MarTERA

ERA-NET COFUND

Call 2019

MarTERA Priority Areas

Maritime and Marine Technologies for a new Era

30.11.2018

Part 1

Priority Area (PA)	Country & Agencies						
	BY	BE	DE	ES	FR		IE
	NASB 2,3	VLAIO 1,2,3	BMWi 1,2,3,4, 5,6	CDTI 1,2,3	ANR 3	MTES 1,2,3,4,5	MI 1,2,3,5
1. Environmental friendly maritime technologies							
• Emissions reduction	-	ID	ID	ID	-	ID	FID
• Energy efficiency	-	ID	ID	ID	-	ID	FID
• Noise and vibration reduction	-	ID	ID	ID	-	ID	FID
• Innovative propulsion systems	-	ID	ID	ID	-	ID	FID
• Technologies for sensitive regions	-	ID	ID	ID	-	ID	FID
• Life Cycle management	-	ID	ID	-	-	ID	-
2. Novel materials development and structures							
• Novel materials	FID	ID	ID	ID	-	-	FID
• Biofouling and corrosion prevention	FID	ID	ID	ID	-	-	FID
• Structures	-	ID	ID	ID	-	ID	FID
3. Sensors, automation, monitoring and observations							
• Sensor developments	FID	ID	ID	ID	FI	-	FID
• Monitoring and automation	-	ID	ID	ID	FI	-	FID
• Improved models for marine vehicles and structures behaviour	-	ID	ID	ID	FI	-	FID
• Deep Sea Mining	-	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	ID	-	-	-
• Automation of production	-	ID	ID	ID	-	-	-

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	BY	**BE**	**DE**	**ES**	**FR**		**IE**
	NASB 2,3	VLAIO 1,2,3	BMWi 1,2,3,4, 5,6	CDTI 1,2,3	ANR 3	MTES 1,2,3,4, 5	MI 1,2,3,5
• New concepts of the recycling-oriented construction, to final disposal vessels/platforms	-	ID	ID	ID	-	-	-
• Intelligent/innovative interacting components	-	ID	ID	ID	-	-	-
• Human computer interaction and Augmented Reality	-	ID	ID	ID	-	-	-
5. Safety and Security							
• Individual safety concepts harmonized with navigational requirements	-	-	ID	ID	-	ID	-
• Intelligent predictive maintenance systems	-	ID	ID	ID	-	ID	FID
• ICT tools for monitoring and optimization of maritime operations (e.g. routing following best weather conditions)	-	ID	ID	ID	-	ID	FID
• Hinterland connection through inland waterways	-	ID	ID	ID	-	ID	-
• Early warning and accident management systems	-	ID	ID	ID	-	ID	-
• Evacuation and rescue concepts	-	ID	ID	ID	-	ID	-
• Decision support systems	-	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	-	ID	FID
Budget (mil euro)	0.07	2.0	6.0	*	1.0	*	0.3

* will be confirmed on the 7ᵗʰ December 2018

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 supported types of R&D of an agency's programme:
- **F**: Fundamental research
- **I**: Industrial research
- **D**: Experimental development

For further information and additional descriptions of the supported types of R&D for a specific funding agency, please read carefully the respective National Guidelines.

Part 2

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

Priority Area (PA)	Country				
	MT	**NO**	**PL**	**RO**	**TR**
	MCST 1,2,3,4,5,6	RCN 1,2,3,4,5	NCBR 1,2,3,4,5,6	UEFISCDI 1,2,3,4,5,6	TÜBITAK 2,3
• New concepts of the recycling-oriented construction, to final disposal vessels/platforms	FID	FID	ID	ID	I
• Intelligent/innovative interacting components	FID	FID	ID	ID	I
• Human computer interaction and Augmented Reality	FID	FID	ID	ID	I
5. Safety and Security					
• Individual safety concepts harmonized with navigational requirements	FID	FID	ID	ID	I
• Intelligent predictive maintenance systems	FID	FID	ID	ID	I
• ICT tools for monitoring and optimization of maritime operations (e.g. routing following best weather conditions)	FID	FID	ID	ID	I
• Hinterland connection through inland waterways	-	-	ID	ID	I
• Early warning and accident management systems	FID	FID	ID	ID	I
• Evacuation and rescue concepts	FID	FID	ID	ID	I
• Decision support systems	FID	FID	ID	ID	I
• Improve operations such as dynamic positioning systems, docking and mooring systems, automation of processes, optimized routing, handling of goods, subsea intervention	FID	FID	ID	ID	I
Budget (million euro)	**0.1**	**2.0**	**0.6**	**0.5**	**2.0**

Clarifications:

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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**: Experimental development

For further information and additional descriptions of the supported types of R&D for a specific funding agency, please read carefully the respective National Guidelines.