



Horizon 2020, networking and material research



E-Läss Workshop
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FP7 – Sustainable Surface Transport strategic priorities

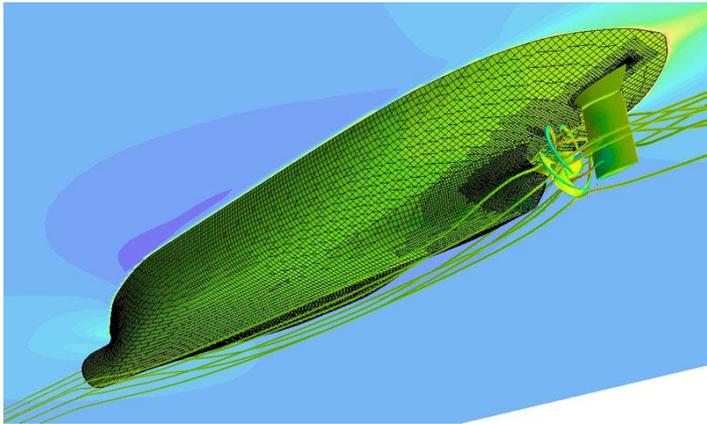


- Decarbonisation and efficient use of natural resources → **Eco-innovation**
- Optimize the global efficiency and safety of the European transport system (including infrastructure and network capacity, logistics, ITS, interconnections [TEN-T]) → **Safe and seamless mobility**



- Strengthening the competitiveness of European transport industry. → **Competitiveness and growth through innovation and excellence**

Waterborne transport – FP7 research areas



- More efficient ship design
- **New production technologies and processes, new materials**
- Propulsion/engine technologies
- Innovative fleet for an efficient logistics chain, esp. for short sea shipping
- Efficient ports and e-maritime
- New solutions for more efficient and cleaner inland navigation
- Safety and security of ships (anticipation and response)

Overview of SST calls in FP7 (RTD & MOVE)

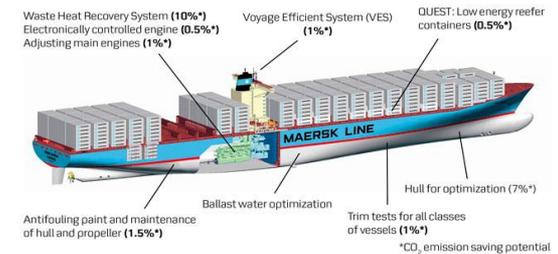
SST Workprogramme	Year of publication	Budget Mio €
2007	2006 (1 st call)	255.68
2008	2007 (2 nd call)	138
2010	2009 (3 rd call)	141.5
2011	2010 (4 th call)	129.25
2012	2011 (5 th call)	150
2013	2012 (6th call)	150

FP7 SST Work programme coverage by sector (calls 1 -5)

Sector	Projects		EC-Funding	
	Total	%	Total in Mio €	%
Road	103	40%	326	42%
Rail	44	17%	132	17%
Waterborne	60	24%	222	28%
Addressing several modes	48	19%	100	13%
Total	255		780	

FP7: 6th call

- Projects selected and signed: JOULES, SMARTYARDS, SHOPERA, SEAHORSE, **MESA (Maritime Europe Strategy Action - FOSTER Waterborne)**
- MESA is a co-ordination and support action, running 09/2013 – 08/2016, total budget is 2 MEUR
- 4 Thematic Technology Groups: Energy Efficiency, Safety, Production, E-Maritime, *plus* Foresight Support Group
- The Commission expects MESA to re-define and drive the RDI agenda, exploit H2020 in the optimal way, consolidate the European RDI community, and support specific networks where suitable.



FP7: Lessons learned

- European cooperation and research is mature though international cooperation could be improved
- FP7 projects usually deliver excellent research results, but the move to the market takes time
- Good collaboration between industry and policy makers in setting the directions for the research needed
- The target for SMEs involvement (15%) has been exceeded
- Large integrated initiatives needs to be completed by dedicated small scale focused research projects
- Continuation of project is key to achieve results and deployment of innovation
- The coordination between EU funded research and national agendas should be continued

Horizon 2020 is different

- A strong challenge-based approach, allowing applicants to have considerable freedom to come up with innovative solutions
- Simplified list of possible types of action (e.g. research and innovation @ 100%; innovation actions @ 70%, ...)
- Less prescription, strong emphasis on expected impact
- Broader topics
- Cross-cutting issues mainstreamed (e.g. social sciences, gender, international...)



Focus Areas

- Strategic programming identifies focus areas, each covered by a specific call, that:
 - brings together activities from different challenges and enabling technologies
 - provides support across the innovation chain from research, to development, to proof of concept, piloting, demonstration projects, and to setting standards and policy frameworks
 - makes use of the full spectrum of funding schemes and types of action e.g. research and innovation actions, innovation actions, ERANets, SME instrument...
 - integrates different perspectives, including from the social sciences and humanities, gender perspectives, and international strategy
- Transport Challenge: "Mobility for growth" focus area

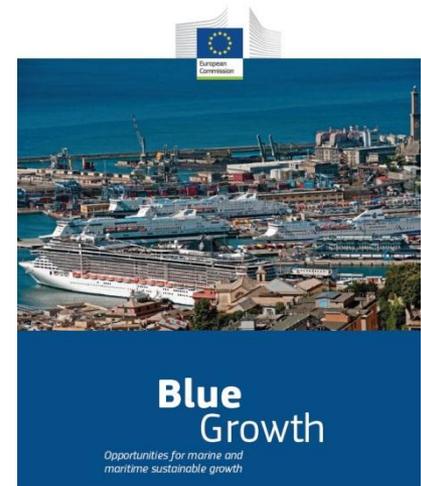
Horizon 2020 (2014-2020)

