EMODnet
European Marine Observation and Data Network

Black Sea Checkpoint

SEA BASIN CHECKPOINTS
LOT NO: 4 – BLACK SEA

Black Sea Checkpoint

Overview

- **Brief summary of Sea Basin Checkpoint principles**
- **BS checkpoint key figures and partnership**
- **BS checkpoint objectives**
- **BS checkpoint work plan**
- **BS checkpoint methodology**
- **BS checkpoint outputs**
- **BS checkpoint organization**

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Principles of the SEA BASIN CHECHPOINTS

- **Clarifying the observation landscape at the scale of the marine region**, highlighting existing national and international programs, and their roles and synergies;
- **Depicting fitness for purpose monitoring indices** that will show the performance, accessibility and usability of observational and modelling data sets in the overall marine region;
- **Identifying the gaps and prioritizing the needs in order to optimize the system** (in situ and satellite data collection and assembling, data management and networking, modelling and forecasting, geo-infrastructure) and release recommendations for evolutions to better meet the application requirements.

http://www.emodnet-mediterranean.eu/principles/

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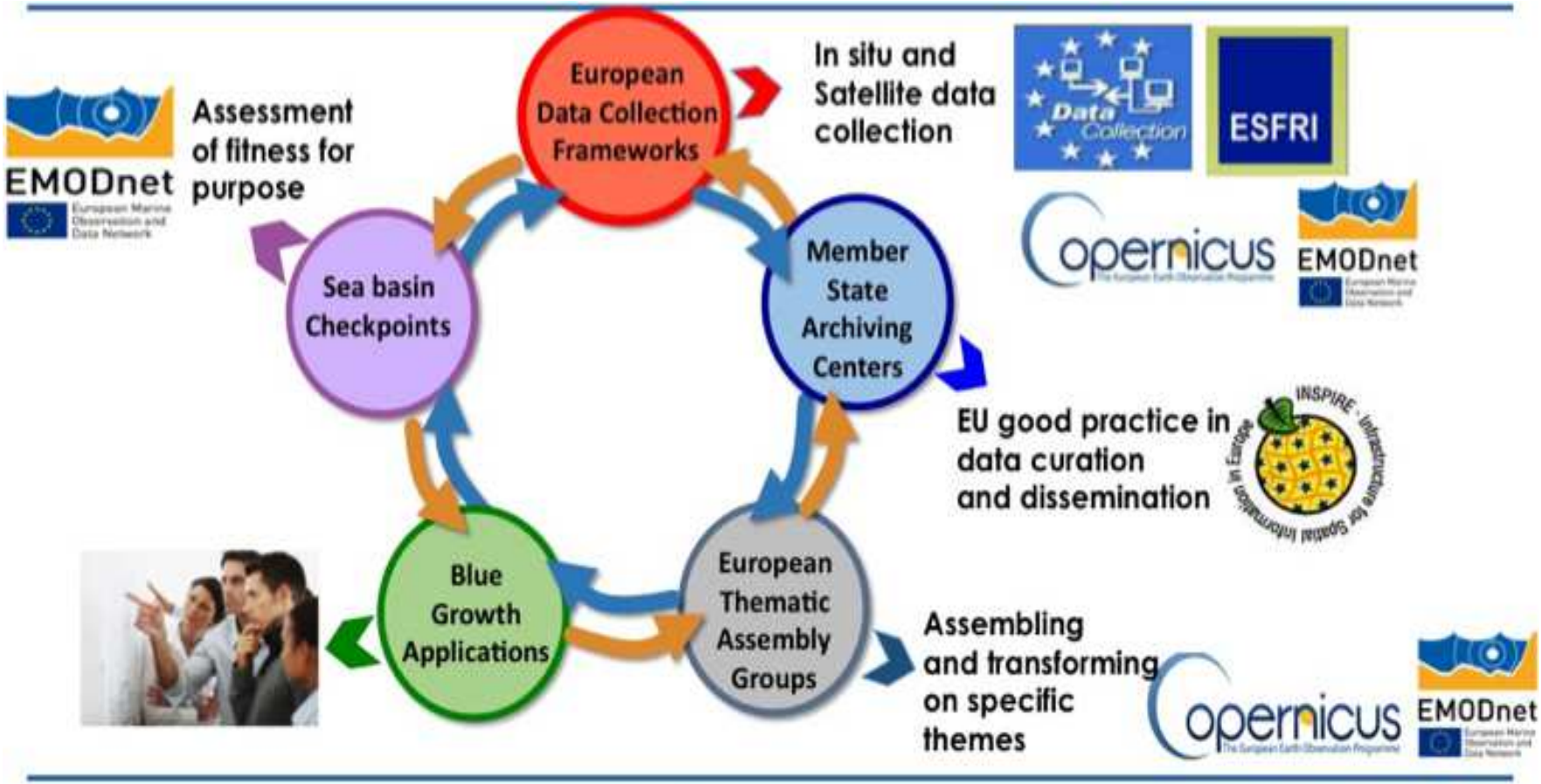

