

ROADMAP

for the implementation of a Five-Year Action Plan for the Development of Mountain Regions

Under the visionary leadership of Kyrgyzstan, the Five-Year Action Plan demonstrates the country's commitment to advancing sustainable mountain development on both domestic and international fronts. Kyrgyzstan has taken a pivotal role in raising the profile of the mountain agenda globally, championing regional and international cooperation and fostering knowledge-sharing with the international community. This leadership has amplified the voices of mountain communities, enabling the exchange of innovative ideas and best practices to tackle shared challenges. The Five-Year Action Plan for the Development of Mountain Regions emphasizes the necessity of harmonizing socio-economic development with the preservation of the delicate ecosystems found in high-altitude areas. This comprehensive initiative addresses critical challenges such as limited access to resources, vulnerability to climate change, and the degradation of natural landscapes. Through sustainable practices, community empowerment, and collaborative efforts, the plan seeks to transform mountain regions into resilient ecosystems while fostering economic stability and improved living conditions. The central objective of this ambitious plan is to improve the quality of life for mountain populations and ensure the conservation and restoration of their natural environment.

The Roadmap for the Implementation of the Five-Year Action Plan for the Development of Mountain Regions of the Kyrgyz Republic for 2023–2027 serves as a detailed guide to operationalizing these objectives and translating vision into action by integrating global, regional, and national frameworks, offering the structured approach to achieve sustainable development in mountain regions aligned with the Sustainable Development Goals (SDGs). It bridges the overarching goals of socio-economic balance and environmental preservation with practical measures, strategies, and collaborations at various levels.

The roadmap supports the overarching goals by prioritizing:

- Strengthening Kyrgyzstan's representation in global processes related to sustainable mountain development and fostering international partnerships;
- Expanding and deepening regional cooperation across Central Asia;
- Promoting the well-being of mountain communities through targeted initiatives, including infrastructure development, pollution reduction, disaster risk mitigation, and the protection and restoration of fragile ecosystems.

The Roadmap complements and is aligned with the National Development Program of the Kyrgyz Republic until 2026, the national SDG targets until 2030, and the country's declared aspiration for climate neutrality by 2050.

The list of activities was developed through consultations and collection of proposals during the first half of 2023, with the participation of key stakeholders in the Kyrgyz Republic, including scientists, government representatives, experts, and United Nations agencies in the Kyrgyz Republic. Through the leadership and initiative of the Secretariat of the Special representative on Mountain Agenda of the President of the Kyrgyz Republic, this

plan inspires a collective effort to preserve the unique landscapes of mountain regions while ensuring long-term sustainability and resilience for their communities.

Given the multifaceted and evolving nature of the mountain agenda and the Global Framework for Mountain Development, the Roadmap is a flexible and living document, open to periodic updates.

Nº	Activities	Expected Result	Responsible body/ institution	Timelines	Source of funding (upon agreement)	Implementing partner* (upon agreement)
Section I. At the global level: the voice of the Kyrgyz Republic, the exchange of experience and knowledge						
1.	Initial activities to develop and present the global framework for action plan and the Kyrgyz Republic's Roadmap (HLPF ECOSOC forum, etc.).	Stakeholder awareness, country contribution to the global partnership on mountain development	MFA	2023	National budget, donor funds, UNDP	Mountain Partnership Secretariat, FAO
2.	Prepare appeals to conventions and global funds to integrate and reflect the needs and unique characteristics of mountain countries in processes and decisions	Promoting the mountain agenda and considering special interests in negotiations, decisions and funding mechanisms	MFA, MNRETS, CFC MWRAPI	2023–2025	National budget, donor funds	Mountain Partnership Secretariat, FAO
3.	Organization and holding of joint events (side events, speeches, pavilions) within the framework of UN summits and conferences	Raising awareness of the challenges and opportunities for the development of mountain regions	MFA, MNRETS, MLSSM, MES, MEC, MWRAPI	2023–2025	National budget, donor funds	UN system, OSCE, international organizations, CAREC
4.	Participation in international assessments and activities for the International Year for the	Exchange of experience on glacier conservation in	MFA, MES, NASc, MES, MNRETS, National	2023–2025	National budget, donor funds, CROM-ADAPT, UNESCO, UNEP	CAIAG, UNESCO Cluster Office in Almaty, IPCC, MAR

