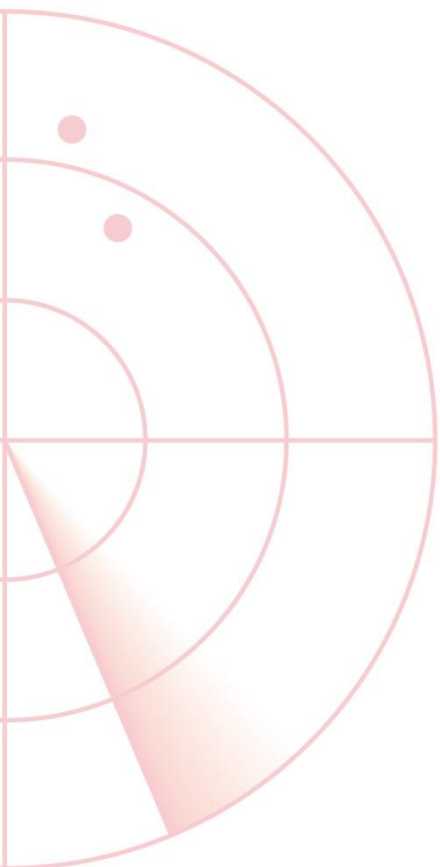




# Overview maritime topics H2020 calls 1-2

October 23<sup>rd</sup> 2013  
M. Goldan



## SOURCES:

- H2020 Part II: Industrial leadership
- H2020 Part III: Societal Challenges:

## Nieuw:

- Marine/Maritime-relevant topics spread over 7 themes
- Transport: fewer topics, larger projects & consortia
- Two-stage procedure
- New instruments:
  - R&I: 100 % funding (costs + 25 % overhead)
  - I: 70 % funding (costs + 25 % overhead)
  - SME instrument
  - Fast track to innovation Pilot (grant max. 5 partners/3m)
- ???????

## Cross reference FP7 – H2020

FP7 Last Call (6)	H2020 Call 2014/2015
<b>Theme 7 Surface Transport</b>	
Challenge 1: ECO innovation	Part III Challenge 4 Transport, Waterborne topics
Challenge 2: Safe and seamless mobility	Part III Challenge 4 Transport, Logistics
Challenge 3: Competitiveness through innovation	Part III Challenge 4 Transport, Waterborne topics For Production: Call FoF (ICT, Nano technologies)
Cross cutting activities	
The ocean of tomorrow	Blue Growth (2&4), Call compet. low -carbon energy
Horizontal activities	Challenge 4 Socio-economic & behavioural research
<b>Other themes</b>	
Theme 3: ICT	Part II Industrial Leadership: ICT
Theme 4 : NMP-Nanotechnology etc.	Part II Industrial Leadership: Nanotechnologies and Advanced materials Part III Challenge 5: Climate action, resource efficiency, raw materials
Theme 5: Energy	Part III Challenge 3 : Secure, clean & efficient energy
Theme 6: Environment – Oceans of tomorrow	Part III Challenge 2: New offshore challenges
Theme 10: Security	Part III Challenge 7 Secure societies
Capacities: Research for SME's and SME - Associations	SME-topics

## Part II: Industrial leadership

Aims to strengthen industrial leadership and competitiveness by pursuing the following specific objectives:

- Boosting Europe's industrial leadership through research, technological development, demonstration and innovation in the following enabling and industrial technologies:  
***ITC, Nanotechnologies, Advanced materials, Biotechnology, Advanced manufacturing and processing, Space***
- Enhancing access to risk finance for investing in research and innovation
- **Increasing innovation in small and medium-sized enterprises**



ICT is structured around 6 challenges and a number of different other themes:

- A new generation of components and systems
- Advanced computing
- Future internet
- **Content technologies and information management**
- **Robotics**
- Micro- and nano-electronic technologies, Photonics
- ICT Cross-cutting and Horizontal activities
- International cooperation
- **Factories of the Future (PPP FoF) Call**
- EU-Brazil Research and Development Cooperation in Advanced Cyber Infrastructures
- EU-Japan Research and Development Cooperation in New Futures

## ICT

### *Content technologies and information management*

Instrument

<b>ICT 20-2015</b>	Technologies for better human learning and teaching	R&I 100 % I 70 %
<b>ICT 21-2014</b>	Advanced digital gaming / gamification technologies	R&I 100 % I 70 %

### *Robotics*

<b>ICT 23-2014</b>	Robotics	R&I 70/100 %, PCP 70 %
<b>ICT 24-2015</b>	Robotics	R&I 70/100 %, PCP 70 %

### *Factories of the Future FoF*

<b>FoF1-2014</b>	Process optimisation of manufacturing assets	R&I 100 % CSA 100%
<b>FoF2-2015</b>	ICT-enabled modelling, simulation, analytics and forecasting technologies	R&I 100 % CSA 100%
<b>FoF3-2015</b>	ICT Innovation for Manufacturing SME's	I 70 % CSA 100%