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Black Sea checkpoint: Key figures

- Start 15th of July 2015
- Duration 3 years
- Budget 895 000 €
- 8 partners from 7 countries
- 8 subcontractors
- Total of 11 countries represented
- 75 participants
- 162 man/ month

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The Partners

№	Partners name	Partner organization Acronym	Partner extended organization name and country
1	(Coordinaor) A. Palzov	IO-BAS	Institute of oceanology, Bulgarian Academy of Sciences, BG
2	L. Buga	NIMRD	National Institute for Marine Research and Development “Grigore Antipa”,RO
3	N.Pinardi	CMCC	Euro-Mediterranean Center for Climate Change, IT
4	F. Blanc	CLS	Collecte Localisation Satellites, FR
5	G. Kallos	NKUA	National and Kapodistrian University of Athens, GR
6	G.Zodias	ORION	ORION-Joint research and development centre, CY
7	E. Stanev	USOF	University of Sofia, BG
8	G.Shapiro,	UPL	Plymouth University, UK

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The Subcontractors

№	Subcontractors name	Subcontractor organization acronym	Subcontractor organization extended name and country
1	C. Cesarini	CLU	CLU, IT
2	C. Le Bris	IFREMER	Institut Français de Recherche pour l'Exploitation de la Mer, FR
3	A. Kideys	IMS	Middle East Technical University Institute of Marine Sciences, TR
4	T.Shiganova	SIO-RAS	P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, RU
5	K. Bilashvili	TSU	Ivane Javakhishvili Tbilisi State University, GE
6	R. Lisovsky	UkrSCES	Ukrainian Scientific Centre of Ecology of the Sea, UE
7	Ed Frost	RES	Renewable Energy Systems Limited, UK
8	G. Ungureanu	SCMR	SC Marine Research SRL, RO

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Objectives

1. Carry out a literature survey on existing EU marine programmes in the Black Sea, outlining the data sources, primary producers and intermediaries;
2. Produce indicators of the quality of present marine data systems in the Black Sea as well as specific outputs per challenge;
3. Produce an assessment of the quality, extract the synergies, and identify the gaps in the Black Sea monitoring system in view of the challenges (Data Adequacy Reports)
4. Develop an EMODnet Black Sea Portal that will publish all outputs from the challenges. In particular it will:

- assess, extract the synergies between, and identify the gaps of, the present monitoring data sets for the entire Black Sea.
- disseminate new products based upon the available data for 11challenges.

