



MarTERA Priority Areas

Maritime and Marine Technologies for a new Era

16.01.2017

Part 1

Priority Area (PA)	Country & Agencies							
	AR	BY	BE	DE	ES	FR		IE
	MINCyT 1,4,5	NASB 4,5	VLAIO 1,2,3	BMWi 1,2,3,4, 5,6	CDTI 1,2,3	ANR 1,2,3,4,5	MEEM 1,2,3,4,5	MI 1,2,3,4,5,6
1. Environmental friendly maritime technologies								
• Emissions reduction	-	FID	ID	ID	ID	-	ID	-
• Energy efficiency	-	FID	ID	ID	ID	-	ID	-
• Noise and vibration reduction	-	FID	ID	ID	ID	-	ID	-
• Innovative propulsion systems	-	FID	ID	ID	ID	-	ID	-
• Technologies for sensitive regions	-	-	-	ID	ID	-	ID	-
• Life Cycle management	-	-	-	ID	-	-	ID	-
2. Novel materials development and structures								
• Novel materials	-	FID	ID	ID	ID	-	-	FID
• Biofouling and corrosion prevention	FD	FID	ID	ID	ID	-	-	FID
• Structures	FD	-	ID	ID	ID	-	ID	FID
3. Sensors, automation, monitoring and observations								
• Sensor developments	FD	FID	ID	ID	ID	FI	-	FID
• Monitoring	FD	FID	ID	ID	ID	FI	-	FID
• Improved models for marine vehicles and structures behaviour	FD	-	ID	ID	ID	FI	-	FID
• Deep Sea Mining	FD	-	ID	ID	ID	-	-	-
4. Advanced Manufacturing/Production								
• Top quality, globally competitive and environmentally friendly products	-	-	ID	ID	ID	-	-	-
• Optimisation of production: improved and novel production technologies for flexible manufacturing, with focus on organization and networking along the value chain	-	-	-	ID	ID	-	-	-
• Automation of production	-	-	-	ID	ID	-	-	-

Priority Area (PA)	Country & Agencies							
	AR	BY	BE	DE	ES	FR		IE
	MINCyT 1,4,5	NASB 4,5	IWT 1,2,3	BMWi 1,2,3,4, 5,6	CDTI 1,2,3	ANR 1,2,3,4,5	MEEM 1,2,3,4,5	MI 1,2,3,4,5,6
• New concepts of the recycling-oriented construction, to final disposal vessels/platforms	-	-	-	ID	ID	-	-	-
• Intelligent/innovative interacting components	-	-	ID	ID	ID	-	-	-
• Human computer interaction and Augmented Reality	-	-	ID	ID	ID	-	-	FID
5. Safety and Security								
• Individual safety concepts harmonized with navigational requirements	-	FID	-	ID	ID	-	ID	-
• Intelligent predictive maintenance systems	FD	-	ID	ID	ID	-	ID	FID
• ICT tools for monitoring and optimization of maritime operations (e.g. routing following best weather conditions)	FD	FID	-	ID	ID	-	ID	FID
• Hinterland connection to inland waterways	-	-	ID	ID	ID	-	ID	-
• Early warning and accident management systems	-	-	-	ID	ID	-	ID	-
• Evacuation and rescue concepts	-	-	-	ID	ID	-	ID	-
• Decision support systems	-	FID	ID	ID	ID	-	ID	FID
• Improve operations such as dynamic positioning systems, docking and mooring systems, automation of processes, optimized routing, handling of goods, subsea intervention	-	-	-	ID	ID	-	ID	FID
Budget (mil euro)	0.5	1.0	2.0	6.0	0.8	1.0	0.5	1.0

Clarifications:

The numbers below a funding agency indicate the types of organisations that are eligible for funding via the funding agency:

- | | | |
|------------------------|-----------------|----------------------------|
| 1. Start-ups | 2. SME | 3. Large scale enterprises |
| 4. Research institutes | 5. Universities | 6. Other |

The initials “FID” are used to indicate the general subjects of an agency’s programme:

- | | | |
|-------------------------|------------------------|---------------------------|
| F: Fundamental research | I: Industrial research | D: Demonstration projects |
|-------------------------|------------------------|---------------------------|

