



ENMC

European Network
of Maritime Clusters

Baltic Sea & Space Cluster ACTIVITY

POLISH MARITIME INDUSTRY

BSSC HUB of the Maritime Industry 4.0

BSSC HUB of INTERNATIONAL PROJECTS

Marek Grzybowski

873026 (GALATEA)	IA
Call: H2020-INNOSUP-2018-2020	
Topic: INNOSUP-01-2018-2020	
Beneficiary 9: BSSC	
Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY	
PIC: 910357708	
Status: VALIDATED	
Legal Address: UL. POLSKA NR 13A LOK 1 , 81 339 ,	
GDYNIA Poland	

ZEVinnovation

Integrating Innovation, Competence, Knowledge and Technology, towards the Development of Electric Vehicles and Energy Conversion in Ships

 Grant Management	
873026 (GALATEA) IA	Beneficiary 9: BSSC Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY PIC: 910357708 Status: VALIDATED Legal Address: UL. POLSKA NR 13A LOK 1, 81 339, GDYNIA Poland
 HORIZON 2020 THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION Call: H2020-INNOSUP-2018-2020 Topic: INNOSUP-01-2018-2020	



BSSC HUBs

- BALTIC ZEV INNVATION HUB
- BALTIC ICT & AI HUB FOR SEA & SPACE INDUSTRY
 - BALTIC GREENTECH HUB
 - LAW & FINANCE HUB
- Baltic Center for Economic Mediation
 - BALTIC EDUCATION HUB
- BALTIC SEA AND SPACE R&D HUB
 - BALTIC INVESTMENT ZONE
 - MARINE JOURNALIST CLUB
- BALTIC MARITIME CLUSTERS OBSERVATORY
 - BALTIC SEA REGION OBSERVATORY
- BSSC Teams



INTERNATIONAL ACTIVITY - PROJECTS

Increasing innovation capacity

Grand

Grand
Potential

BSSC PROJECTs HUB:

IP3-4 BLUE GROWTH Project [2023- 2025] - I3 INSTRUMENT DG REGIO

BLUEDOTS w ramach SMP-COSME-2023-SEED - build the capacities of Social Economy SMEs acting in the Blue Economy to apply digital-social innovation

Every1 project set the goal to deliver an impactful concept that includes all elements needed to enable an effective participation of all European stakeholders in the digital energy market.

GALATEA [HORIZON 2020, INNOSUP-1]

ZEVinnovation Project 2018-1-1185 [NORWEGIAN FUND]

ECOPRODIGI

ELMAR

InterMarE

E-LASS

UMBRELLA

SB BRIDGE

TENTacle

SMART BLUE REGIONS

Space Academy

OPEN INNOVATION NETWORK

Pomeranian Smart Specialization (Seaports & Offshore)

Pomeranian Smart Specialization (ICT Technologies)



Strengthening the research base

© BSR STARS (MINNOVA)

2010

Marek Grzybowski

2014

2020

MARITIME INDUSTRY 4.0



SHIPYARD 4.0



SHIPPING 4.0



PORT 4.0



GREEN
TECHNOLOGY
MARITIME
SURVEILLANCE





- **The cluster thinks globally and acts globally**

BALTIC SEA & SPACE CLUSTER is an important Maritime and Space Cluster in Central and Eastern Europe, an active maritime cluster player in the Baltic Sea Region and the EU,

- **BALTIC SEA & SPACE CLUSTER** is a member of the United Nation Global Compact and The European Cluster Collaboration Platform.
- **BALTIC SEA & SPACE CLUSTER** focuses on transferring knowledge and organizing business, science and administration cooperation in a global and regional scale.

Grant Management

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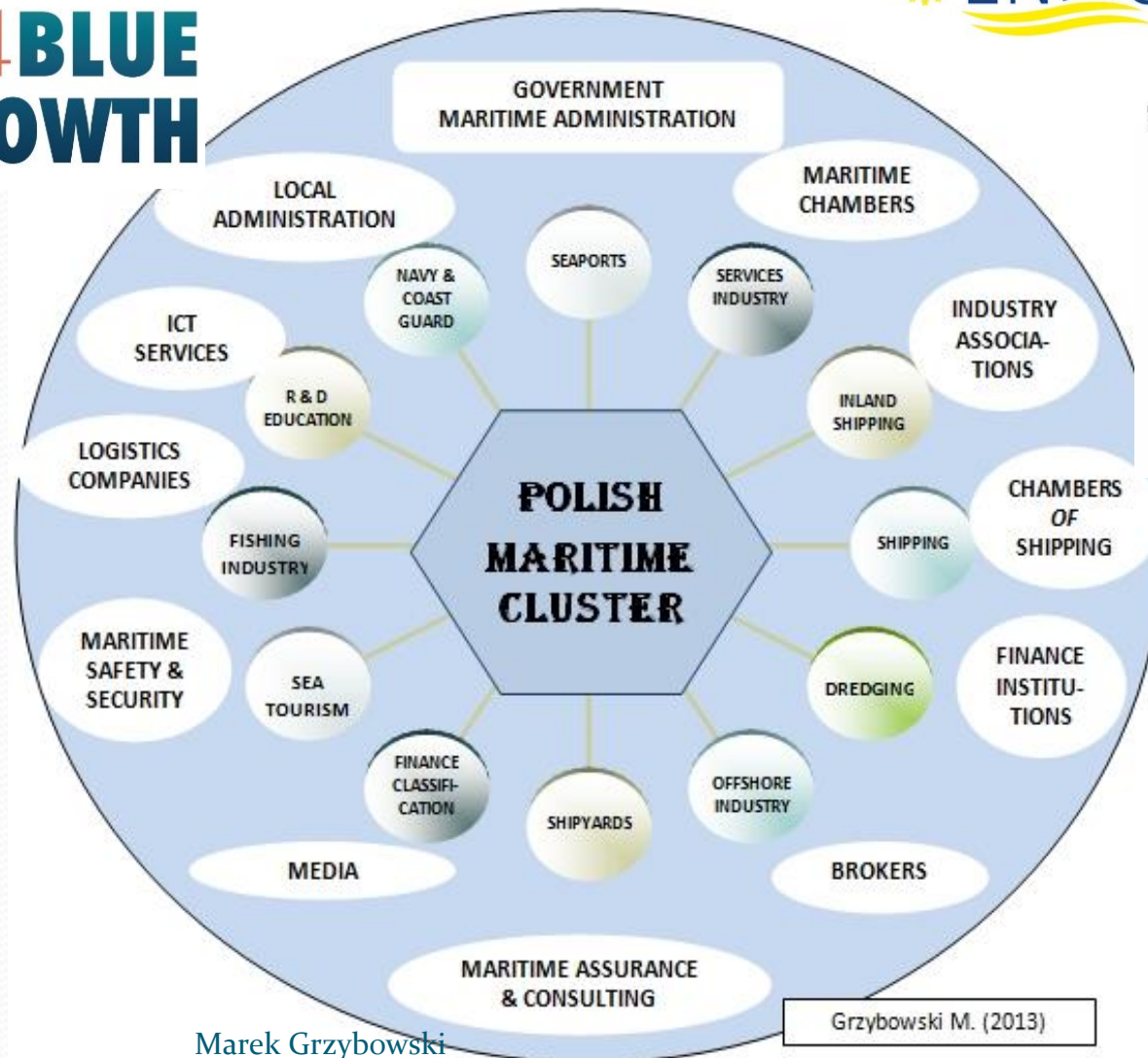
Legal Address: UL. POLSKA NR 13A LOK 1, 81 339, Gdynia Poland

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

Call: H2020-INNOSUP-2018-2020

Topic: INNOSUP-01-2018-2020



Erasmus+
Lithuania
Norway grants



ZEVinnovation
Strengthening Transnational Cooperation, Knowledge and Technology Transfer in
Development of Electric Vessels and Fostering Innovations in SMEs



Marek Grzybowski

Grzybowski M. (2013)



