

3RD FORUM OF THE EU STRATEGY FOR THE ADRIATIC CATANIA 24-25 MAY 2018 AND IONIAN REGION

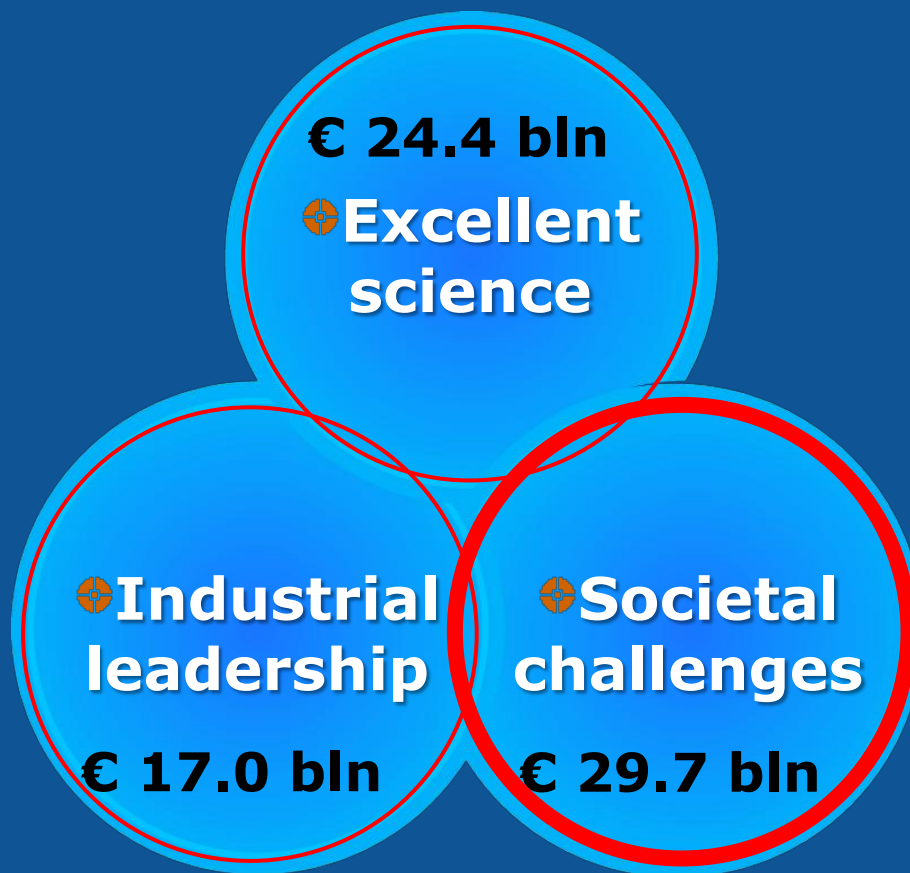
Opportunities for financing Research and Blue Innovation within Horizon 2020

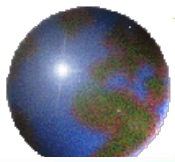
Fabio Fava | IT Rappresentative i) Horizon2020 SC2, ii)
BLUEMED initiative, iii) EUSAIR, iv) WESTMED
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OUR REGION OUR FUTURE

Horizon 2020: three priorities

Horizon2020, the EU Commission research and innovation funding programme (~79 Billion, 2014-2020)





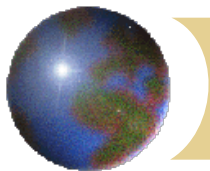
BLUEGROWTH & Societal Challenges (SCs)



