

Progress Report for the Renewal of a UNESCO Chair or UNITWIN Network

The purpose of this Progress Report is to update the Secretariat about activities of the UNESCO Chair or UNITWIN Network since their establishment relative to the objectives in the signed Agreement (Article 2), with a focus on the last four years. UNESCO Chairs and UNITWIN Networks seeking renewal should share their proposed workplans and consider areas in which the Chair or Network might be further strengthened, including enhanced cooperation between higher education institutions, other UNESCO Chairs and UNITWIN Networks, and UNESCO entities worldwide.

The Secretariat welcomes comprehensive reports of the activities, outputs and contributions of UNESCO Chairs and UNITWIN Networks. The report can be uploaded as an attachment and relevant information extracted to complete this Progress Report form.

When preparing the Progress Report, please refer to the criteria for establishment of a UNESCO Chair or UNITWIN Network in the revised version of [The UNITWIN/UNESCO Chairs Programme: guidelines and procedures](#) (Annex B), which will be used to assess requests for renewals.

For more information, please contact: unitwin@unesco.org

Title of the UNESCO Chair or UNITWIN Network as mentioned in the Agreement	UNESCO CHAIR FOR SUSTAINABLE DEVELOPMENT
Chair/Network ID (if known)	
Reporting period: YYYY-YYYY	2020 – 2023

I. PROGRESS REPORT

a. Summary of Main Achievements

Please describe the overall progress of the Chair or Network as a member of the UNITWIN/UNESCO Chairs Programme and 3-5 main achievements relating to its Objectives, including one from the last four years. Illustrate how the Chair or Network and its activities have contributed to UNESCO's mission, mandate and priorities, programme, and its impacts on intended beneficiaries. For this reporting period, highlight examples of publications, conferences, community engagement, collaborative research partnerships, international cooperation, and student/staff exchanges or a combination of these. [750 words max]

The Chair promotes an integrated system of education, research, information and documentation on environmental protection and sustainable development. This contributed to the cooperation of KazNU named after. Al-Farabi with the SCO University, the UNESCO regional office, UNESCO MAB Kazakhstan, as well as other organizations.

During the reporting period, the department held: International scientific conference of students and young scientists "Farabi Aleml", (2019-2023); International Student Forum: "Green Bridge across Generations" (2020, 2021, 2022); International scientific and practical conference "Global challenges of the 21st century and the environment", dedicated to the 10th anniversary of the UNESCO Chair for Sustainable Development (2021); round table on the topic: "Implementation of sustainable development goals: problems and opportunities", 2022; international webinar on the topic: "Increasing the role of universities in the implementation of the SDGs" (2023), the first international conference "New path to economic decarbonization (KZGT-2023)".

Books and tutorials

1. Mukanova G.A. and others. Management of reclamation of disturbed lands in open-pit mines, 2020
2. Orazbaev A.E., Bazarbaeva T.A., Mukanova G.A., Baiseitov D.A., Tanabekova G.B. Ecology is a great student. , 2021.
3. Tazhibayeva T.L., Voronova N.V., Tanybaeva A.K. Ecological knowledge, 2021.-158 b.
4. Voronova N.V., Abubakirova K.D., Tanybaeva A.K., Rysmagambetova A.A. Humen ecologies. 2021.- 299 b.
5. Khazimov M.Zh., Baiseitov D.A., Satarbaeva A.S. Elektro kondyrgylarynda g y elektro kauipsizdigi: 2021. – 95 b. (in kz)
6. Abubakirova K.D., Kakimzhanov E., Voronova N.V., Tanybaeva A.K. Resource science. Educational and methodological manual. 2022.
7. Tusupova B.Kh. Ecological normal. 2021.
8. Bazarbaeva T.A. Mukanova G.A. Boribay E.S. Ecological monitoring. - Educational and methodological manual, 2022.
9. Orazbaev A.E. Biogeochemistry.,2022.
10. Tazhibayeva TL Biorisk management in life sciences.,2023.
11. Voronova N.V., Baiseitov D.A., Minzhanova G.M. and others. Ecology.Natura, 2021.