POLISH SHIPYARDS POTENTIAL MADE IN POLAND



SHIP PRODUCTION

- 30 per year
- 100% export



SHIP CONVERSIONS

- 90 per year
- 95% export



YACHTS & BOATS

- 22 000 per year
- 95% export





Grant Management

873026 (GALATEA) IA

HORIZON 2020

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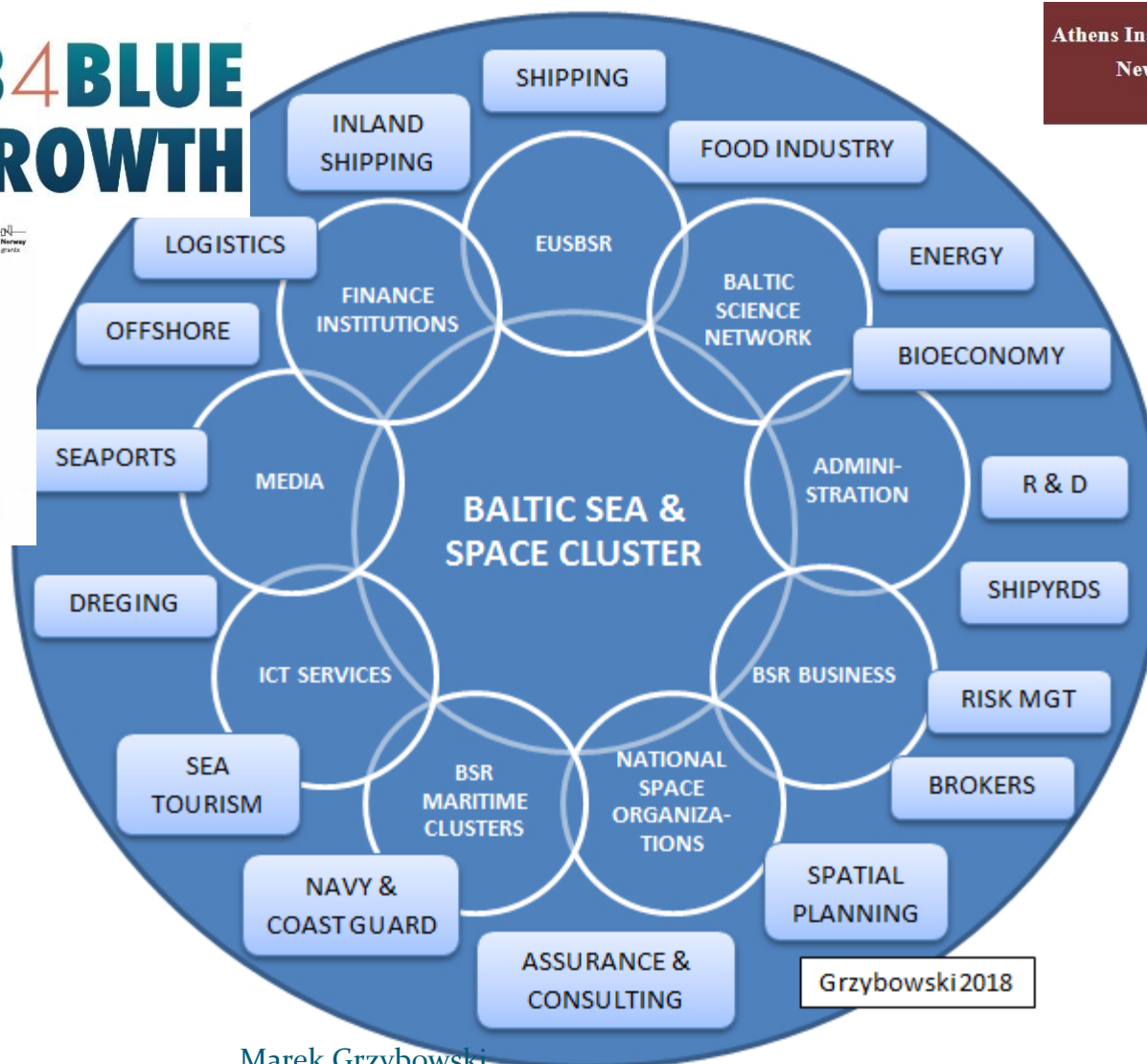
Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY
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GDYNIA Poland



i34 BLUE GROWTH

Athens Institute for Education and Research
Newsletter No. 5, January 2022



Marek Grzybowski

Grzybowski 2018



CLUSTER MEMBERS and PARTNERS

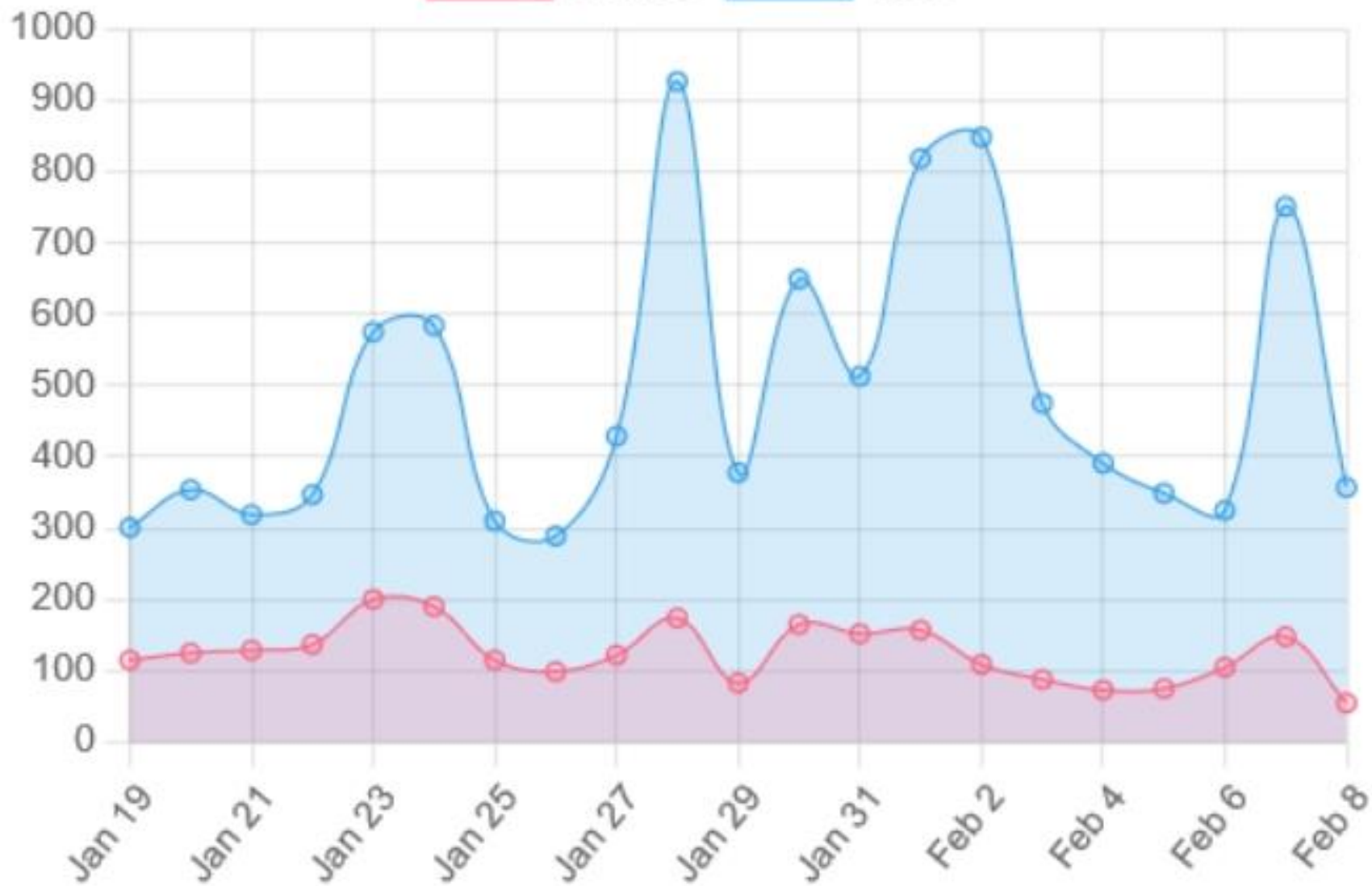
MEMBERS – Członkowie Klastra



Partners – Partnerzy Klastra



Visitors Visits





 Grant Management	
873026 (GALATEA)	IA
 HORIZON 2020	
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BSSC Activity

- **BSSC THINK TANK (RADA PROGRAMOWA, KOMITET STERUJĄCY)**
- **PROJECT DEPARTMENT**
- **SEA AND SPACE – RESEARCH, BUSINESS, TECHNOLOGIES START UP PLATFORM – SEA & SPACE TECHNOLOGY A SPACE OF INNOVATION IN MARINE INDUSTRIES**
- **MARITIME CLUSTERS OBSERVATORY**
- **BALTIC SEA REGION OBSERVATORY**
- **BSSC Teams**