	Conservation of Glaciers (2025) and mountains as sources of water resources	mountainous countries	Commission for UNESCO (upon agreement)			
5.	Establishment of a group of mountain states under the UN. Participation of the Kyrgyz Republic in global mountain partnerships and networks	Formalization of the group of friends of mountain countries, broadening the partnership	MFA, MNRETS	2023–2025	National budget	UN Group of mountain states
6.	Exploring international experience in exchanging external debt for green initiatives	Contribution to the development of the financial mechanism/trust fund	MF, MEC, MFA, NIA	2023–2025	National budget, BIOFIN, UNDP	UN system, international organizations
7.	Contribution to the development of global scientific, educational and information platforms for knowledge and exchange of experience on sustainable mountain development, with a perspective of establishing a Global Mountain University	Participation and contribution of the Kyrgyz Republic in the development of its own and global platforms (Adaptation at Altitude, SDGs, WOCAT, Panorama, etc.).	MES, IMI IUK, NASC	2023–2027	National Budget, donor funds	UN University, global and regional information platforms, mountain cooperation centers, Mountain Partnership Secretariat, FAO
8.	Organization of the Second Global Bishkek Mountain Summit "Bishkek+25"*	Promotion of the mountain agenda at a high level, exchange of experience	MFA, all ministries, Office of the President of the Kyrgyz Republic	2025–2027	National budget, donor funds	Mountain Partnership Secretariat, FAO, OSCE
Section II. Regional level: preserving Central Asian mountains and promoting cooperation						
9.	Institutional reform and capacity building of the Regional Mountain Centre (RMC at ICSD), developing networks and partnerships of scientists, government agencies	An effective regional structure and networks focused on sustainable mountain development, nature	MNRETS, NASC, MFA	2023–2027	National budget, donor funds, CEPF	UNEP, CEPF, Mountain Partnership Secretariat, FAO, non-profit organizations

	and NGOs for the conservation of Central Asian mountains	and climate protection aspects				
10.	Restoration of forests, landscapes and conservation of key species of flora and fauna of Central Asian mountains, including gene pool of wild congener species	Restoration of degraded landscapes. Conservation of vulnerable and unique ecosystems, animals and plants. Reducing the risk of natural disasters. Conservation of the gene pool	MNRETS, MWRAP, MES, NASc	2023–2027	National budget, WB Resiland CA+, IKI, CEPF	WB, UNEP, CAMP Ala-Too, Fauna & Flora International and other partners
11.	Organization and execution of awareness-raising activities and measures to reduce pollution of tourist places. Regional cooperation on BRS Convention and plastics	Removal of rubbish and plastic waste from mountain tourist sites and water reservoirs. Separation and recycling of plastic. Development of circular economy	MNRETS, Plenipotentiary Representatives of the President of the Kyrgyz Republic in the regions (PRP in the regions), LAments, Department of Tourism of the Ministry of Economy	2023–2027	National budget, donor funds	UNEP, non-profit organizations
12.	Conservation of globally significant migratory wildlife species (snow leopard, argali, etc.) and eco-corridors of Central Asia	Exchange of information, technologies and methods for species counting, joint conservation programs	MNRETS, NASc	2023–2027	National budget, CAMI, IKI	CMS, UNEP, GIZ, GSLEP, CAMI, WWF
13.	Updating the regional conservation network for the Tien Shan and Pamir World Heritage sites within the	Development of eco-tourism, coordination of plans, management	MNRETS, NASc, National Commission for	2023–2025	National budget, WB, CEPF, UNESCO, donor funds	Neighboring countries, ICIMOD

