



Call 2019

MarTERA Priority Areas

Maritime and Marine Technologies for a new Era

05.02.2019

Part 1

Priority Area (PA)	Country & Agency						
	BY	BE	DE	ES	FR	IE	LV
	NASB 2,3	VLAIO 1,2,3	BMWi 1,2,3,4,5,6	CDTI 1,2,3	ANR 1,2,3,4,5,6	MI 1,2,3,5	IZM 4,5
1. Environmental friendly maritime technologies							
• Emissions reduction	-	ID	ID	ID	-	FID	-
• Energy efficiency	-	ID	ID	ID	-	FID	-
• Noise and vibration reduction	-	ID	ID	ID	-	FID	-
• Innovative propulsion systems	-	ID	ID	ID	-	FID	-
• Technologies for sensitive regions	-	ID	ID	ID	-	FID	-
• Life Cycle management	-	ID	ID	-	-	-	-
2. Novel materials development and structures							
• Novel materials	FID	ID	ID	ID	-	FID	FID
• Biofouling and corrosion prevention	FID	ID	ID	ID	-	FID	FID
• Structures	-	ID	ID	ID	-	FID	FID
3. Sensors, automation, monitoring and observations							
• Sensor developments	FID	ID	ID	ID	FI	FID	FID
• Monitoring and automation	-	ID	ID	ID	FI	FID	FID
• Improved models for marine vehicles and structures behaviour	-	ID	ID	ID	FI	FID	FID
• Deep Sea Mining	-	ID	ID	ID	-	-	FID
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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	NASB 2,3	VLAIO 1,2,3	BMWi 1,2,3,4,5,6	CDTI 1,2,3	ANR 1,2,3,4,5,6	MI 1,2,3,5	IZM 4,5
• 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	-	-	-
• Intelligent predictive maintenance systems	-	ID	ID	ID	-	FID	-
• ICT tools for monitoring and optimization of maritime operations (e.g. routing following best weather conditions)	-	ID	ID	ID	-	FID	-
• Hinterland connection through inland waterways	-	ID	ID	ID	-	-	-
• Early warning and accident management systems	-	ID	ID	ID	-	-	-
• Evacuation and rescue concepts	-	ID	ID	ID	-	-	-
• Decision support systems	-	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)	0.07	2.0	6.0	0.5	1.0	0.3	0.3

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 & Agency					
	MT	NO	PL	RO	TR	ZA
	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	TÜBİTAK 2,3	DST 1,2,3,4,5
1. Environmental friendly maritime technologies						
• Emissions reduction	FID	FID	ID	ID	I	FD
• Energy efficiency	FID	FID	ID	ID	I	FID
• Noise and vibration reduction	FID	FID	ID	ID	I	FD
• Innovative propulsion systems	FID	-	ID	ID	I	D
• Technologies for sensitive regions	FID	FID	ID	ID	I	FD
• Life Cycle management	FID	FID	ID	ID	I	F
2. Novel materials development and structures						
• Novel materials	FID	FID	ID	ID	I	FD
• Biofouling and corrosion prevention	FID	FID	ID	ID	I	FID
• Structures	FID	FID	ID	ID	I	F
3. Sensors, automation, monitoring and observations						
• Sensor developments	FID	FID	ID	ID	I	FID
• Monitoring and automation	FID	FID	ID	ID	I	FID
• Improved models for marine vehicles and structures behaviour	FID	FID	ID	ID	I	FID
• Deep Sea Mining	-	-	ID	ID	I	F
4. Advanced Manufacturing/Production						
• Top quality, globally competitive and environmentally friendly products	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	ID	ID	I	FID
• Automation of production	FID	FID	ID	ID	I	FID

	MT	NO	PL	RO	TR	ZA
	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	DST 1,2,3,4,5
• New concepts of the recycling-oriented construction, to final disposal vessels/platforms	FID	FID	ID	ID	I	FID
• Intelligent/innovative interacting components	FID	FID	ID	ID	I	FID
• Human computer interaction and Augmented Reality	FID	FID	ID	ID	I	FD
5. Safety and Security						
• Individual safety concepts harmonized with navigational requirements	FID	FID	ID	ID	I	FD
• Intelligent predictive maintenance systems	FID	FID	ID	ID	I	F
• ICT tools for monitoring and optimization of maritime operations (e.g. routing following best weather conditions)	FID	FID	ID	ID	I	FD
• Hinterland connection through inland waterways	-	-	ID	ID	I	FD
• Early warning and accident management systems	FID	FID	ID	ID	I	FD
• Evacuation and rescue concepts	FID	FID	ID	ID	I	FD
• Decision support systems	FID	FID	ID	ID	I	FID
• 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	FID
Budget (million euro)	0.1	2.0	0.6	0.5	2.0	0.4

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.