Marek Grzybowski



CONFERENCES



Space Sciences Committee Polish Academy of Sciences / Gdańsk Branch in cooperation with Baltic Sea & Space Cluster

invites for joint conferences

- 20th September, 2018
Baltic Sea & (Outer) Space.
New perspective for our region.
Sopot, Instytut Oceanologii PAN
- 22nd November, 2018
Seaport + Space Infrastructure.
Synergic Network under common management.
Gdynia, WSAIB
- 19th March, 2019
Autonomous ships. Inevitable reality at sea.
Politechnika Gdańska
- 18th May, 2019
Institutional Cooperation at Sea & (Outer) Space.
Essential adjustments needed to boost full potential.
Uniwersytet Gdański, Wydział Prawa i Administracji
- 19th September, 2019
Remote-sensing. Challenges in gather and sharing data.
Sopot, Instytut Oceanologii PAN
- 14th November, 2019
Sea and underwater drones. "Unidentified Sea Objects"
Akademia Marynarki Wojennej, Gdynia

Marek Grzybowski



Space Sciences Committee
Polish Academy of Sciences / Gdańsk Branch
in cooperation with Baltic Sea & Space Cluster & Polish Space Agency (POLSA)

invite for joint conferences

Conference Agenda for 2020-2021

- 12th March 2020
Smart Port. The merged sea & space network.
Gdynia
- 14th May 2020
Launch of the Polish space rocket. New opportunities.
Ślupsk
- 24th September 2020
Artificial Intelligence. In search for synergy.
Gdańsk
- 19th November 2020
Satellite technologies for maritime safety.
Szczecin
- 11th March 2021
Baltic Sea. Reflection of the stars.
Sopot

Partners – Partnerzy Klastra



The ART and PRACTICE

2022

COPERNICUS – ESA

MARCH 24 An Empirical Exploration of a Human and Technology: *Prometheus Unleashed*
PG, GDAŃSK

JUNE 23 Sea & Space Industry: Public-Private Partnership in Turbulent Times: *Existential Risks*
Academy of Koźmiński, WARSZAWA

SEPTEMBER 22 Code of Conduct at Sea and in Space: *Rules and principles for sociotechnological resilience in sea and space*
UG, GDAŃSK

NOVEMBER 24 On War in Sea & Space: *Its Dangerous Legacy*
AMW, GDYNIA

2023

GALILEO – ESA

MARCH 23 Safe Planet & Space: *Letter from Utopia*
Instytut Oceanologii PAN, SOPOT

JUNE 22 Navigation Systems in Sea & Space: *Two Sides of the Coin*
AP, SŁUPSK

SEPTEMBER 21 Sea & Space Situational Awareness: *Serving in a Smarter World*
ASW, WARSZAWA

NOVEMBER 23 Rights and obligations at the time of damage occurring in international space: *To Throw Caution to the Wind*
WSAiB, UIQ, GDYNIA-OSŁO

BSSC BALTIC SEA & SPACE CLUSTER

P O L S A

PAN POLSKA AKADEMIA NAUK

COOPERATION IN THE BALTIC SEA REGION MARITIME CLUSTERS BSR CHAIN



- Estonian Maritime Cluster
- Finnish Maritime Cluster
- German Maritime Cluster
- Latvian Maritime Cluster
- Swedish Maritime Cluster
- Polish Maritime Cluster
- Danish Maritime Cluster
- Norwegian Maritime Cluster



BSSC HUB FOR INTERNATIONAL PROJECTS

Increasing innovation capacity



Grand
Challenge

Grand
Potential



Creating new
strategic alliances



Public
resources



StarDust

Strengthening the research base



© BSR STARS (VINNOVA)

2010

Marek Grzybowski

2014

2020





Grant Management

873026 (GALATEA) IA

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION
HORIZON 2020

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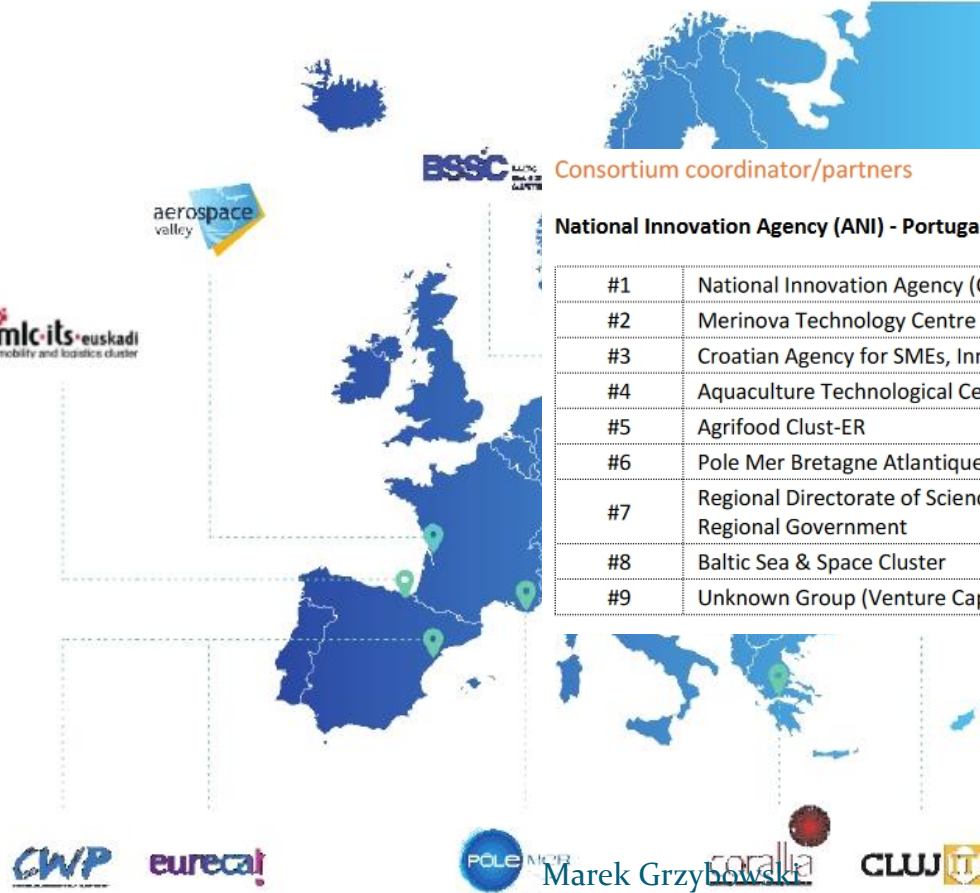
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GDYNIA Poland



BSSC NETWORK



aerospace valley

mlc-its-euskadi mobility and logistics cluster

EEA AND NORWAY GRANTS FUND FOR REGIONAL COOPERATION

PROJECTS SELECTED FOR FUNDING

Subdivision by countries

Iceland
Liechtenstein
Norway grants

Norway grants

Consortium coordinator/partners

National Innovation Agency (ANI) - Portugal

#1	National Innovation Agency (Coordinator)	ANI	Portugal
#2	Merinova Technology Centre	MERINOVA	Finland
#3	Croatian Agency for SMEs, Innovation and Investments	HAMAG-BRICO	Croatia
#4	Aquaculture Technological Centre	CTAQUA	Spain
#5	Agrifood Clust-ER	CLUST-ER	Italy
#6	Pole Mer Bretagne Atlantique	PMBA	France
#7	Regional Directorate of Science and Technology – Azores Regional Government	DRCT	Portugal
#8	Baltic Sea & Space Cluster	BSSC	Poland
#9	Unknown Group (Venture Capital and Innovation Advisory)	UG	Netherlands

Entities participating as beneficiary partners from beneficiary countries
Total: 72



CWP

eureca!

