11th International Black Sea Symposium — A collective recovery for the Black Sea Region in the post-covid era | ICBSS



GLOBAL CHALLENGES & SCIENCE DIPLOMACY: DEVELOPMENT AND INNOVATION TO BUILD FORWARD AFTER THE PANDEMIC

Anton Afanasyev, PhD

State expert on Science & Technology, Authorized representative for International Relations with the BSEC Member States, Senior Researcher at Southern Federal University

April 2021

The global pandemic and international cooperation



- Scientists are rapidly expanding global cooperation.
- Collaboration between scientific and expert communities intensifies.
- Active exchange of information (bioRxiv, medRxiv, ChemRxiv, arXiv).
- The global nature of the threat motivation to overcome any barriers.
- Solving a global challenge requires joint efforts.



Percentage of scientific publications indexed in the international databases in 2019-2020 (by the authors affiliation).



Opportunities for cooperation based on scientific diplomacy.







Α

Digital transformation, artificial intelligence, digital, additive technologies, robotic systems, new materials, biotechnology, personalized medicine, etc. International digital cooperation.









- International cooperation in space (boosting innovation and technological advancement).
- Earth Observation (EO) and geolocation in supporting the achievement of the development goals.
- Space-based services and technologies are key in understanding climate change, etc.









- Decade of Ocean Science for Sustainable Development (2021-2030)
- Sustainable Development Goal 14: Life Below Water
- Ocean exploration, alternative energy, green technologies, blue economy, conservation and efficient use of marine resources, etc.







Ocean

Α



Space





THE BLACK SEA ACADEMIC AND RESEARCH COOPERATION FACILITATION ASSOCIATION

DIVE INTO DATA-DRIVEN DECISION MAKING FOR MULTILATERAL SCIENCE, INNOVATION AND EDUCATION COOPERATION



ABOUT THE **BSAARC** INITIATIVE



The BSAARC FA is a platform for facilitation and promotion of international multilateral cooperation in the field of science, innovation and education. The Association is open for participation of universities, education and research institutes, innovative enterprises and other entities (regardless of their organizational and legal forms), as well as individuals involved in the field of science, innovation and education, willing to contribute to the development of the Black Sea Region.



The BSAARC Association is based on the *quintuple helix* innovation model and focuses on the increasing role of sustainable utilization of human potential and digital technologies, ensuring the balance and the synergy of resources to promote efficient training and learning process, as well as breakthrough research and economic growth in the Black Sea Region in the context of global and regional challenges, inter alia related to the Forth industrial revolution and the achievement of the SDGs.



The BSAARC Digital platform provides information on the priorities of the stakeholders in the BSEC Region in the field of education, science and innovation and allows members of the BSAARC FA to find common areas of cooperation, facilitating data-driven decision-making and implementation of STI projects and educational initiatives.

DIVE INTO DATA-DRIVEN DECISION MAKING FOR MULTILATERAL SCIENCE, INNOVATION AND EDUCATION COOPERATION



Ranking of the BSEC Member States in the Global Innovation Index (GII, 2020).



The BSEC Region economies according to the Doing Business Index (out of 190 countries), Doing Business 2020.



Unemployment, total (% of total labor force), World Bank, modeled ILO estimate.



* based on the responses of the academic community from the wider Black Sea Region (more than 150 participants from 13 countries) during the international conference "The role of higher education in the development of the society, economy and culture in the Black Sea Region in the context of the global pandemic", March 2021

Do you think that the remote work is convenient and comfortable for most of teachers / researchers? Do you think that the remote learning is convenient and comfortable for most of students? Do you think that the remote format is effective for international cooperation?





- Yes, but only when a real human contact is impossible.
- No, it is imperative to have personal interaction.

Have you acquired new digital skills during the pandemic?

While working / learning remotely your communication skills:

After the global pandemic, how'd you prefer to learn in master's programs / training courses:



How do you feel about keeping remote learning in schools after the pandemic?



How do you feel about keeping remote learning in universities after the pandemic?



Do you consider international cooperation in the Black Sea Region in the field of education sufficient? What is the main obstacle to the implementation of joint international educational and scientific programs?

What is the main advantage in the implementation of joint international programs and projects?





- A language barrier
- No financial support
- Insufficient international interaction
- Lack of information about foreign partners



Networks (type of cooperation)

- Previous experience of cooperation
- Personal connections
- New technologies and digital platforms

Do you consider international cooperation in the Black Sea Region in the field of tourism sufficient? Do you think international cooperation in the Black Sea Region in the field of ecology is sufficient?

What is in your opinion the main obstacle to the implementation of joint international programs in the field of ecology?



Lack of communication



THE SURVEY



https://forms.office.com/r/kL44gsv7Gf

11th International Black Sea Symposium — A collective recovery for the Black Sea Region in the post-covid era | ICBSS

Thank you for your attention!

Anton Afanasyev, PhD

State expert on Science & Technology, Authorized representative for International Relations with the BSEC Member States, Senior Researcher at Southern Federal University, Co-founder of the BSAARC Initiative