Publications:

Bergeneva N.S., Rysmagambetova A.A. Disaster Risk Reduction, Kazakh University Newspaper-No. 18 (1769)

1. Bazarbayeva TA Structural organization and dynamics of geosystems of river basins in the south-eastern part of the Pre-Balkash region - Almaty: Qazaq University, 2021. – 176 rub.
2. Khamitova K.K., Umbetbekov A.T., Mukhitdinov A.M. Sustainable environmental management and "green" technologies // Turki aleml.- 2022-№1-2, p.31.
3. Farina A., Mullet T.C., Bazarbayeva T.A., Tazhibayeva T., Polyakova, S., Li P. Sonotopes reveal dynamic spatio-temporal patterns in a rural landscape of Northern Italy // Frontiers in Ecology and Evolution, 2023

4. Jashenko R.; Tanabekova G.; Lu Z. Assessment of Biological and Ecological Characteristics of Sievers Apple Tree Pests in Trans-Ili Alatau, Kazakhstan// Assessment of Biological and Ecological Characteristics of Sievers Apple Tree Pests in Trans-Ili Alatau, Kazakhstan, 2023

Monographs

1. Mukanova G.A. Soil science, 2020
2. Abdibattaeva M.M., Bisenov K.A. Kun energysyn paidalanumen munai kuramdy kaldyktardy kadege asyru: monograph – Almaty: Kazakh University, 2021. – 313 b.
3. Mansurov Z.A., Doszhanov E.O., Lodewyckx P., Velasco LF, Azat S. Synthesis and application of carbon materials for the separation of mixtures of toxic gases, monograph - Almaty: Kazakh Universities, 2022.
4. Ongarbaev E.K., Akkazin E.A. “Tar: composition, purification and processing” - Almaty: Daryn, 2023.

Cooperation with UNESCO Headquarters, Field Offices

- Advanced training courses for journalists “Environmental journalism within the framework of sustainable development goals”, March 15-19, 2021, June 7-9, 2023. (together with the UNESCO Department of Journalism and Communication of Al-Farabi Kazakh National University);
- Round table on the topic: “UNESCO Water Family: Cooperation in Education and Science in Central Asia”, (Kazakh-German University in collaboration with the UNESCO Office in Almaty), December 10, 2021;
- Participation in the anniversary international UNESCO conference dedicated to the 30th anniversary of the UNITWIN Program "Transformation of knowledge for a fair and sustainable future", Paris, 2022.
- II International Winter School within the framework of the International Mother Language Day proclaimed by UNESCO (together with the UNESCO Department of Journalism and Communication of Al-Farabi Kazakh National University), February 21-26, 2023
- Leadership lecture by T.A. Bazarbayeva “The Role of UNESCO in Education”, 03-05.11.23. at the Tashkent State Pedagogical University named after. Nizami.
- 13th UNESCO Youth Forum, November 14-15, 2023 Paris, France.

International projects:

1. NATO, G5636 SPS "Valorization of waste biomass into high-performance materials for protection against CRBN", 2019-2022.
2. ISTC, P244 Internal Compliance Program Models for the Nuclear, Chemical, Biological, and Radiological Sectors, 2019-2022
3. ISTC, P244-2, Export control and nonproliferation database, 2022-2023
4. CRDF Global, Development of the Manual “Biorisk Management in Life Sciences”, 2023

Professor teaches at the department of University of Urbino (Italy) Almo Farina (2019-2023).

In the specialty “Ecology”: 2 master’s students completed the program double degree in ecology and environmental management within the framework of the SCO University at Belgorod State University (Russia), 5 master's students from Afghanistan and China completed their master's programs, 3 students from Afghanistan continue their studies.

b. Cooperation with UNESCO

Explain how the UNESCO Chair or UNITWIN Network has engaged with UNESCO's mission and mandate, priorities and programme, UNESCO entities and networks, other UNESCO Chairs and/or UNITWIN Networks, Category II Centres and National Commissions for UNESCO. How do you plan to continue and/or deepen such engagement in the future? [200 words max]

The Chair works closely with: National Commission of the Republic of Kazakhstan for UNESCO and ISESCO, UNESCO Regional Office for Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan, Kazakhstan National Committee of the UNESCO IP. "Man and the Biosphere". Cooperation involves organizing and participating in joint conferences, seminars, exchange of experience, reporting events: in the anniversary international UNESCO conference dedicated to the 30th anniversary of the UNITWIN Program; at the meeting of the National Commission of the Republic of Kazakhstan for UNESCO and ISESCO at the UN Office; at the 13th UNESCO Youth Forum in Paris, etc.