POLE MER

Marek Grzybowski

coralla

CLUJ

TENTacle Project 2016-2019

POLISH
MARITIME
CLUSTER

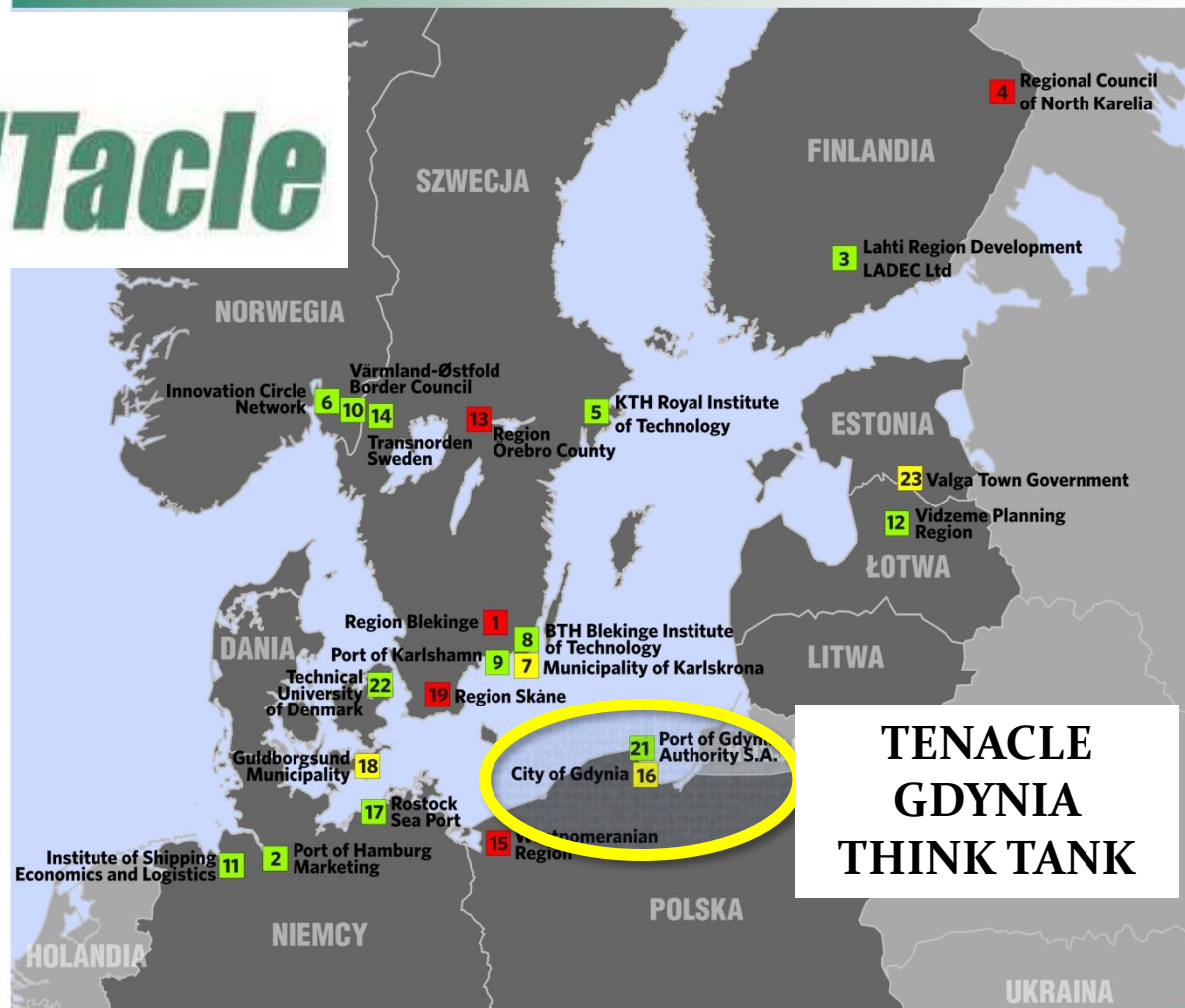


POLSKI
KLASTER
MORSKI

Project Partnership



Implementation
period: 2016-2019
23 partners from
9 countries
+ 65 associated
organisations



**TENACLE
GDYNIA
THINK TANK**

BALTIC INITIATIVE PARTICIPATION IN THE DEVELOPMENT OF REPORTS



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Smart specialisation and blue growth in the Baltic Sea Region

We support regions to implement their research and innovation strategies in marine and maritime sectors





EUROPEAN
REGIONAL
DEVELOPMENT
FUND

EUROPEAN UNION

ECOPRODIGI

Bringing eco-efficiency and digitalisation to maritime industry





EUROPEAN UNION

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ELMAR - Supporting South Baltic SMEs to enter the international supply chains & sales markets for boats & ships with electric propulsions

 Grant Management	
873026 (GALATEA) IA  THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION HORIZON 2020 Call: H2020-INNOSUP-2018-2020 Topic: INNOSUP-01-2018-2020	Beneficiary 9: BSSC Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY PIC: 910357708 Status: VALIDATED Legal Address: UL. POLSKA NR 13A LOK 1 , 81 339 , GDYNIA Poland



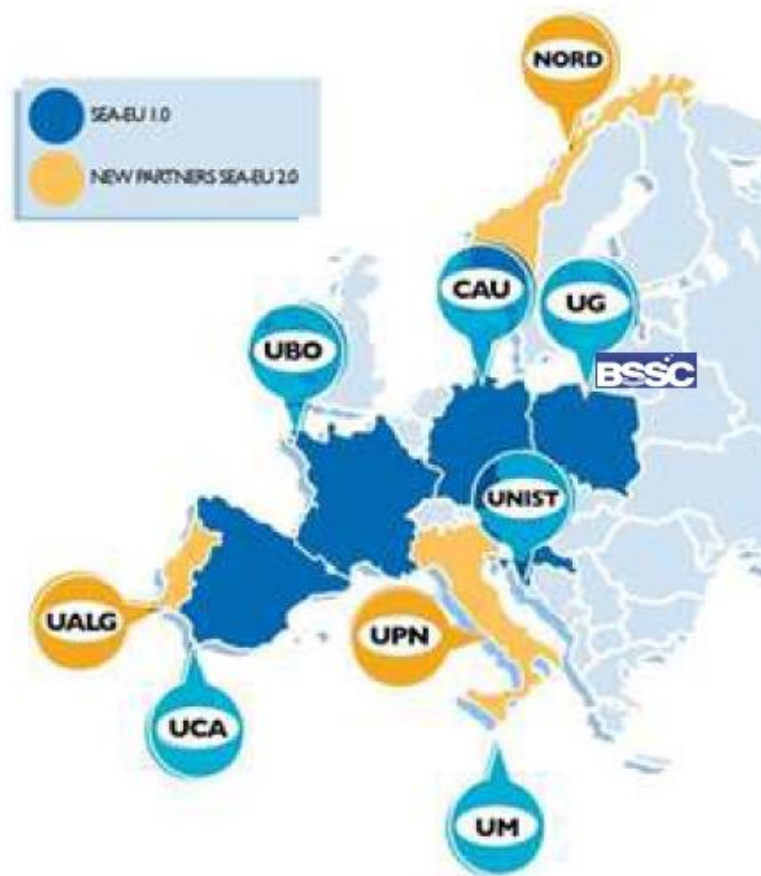
NEW PROJECTS



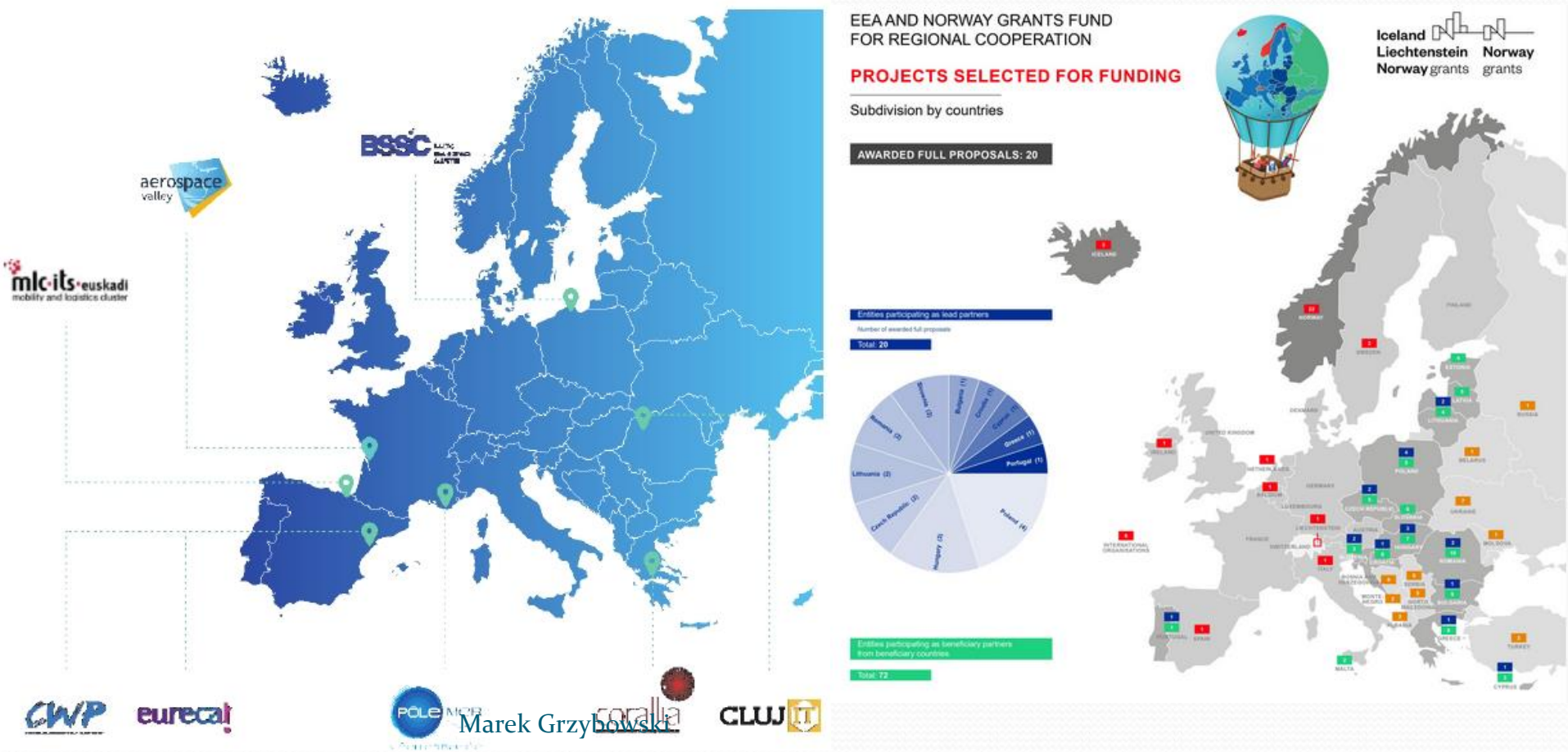
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873026 (GALATEA)	IA
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SEA EU UNIVERSITY



