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Second High-Level Dialogue on Climate Change and Resilience in Central Asia

“Early warning systems for climate resilience”

21-22 September 2023

Bishkek, Kyrgyzstan

CONCEPT NOTE

Central Asia is grappling with the adverse effects of climate change, including rising temperatures, extreme weather events, and impacts on crucial sectors such as water, energy, and agriculture. The region's countries have developed national policies on climate change mitigation and adaptation, recognizing the need for regional cooperation due to the transboundary nature of climate risks and shared natural resources.

To address these challenges, the United Nations Development Programme (UNDP) is organizing a high-level regional conference in Kyrgyzstan, supported by the European Union (EU), as part of the "Climate Change and Resilience in Central Asia" project. The conference will focus on early warning systems (EWS) as a key part of building climate resilience. EWSs are crucial due to the increased frequency and intensity of extreme weather events caused by climate change. These systems can provide advanced notice and alert communities, enabling them to take necessary precautions and evacuate if required.

Another reason for the importance of EWSs is the changing patterns of climate-related hazards. Climate change alters precipitation patterns, leading to an elevated risk of flash floods or prolonged droughts in specific regions. EWSs equipped with accurate climate data can identify these changing patterns and issue timely warnings, facilitating better preparedness and response.

Moreover, EWSs play a critical role in safeguarding vulnerable populations disproportionately affected by climate change. By ensuring equitable access to timely



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information, these systems empower vulnerable communities to protect themselves and their livelihoods in the face of climate-related risks.

Furthermore, EWSs enable enhanced decision-making and adaptation by providing policymakers, emergency managers, and community leaders with essential information for effective planning and implementation of adaptation measures. Timely alerts and forecasts help informed decisions of resource allocation, infrastructure development, land use planning, and public safety measures.

The upcoming high-level regional conference serves as an opportunity for regional exchange, and for international stakeholders to contribute to the regional dialogue on climate resilience and early warning systems in Central Asia. It aligns with the UN Secretary-General's "Early Warnings for All" initiative, which aims to protect every person on Earth with early warning systems by 2027. The conference allows for the exchange of experiences and innovations and supports the initiative's implementation in Central Asia.

By collaborating and supporting the region in building resilience to climate change impacts, stakeholders can address the urgent environmental issues in Central Asia and ensure a sustainable and prosperous future for the region. The conference may also provide a platform to highlight innovative solutions and best practices related to climate resilience and early warning systems, allowing stakeholders to learn from successful adaptation measures implemented in Central Asia and other sub-regions.

Organizers: The Conference is co-organized by the Government of the Kyrgyz Republic, UNDP in the Kyrgyz Republic, UNDP Istanbul Regional Hub, with support of the Ministry of the Emergency Situations and Ministry of the Foreign Affairs in the Kyrgyz Republic.

Date and format: The High-Level Conference will be held on **21-22 September 2023** in Bishkek, Kyrgyz Republic, as a hybrid event: on-site and online participation.

Venue of the event: Conference-hall of **Sheraton Hotel**, 148B, Kievskaya Str, Bishkek, Kyrgyzstan

Working languages: Kyrgyz, Russian and English. Simultaneous translation will be provided.

Participation: Approximately more than 100 participants are expected to attend. They will include representatives from national, regional, and international organizations, government entities, academicians from national research institutes, representatives of the private sector and civil society, youth, and women organizations.

Expected Results



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- Improve the regional dialogue and **awareness on climate change and resilience**.
- Deepen understanding among participants, including from Central Asia, about the **early warning systems**, as one of the key elements for **building climate resilience**.
- **Enhance cooperation** and **transfer of experiences** and potentially collaboration across sub-regions of Europe and Central Asia.
- Sketch-out a community of practice of climate resilience and contribute to planning and **implementation of EW4All initiative in Central Asia**.