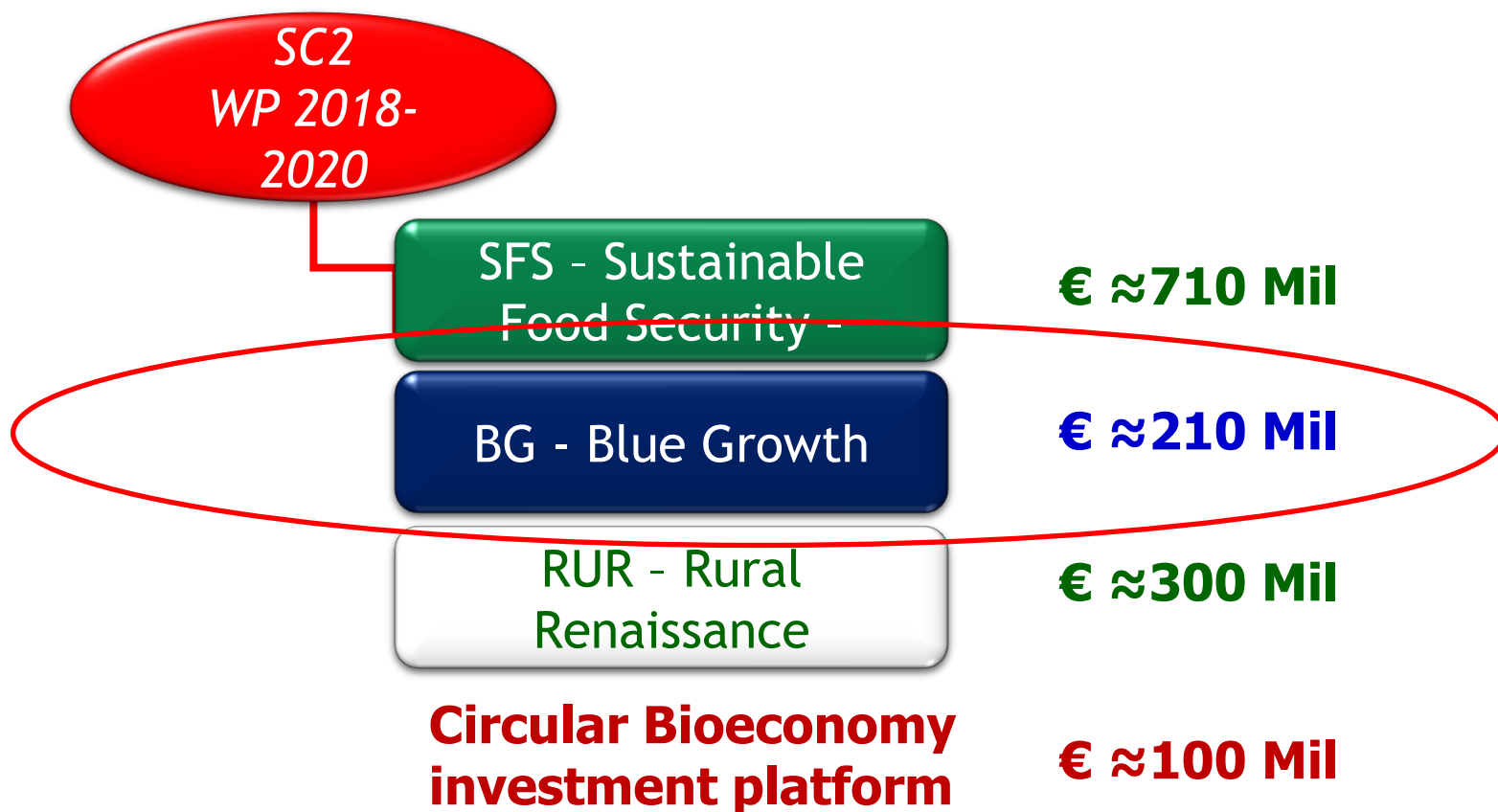
**Tackling
societal
challenges
for a better
society**

1. Health, demographic change and wellbeing (7.472 Bln)
2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research, and the bioeconomy (3.851 Bln)
3. Secure, clean and efficient energy (5.931 Bln)
4. Smart, green and integrated transport (6.339 Bln)
5. Climate action, resource efficiency and raw materials (3.081 Bln)
6. Inclusive, innovative and reflective societies (1.310 Bln)
7. Secure societies (1.695 Bln)

<https://ec.europa.eu/programmes/horizon2020/en/what-work-programme>



SC2: the new WP 2018-2020



<https://ec.europa.eu/programmes/horizon2020/en/what-work-programme>



BLUEGROWTH & SC2

BG-01-2018: Towards a Baltic and North Sea research and innovation programme

CSA, 2,5 mln€; Deadline: 13/02/2018; bgt:

BG-02-2018: Blue Bioeconomy Public-Public Partnership

ERANET, 8 mln€ Deadline: 13/02/2018; n. p. funded: 1;

