

The Brest Declaration for Coastal Ocean Observing Systems (COOS)

Brest, 2014-10-15

On the occasion of the 2nd Symposium MiTiN¹ teams from various countries, including Argentina, Canada, China, Europe, Indonesia, Mexico, Vietnam, in the presence of experts from the IOC, Unesco, World Bank, GEF, etc.

The delegations agreed upon the need to improve the implementation of operational oceanography with special attention to the EEZ and coastal waters in order to meet important challenges faced by the world community. The indication is that there is a serious lack of infrastructure to provide and share basic data for research related to currents, wind, the state of the sea, but also bathymetry and water quality and many more.

The delegations also consider it very necessary to significantly improve the dialogue and cooperation within the "triple helix" of:

- Public authorities (responsible for spatial planning, public infrastructure, environmental protection, etc. on a local, national, regional and international level)
- Private enterprise (to execute the various tasks in a commercial and most efficient way for society)
- Research & education (for advice, to guarantee the strict application of scientifically correct procedures; to develop technical and scientific human skills and policies based on research and high-quality data analysis, etc.)
- International bodies such as the IOC, IHO, UNU, World Bank, etc.

The delegations highlighted the need for sustainable funding programmes to build and maintain an appropriate infrastructure for Coastal and Ocean Monitoring in order to enable the acquisition, validation, integration and publication of basic data for the general benefit of society. The infrastructure is expected to facilitate:

- Capacity building, the exchange of technologies & procedures (best practice)
- The design and implementation of public policies
- The creation of innovative companies and new employment opportunities

This initiative shall exist as a multi-national cooperative venture to overcome the constraints of traditional bilateral projects. Despite existing specific and geographical differences, the need to take the steps mentioned above is common to a large number of countries and regions, all of them facing global challenges like climate change, environmental degradation, population growth, poverty reduction, food insecurity and disease.

¹ <http://www.mitin-network.org/Projets-1604-46-0-0.html>

Action Plan Proposal

During the three days of the Symposium the teams worked on the following main issues: the sustainable exploitation of marine bio-resources, particularly marine aquaculture, and operational oceanography, especially coastal oceanography, considered as a platform to develop diverse maritime activities in a sustainable way (BLUE ECONOMY). The action plan proposed for 2015-2016 underlines the synergies existing between both key themes and seeks to develop oceanography and marine biotechnology as integral components of a cooperative project between the signatory countries, with pilot sites and consortia in the participating countries.

The main proposals are as follows:

1. Develop a Global-COOS: the team proposes to reuse and transfer proven technical models set out within the network, especially in Europe, to the first four voluntary countries² and regions in order to speed up and harmonise the deployment of COOS infrastructures and to address common issues such as:
 - The funding and construction of economic and governance models of operational COOS (public-private scientific partnerships)
 - Data sharing and database management and
 - The development of products (models and forecasts) in conjunction with, and for end users.
2. Create sustainable marine aquaculture: main components of sustainable marine aquaculture have been presented and thoroughly discussed during the meeting. The proposal is to integrate the “best techniques and practices” in order to develop “sustainable marine aquaculture models” and to implement them in the first four candidate countries (in the same way as COOS).
3. Develop sustainable blue coastal economies: to combine actions, to provide coastal ocean data for meeting coastal risks such as oil spills, tsunamis, erosion, flooding, vulnerability prediction, etc.

The Action Plan includes a yearly meeting of the network in one of the member countries. This is a network open to all other countries, regions and organisations sharing the common goals of MITIN and prepared to contribute to them.

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² Argentina, Indonesia, Mexico and Vietnam, but not limited to

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Signatures

Country	Institution/Company	Name	Signature
Argentina	Government of the province of Chubut, Secretaría de Ciencia, Tecnología e Innovación Productiva	Georgina Davies Sala	
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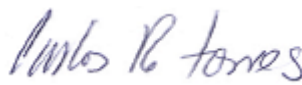
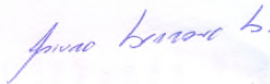