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AGENDA

DAY 1

21 September 2023, 09:00 – 18:00

Climate Resilience and Early Warning Systems, Actions and Cooperation

Time	Session
09:00 – 09:30	Registration of participants
09:30 – 10:30	High-Level Panel: Building Climate Resilience in Central Asia Opening Remarks Mr. Boobek Azhikeev , Minister of the Emergency Situations of the Kyrgyz Republic Mr. Mansur Oshurbayev , Vice Minister of the Ecology and Natural Resources of the Republic of the Kazakhstan Mr. Latifzoda Hotamsho , First Deputy Chairman of the Committee on Emergency Situations and Civil Defense under the Government of the Republic of Tajikistan Mr. Hojanyyaz Jumashov , Head of the Meteorology Department, Hydrometeorology Service under the Ministry of Environmental Protection of the Turkmenistan Mr. Kadamboy Saytov , Head of the Minister's Secretariat Ministry of Ecology, Environmental Protection and Climate Change of the Republic of Uzbekistan Ms. Marilyn Josefson , Ambassador of the EU Delegation to the Kyrgyz Republic Ms. Alexandra Solovieva , UNDP Resident Representative to the Kyrgyz Republic Moderated by: Mr. Stanislav Kim , UNDP, Climate and Disaster Resilience Cluster Lead. Istanbul Regional Hub, Regional Disaster Risk Reduction Advisor
10:30 – 11:20	Photo Session – 5 minutes Press-briefing – Minister of the Emergency Situations of the Kyrgyz Republic, EU Ambassador, UNDP RR KGZ Coffee Break/Networking



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11:20 – 12:30 **Panel Session I. Actions to Build Resilience Against Climate Change and Disasters in Central Asia**

Moderator: Mr. Azamat Mambetov, First Deputy Minister of the Emergency Situations of the Kyrgyz Republic

Speakers:

Mr. Nurbol Aitbayev, Head of the Department of Informatization, Digitalization and Communications of the Emergency Situations Department of Almaty, Ministry of the Emergency Situations of the Republic of Kazakhstan.

Prevention of Natural Disasters Due to Climate Change on the Territory of the Republic of Kazakhstan

Mr. Daurbek Sakyev, Director of the Department of Monitoring and Forecasting of the Emergency Situations of the Ministry of the Emergency Situations of the Kyrgyz Republic.

Development of an EWS for Hazardous Natural Processes in the Kyrgyz Republic

Mr. Aibek Kartaiganov, Head of the Rapid Response Directorate of the Crisis Management Center under the Ministry of the Emergency Situations of the Kyrgyz Republic.

“Development of the National Comprehensive Systems of Warning and Informing the Population in the Context of Climate Change.

Mr. Kuchakov Jamshed, Deputy Head of the regional Department of the Emergency Situations and Civil Defense of Sughd region, Republic of Tajikistan

Mr. Sahet Sahedov, Head of the Civil Defense and Rescue operations directorate in Lebap welayat, Civil Defense and Rescue operations directorate of the Ministry of Defense of the Turkmenistan

Measures taken by the Hydrometeorology Service under the Ministry of Environmental Protection of Turkmenistan

Ms. Sayyora Abdullaeva, Chief Specialist of the Scientific Information Center of the Interstate Commission for Sustainable Development, Ministry of Ecology, Environmental Protection and Climate Change of the Republic of Uzbekistan

Measures taken by the Republic of Uzbekistan to Ensure Climate Resilience.

Mr. Isomiddin Akramov, Regional Project Manager “Climate Change and Resilience in Central Asia”, UNDP in Uzbekistan

Piloting a Community-Based Early Warning Systems in the Fergana Valley

Q&A/Discussion

12:30 – 14:00 Lunch

14:00 – 15:30 **Panel Session II. Early Warning Systems for Climate Resilience**

Moderator: Ms. Chiara Menchise, Programme Management Officer UN Office for Disaster Risk Reduction (UNDRR)

Speakers:

Ms. Chiara Menchise, Programme Management Officer UNDRR, *Introduction to the UN SG’s Early Warning for All Initiative (EW4All)*

Mr. Vasko Popovski, UNDP Consultant for Early Warning Systems Mapping in



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Central Asia.