Marek Grzybowski



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New Projects

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- **GALATEA** - GROW AND ACCELERATE YOUR SMART PROJECTS IN NEW VALUE CHAINS OF THE EUROPEAN BLUE ECONOMY
- **Project 2018-1-1185** - “Strengthening Transnational Co-operation, Knowledge and Technology Transfer in Development of Electric Vessels and Fostering Innovations in SMEs” (MECHANIZM NORWESKI)
- **ICT4Maritime** - Cultivating ICT Skills of VET trainers in maritime, z programu EACEA, Key Action 2: Cooperation for Innovation

Grant Management

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THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION
HORIZON 2020

Call: H2020-INNOSUP-2018-2020
 Topic: INNOSUP-01-2018-2020



GALATEA FOCUSES ON 4 THEMATICS



**SMART &
GREEN PORT**



**SMART &
GREEN SHIP**



**SMART &
GREEN SHIPYARD**



**MARITIME
SURVEILLANCE**



Grant Management

873026 (GALATEA) IA

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GDYNIA Poland







SMART PORT

Blockchain. Artificial intelligence. Virtual reality. DLT - Distributed Ledger Technologies. Drones. Autonomous vehicles. Automating. IoT - Internet of Things.





SMART SHIP

Sensors. Automated / autonomous vessels. Alternative fuels. Hybrid propulsion. Augmented and virtual realities. Big data. Early warning systems. Digital twins. Autonomous vehicles.





SMART SHIPYARD

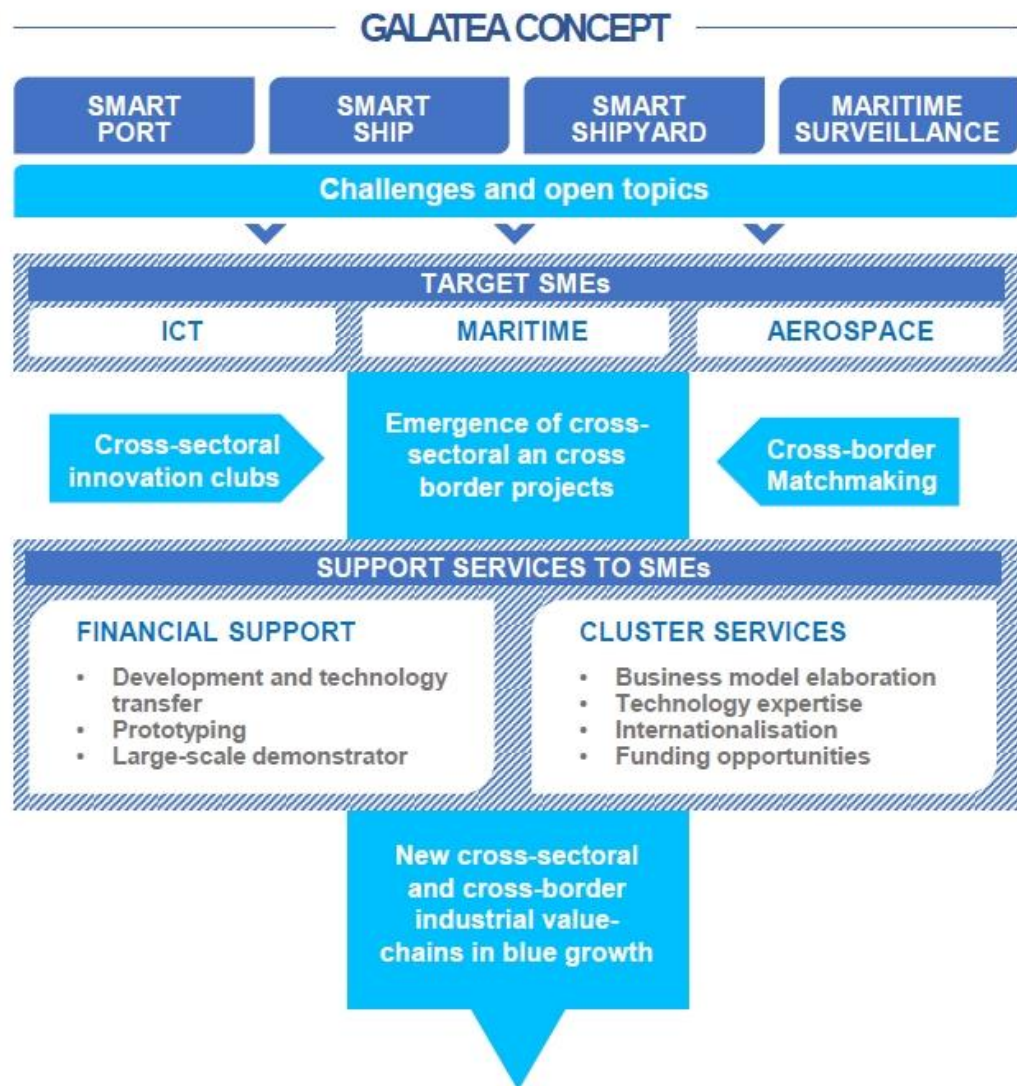
3D printing. 3D modeling software. Digital twins. Reverse engineering. Non-contaminating paints. Robotics. Data management. IoT - Internet of Things. Precision positioning.





MARITIME SURVEILLANCE

Surveillance systems. Data management. Optical or optronic cameras. Radar technologies. Earth observation. EGNOS. Drones. DLT - Distributed Ledger Technologies. Cyber security.



ZEVInnovation

EEA AND NORWAY GRANTS FUND
FOR REGIONAL COOPERATION

PROJECTS SELECTED FOR FUNDING

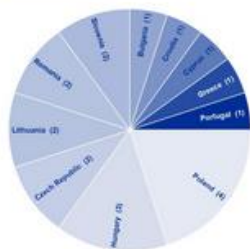
Subdivision by countries

AWARDED FULL PROPOSALS: 20

Entities participating as lead partners

Number of awarded full proposals

Total: 20



Entities participating as beneficiary partners
from beneficiary countries

Total: 72



Iceland
Liechtenstein
Norway grants



ZEVInnovation

Project 2018-1-1185 - “Strengthening Transnational Co-operation, Knowledge and Technology Transfer in Development of Electric Vessels and Fostering Innovations in SMEs” (NORWAY GRANTS)



ZEVInnovation



ZEVInnovation

Project 2018-1-1185 - “Strengthening Transnational Co-operation, Knowledge and Technology Transfer in Development of Electric Vessels and Fostering Innovations in SMEs” (NORWAY GRANTS)





BSSC GALATEA INNOVATION DAY

Plik Edycja Widok Historia Zakładki Narzędzia Karty udostępniające zasoby Pomoc

Virtual stand configuration - IN X Exhibitors List - INTERMARE SC X BALTIC SEA & SPACE CLUSTER X Webinar room - BALTIC SEA X

https://live.intermare-southbaltic.eu/conference/expo/exhibitor.html?eid=32&... 50% Szukaj

Często odwiedzane Zaloguj do balticclust... Log In BSSC.PL — W... Connexion Kalendarz Google - p... Pierwsze kroki Bezpłatny czat, rozm... ZEVInnovation – Drop... EEA and Norway Gran... Pozostałe zakładki

Identyfikator: 796-023-830

eggs INNOVATIVE YOUTH ENTREPRENEURSHIP PROGRAM

corallia **Eurobank**

1st cycle

2nd cycle

3rd cycle

4th cycle

5th cycle

Incubation acceleration & co-working programme

Established on 2013 by Eurobank & Corallia

100 startups accelerated

Mentors Facilities Services Training

Apply on www.theegg.gr every February

Aitor Corchero (...)

Leire Balzategui (...)

Clémence

Diego Carballo (...)

Upcoming 11:00

PRESENTER (...)