Nanotechnology and advanced materials call contains several elements:

➤ A number of challenges:

**Bridging the gap between nanotechnology research and markets**

Nanotechnology and Advanced Materials as enablers of applications in Health

Nanotechnology and Advanced Materials for low carbon energy technologies and Energy Efficiency

Exploring the cross-sector potential of Nanotechnologies and Advanced materials to drive competitiveness and sustainability

Safety and nanotechnology-based applications and support for the development of regulation

Addressing generic needs in support of governance, standards, models and structuring in nanotechnology, advanced materials and production

➤ Contributions to solving societal challenges and focus areas

**FoF: Factories of the Future**

**Fast track to innovation Pilot**

## Call for nanotechnologies, Advanced Materials and KET support

### *Bridging the gap between nanotechnology research and markets*

		Instrument
<b>NMK 1 - 2014</b>	Open access pilot for cost effective nano composites	R&I 100 %
<b>NMK 2 - 2015</b>	Integration of novel nano-materials into existing production and assembly lines	I 70 %
<b>FoF – Factories of the Future</b>		
<b>FoF 2 - 2014</b>	Manufacturing process for complex structures and geometries with efficient use of materials	R&I 100%
<b>FoF 3 - 2014</b>	Global energy and other resources efficiency in manufacturing enterprises	I 70%
<b>FoF 4 - 2014</b>	Developing smart factories that are attractive to workers	Demo CP 70% TRL6-7
<b>FoF 5 - 2014</b>	Innovative product-service design using manufacturing intelligence	R&I 100%
<b>FoF 6 - 2014</b>	Symbiotic human-robot collaborations for safe and dynamic multimodal manufacturing systems	I 70%
<b>FoF 7 - 2014</b>	Support for enhancement of the impact of FoF PPP projects	I 70%
<b>FoF 12 - 2015</b>	Industrial technologies for advanced joining and assembly processes of multi-material	I 70%



## Part III: Societal Challenges

- ❑ Challenge 1: Health and Wellbeing
- ❑ Challenge 2: Bio-economy, food security, Sustainable agriculture and forestry, Marine and maritime research and the Bio-economy
- ❑ Challenge 3: Secure, clean and efficient energy
- ❑ Challenge 4: Smart, green and integrated transport
- ❑ Challenge 5: Climate action, resource efficiency and raw materials
- ❑ Challenge 6: Understanding Europe
- ❑ Challenge 7: Secure societies – protecting freedom and security of Europe and its citizens

## Challenge 2:

Bio-economy, food security, Sustainable agriculture and forestry, Marine and Maritime research and the Bio-economy:

### ➤ Focus area: Blue growth

- Sub-focus: Sustainably exploiting the diversity of marine life
- Sub-focus: New offshore challenges
- Sub-focus: Ocean observation technologies/systems

**Horizontal aspects, socio-economic sciences, innovation, engagement with society and ocean governance across the blue growth area**



## Blue Growth topics with maritime relevance I

<i>Sustainably exploiting the diversity of marine life</i>		Instrument
<b>BG 1 - 2015</b>	Improving the preservation and sustainable exploitation of Atlantic marine ecosystems. (topic from other services - RTD.I)	R&I 100 %
<b>BG 2 - 2015</b>	Forecasting and anticipating effects of climate change on fisheries and aquaculture	R&I 100 %
<b>BG 3 - 2015</b>	Novel marine derived biomolecules and industrial biomaterials	R&I 100 %
<b>BG 4 - 2015</b>	Enhancing the industrial exploitation potential of Marine-derived enzymes	I 70 %



## Blue Growth topics with maritime relevance II

<i><b>New offshore challenges</b></i>		<b>Instrument</b>
<b>BG 5 - 2014</b>	Preparing for the future offshore economy	CSA
<b>BG 6 - 2014</b>	Delivering the sub-sea technologies for new services at sea	R&I 100 %
<b>BG 7 - 2015</b>	Response capacities to oil spills and marine pollutions	R&I 100 %
<i><b>Ocean observation technologies/systems</b></i>		
<b>BG 8 - 2014</b>	Developing in-situ Atlantic Ocean Observations for a better management and exploitation of the maritime resources	R&I 100 %
<b>BG 9 - 2014</b>	Acoustic and imaging technologies	R&I 100 %
<b>BG 10 - 2014</b>	Consolidating the economic sustainability and competitiveness of European fisheries and aquaculture sectors to reap the potential of seafood markets	R&I 100 %

