Connect to the ocean and drive changes together!

EU4OCEAN COALITION

Mastering the Paradigm Shift in Education for Blue Careers

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Black Sea Universities Network

www.eu-oceanliteracy.eu

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Organized by
Organization name
Content

• Strategic Research & Innovation Agenda on Blue Growth in the Black Sea Region
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• Conclusions
Black Sea Universities Network

**Aim:** The Network was founded for the purpose of developing scientific, cultural and educational cooperation and exchanges among the Universities of the Black Sea Economic Cooperation Participating States and other institutions with similar concern for the sustainable development of the BSR

**Members:** 115 Universities of 12 BSEC member countries

**Bodies:** Conference of Rectors of BSR, Executive Board, President, IPS

**Centers:** Center for Advanced Engineering Sciences (Romania), “B. S. Cobanzade” Research Center on Turkology, Baku State University, Center ACADEMICON (Turkey), Center for Coordination of Common Graduate Programs (Greece), Center for Coordination of Summer Schools & Short Term Certificate Courses (Ukraine), Center for Joint Research Projects (Azerbaijan), Center for BSUN Publications (Bulgaria)

**Consortia:** BSUN Consortium on Economics & Business, Consortium on Oral Health, Consortium on Tourism, Consortium on RES.

**Web site:** [Http://www.bsun.org](Http://www.bsun.org)
Network of universities / Network university
Cloud Universities
BSUN Priority Themes

• Sustainable Development
• Networking on Innovation and Knowledge Transfer
• Energy Security & Renewable Energy Sources
• Advanced & Multifunctional Materials
• IT&C - Networking & High Performance Computing
• E-health & Telemedicine
• Social & Cultural Cohesion in the BSR
Intellectual Social Responsibility

• Multivalent logic
• Synthetic thinking
• Integrative learning
• Focus on results
• Generate Synergies
• Be part of a team!
• And Try to MAKE ....a little bit BETTER on Earth!
The Paradigm Shift

• From fixed knowledge to asking good questions;
• From learning as a product to learning as a process and a product;
• From the teacher as an expert to expert and consultant;
• From looking at the student as empty frames to competent learners;
• From teaching as “chalk and talk” to learner centered approaches.
The New Goals in Teaching

- Learning to learn;
- Coping with changes;
- Competence in relations;
- Proactive attitude to entrepreneurship & innovation.
Entrepreneurship & innovation

Entrepreneurship and innovation is a specific approach or strategy to life and learning. It means that you have the attitude and skills to affect and influence your life, your society and take responsibility for active participation.
Tentative Profile

• To take initiative;
• To be creative;
• To communicate in different contexts;
• To search for possibilities and to discover and see new possibilities;
• To sell ideas;
• To run risks and take responsibility;
• To implement ideas and take actions;
• To make products and services of values in life and business.
Teaching Approaches

• Asking good questions;
• Critical thinking;
• Commitment;
• Independence;
• Cooperative attitude;
• Action thinking;
• Responsibility.
Teaching Approaches

• In which ways are you strong?
• What are your interests?
• What aspects of yourself would you like to develop?
• Which subject areas would you like to be better at?
Individuals vs Teams

• What are you good at together with others?
• What are you good at alone?
• Which interests do each of you in your team have?
• What would you like to create?
• How would you like to be challenged?
Open Education
Black Sea CONNECT Project

Objectives

Black Sea CONNECT is a key H2020 coordination and support action (CSA) which will scientifically, technically and logistically support the broader Black Sea Blue Growth Initiative, supported by the European Commission (EC) and composed of country-appointed experts, stakeholders and various national and international organizations.

Black Sea CONNECT is the first project in its own field for Black Sea. The overall objective of the Black Sea CONNECT is to coordinate the development of the Strategic Research and Innovation Agenda (SRIA), based on the defined principles in the Burgas Vision Paper and support the development of the Blue Growth in the Black Sea.

The SRIA and its Implementation Plan will guide stakeholders from academia, funding agencies, industry, policy and society to address together the fundamental Black Sea challenges, to promote blue growth and economic prosperity of the Black Sea region, to build critical support systems and innovative research infrastructure and to improve education and capacity building.
Description of Work

Educational activities. Educational activities focusing on the sustainable use of marine resources and marine environment protection will be addressed to primary and secondary school students (6-17 years old) of selected Black Sea countries, by the following actions:

• A generic training course will be organized with a theoretical (thematic seminars, lessons) and practical section (interactive software, educational experiments and games). The activities shall be embedded to, the larger educational programme “I Know and Protect My Seas”. The training course will be carried out in 5 meetings held between months 24 and 28 of the project, with a total of 150 students educated. The programme will be replicated also in some selected Black Sea countries.

• Facilitating the bridging of formal education courses in schools organised with specialized museums and aquariums, micro-reservations from riparian countries and collaboration with specialized NGOs and Scouts organizations.
Description of Work

• Establishing and maintaining open micro-labs for children to interact easily and sustainably with nature, flora and fauna of the Black Sea.

• Organising an online archive of short movies, personal video records, photos and other study materials, focusing on multi media.

• Facilitating the establishment of a network of summer school camps for children to encourage exchange of ideas on environmental issues specific to the various Black Sea coastal areas.
Description of Work

Online Training Platform Using the platform www.BSUN.org for online courses and the procedures for facilitating the delivery of open online courses on topics related to the Implementation Plan for a large variety of experts acting within some specialized organizations or as freelancers such as teachers, sailors, biologists and other specialists there will be developed. This shall lead to the establishment of a Massive Open Online Course – MOOC on Blue Growth in the Black Sea Region.

Hackathons (Active involvement for Problem Solving): There will be organized as itinerant events around the Black Sea region in the form of small group camps for young students and researchers building Cooperative Problem-Solving Teams to address some very specific problems related to the Implementation Plan in different regions.

Black Sea Observatory on Blue Growth: A section in the project website dedicated to the indexing of open publications on topics related to the Implementation Plan in order to facilitate the exchange of scientific results via open science actions, internet-based gatherings of scientists, policy makers and civil society to maximize the impact the science diplomacy in the region.

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Description of Work

**Science Fairs:** Events like European Researchers' Night and science festivals aiming to integrate/translate scientific information to a non-academic public.

**Mobile caravan:** BSUN has an adequate car that shall be organized as a mobile caravan. By developing digital applications based on multimedia and Augmented Reality (AR) technologies and their dissemination through the mobile caravan in the target areas, a large impact dissemination towards a large variety of population segments shall be obtained.

**Gaming of Blue Growth in the Black Sea:** The Black Sea CONNECT will engage known software companies to create a game which have some simplified models on ecosystems services connected with blue growth principles especially under human impact scenarios (fisheries, energy and tourism).

**Art Fairs:** A series of art events, such as photo contest and/or film festival will engage artists and the general public in expressing their views, concerns and relationship to the sea and its sustainability.
Thank you

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