➤ Transport

- Resource efficient transport included as focus area
- Partly to be carried out by PPPs, waterborne PPP under discussion by industry
- **Multidisciplinary research will play a key role**
- Enhancing the innovation potential of projects, growth and jobs

➤ Ocean

- Unlocking the potential of the oceans ("Blue Growth") included as focus area
- Marine mineral resources, blue bio-tech, maritime tourism, ocean energy, new aquaculture identified as first (policy) priorities
- Need for marine knowledge generation and enabling technologies, esp. for new frontiers (Arctic, deep sea)



Work Programme topics

Structure reflects the challenge based approach – 3 key features

Specific Challenge

- sets the context, the problem to be addressed, why intervention is necessary

Scope

- delineates the problem, specifies the focus and the boundaries of the potential action BUT without overly describing specific approaches

Expected Impact

- describe the key elements of what is expected to be achieved in relation to the specific challenge



Horizon 2020: 2014-2015 work programme

- Advanced drafting stage, pre-consultation of Member States has started
- Principles: Broader challenges, less prescriptive RDI scope, focus on (measurable) impacts, stronger role for SMEs
- Four headline "topics" foreseen for waterborne transport:
 - *Towards the energy efficient and emission free vessel*
 - *Safer and more efficient waterborne operations through new technologies and smarter traffic management*
 - *System modelling and life-cycle cost optimisation for waterborne assets*
 - *Promoting innovation in the Inland Waterways Transport (IWT) sector*

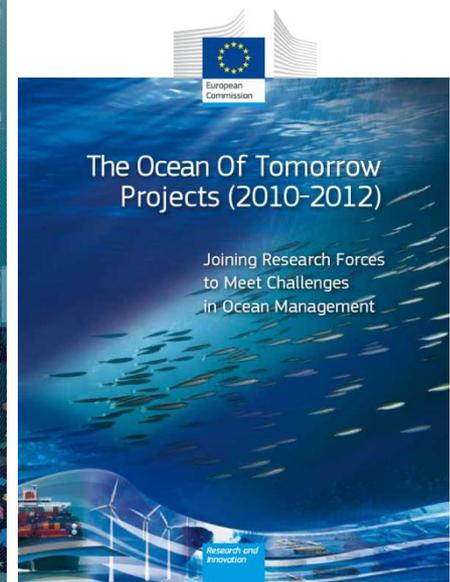
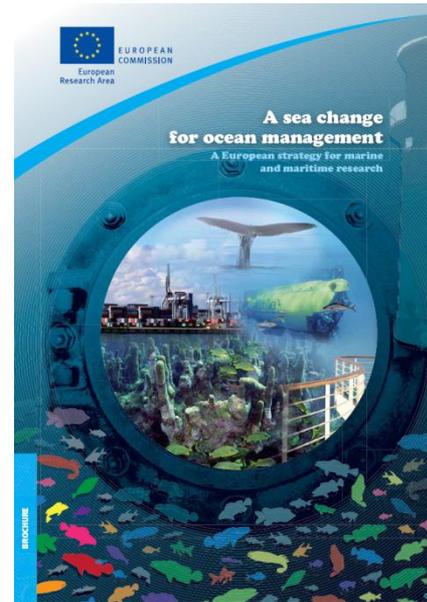
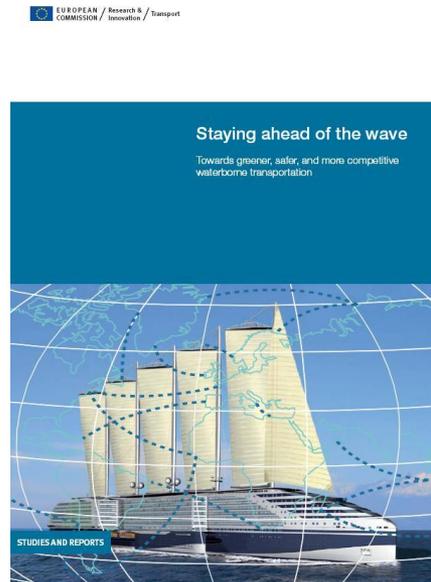
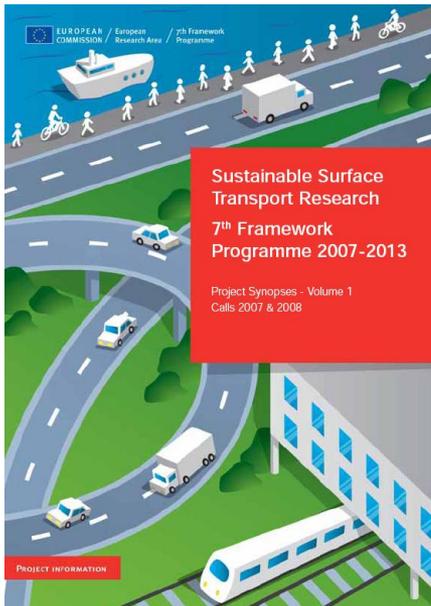
Postponed to 2016

- *Exploring new frontiers, technologies, materials and processes for maritime transport and the maritime technologies industry*

Indicative Timetable

- *June* → Request for **nominations** of MS representatives
- *end September – mid October* → **Interservice Consultation**
- *September – mid November* → **Consultation** of the MSs
- December 2013 → **Adoption** of H2020 legislative package
- 11 December → Announcement of **calls for proposals**
- January – February 2014 → **Confirmation** of Work Programmes
(after H2020 entry into force)

FP7 Project synopses and thematic brochures



http://ec.europa.eu/research/transport/publications/index_en.htm

THANK YOU FOR YOUR ATTENTION



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