Aitor Corchero (BUT)

Andreea Kelenes (Cluj IT)

Christina Geroulafina - Corallia

Clémence

Diego Carballo - AI

Emilia Guillemot

Krzysztof

Leire Balzategui (BUT)

Marko Korybowski

12:48
20.04.2021

BSSC ZEV INNOVATION DAY

Plik Edycja Widok Historia Zakładki Narzędzia Karty udostępniające zasoby Pomoc

Virtual stand configuration - IN Webinar room - BALTIC SEA

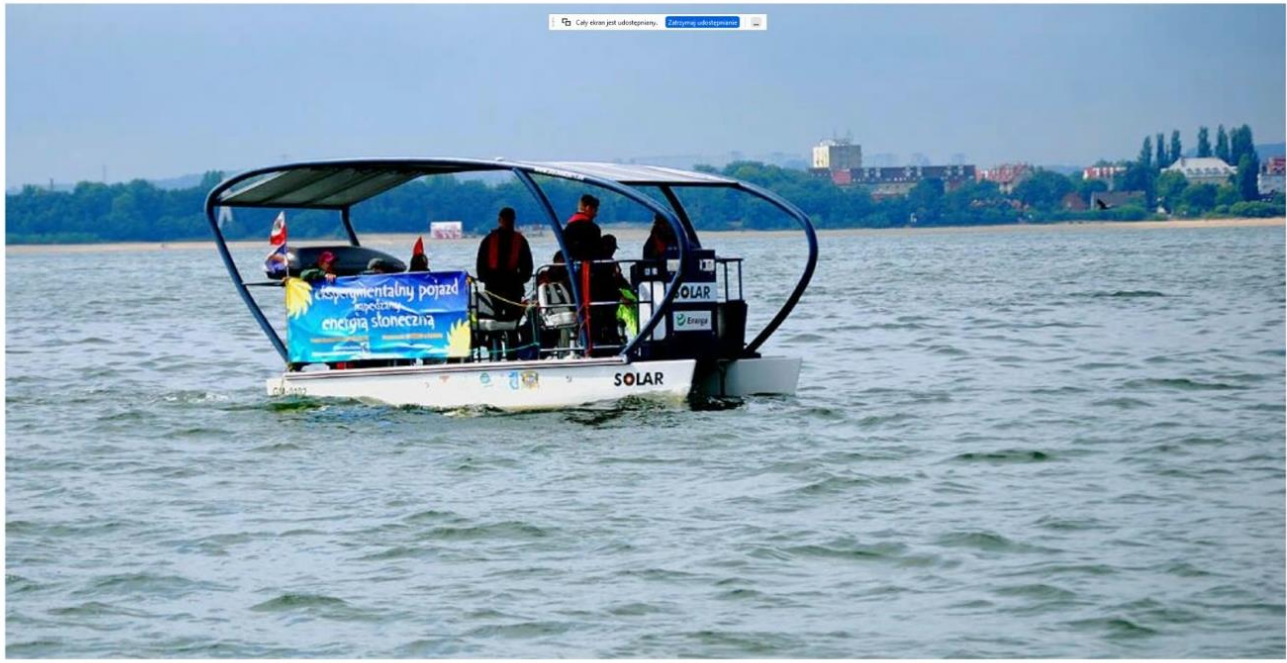
https://live.intermare-southbaltic.eu/conference/expo/exhibitor.html?eid=32&n 50% Szukaj

Często odwiedzane Zaloguj do balticclust... Log In < BSSC.PL — W... Connexion Kalendarz Google - p... Pierwsze kroki Bezpłatny czat, rozmowa... ZEVInnovation – Drop... EEA and Norway Gran... Pozostałe zakładki

Widok Prezentacja Webinar Zakłucz Zakończ Zakończ 30:31

Identyfikator: 796-023-830

Audio i Video



33

Boris Ćosić

Mariusz Deja

Uczestnicy 9/100

Czat Moderacja

Webinar room - BA... Interview: Boris Ćosić

12:58 21.04.2021

INTERMARE
SOUTH BALTIC
MARITIME ECONOMY EXHIBITION 2021

ON LINE
EDITION



1 200 registered people
(participants and exhibitors)

71% attendance among
registered participants

over **800** people took part
in fairs and conferences

Presence at conferences:

193 GreenMarE

141 SeaTech

472 NatCon

200 participants at the same time!
participated in the NatCon conference

311 participants observed presentations
at Cross Border Main Stage



INTERMARE
SOUTH BALTIC
MARITIME ECONOMY EXHIBITION 2021

ON LINE
EDITION



832 participants took part
in matchmaking
(online business talks)

Business cards were downloaded/sent
990 times

Catalogs and advertising brochures
were downloaded
942 times at virtual stands

Virtual stands were visited
3 944 times



44 min. is the average time
of presence on the exhibition platform

82 exhibition stands
were visited by the record holder
during one day of the fair





i34BLUE GROWTH

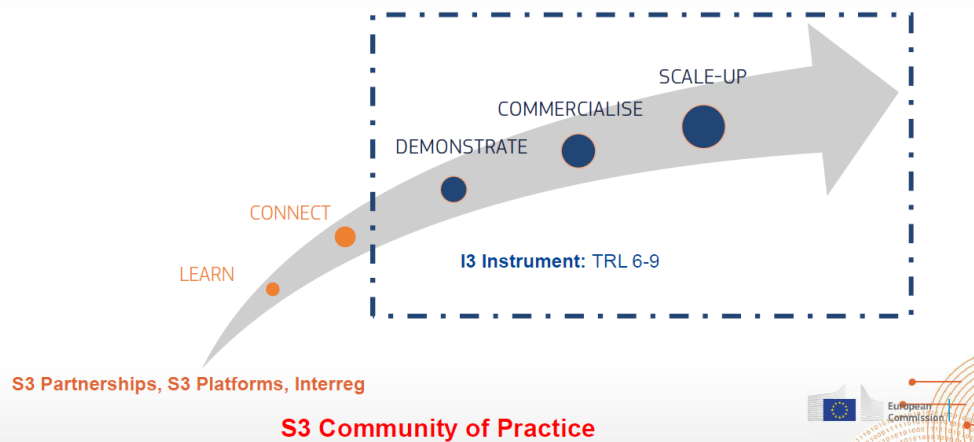


Green innovation for blue growth!

The primary objective of the project is to **enhance capacities** of **less-developed** coastal & insular European regions to **build** and **reinforce innovative ecosystems** for the development of a **sustainable** and **smart blue economy**.

FUNDED BY I3 INSTRUMENT DG REGIO PROGRAM

Financing mature innovation to bridge the innovation divide through interregional collaboration





Project Overview

Value Chains



Value Chain #1: Sustainable fisheries, aquaculture and valorization of blue resources

- Sustainable fishing and aquaculture: sustainable use of available resources, new methods of production, integrated multi-trophic aquaculture.
- Sustainable industrial technologies: traceability systems, sustainable industrial technologies for the processing and packaging.
- Valorization of blue resources: Recycling and upcycling of fish and seafood waste; algae production; blue biomass/biowaste.



Value Chain #2: Renewable Marine Energy and Maritime Decarbonization

- Maritime Renewable Energies: infrastructures, products and services related to marine renewable energies (e.g. offshore wind, tidal energy, wave), with strong expectations on lower costs, reduction of the environmental footprint, acceptability and compliance with the regulatory framework
- Maritime decarbonization: Green and smart shipping, decarbonization and eco-friendly ship, autonomous systems, shipbuilding, etc



**i34BLUE
GROWTH**

BSSC

CONSORTIUM

PT| Agência Nacional De Inovação (**Coordinator**)

FI| Merinova Technology Centre

HR| HAMAG-BICRO - Croatian Agency for SMI
Innovation and Investments

ES| CTAQUA - Aquaculture Technological Cent
Andalusia

IT| CLUST-ER - Agrifood Clust-ER

FR| Pole Mer Bretagne Atlantique

PT| Direção Regional de Ciência e Tecnologia R.
Açores

NL| Unknown Group Venture Capital

PL| Baltic Sea & Space Cluster

PT| BlueBio Alliance





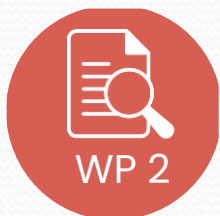
**i34BLUE
GROWTH**



Work Plan



Project
Management &
Coordination



Ecosystem
Mapping,
benchmarking
and interregional
needs /
opportunities



Project Identification
& Capacity building,
advisory and
assistance towards
investment readiness



Innovative
Financial
Instruments and
regional support
for S3
development



Ecosystem building,
knowledge exchange
and
internationalization



Promotion,
dissemination and
communication

BLUEDOTS Project

SMP-COSME-2023-SEED - build the capacities of Social Economy SMEs acting in the Blue Economy to apply digital-social innovation