LC-BG-03-2018: Sustainable harvesting of marine biological resources

RIA, 12 mln €; Deadline: 13/02/2018 1st stage; 11/09/2018 2nd stage; n. p. funded: 2;

DT-BG-04-2018-2019: Sustainable European aquaculture 4.0: Breeding and Feeding

2018 IA, 18 Mln €; Deadline: 13/02/2018; n. p. funded: 2-3;

2019: IA, 6 Mln €; Deadline: 23/01/2019; n. p. funded: 1;

BG-05-2019: Multi-use of the marine space, offshore and near-shore: pilot demonstrators. IA 18 Mln €; Deadline: 23/01/2019; n. p. funded: 2;

CE-BG-06-2019: Sustainable solutions for bio-based plastics on land and sea

IA, 18 Mln € Deadline: 23/01/2019; n. p. funded: 2;

BG-07-2019-2020: The Future of Seas and Oceans Flagship Initiative

IA, 18 Mln €, Deadline 2019: 23/01/2019; n. p. funded: 3;

BG-08-2018-2019: All Atlantic Ocean Research Alliance Flagship

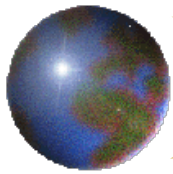
CSA, 4 mln € Deadline: 13/02/2018 1st stage; 11/09/2018 2nd stage;

RIA/IA, 27 mln € Deadline: 23/01/2019 1st stage; 04/09/2019 2nd stage; n. p. funded: 2

LC-BG-9-2019: Coordination of marine and maritime research innovation in the Black Sea: CSA, 2 mln€ Deadline: 23/01/2019;

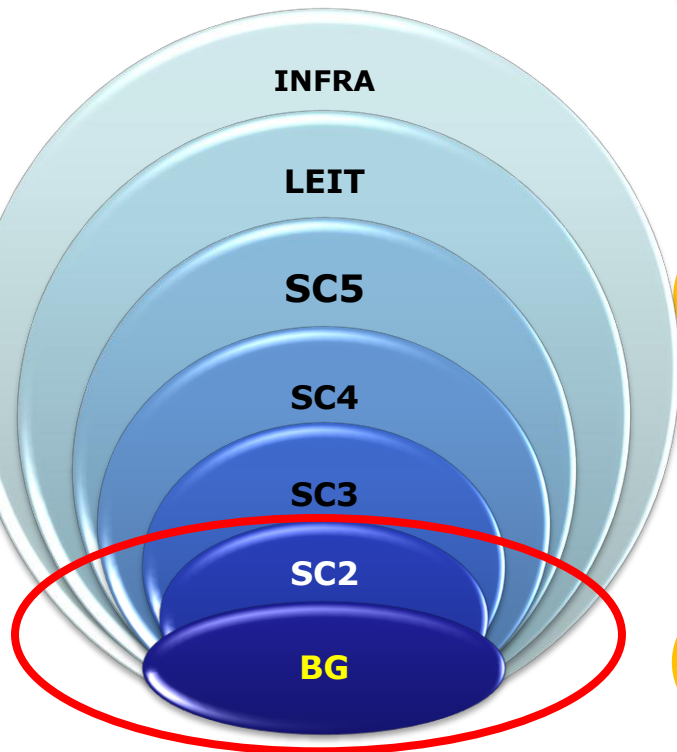
LC-SFS-17-2019: Alternative proteins for food and feed. Deadline: 23/01/2019;

IA, 32 mln€; n. p. funded: 4;



BLUEGROWTH: opportunities in other SCs

SOCIETAL CHALLENGES



SC3 Energy

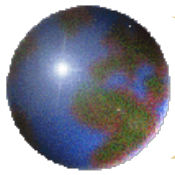
- wave energy
- floating wind farms
- aquatic biomass biofuel
- offshore storage of CO₂
- Shipping renewable fuel
- Energy islands

SC4 Transport

- Innovative ships
- autonomous ships
- ship emissions
- unmanned activities
- underwater noise
- maritime transport safety
- Marine accidents response

SC5 Climate

- Climate change, biodiversity and ecosystems
- recovery of sea resources
- sea level changes
- Cryosphere