Exercise Across Central Asia. Results of Gap Analysis in Central Asia.

Mr. Dilshod Kodirov, Disaster Risk Reduction (DRR) Expert on Regional Coordination, UNDRR National Officer in Tajikistan.

EW4All Tajikistan

Mr. Walid Ali, Regional Specialist for Climate Change and Security Risk at UNDP IRH, Security/Conflict/Climate Nexus EWS 2.0

*Early Warning Systems and Peace and Security - **online***

Mr. Marco Massabo, Programme Director at CIMA Research Foundation, International Center for Environmental Monitoring (CIMA), Italy **-online**

Q&A/Discussion

15:30 – 16:00 Coffee Break/Networking

16:00 – 17:00 **Panel Session III. International Cooperation Dialogue on Climate Change and Resilience and Early Warning Systems**

Moderator: Ms. Monica Rijal, Deputy Resident Representative, UNDP in the Kyrgyz Republic

Speakers:

Ms. Ekaterina Nakashidze, Acting Deputy Head of OSCE Programme office in Bishkek.

OSCE Engagement in Climate Change and Security in Central Asia

Mr. Sergey Makarov, Programme Manager of the “Climate Risk Management in Central Asia”, GIZ GmbH

Germany’s contribution to enhancing climate resilience in Central Asia

Dr. Nurken Bultekov, Executive Director, Corporate Fund “Regional Center of Hydrology”

Central Asia Hydrometeorology Modernization. Project Implementation Results

Ms. Yvette Zenina, Natural Resources Officer in Central Asia and Turkiye, FAO *Enhancing the Resilience of Agrifood Systems to Climate Change Impact and Managing Multi-Hazards*

Mr. Alexander Zubovich, Head of Department 3 “Monitoring system and data management”, Central-Asian Institute for Applied Geosciences (CAIAG)

Monitoring and Early Warning Systems of the CAIAG

Ms. Ketevan Skhireli, Project Manager UNDP Georgia - online

Q&A/Discussion

17:30 – 17:45 **Closure of the Day 1**

Mr. Stanislav Kim, UNDP, Climate and Disaster Resilience Cluster Lead. Istanbul Regional Hub, Regional Disaster Risk Reduction Advisor

18:00 **Dinner at the kind invitation of Ministry of the Emergency Situations of the Kyrgyz Republic and UNDP**

Sheraton Hotel



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DAY 2

22 September 2023, 09:00 – 17:30

Time	Session
09:00 – 11:00	Panel Session IV. Innovations in Building Early Warning Systems to Tackle Complex Risk

Moderator: Mr. Paul Conrad, Complex Risk, Early Warning and Preparedness Specialist UNDP in Geneva

Speakers:

Mr. Martijn Kwant, Advisor on Flood Early Warning, and Impact Forecasting Deltas, Netherlands.

*Challenges and Experiences in Implementing Multi Hazard Early Warning Systems in over 80 countries - **online.***

Mr. Jan Cuipa, People in Need- Cambodia

*Overcoming literacy barriers, how EWS 1294 and IVR technology are doing this in Cambodia linked with AWS - **online.***

Mr. Vasko Popovski, Senior Disaster Risk Management Consultant, UNDP North Macedonia.

Early Warning Systems Concept in the Polog Region North Macedonia. Technology-Based Insights from Mapping Exercise

Mr. Shouryadipta Sarkar, Information Management Specialist UNDP Crisis Risk Dashboard

*The Utilization of Crowd-Sourced and Social Media Monitoring in Sri Lanka and How This Demonstrates the Remarkable Potential of How Technology Can Aid in Understanding and Tracking Community Conflict and Violence - **online.***

Dr. David N. Nguyen, Japan National Research Institute for Earth Science and Disaster Resilience.

The Value and Process of Up-and-Coming ISO Standards Focused on Early Warning Data Sharing and How This Will Impact Early Warning Systems Going Forward.