Plans to strengthen cooperation:

1. Organization and participation in joint events explaining mission, priorities and program of UNESCO.
2. Participation of teachers and students of the department in events held by UNESCO (for example, in the UNESCO Youth Forum, anniversary conferences, etc.).
3. Continue the joint organization of advanced training courses for journalists "Environmental journalism within the framework of sustainable development goals" and Winter schools with the UNESCO Department of Journalism and Communication of Al-Farabi KazNU.
4. Promotion of UNESCO initiatives to achieve sustainable development goals in Kazakhstan and Central Asia.
5. Organization of leadership lectures on environmental protection topics by foreign and domestic scientists.

c. Collaborations with higher education institutions and other partners

Explain how the UNESCO Chair or UNITWIN Network collaborated with research and higher education institutions, and other partners in different world regions, including South-South and South-South-North cooperation. How could such collaborations be strengthened and expanded? [200 words max]

South-South cooperation:

1. The Earth Remote Sensing Center operates jointly with the Chinese Academy of Sciences;
2. Together with research institutes and universities of Kazakhstan, they carry out projects for the development of the West Kazakhstan region in the context of green growth (2023-2025), the study of insects damaging wild populations of the Sivers apple tree (2022-2024), etc.
3. Cooperation with UNESCO departments of Russia, Uzbekistan, Kazakh-German University, etc. Joint conferences, seminars, leadership lectures, etc. are held.

South-South-North cooperation:

1. International webinar: "Increasing the role of universities in the implementation of the SDGs." Over 50 people participated, including representatives of the National Commission of the Republic of Kazakhstan for UNESCO and ISESCO, scientists from Italy, France, the USA, Canada, Haiti, Nigeria, Kyrgyzstan, Uzbekistan, Azerbaijan and others (2023).

2. Together with The Polytechnic University of Valencia (Spain) started at the end of 2023 project Erasmus + KA2

Plans to strengthen cooperation:

1. Negotiations on cooperation with UNESCO Chairs around the world.
2. Involving other universities in the implementation of the Green Office program.
3. Opening and operation of the research laboratory of the Xinjiang Institute of Ecology and Geography on the basis of the department.

d. Challenges and remedial actions

What were the main challenges and how were these addressed? [200 words max]

There were problems with holding scientific and educational events during the pandemic; at the moment we are actively holding most of the events using IT tools (Microsoft Teams, Zoom, VOOV etc.).

We are working to strengthen cooperation with other UNESCO institutes; to address this issue, we are releasing an SDG Information Bulletin during 2023.

There are problems with financing events under the auspices of UNESCO that the department organizes. Currently, these problems are being solved by attracting sponsorship funds, as well as the department's personal fund.

II. REQUEST FOR RENEWAL

The following section is to be completed if a request for renewal is being submitted.

a. Objectives

Summarize the proposed project/programme of work and its objectives for the renewal period, referring to the Objectives in Article II of the Agreement. Are you proposing any revisions to Article II? [200 words max]

The objective of the UNESCO Chair in Sustainable Development is to promote the achievement of sustainable development goals through education and training in the field of environmental protection and improving the quality of life. In addition, it is planned to strengthen cooperation with UNESCO experts (joint publications, seminars, webinars, conferences, etc.), continuous interaction with other UNESCO departments and chairs.

b. Workplan activities and expected outputs

Describe the expected outputs for the renewal period, and the associated activities or tasks. Specify the timeline and geographical scope of the activities, with particular attention to strengthening inter-university cooperation and international partnerships. Highlight interdisciplinary and/or future-oriented approaches to be used. Provide detail on the communication and outreach activities that are planned. The outputs and activities may be organized by type: (a) research and knowledge production; (b) publications; (c) websites and social media; (d) teaching and lecturing; (e) training and institutional capacity development; (f) student mobility and exchanges; (g) visiting professorships/fellowships; (h) conferences and events; (i) seminars and webinars; (j) networking and partnerships; (k) inter-university cooperation; (l) other.

[1500 words max]

(a) Development of research projects on environmental issues and SDGs

(b) Publication of articles in scientific and educational journals and information websites. Publishing textbooks, teaching aids, monographs. Publication of the bulletin of the department “UNESCO on Sustainable Development” for the purpose of its promotion under the auspices of UNESCO, frequency – once a quarter. Placement on the platform www.greenbridgework.kaznu.kz, distribution to UNESCO chairs of universities around the world and all interested parties.