BLUEGROWTH in SC3 and SC4

LC-SC3-RES-11-2018: Developing solutions to reduce the cost and increase performance of renewable technologies

Deadline: 31/01/2018 (1st stage) and 23/08/2018 (2nd stage); bgt: between 2 and 5 mln€; total budget: 30 mln€; RIA

LC-SC3-RES-13-2018: Demonstrate solutions that significantly reduce the cost of renewable power generation

Deadline: 13/02/2018; bgt: between 15 - 20 mln€; total budget: 45 mln€; IA

LC-SC3-ES-4-2018-2019-2020: Decarbonising energy systems of geographical Islands

*Deadline: 5/04/2018; bgt: between 7 and 10 mln€; total budget: **20 mln€**; IA*

LC-MG-1-8-2019: Retrofit Solutions and Next Generation Propulsion for Waterborne Transport

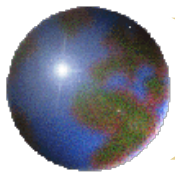
*Deadline: 16/01/2019 (1st stage) - 12/09/2019 (2nd stage) ; bgt: between 5 and 8 mln€; total budget: **8 mln€**; type of action: IA*

MG-2-2-2018: Marine Accident Response

Deadline: 30/01/2018 (1st stage) and 19/09/2018 (2nd stage); bgt: between 7 and 12 mln€; total budget: 35 mln€; IA/RIA

MG-2-6-2019: Moving freight by Water: Sustainable Infrastructure and Innovative Vessels

*Deadline: 16/01/2019 (1st stage) - 12/09/2019 (2nd stage) ; bgt: between 5 and 10 mln€; total budget: **30 mln€** ; RIA*



BLUEGROWTH in SC4 and SC5

MG-3-2-2018: The Autonomous Ship Deadline: 30/01/2018 (1st stage) and 19/09/2018 (2nd stage); bgt: between 10 and 20 mln€; total budget: 20 mln€; IA

MG-BG-01-2018: Unmanned and autonomous survey activities at sea:
Deadline: 4/04/2018 ; total budget: 8 mln€; RIA

MG-BG-02-2019: Ship emission control scenarios, marine environmental impact and mitigation Deadline: 24/04/2019 ; total budget: 8 mln€; RIA

LC-CLA-02-2019: Negative emissions and land-use based mitigation assessment Deadline: 19/02/2019 (1st stage) and 04/09/2019 (2nd stage) ; bgt: between 5 and 7 mln€; total budget: 22 mln€ ; RIA

LC-CLA-06-2019: Inter-relations between climate change, biodiversity and ecosystems services Deadline: 19/02/2019 (1st stage) and 04/09/2019 (2nd stage); bgt: between 5 and 7 mln€; total budget: 25 mln€; RIA

LC-CLA-07-2019: The changing cryosphere: uncertainties, risks and opportunities: CSA, 2 mln € Deadline: 19/02/2019; 4 sub-topics;, RIA, 39 mln€, deadlines: 1st stage: 19/02/2019 and 2nd stage: 04/09/2019

LC-CLA-08-2018: Addressing knowledge gaps in climate science, in support of IPCC reports Deadline: 27/02/2018 (1st stage) and 04/09/2018 (2nd stage); 3 sub-topics; total budget: 60 mln€; RIA

SC5-09-2018-2019: New solutions for sustainable production of raw materials. Deadline: 27/02/2018 (1st stage) and 04/09/2018 (2nd stage); 3 sub-topics; total budget: 20 mln€; RIA

A Public-Private Partnership on Bio-Based Industries



Realising the European Bio-economy Potential

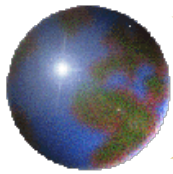
€ 3.7 Billion 2014-2020
27% from EU commission

Supported by



<http://www.bbi-europe.eu/>

 Bio-based Industries
Consortium



The BBI JU: some priorities of WP2018

BBI 2018. SO1.R1 – Resolve logistical, infrastructural and technological challenges to valorise residual and side streams from aquaculture, fisheries and the aquatic biomass processing industries.

RIA, 2-5 €Mln. Expected TRL4-5.