Mr. Mirdjakhongir Mirdjaparov, Task Manager on Early Warning System at UNDP Uzbekistan

Modernization of the Automated Warning System, Use of UAVs and Mobile Application as an Effective Tool to Improve Quality, the Efficiency of Decision Making and Reduce the Time for a Warning.

Q&A/Discussion

11:00 – 11:30 Coffee Break/Networking



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11:30 – 13:00 **Panel Session V. Gender and Social Dimension in building climate resilience and EWS**

Moderator: Mr. Corneliu Eftodi, Regional Gender Advisor, UNDP IRH

Speakers:

Ms. Sagipa Djusaeva, Head of Programmes in UN Women Country Office in the Kyrgyz Republic

Gender Transformative Practices for Effective Climate Change Adaptation and Disaster Risk Management Measures in Local Communities of the Kyrgyz Republic

Ms. Mukhabbat Murzakanova, Planning, Monitoring, Evaluation and Reporting Officer, Country Cluster Delegation for Central Asia, International Federation of Red Cross and Red Crescent Societies to the Kyrgyz Republic
The Early Action Protocol

Ms. Nelly Ogai, Gender Focal Point of the Ministry of Emergency Situations of the Kyrgyz Republic

The MoE practice of implementation of gender policy in the activities of the Ministry of Emergency Situations of the Kyrgyz Republic

Ms. Mahinakhon Suleimanova, STEMinist from Tajikistan

Field Practices in the Tajikistan on Gender and Early Warning Systems Response

Ms. Bermet Kanimetova, Expert at the Institute for Economic Policy Research of the Kyrgyz Republic, NGO “Eko Demi” and “Women's Agricultural Federation”

Activating Women's Leadership in the Field of Climate Change on the Example of Reporting Initiatives of Civil Society Organizations

Q&A/Discussions

13:00 – 14:30 Lunch

14:30 – 16:00 **Panel Session VI. Climate Data for Resilience Building and Early Warning Systems**

Moderator: Dr. Vitalii Zaginaev, Mountain Societies Research Institute, The University of Central Asia

Speakers:

Mr. Nurlan Abayev, Director of the Research Center of Republican State Enterprise "KazHydromet"

The Climate Change Monitoring in the Republic of the Kazakhstan

Ms. Tatyana Chernikova, Head of the Department of Hydrometeorological Observations, Forecasts, and Information Provision of the Hydrometeorological Service under the Ministry of Emergency Situations of the Kyrgyz Republic

The Role of the National Hydrometeorological Service of Kyrgyzstan in the Early Warning Systems



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Mr. Mahmaddulloev Habibullo, Head of the Climate Science Research Unit, State Agency for the Hydrometeorology under Committee of the Environment Protection under the Government of the Tajikistan

Early Warning Initiative for All, Implementation Activities in the Republic of Tajikistan

Mr. Jumashov Hojanyyaz, Head of the Meteorology Department, Hydrometeorology Service under the Ministry of Environmental Protection of the Turkmenistan

Ms. Irina Zaitseva, Agency of Hydrometeorological Service under the Ministry of Ecology, Environmental Protection and Climate Change of the Republic of the Uzbekistan

Climate Data to Strengthen Resilience and Develop an Early Warning System in Uzbekistan

Mr. Yuasa Takashi, Japan National Research Institute for Earth Science and Disaster Resilience, Pacific Consultants Co., Ltd. Global Company in Japan
EWS in Japan: Lessons in Disaster Preparedness

Q&A/Discussion

16:00 – 16:40

Discussion

16:40 – 17:20

Presentation

Group Discussion

Moderator: Mr. Isomiddin Akramov, Regional Project Manager “Climate Change and Resilience in Central Asia”, UNDP in Uzbekistan

Early warning system: Next steps and future perspectives
“We stand together for resilient future”

17:20 -17:30

Closure remarks

Mr. Azamat Mambetov, Deputy Minister of the Emergency Situations of the Kyrgyz Republic

Ms. Monica Rijal, Deputy Resident Representative, UNDP in the Kyrgyz Republic