EEA AND NORWAY GRANTS FUND
FOR REGIONAL COOPERATION

PROJECTS SELECTED FOR FUNDING

Subdivision by countries

LEGA DELLE COOPERATIVE DEL FRIULI VENEZIA GIULIA (Legacoop FVG), PIC 945851754, established in VIA D. CERNAZAI 8, UDINE 33100, Italy,

and the following other beneficiaries, if they sign their 'accession form' (see Annex 3 and Article 40):

2. **CONFEDERACION ESPANOLA DE COOPERATIVAS DE TRABAJO ASOCIADO UNION DE COOPERATIVAS (COCETA)**, PIC 944931418, established in CALLE VIRGEN DE LOS PELIGROS 3 PISO CUARTO, MADRID 28013, Spain,

3. **INNOVA EG (INNOVA EG)**, PIC 939890328, established in BREITENFELDER STR. 12, LEIPZIG 04155, Germany,

4. **BALTYCKI KLASTER MORSKI I KOSMICZNY (BSSC)**, PIC 910357708, established in UL. POLSKA NR 13A LOK 1, GDYNIA 81-339, Poland,

5. **SOCENT COMPANY LIMITED BY GUARANTEE (SOCENT)**, PIC 900561872, established in THE BEA ORPEN BUILDING DUBLIN CITY UNIVERSITY COLL AVENUE EXTENSION GLASNEVIN, DUBLIN D09AR55, Ireland,

6. **DIESIS NETWORK (DIESIS)**, PIC 985317659, established in BOULEVARD CHARLEMAGNE 74, BRUXELLES 1000, Belgium,



Iceland
Liechtenstein
Norway grants grants



Entities participating as beneficiary partners from beneficiary countries

Total: 72



Prof. Marek Grzybowski, BSSC ZEV HUB, 2024-11-26 FINLAND



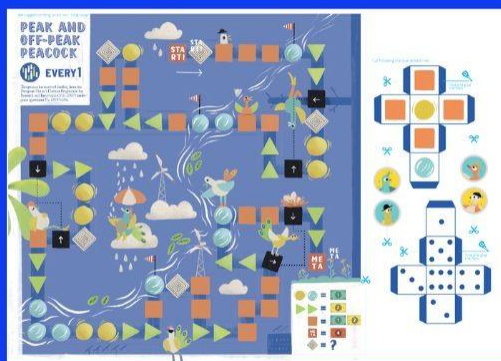
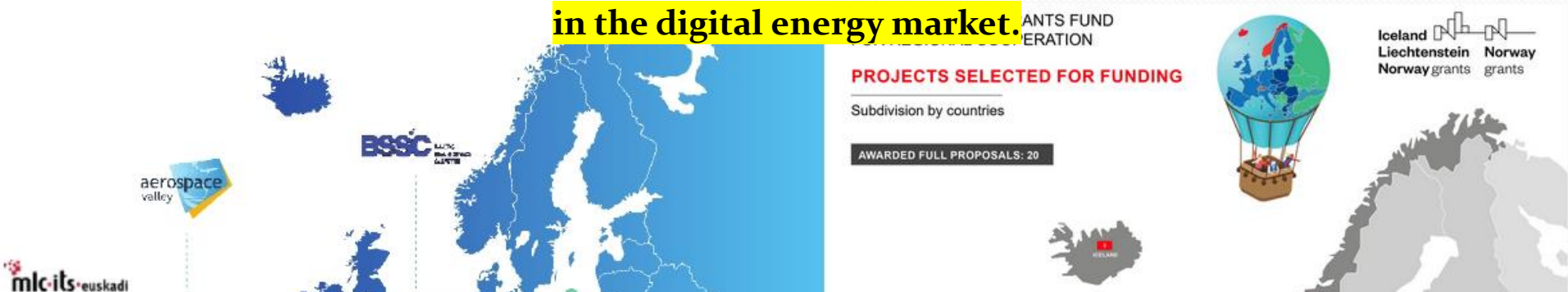


EVERY1



Every'1 project

Every'1 project set the goal to deliver an impactful concept that includes all elements needed to enable an effective participation of all European stakeholders in the digital energy market.



CLUSTER PROMOTION



Updated Fri Feb 19 2021

BALTIC SEA & SPACE CLUSTER

📍 GDYNIA, Poland

Special Thematic Areas

G01, D01, D02, S01, T01

Industries



Resource Efficiency
Support Provider



EUROPEAN CLUSTER
COLLABORATION PLATFORM

See what our
members say!

#ECCPLaunch



An initiative of
the European Union

Marek Grzybowski



"Thanks to the ECCP we participate in international projects to develop innovative regions and knowledge transfer for the maritime industries."

Baltic Sea and Space Cluster



The #ECCP platform has over 1,100 industrial #clusters connecting & collaborating.

@PolKlaMor participates & partners in international projects thanks the platform.

Update your profile to benefit from our **new** features
clustercollaboration.eu/user?mtm_campaign=

@EU_Growth @EU_EASME

#ECCPLaunch

Przetłumacz Tweeta

10:58 AM · 18 lut 2021 · Twitter Web App

Maritime Industry 4.0 BSSC HUB

Marek Grzybowski



MarekGrzybowski@BalticSea&SpaceCluster

 		 	
873026 (GALATEA) IA		Beneficiary 9: BSSC	
 THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION HORIZON 2020		Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY	
Call: H2020-INNO5UP-2018-2020		PIC: 910357708 Status: VALIDATED	
Topic: INNO5UP-01-2018-2020		Legal Address: UL. POLSKA NR 13A LOK 1 , 81 339 , GDYNIA Poland	
		 ZEVI innovation Strengthening Transnational Cooperation through innovation in Development of Electric Vehicles and Intelligent Innovations in SMEs	

Maritime 4.0

- *Sea Ports 4.0*
- *Maritime Transport 4.0*
- *Shipyards 4.0*
- *ZEV*
- *WIND OFFSHORE*

 Grant Management	
873026 (GALATEA) IA	Beneficiary 9: BSSC
 HORIZON 2020 THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION	Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY
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Topic: INNOSUP-01-2018-2020	Legal Address: UL. POLSKA NR 13A LOK 1 , 81 339 , GDYNIA Poland

Marek Grzybov



MAIN STAKEHOLDERS

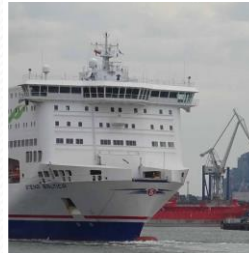


SEA PORTS



LAW,
INSPECTION

MARITIME
TRANSPORT



EQUIPMENT



SHIPYARDS



HUMAN
RESOURCES

NORWAY GRANTS VISIT . NOR 20230522 IN TRONDHEIM



NORWAY GRANTS 20230523 IN BERGEN



Marek Grzybowski

PARP NORWAY GRANTS 20230523 IN BERGEN



Floating Wind Days 2023 Haugesund

TGS 40th Global offshore wind market intelligence

Providing unrivalled market-leading insight for 14 years

Extensive Database:

- 2000+ offshore wind farms: project design, lifecycle updates, supply chain, and finance
- 2000+ vessels: information on specifications and contracts
- Subsea cables, offshore platforms and interconnectors: technology specifications, project updates
- GIS: interactive map, wind farm boundaries, cable routes, turbine locations, etc.

Reports, Webinars, & Consultancy: strategic regulatory and market dynamics for established and emerging markets; offshore wind forecasts and opportunity pipelines; supply & demand analysis; cost modelling

Interactive Dashboard: online charts and tools, news, project tracking and more

40th H1 Floating Wind Report will be published in June 2023

Tel: +44 (0)1502 311111
Email: info@4coffshore.com

MAREK GRZYBOWSKI@BSSC

300 GW in 2050 – A supply chain challenge

20,000 turbines

Each on top of floating units weighing more than 5,000 tonnes

47 000 km Array cables

70 000 km Mooring line

100 million tons of steel

x1.18

x1.75

x10k

DNV

Floating Wind Days 2023 Haugesund



Floating Wind Days 2023 Haugesund



PARP NORWAY GRANTS 20230525 IN STAVANGER

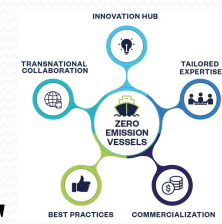


PARP NORWAY GRANTS 20230525 IN STAVANGER

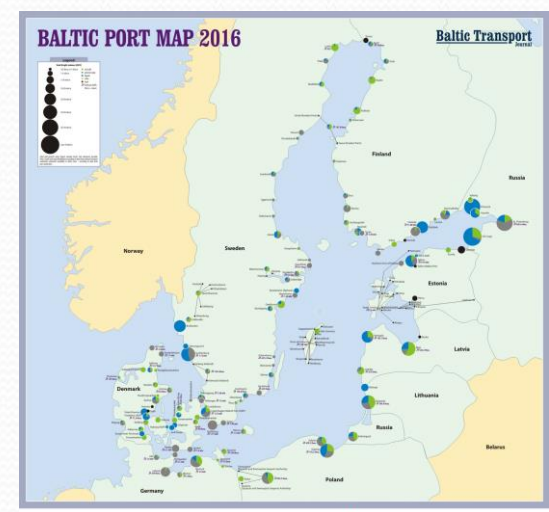




BSSC STRATEGY 2030



- MARITIME & SPACE INDUSTRY DEVELOPMENT
- FIT FOR 55
- SMART PORT
- SMART SHIPYARD
- SMART SHIP
- SEA & SPACE TRANSFER KNOWLEDGE
- SEA & SPACE RESEARCH & CONFERENCES
- CLUSTER OF HUBs
- CLUSTER OF PROJECTs