BBI 2018 SO2.R4 – Apply advanced biotechnologies to convert biomass that contains inhibitors into high value-added chemicals and materials.
RIA

- ✚ **Final TRL** for the bio-based value chain in question: at least **3**. The starting one may be as low as 1 or 2.
- ✚ The proposals requesting a BBI JU contribution of between **1 and 2.5 € Mln** would allow the specific challenge to be addressed appropriately.

BBI 2018. SO3.D5 – Produce sustainable and cost-efficient high-performance functional ingredients from alternative sources.

IA 7 €Mln. Final TRL 6-7.

www.bbi-europe.eu/sites/default/files/documents/AWP%20and%20budget%202018%20adopted.pdf



COOPERATION BLUEMED
*(RESEARCH AND INNOVATION
INITIATIVE FOR BLUE JOBS AND
GROWTH IN THE MEDITERRANEAN
AREA) AND EUSAIR*

The BLUEMED initiative: objective and process

The BLUEMED Initiative fosters integration of knowledge and efforts of Countries of the MED to jointly create new 'blue' jobs and sustainable growth in the area.

It was a priority of the Programme of the IT Presidency of the Council of the European Union; IT implemented it in close cooperation with CY, HU, FR, GR, MT, SI, ES, PT and BE, and the EU commission (DG RTD, DG MARE).

April 2014 >>
Priority of the
Programme of
the Italian
Presidency of
the EU Council

Nov 2015 >>
UfM Ministerial
Declaration on
BlueEconomy

April-May 2017 >> **BLUEMED-
UfM Conference & Valletta
Declaration signed by UfM, 28
EU MS and Commissioners
Moedas & Vella**

Oct 2015 >> **Venice
Declaration endorsed
by 10 EU Member
States and launch of
the BLUEMED
Strategic R&I Agenda**

Oct 2016
**BLUEMED
CSA and
other
projects
started**

Nov 2017>>
**BLUEMED WG
EuroMed GSO
launched**

BLUEMED Strategic R&I Agenda: 12 Key Challenges

Key enabling knowledge for the Mediterranean

- *Mediterranean Sea ecosystems: services, resources, vulnerability and resilience to natural and anthropogenic pressures*
- *Mediterranean Sea dynamics: developing services in the field of sustainable development*
- *Protection of marine areas in the Mediterranean*

Key sectorial enablers in the Mediterranean

- *Innovative business based on marine bio-resources in the Mediterranean*
- *Ecosystem-based management of Mediterranean and coastal areas*
- *Marine clusters in the Mediterranean*
- *Maritime Spatial Planning & Integrated Coastal Zone Management in the Mediterranean*

Enabling technology and capacity creation for the Mediterranean

- *Smart, greener maritime transport and facilities in the Mediterranean*
- *Development of capacities in the Mediterranean*
- *Multi-purpose off-shore platforms in the Mediterranean*
- *Marine and coastal cultural heritage in the Mediterranean: discovering, protecting and valuing*

http://www.blued-med-initiative.eu/wp-content/uploads/2017/09/BLUEMED-SRIA_Update_final.pdf

BLUEMED initiative: impacts

**BlueLabs/BlueTechnology 2016 calls (DG MARE)
6 topics under BG call in H2020 SC2 WP16/17 (DG RTD)**

BG-07-2017: Blue green innovation for clean coasts/seas (IA,12M, 2017) **CLAIM** and **GoJelly**

BG-12-2016: Towards an integrated Med Sea Observing System (IA, 8M, 2016) **ODYSSEA**

BG-13-2016: Support to the BLUEMED Initiative: Coordination of marine and maritime research and innovation activities in the Mediterranean (CSA, 3M, 2016) **BLUEMED**

SFS-20-2017: Towards a science-based regionalisation of the Common Fisheries Policy (RIA,6M, 2017)

SFS-21-2016/2017: Advancing basic biological knowledge and improving management tools for commercially important fish and other seafood species (RIA,5M) **FAR FISH (2016)**

SFS-23-2016: Improving the technical performance of the Mediterranean aquaculture (RIA, 6M, 2016) **MedAID** and **PerformFISH**

Other H2020 R&I projects addressed to boost blue growth in the Mediterranean area are ongoing (<http://www.blued-med-initiative.eu/mediterranean-h2020-projects/>)