(c) Implementation of the “Green Office” program for assessing the environmental efficiency of university departments, communications on the platform www.greenbridgework.kaznu.kz, department and university websites.

(d) Development of an advanced training course: “Eco-journalism and sustainable development.”

(d) Development of educational projects on environmental issues and SDGs.

f) Organization of the Youth Summer School on the topic: “Implementation of sustainable development goals in the field of environmental protection in Kazakhstan.” Rdevelopment of the UNESCO youth club who care about the environment with the involvement of university students and other interested parties.

(g) Inviting leading foreign professors to give lectures for students, undergraduates and doctoral students.

(h) Participation in events held under the auspices of UNESCO (conferences, seminars, symposiums, etc.). Joint holding of conferences on environment and sustainable development.

(i) Organization of a scientific seminar with the invitation of UNESCO experts and professors of social sciences and humanities specializing in the field of sustainable development.

(j) Negotiations on cooperation with other UNESCO Chairs

(k) Strengthening cooperation with UNESCO Headquarters, UNESCO Regional Office for Kazakhstan, Kyrgyzstan, Tajikistan and Uzbekistan, with the University of Urbino (Italy), Polytechnic University of Valencia (Spain), Valencia, Osh State University (Kyrgyzstan), Tashkent State Pedagogical University named after. Nizami and others.

All these events will strengthen inter-university cooperation and international partnerships, and will promote the mission, priorities and programs of UNESCO among young people and other segments of the population.

c. Human and financial resources

Provide a breakdown of overall budget (in USD) for the renewal period, including detail on budget secured, contributions from the institution(s) and plans to raise additional funds (e.g.: donors, public/private sectors, and other UN agencies). The budget can be prepared by outputs/activity or by type of expenditure such as staffing, events, contracted services, external training and events, grants, equipment and maintenance, communications and other expenses.

Table - Financing of the activities of the UNESCO Chair in SD
(2024-2027)

No.	Name	Cost, \$US	Source of financing
1	Holding the conference "“Green Bridge through a Generation” periodicity once every 2 years (publication and release of collections of conference reports; printing of certificates, advertising booklets, banners; preparation of handouts - branded notebooks, pens, etc.)	2,000	Al-Farabi KazNU
2	Publication of educational manuals on environmental protection 1-2 times a year	4,000	Al-Farabi KazNU
3	Production of information stands and banners	100	Al-Farabi KazNU
4	Inviting foreign scientists to conduct leadership lectures, joint scientific and educational projects	4,000	Al-Farabi KazNU
5	Support for the department website https://www.kaznu.kz/ru/7387/page/ , https://farabi.university , AndGreen Office platform www.greenbridgework.kaznu.kz	400	Al-Farabi KazNU
6	Providing uninterrupted Internet connection and communications, access to paid international sites SciVal, Scopus, etc.	1 000	Al-Farabi KazNU
7	Material provision with fixed assets, consumables	4,000	Al-Farabi KazNU
8	Providing equipment and instruments for scientific research	10,000	Grant from the Ministry of Science and Higher Education of the Republic of Kazakhstan
	Total	25 500	

d. Reflections

Overall, why should this Chair or Network be renewed as a member of the UNITWIN/UNESCO Chairs Programme? Kindly also provide any additional reflections on how the Chair or Network might be further strengthened and how its activities and ways of working could be improved. [200 words max]

The UNESCO Chair for Sustainable Development has accumulated extensive experience in developing methodologies to promote sustainable development goals, scientific design, environmental education and environmental awareness. The department seeks to expand interactions with national and international institutions, the civil and scientific community, to implement UNESCO's priorities and goals in the field of environmental education, environmental protection (development and implementation of environmental projects) and interaction with business structures.

At the moment, 2 of the above international projects have started (project Erasmus + KA2 Topic ID: ERASMUS-EDU-2023-CBHE-STRAND-1 "Land management, Environment & SoLIId-WastE: inside education and business in Central Asia"; project BR21882122 "Sustainable development of natural-economic and socio-economic systems of the West Kazakhstan region in the context of green growth: comprehensive analysis, concept, forecast estimates and scenarios"). These projects are aimed at solving specific environmental problems that are stated in the UN sustainable development goals and carry specific practical results.

In the future, a number of projects are planned for the risk management of natural phenomena in Kazakhstan, which also meet the 17 sustainable development goals.

27/12/2023

Prof. Tursynkul Bazarbayeva
Head of the Chair

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Head of the Chair

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