MARITIME INDUSTRY 4.0



SHIPYARD 4.0



SHIPPING 4.0

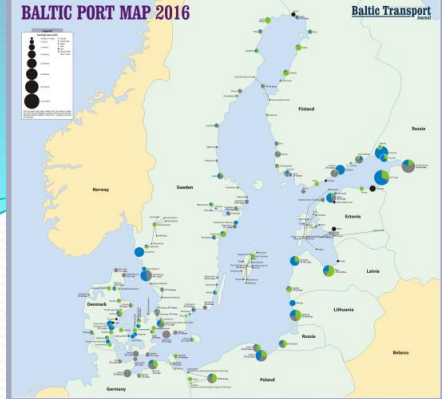


PORT 4.0



WIND OFFSHORE

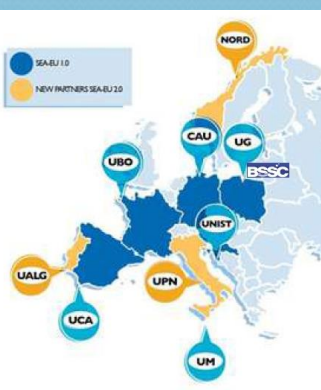




BSSC PROGRAM 2025

1. Utrzymanie pozycji kluczowego Klastra w regionie Morza Bałtyckiego.
2. Aktywny udział w European Network of Maritime Clusters,
3. Działanie w United Nation Global Compact
4. Współpraca w ramach Cluster Collaboration Platform.
5. Aktywny udział w projektach międzynarodowych,
6. Partnerstwo w Międzynarodowym Uniwersytecie Unii Europejskiej SEA EU.
7. Wsparcie członków w przygotowaniu do udziału w BALTEXPO 2025, Nor Shipping oraz Posidonia 2024 i Kongresie Porty Polskie
8. Transfer wiedzy – jedną z podstawowych platform działania
9. Działalność w obszarze Innowacyjnych specjalizacji Pomorza i Polski
10. Inteligentne specjalizacje morskie
11. Polityka morska





MAIN STAKEHOLDERS

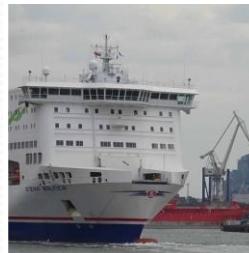


SEA PORTS



LAW,
INSPECTION

MARITIME
TRANSPORT



EQUIPMENT



SHIPYARDS



HUMAN
RESOURCES



POLISH CLUSTER FISH PRODUCTION

The fish industry data on trade in products fisheries, which amounted to
\$ 200 billion (export),
which accounted for **10% of the exchange commercial food products.**
61.7 million were sold internationally tons of fish and seafood,
i.e. **35% of them world fishing and production.**

Fish processing

Fish processing in the country deals with **about 230 plants**
with the authorization to trade products in the territory of
the EU.



Grant Management

873026 (GALATEA) IA

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION
HORIZON 2020

Call: H2020-INNOSUP-2018-2020
Topic: INNOSUP-01-2018-2020

Beneficiary 9: BSSC
Legal Name: BALTYCKI KLASTER MORSKI I KOSMICZNY
PIC: 910357708 Status: VALIDATED
Legal Address: UL. POLSKA NR 13A LOK 1, 81 339, Gdynia Poland



BSSC ZEV HUB MEETING RIJEKA

Infrastructure supporting "green," projects a successful case study

Trends in CO₂ emissions, transport demand and carbon intensity under current policy

©MAREK GREYBOWSKI BalticSea&SpaceCluster

ZEVinnovation involvement

Involved from the beginning and participated in all workshops:

- Bergen – June '22
- Zagreb – March '23
- Aalesund – June '23
- Zagreb – November '23

Logos: ctt, INOVAR.COM, BSSC, akp, VINCO

Activities: Business plan development, Mentorship, Networking, Knowledge sharing

focus areas

ADVANCED DIGITAL TECHNOLOGIES

DIGITAL TECHNOLOGIES

Use of innovative industry 4.0 technologies including advanced 5G networks IoT, Big data management, AI and analytics to facilitate smart ship and seaport development.

New AC-Gitose marina Porto Rondo in Rijeka used as demonstration center for application of new technologies.

ADVANCED SHIP TECHNOLOGY

ALTERNATIVE PROPULSION

Development of a new built ship or a retrofit based on alternative fuels utilizing hydrogen powertrain, facilitating hydrogen or hydrogen carrier fuel. Development of hydrogen fuel value chain for local markets.

AUTONOMOUS SHIP

Development of a ship autonomy platform for fully autonomous coastal navigation, including cameras, sensors, on board interface system, connectivity suite, software and management platform.

ENERGY & ENVIRONMENT

ENERGY

Design engineering and development of innovative energy solutions including conventional gas and green energy offshore projects.

Waste to energy systems for marine and onshore application.

ENVIRONMENT

Intelligent waste treatment, economical and ecological extraction of raw materials and end-of-life innovations for sustainable future.

STRATEGIES TOWARDS GREENER OPERATIONS

1. MARINE ENERGY EFFICIENCY

2. SHIPBOARD ENERGY EFFICIENCY

3. SHIPBOARD ENERGY EFFICIENCY

4. SHIPBOARD ENERGY EFFICIENCY

Welcome to ZEVinnovation HUB

<https://zevinnovation.eu/hub>

ZEVinnovation GreenMaritime SUMMIT



Marek Grzybowski



Grant Management

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BSSC ZEV HUB MEETING RIJEKA



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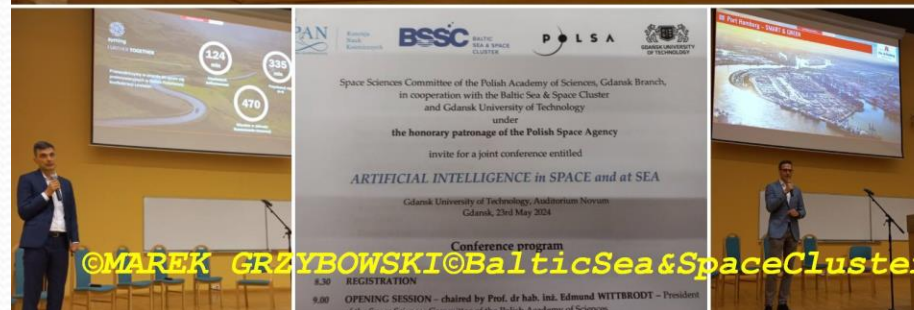
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BSSC CONFERENCE

ARTIFICIAL INTELLIGENCE in SPACE and at SEA



Marek Grzybowski



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ENMC MEETING 2024 + POSIDONIA 2024



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Marek Grzybowski



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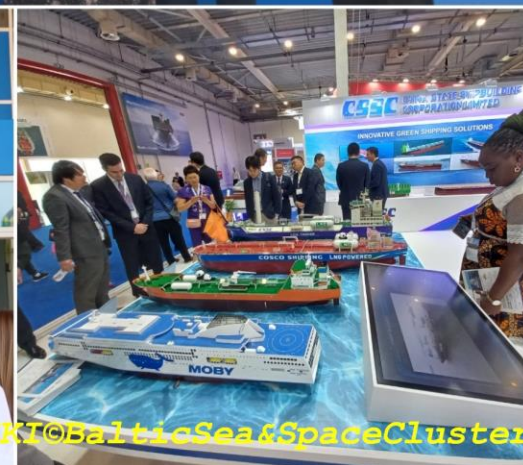
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POSIDONIA 2024



Marek Grzybowski





BALTIC SEA & SPACE CLUSTER

Marek Grzybowski
contact@bssc.pl