CSA Platforms: a tool for stakeholders' consultation and engagement

Facilitate BLUEMED SRIA adoption by each BLUEMED Country;

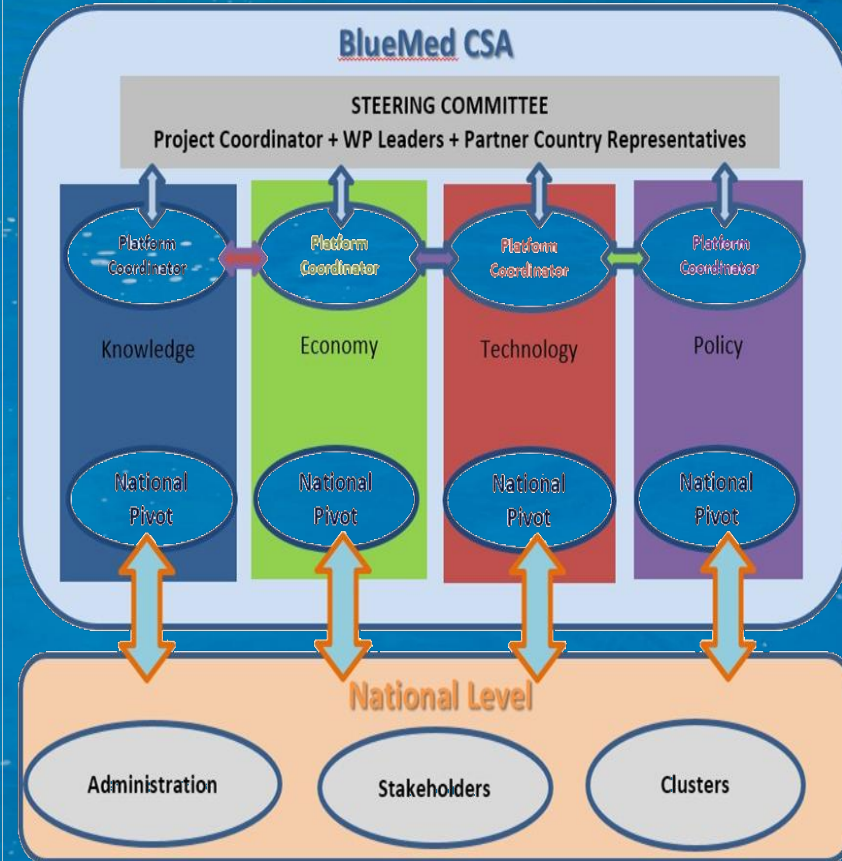
Engage non-EU MED Countries in the process and facilitate joint actions like BLUESEALAND FESTIVAL, PLASTIC BUSTER, etc;

Promote cooperation among initiatives/actors active in the area:

□ "EU Strategy for the Adriatic Ionian Region" (EUSAIR) and "Western Mediterranean initiative" (WEST MED)

□ CIESM, CIHEAM, CPMR, GFCM, INTERREG MED, UNEP-MAP, Bologna Chapter, UNIMED, etc;

□ major ongoing EU/international projects (R&I, training, education), technology clusters and platforms active in the whole MED.





BLUEMED & EUSAIR

There are links between BLUEMED SRRIA challenges/goals/actions and objectives/actions of the four EUSAIR Pillars.

Actions so far:

- Joint Meeting at first EUSAIR Forum (Dubrovnik, May 2016)
- Joint Meeting at Ecomondo (Rimini, Nov 2016)
- Bluemed at EUSAIR Governing Board (Ancona, Oct 2017)
- BLUEMED at 8th EUSAIR/TSG IV (Sustainable Tourism) and proposals to appoint a contact person for Bluemed (Zagreb, Apr 2018)
- Fabio Fava (Italy) appointed as focal point of TSG1 for the BLUEMED Initiative (Athens, May 2018)

Possible Future joint actions:

Promote synergies, integration and capitalization of ongoing and starting projects on topics of common interest funded through different programmes (H2020, ETC Programmes, DG Mare calls & tenders, national funds, etc.)

Align agendas and actions, identify a list of priority R&I actions, identify of options for joint implementation of the actions, including specific joint EUSAIR-BLUEMED Pilot Actions.