New Technologies and Concepts for Transport				
Ultra low emission propulsion and renewable fuels		IP, CA		all
Measurement and sensing for operation		STR, CA		
2 – Advanced Design and Production Techniques				
Integration and Application of advanced Design Tools		CA,		all
Low-mass material structures and systems		CA		
Integration of manufacturing processes		CA		
Clean maintenance, dismantling and recycling		STR, CA		
Design and manufacturing of infrastructure, intermod.		STR, CA		
Integrated Design and Manufacturing for shipyards		IP		
Structural Analysis for safety, environment and comft		NoE		





Match Instruments to P 6.2

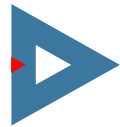


	Call 1A 04/03 39 M€	Call 1B 04/03 170 M€	Call 2A 12/03 48 M€	SSA cont. 5 M€	
3 – Re-balancing and integrating transport modes					
Freight Transport Corridors	IP			all	
Maritime Navigation and Information Services	IP, CA				
Interoperable and intermodal vessel concepts		STR, CA			
Equipment, methods and systems for cargo handling		CA			
Effective, clean and safe operations, incl. Waste mgmt.		CA			
4 – Increasing safety ...					
Technologies for manouvering assistance		STR, CA			
Computer-based training systems, incl. crisis mgmt.		CA			

Tentative Topics for Call 2B (Deadline 03/04)

- Hydrogen and fuel cell platform (IP)
- Risk Based Ship Design and Approval (IP)
- Integration of CFD for Virtual Basin (IP or NoE)
- Visionary Concepts for Ships + Floating Structures (NoE)





Example IP Internship



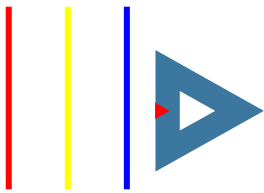
- **Initiative by EuroYards**
 - Chantiers de l' Atlantique/F, Fincantieri/I, IZAR/E, HDW/D, Meyer Werft/D, Kvaerner Masa Yards/SF
- **Other Shipyards as Sub-Project Partner**
 - Interest of FSG/DE, Odense Lindo/DK, Viana do Castelo/P
- **Appr. 24 Research Projects**
 - Design Integration, Basic Design, Welding, Knowledge Management, Logistics, e-commerce, Modularisation, Automation
- **Horizontal Actions**
 - for overall integration and implementation
- **Open Call for Subcontract Proposals**
 - closed since December 2002
- **Proposal preparation under way**
- **Project preparation supported through FDS and BALance**



Examples STREP



Acronym	Title	Contact
ADISMOS	Adv. intelligent integrated ship monitoring and safety control	CETENA - IT
AIROS	Advanced Intermodal Ro-Ro Operations for Short Sea Shippin	CON SAR - IT
ENVI-COAT	Safe and environmentally friendly ship coating	Uni Newcastl
EROS-II	Emergency Response on Board Ships	CON SAR - IT
EURORISE	European River-Sea Concept Development	Uni Istanb
IMO-PREP	Information to Master Pre- and Post Damage (PAY, IMO)	CETENA - IT
LOGBASED	Logistic Based Ship Design	FSG - DE
NextShipme nt	Integrated door-to-door transport for intercontin., short sea and inland	VBD - DE
Pop & C	Pollution Prevention and Control	SSRC - UK
ROTIS II	Remotely Operated Tanker Inspection System	TECNOM. - IT
SAFECARGO	Design and operational measures for safer cargo operation	FSG - DE
SAFECON	Hazard Avoidance of seaborne container transport	MARIN - NL
SHIPINTEL	Ship Interactive Intelligent Data System	ISQ - PT
SHIP-SUR-C	Survival capability of ships with damage	UniOviedo/E



Examples CA, SSA



Acronym	Title	Contact
Co-ordinated Actions (ex Thematic Networks)		
ALPROSE	Alternative Zero Emission Propulsion	Inocean/N
CAREMAR	Co-ordinated Academic RTD and Education Supporting Innovation in Marine Industries	WEGEMT - UK
ISO-MARTRAN	Intelligent (Integrated) Ship Operations for Maritime Transportation	SSRC - UK
REAL IMPACT	Assessment of Impact on Performance at Company Level of European Maritime Research & Technological Development	VNSI - NL
Specific Support Actions (ex Accompanying Measures)		
EU Res. Maritime	Establishment of an R&D Advisory Council for Maritime	PEMAR - FR
	Integration of the Candidate States and CIS into European Maritime Research	FDS/CMT - DE



Motivation

- Maritime Society
- Socio Impact
- High-Tech

RTD Network

- MIF RDSP
- Masterplan
- Events
- Industry
- Contact
- Downloads

Project Navigator

- Thematic Networks
- European RTD
- MAREXPO RTD

Proposal Support

- Programmes
- State-of-the-Art
- European Policy
- Partner Search
- SME Database

Services

- Project Managmt
- Libraries
- Yellow Pages
- Market Intelligence
- Statistics
- Qualification
- Expert Network

PROJECT EVENTS

Subject/Description	Venue/Date	Related Documents	Add Document
---------------------	------------	-------------------	--------------

WONDERMAR Workshop 8th WONDERMAR workshop "Future Scenarios for ICT applications in shipbuilding design, production, purchasing and logistics"	Malmoe/Sweden, Old Boursthouse Begin: 2003-02-20 09:00 End: 2003-02-20 18:00		
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Contact:			
E-Mail: melchior@maritimecenter.dk			
Website: www.maritimecenter.dk			

ERAMAR General Assembly ERAMAR General Assembly, to be confirmed	Paris, Chambre Syndicale Begin: 2003-01-22 00:00 End: 2002-01-23 00:00		
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Contact: Patrick Person			
E-Mail: jeastham@wanadoo.fr			
Website: www.eramar.net			

ERAMAR General Assembly ERAMAR General Assembly, to be confirmed	Paris, Chambre Syndicale Begin: 2003-01-22 00:00 End: 2002-01-23 00:00	View	Edit	Delete
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Contact:			
E-Mail:			
Website:			

Project

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- Project Summary
- Objectives
- Work Programme
- European Dimension
- Partner List
- Public Downloads
- Contact

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- Project Events
- Project Message Board
- Project Members
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