Signatures

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Europe	UK, Southampton, Marine South East	Iain Shepherd	
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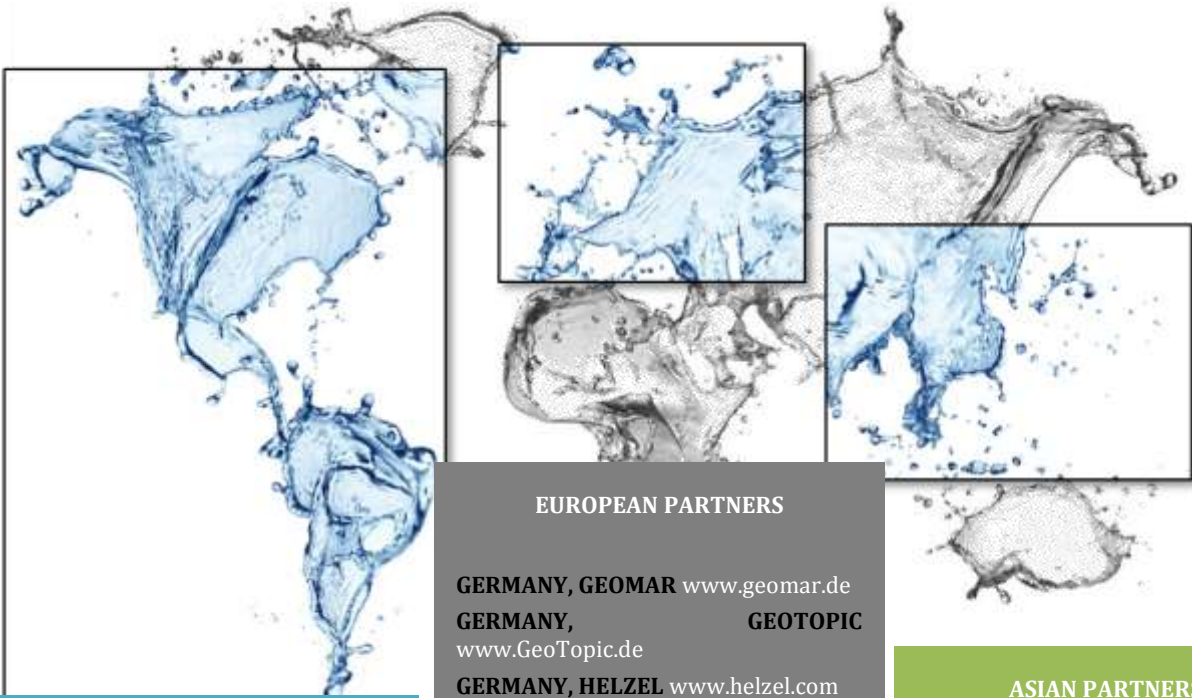
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Signatures

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Mexico	Veracruz, vice minister of environment	Zaira Ochoa Valvidia	
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Mexico	CEO Port of Tuxpan-II	Jose Reygadas	
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Vietnam	Haiphong, IMER – Institute of Marine Environment and Resources	Tran Dinh Lan	
Vietnam	Haiphong, RIMF Marine & Fisheries Research Institute	Nguyen Van Nguyen	

Participants



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MEXICO, Oceanographic Data Center (CENDO)
www.uabc.edu.mx

MEXICO, Oceanographic Research center of the navy
www.semar.gob.mx

MEXICO, Space Agency & CONABIO
www.aem.gob.mx

MEXICO, University of Veracruz
www.uv.mx

MEXICO, Veracruz, ministry of environment
www.semarnat.gob.mx

QUEBEC, CIDCO
www.cidco.ca

QUEBEC, Laval University/ Merinov
www.epaq.qc.ca

QUEBEC, OGSL
www.ogsl.ca

QUEBEC, Technopole Maritime
www.tmq.ca

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GERMANY, GEOMAR
www.geomar.de

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www.GeoTopic.de

GERMANY, HELZEL
www.helzel.com

GERMANY, IMARE
www.imare.de

GERMANY, Kiel Institute for the World Economy
www.ifw-kiel.de

GERMANY, KIEL University
www.corelab.uni-kiel.de

GERMANY, SEA & SUN Technologies
www.sea-sun-tech.com

GERMANY, SEVENCs
www.sevencs.com

IRELAND, National University
www.nuigalway.ie

IRELAND, SMARTBAY
www.smartbay.ie

ITALY, OGS (Italian Institute of Oceanography & Geophysics)
www.ogs.trieste.it/en

UK, Plymouth Marine Lab
www.pml.ac.uk

UK, Sea Scope Consultants
www.seascopeconsultants.co.uk

PORTUGAL, ALGAPLUS
www.algaplus.pt

PORTUGAL, Lisbon Technology University
www.maretec.pt

FRANCE, CLS
www.cls.fr

FRANCE, IFREMER
www.ifremer.fr

FRANCE, IPEV
www.ipev.fr

FRANCE, Marine Protected Areas
www.aires-marines.fr

FRANCE, Olmix
www.olmix.com

FRANCE, Telecom Bretagne
www.telecom-bretagne.eu
www.bretel.eu

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www.ubo.fr

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INDONESIA East Java government
www.eastjavacoop.jatimprov.go.id

INDONESIA, ITS University
www.its.ac.id

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www.kkp.go.id/en

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www.imer.ac.vn

VIETNAM, RIMF, Marine & Fisheries Research Institute
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NETWORKS

CVAA, CRPM, CVPP
www.atlanticcities.eu;
www.crpm.org;
www.cvpp.eu