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Work plan

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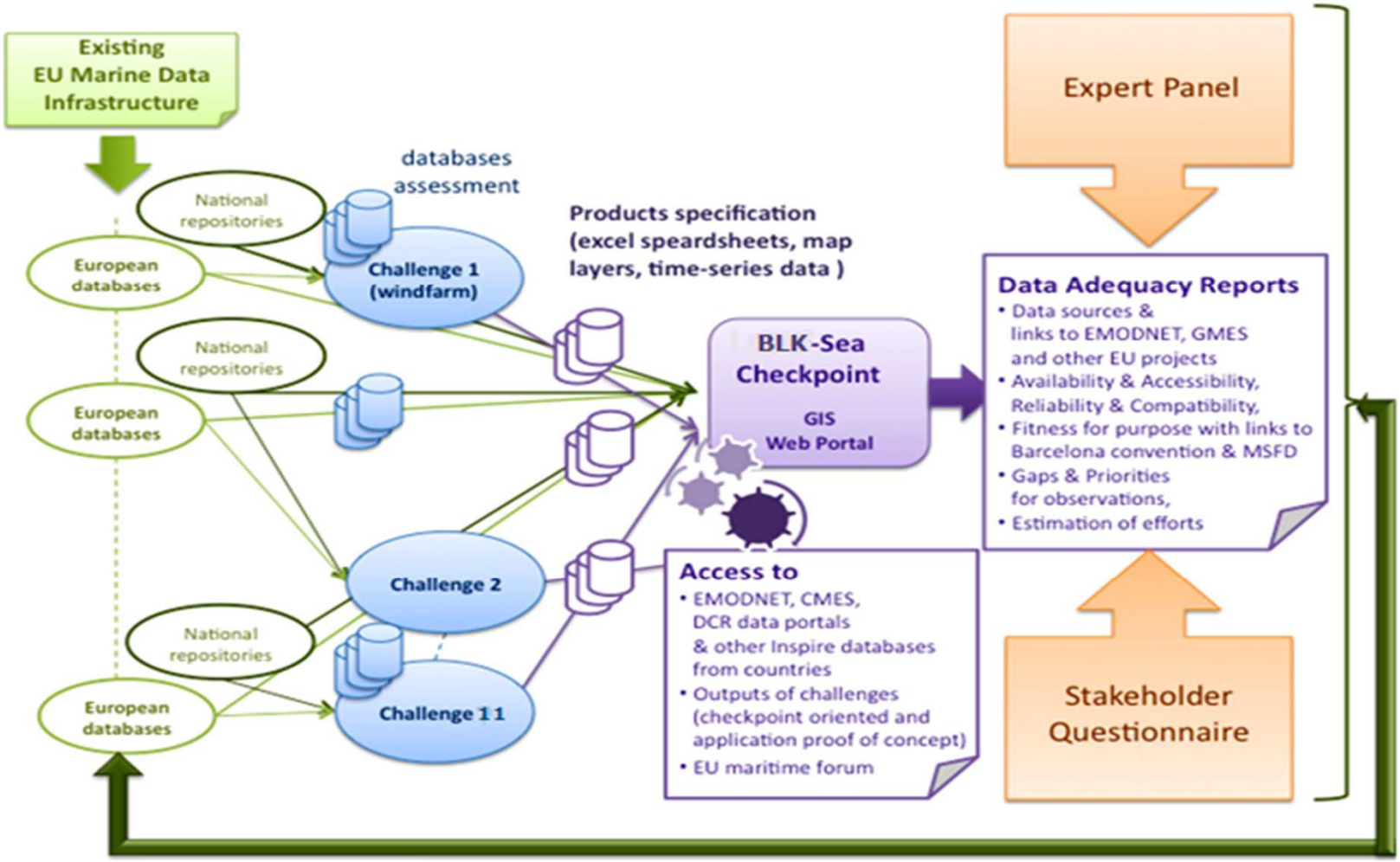
Methodology



Outputs

- A **literature survey** summarizing the monitoring characteristics of the system
- Two **Data Adequacy Reports (DARs)** to provide an overview of how fit for purpose the monitoring effort is, in view of the challenge of product development
- Two **expert panel reports**
- A **final report** indicating how the EMODnet Black-Sea checkpoint portal could operate once the project has finished
- Specific products from available primary and assembled datasets for each challenge in synthesis:

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Wind Farm Siting	Determine the suitability of sites for wind farm development in particular: • on border between Bulgarian and Romanian waters; • on border between Turkish and Bulgarian waters; • on border between Turkish and Georgian waters.
Marine Protected Areas	Analyse the existing Black Sea network of Marine Protected Areas
Oil Platform Leak	Issue a Bulletin within 24 hours to determine the fate and transport of oil from a platform leakage
Climate	Document in several ways water column annual mean temperature changes, ice coverage changes and abundance of three most abundant species of phytoplankton expressed as time series
Coast	Document in several ways sea level changes and sediment mass changes