<i>Horizontal aspects, socio-economic sciences, innovation, engagement with society and ocean governance across the blue growth focus area</i>		<b>Instrument</b>
<b>BG 11 - 2014</b>	Monitoring and dissemination activities	CSA
<b>BG 12 – 2014/2015</b>	Supporting SMEs efforts for the development - deployment and market replication of innovative solutions for blue growth	SME-instrument
<b>BG 13 - 2014</b>	Ocean literacy – Engaging with society – Social Innovation	CSA
<b>BG 14 - 2014</b>	Supporting flagship international cooperation initiatives: Atlantic Ocean Cooperation Research Activities	CSA
<b>BG 15 - 2015</b>	European polar research cooperation	CSA

## Challenge 3: Secure, clean and efficient energy

➤ Focus area: Competitive low-carbon energy

### A – Renewable electricity and heating/cooling

<b>LCE2 – 2014/2015</b>	Developing the next generation technologies of renewable electricity and heating/cooling <i>(wind and ocean energy, fixed &amp; floating sub-structures)</i>	R&I 100 %
<b>LCE3 – 2014/2015</b>	Demonstration of renewable electricity and heating/cooling technologies <i>(wind and ocean energy, fixed &amp; floating sub-structures)</i>	

## **Challenge 4: Smart, clean and integrated transport** *Call “Mobility for Growth”*

### ***Programme is structured in four broad lines of activities:***

- Resource efficient transport that respects the environment
- Better mobility and accessibility, less congestion, more safety and security
- Global leadership for the European transport industry
- Socio-economic and behavioural research and forward looking activities for policy making

### ***Call “Mobility for Growth” organised in three distinct areas:***

- Areas addressing mode-specific challenges: **Aviation, Rail, Road, Waterborne**
- Areas addressing transport integration specific challenges: **Urban, Logistics, Intelligent transport systems, Infrastructures**
- Areas addressing cross-cutting issues: **Socio-economic and behavioural research, and forward looking activities for policy making, Small business innovation research**

## ***WATERBORNE Topics***

## **Instrument**

<b>MG. 4.1 - 2014</b>	Towards the energy efficient and emission free vessel ( <i>funding levels 8 – 17 million €</i> )	I 70 % two stage
<b>MG. 4.2 - 2014</b>	Safer and more efficient waterborne operations through new technologies and smart traffic control ( <i>funding levels 4 – 9 million €</i> )	I 70% two stage
<b>MG.4.3 - 2015</b>	System modelling and life-cycle cost optimisation for waterborne assets ( <i>funding levels 5 – 8 million €</i> )	R&I 100% two stage
<b>MG.4.4 - 2014</b>	Advancing innovation in the Inland Waterways Transport (IWT) sector ( <i>funding levels 3 – 6 million €</i> )	R&I 100 % two stage

## ***Logistics***

<b>MG. 6.2 - 2014</b>	De-stressing the supply chain ( <i>funding levels 6 – 8 million €</i> )	R&I 100 % two stage
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## ***Socio-economic and behavioural research and forward looking activities for policy making***

<b>MG. 9.3 - 2014</b>	Strengthening the research and innovation strategies of the transport industries in Europe	CSA single stage
<b>MG.9.4 - 2014</b>	Innovation awards for students and researchers in the context of TRA 2016	CSA Single stage

## ***Call Small business and Fast track innovation for transport***

<b>IT.1 - 2014/2015</b>	Small business innovation research for Transport	SME instrument
<b>IT.2 - 2015</b>	Fast Track to Innovation	



## Transport call Publication date: 11 December 2013

Topics	Dates		Budgets (millions €)	
			2014	2015
<b>MG.9.4</b>	Single stage		3,00	
<b>MG.9.5</b>			0,50	
<b>MG9.3</b>	Single stage			2,00
<b>MG.4.1, MG.4.2, MG.4.4</b>	First stage	Second stage	56,00	
<b>MG.6.2</b>	First stage	Second stage	32,00 (Incl. MG.6.1)	



## Challenge 5: Climate action, resource efficiency and raw materials

Part III		Instrument
SC5 - 10 2014/2015	New solutions for sustainable production of raw materials	R&I 100 % single stage

## Challenge 7: Secure societies – Protecting freedom and security of Europe and its citizens

<i>Maritime border security</i>		Instrument
BES 1 - 2014	Radar systems for the surveillance of coastal and pre-frontier areas and in support of search and rescue operations	I 70 %
BES 2 - 2015	Low cost and “green” technologies for EU coastal border surveillance	R&I 100 %
BES 3 - 2014	Light optionally piloted vehicles for maritime surveillance	I 70 %
BES 4 - 2015	Detection of low flying aircraft at near shore air space	R&I 100 %



## FOR MORE INFORMATION:

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A decorative graphic on the left side of the slide, consisting of a red circular radar-like pattern with concentric circles and a vertical line. Two small red dots are positioned in the upper left quadrant, and a red wedge-shaped area is visible at the bottom left.

# Thank you for your patience