Part 2

Priority Area (PA)	Country								
	IT	MT	NL	NO	PT	PL	RO	TR	ZA
	MIUR 1,2,3,4,5	MCST 1,2,3,4,5, 6	NWO 4,5	RCN 1,2,3,4,5	FCT 1,2,3,4,5	NCBR 1,2,3,4,5,6	UEFISCDI 1,2,3,4,5,6	TÜBITAK 2,3	DST 1,2,3,4,5,6
1. Environmental friendly maritime technologies									
• Emissions reduction	FID	FID	FI	FID	-	ID	ID	I	FID
• Energy efficiency	FID	FID	FI	FID	-	ID	ID	I	FID
• Noise and vibration reduction	FID	FID	FI	FID	-	ID	ID	I	FID
• Innovative propulsion systems	FID	FID	FI	FID	-	ID	ID	I	FID
• Technologies for sensitive regions	-	FID	FI	FID	-	ID	ID	I	FID
• Life Cycle management	-	FID	FI	FID	-	ID	ID	I	FID
2. Novel materials development and structures									
• Novel materials	FID	FID	FI	FID	-	ID	ID	I	FID
• Biofouling and corrosion prevention	FID	FID	FI	FID	-	ID	ID	I	FID
• Structures	FID	FID	FI	FID	-	ID	ID	I	FID
3. Sensors, automation, monitoring and observations									
• Sensor developments	FID	FID	FI	FID	FID	ID	ID	I	FID
• Monitoring	FID	FID	FI	FID	FID	ID	ID	I	FID
• Improved models for marine vehicles and structures behaviour	-	FID	FI	FID	FID	ID	ID	I	FID
• Deep Sea Mining	FID	FID	FI	FID	FID	ID	ID	I	FID
4. Advanced Manufacturing/Production									
• Top quality, globally competitive and environmentally friendly products	FID	FID	-	FID	-	ID	ID	I	FID
• Optimisation of production: improved and novel production technologies for flexible manufacturing, with focus on organization and networking along the value chain	FID	FID	-	FID	-	ID	ID	I	FID
• Automation of production	-	FID	-	FID	-	ID	ID	I	FID

Priority Area (PA)	Country								
	IT	MT	NL	NO	PT	PL	RO	TR	ZA
	MIUR 1,2,3,4,5	MCST 1,2,3,4,5, 6	NWO 4,5	RCN 1,2,3,4,5	FCT 1,2,3,4,5	NCBR 1,2,3,4,5,6	UEFISCDI 1,2,3,4,5,6	TÜBITAK 2,3	DST 1,2,3,4,5,6
<ul style="list-style-type: none"> New concepts of the recycling-oriented construction, to final disposal vessels/platforms 	-	-	-	FID	-	ID	ID	I	FID
<ul style="list-style-type: none"> Intelligent/innovative interacting components 	FID	-	-	FID	-	ID	ID	I	FID
<ul style="list-style-type: none"> Human computer interaction and Augmented Reality 	-	-	-	FID	-	ID	ID	I	FID
5. Safety and Security									
<ul style="list-style-type: none"> Individual safety concepts harmonized with navigational requirements 	-	FID	FI	FID	FID	ID	ID	I	FID
<ul style="list-style-type: none"> Intelligent predictive maintenance systems 	FID	FID	FI	FID	FID	ID	ID	I	FID
<ul style="list-style-type: none"> ICT tools for monitoring and optimization of maritime operations (e.g. routing following best weather conditions) 	FID	FID	FI	FID	FID	ID	ID	I	FID
<ul style="list-style-type: none"> Hinterland connection to inland waterways 	-	-	FI	-	FID	ID	ID	I	FID
<ul style="list-style-type: none"> Early warning and accident management systems 	FID	FID	FI	FID	FID	ID	ID	I	FID
<ul style="list-style-type: none"> Evacuation and rescue concepts 	-	FID	FI	FID	FID	ID	ID	I	FID
<ul style="list-style-type: none"> Decision support systems 	-	FID	FI	FID	FID	ID	ID	I	FID
<ul style="list-style-type: none"> Improve operations such as dynamic positioning systems, docking and mooring systems, automation of processes, optimized routing, handling of goods, subsea intervention 	-	FID	FI	FID	FID	ID	ID	I	FID
Budget (mil euro)	0.6	0.05	1.0	4.0	0.3	0.5	0.5	2.0	0.5

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