



## Central Asia Technical Working Group on Climate Change | Second Meeting

### Concept for a Proposed Regional Program for Climate Resilience in Central Asia

## *Outcomes from National Consultation in Turkmenistan*

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# Major Events

- Turkmenistan ratified UN FCCC in 1995,
- in 1998 – ratified Kyoto protocol.
- In 1997-2000 the First national message on UN FCCC was prepared
- In 2006-2009 the Second national message on UN FCCC was prepared
- May 14, 2009 the President of Turkmenistan signed the resolution on creation of State body on Clean Development Mechanism (CDM) such as the Inter-institutional Commission
- Aral Sea Basin Program-3, December 2010
- June 15, 2012 the President of Turkmenistan signed the resolution on approval of the National strategy of Turkmenistan on climate change

# Consequences of Climate Change

- Negative impact on public health and social welfare
- Water sources scarcity
- Decrease in yields of agricultural crops and livestock production volume
- Reduction of food security
- Increase in the number of severe weather events
- Change in biodiversity

# Priority Sectors for Climate Resilience



Healthcare



Agriculture



Water management



Ecosystems, flora, fauna and forests



Natural hazards

# Key Organizations of Turkmenistan Dealing with the Issues of Climate Change

Climate change issues are coordinated by the Ministry of Environmental Protection of Turkmenistan.

- National Committee of Hydrometeorology,
- Ministry of Economic Affairs and Development,
- Ministry of Agriculture,
- Ministry of Water Resources Management,
- Ministry of Healthcare and Medical Industry,
- Ministry of Defense (Office of CD and SR)
- Ministry of Public Utilities,
- Science Academy of Turkmenistan,
- Livestock Association of Turkmenistan
- and others

# Gaps and Barriers

- Insufficient interaction of key structures for data collection, for its analysis and assessment of climate change issues
- Lack of regional concept (general principles) on adaptation
- **No plan of adaptation measures at the national level**
- Lack of national greenhouse gas inventory system
- Insufficient development of hydro-meteorological observation network in accordance with the recommendations of the WMO
- Lack of targeted studies on climate change issues
- Lack of awareness on climate change issues at all levels

# Regional Program objectives

- I. To identify regional priorities for adaptation to climate change in Central Asia and appropriate adaptation measures of legal, institutional and investment nature for the purpose of sustainable development.**
- II. To strengthen cooperation and coordination of activities in the Central Asian countries at the regional level for issues of climate change.**
- III. To develop a Regional concept for the use of water resources of trans-boundary nature.**
- IV. To strengthen regional and national monitoring systems of climate change using innovative technologies.**
- V. To enhance the potential of national institutions on climate change issues.**
- VI. To develop studies related to the forecasts of climate change in the region.**
- VII. To prepare Regional investment program for adaptation to climate change.**

# Organizational Structure

## Regional level

- WB, IFAS (ICWC, ICSD)

Recommendation on the decision-making structure: Creation of the Regional Coordinating Council affiliated to the World Bank

## National level

- Ministry of Environmental Protection of Turkmenistan,
- Ministry of Economic Affairs and Development,
- National Committee for Hydrometeorology,
- Ministry of Agriculture,
- Ministry of Water Resources Management,
- Ministry of Healthcare and Medical Industry,
- Ministry of Defense (Office of CD and SR),
- Science Academy of Turkmenistan,
- Livestock Association of Turkmenistan and others

Recommendation on the decision-making structure: the State Commission for enforcement of obligations of Turkmenistan arising from United Nations environment related conventions and programs.



# Selection Criteria for Adaptation Efforts

- Environmental safety
- Economic efficiency
- Technological improvement
- Possibility to replicate the results on a regional scale
- Provision of increased socio-economic level of the population

# Projects on Climate Change Issues

- **UNDP Projects “Climate Risk Management in Turkmenistan”**

I. Assessment of key ministries potential on reduction of the risks associated with climate change in Turkmenistan. Result - the existing potential is defined, recommendations for its improvement are prepared.

II. Assessment of climate risks at the level of local communities in the project areas: desert, mountain and the area of irrigated farming. Result - climate risks and adaptation measures list are identified.

III. Planning of institutional and legal issues for the integration of climate risks. Result - recommendations on improvement of the legal documents are prepared.

- **UNDP Adaptation Project**

I. Responding to the risks associated with climate change, to farming households in Turkmenistan at national and local levels. Result - the definition and implementation of investment projects.

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- **UNDP Project “Strengthening Climate Change Policy in Turkmenistan”**
  - I. Development of a National Action Plan on climate change adaptation. Result - NAPA is being developed.
  - II. Development of a National Action Plan to reduce greenhouse gas emissions. Result - NAPER is being developed.
- **UNEP Project “Turkmenistan: Preparation of the 3<sup>rd</sup> National Communication under the UN Framework Convention on Climate Change”**

Result – preparation of the 3<sup>rd</sup> National Communication.



# Thank you for attention!

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