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Fishery Management	Collect mass and number of fish landings, discards and bycatch (of fish, mammals, reptiles and seabirds) by species and year
Fisheries Impact	Produce data layers showing the extend of the fisheries imapct on the sea floor
Eutrophication	Seasonal average and changes of eutprohication in the basin over past 10 years
River input	Time series of all water discharges, sediment loading, total nitrogen and phosphates
Bathymetry	Produce a digital map of Black Sea water depth and uncertainty in water depth
Alien species	Provide a table and digital map of alien species in the sea basin

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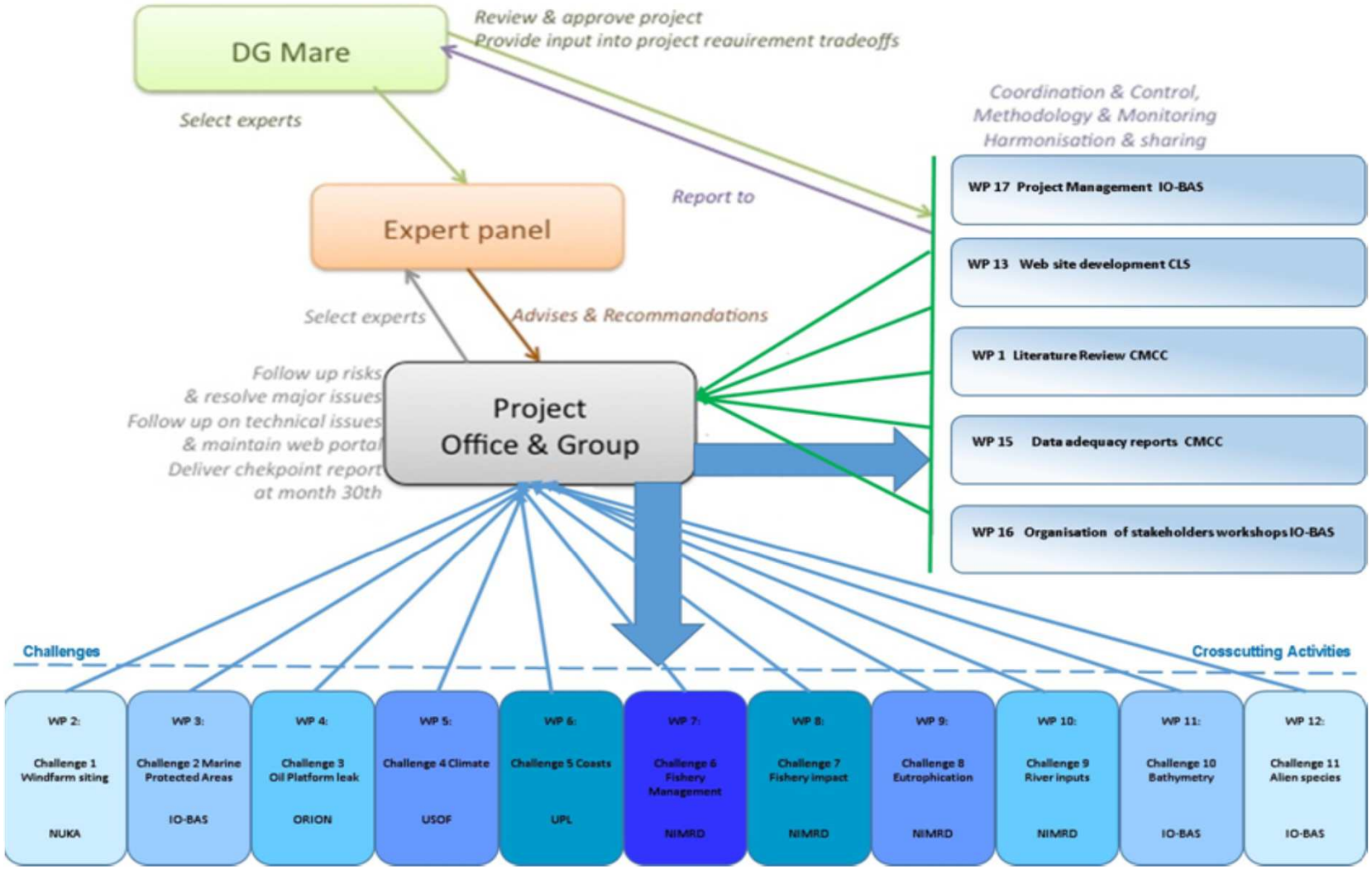
Organization