	framework of the Central Asian countries' partnership with the PRC and the Hindu Kush-Himalaya region (ICIMOD)	system and approaches, exchange of experience, attracting the attention of the world community	UNESCO (upon agreement)			
14.	Participation in integrating the efforts of regional and foreign scientific and educational organizations for research on glaciers, water resources, ecosystems and mountain communities in Central Asia	Coordinated approaches to research, exchange of databases and development of educational programs	NASc, MNRETS, IMI UIK, MES	2023–2027	National budget, WB, CROM-ADAPT, AKDN, GIZ, CAREC, OSCE	WB, UCA, CAIAG, IMI UIK, Universities of Fribourg, Zurich
15.	Promoting an integrated approach to water, energy and land management (NEXUS) and integrated water resources management (IWRM)	Use of NEXUS and IWRM approaches to assess and consider the balance of interests of water use in irrigation and power generation	NASc, MEC, MWRAPI, MFA, CAIAG (upon agreement)	2023–2027	National budget, WB CAWEP, OECD, SDC Blue Peace, GIZ, donor funds	WB, GIZ, OECD, CAREC, EЭК OOH
16.	Participation in regional economic (CAREC, SPECA, CASA) and environmental cooperation programmes (RESILAND, CAWEP, UNECE) for infrastructure development, environmental sustainability and disaster risk reduction	Improved access to infrastructure and markets. Regional effects and benefits of co-operation	MNRETS, MEC, MFA, MES, NASc, MH	2023–2027	National budget, ADB CAREC, WB CAFEWS-CAHMP, GIZ, OSCE, UNDP	CAREC, RCH, CESDRR
17.	Participation in regional activities to establish measures to protect public and livestock health in mountainous regions and densely populated areas of Central Asia	Reducing epidemic risks and undertaking adaptation measures for populations and livestock in	MH, MWRAPI, MES, NASc, MNRETS	2023–2027	National budget, donor funds	ADI, WB, ADB, FAO, CCE

	under conditions of climate change and sources of epidemiological hazards. Risk assessment	mountainous areas. Regional exchange of experience and information				
18.	Participation in regional forums on climate change, clean water and energy, forests and landscapes, including the UN International Year of Grasslands (2026)	Develop region-wide and differentiated country positions on global challenges, goals and commitments. Sharing experience and attracting investment	MNRETS, MES, NASc, MFA, MEC, MA, MH	2023–2027	National budget, WB, CAREC, GIZ, FAO, OSCE	International Organizations
Section III. National and Regional level						
Chapter 1. Management and planning system						
19.	Establishment of an interdepartmental working group to coordinate the implementation of the roadmap. Development of an online information portal for the "Five-Year Action Plan for Mountain Region Development."	The decree of the Cabinet of Ministers of the Kyrgyz Republic to establish an interdepartmental working group and an online information exchange platform.	MNRETS, Office of the President of the Kyrgyz Republic	2023 - 2027	National budget, donor funds	UN system
20.	Establishment of a Secretariat to Coordinate and Monitor the Implementation of the Five-Year Action Plan for the Development of Mountainous Areas	The decree of the Cabinet of Ministers of the Kyrgyz Republic on the establishment of the Secretariat, with the definition of staff, organizational structure, budget, logistics	Office of the President of the Kyrgyz Republic	2025-2027	National budget, donor funds	UN system, OSCE

21.	Information coverage of the implementation of the Five-Year Action Plan for the Development of Mountainous Areas in local and international media. Regular meetings and political discussions.	Integration of the mountain agenda. Informing government agencies and scientific communities of the Kyrgyz Republic through local and foreign media	MNRETS, MEC	2023–2027	National budget, donor funds	UN system, CAIAG, OSCE
22.	Elaboration and testing of mechanisms for the exchange of foreign debt for "green" initiatives	Roadmap, a financial mechanism for the exchange of foreign debt for "green" initiatives	MF, MEC, MA, MNRETS, NIA	2023–2027	National budget, BIOFIN, UNDP, GCF (CS-FOR)	UNDP, FAO, non-profit organizations, business community
23.	Exploring issues of migration and population movements under the influence of climate change and natural environment in the regions of the Kyrgyz Republic	Exchange of information on population migration related to climate and environmental change	MES, MLSSM, NSC, MH	2023–2027	National budget, donor funds	IOM
24.	Establishment of the organizing committee for the Second Bishkek Global Mountain Summit "Bishkek+25" *	The decree of the Cabinet of Ministers of the Kyrgyz Republic on the establishment of the organizing committee. Attracting the attention of the world community	MFA, Office of the President of the Kyrgyz Republic	2025–2027	National budget, donor funds	UN system, OSCE
Chapter 2. Improving the quality of life of the population and the natural environment						
25.	Analysis and update of development plans for settlements and territories in mountainous areas, considering the measures taken to protect health and the	The decisions of the Cabinet of Ministers of the Kyrgyz Republic and local administrations.	Authorized Representatives of President of the Kyrgyz Republic in regions, LPA, LA, MH	2023–2027	National budget, WB, ADB, donor funds	LPA

	environment and reduce the risk of natural disasters	Improving approaches to the development and quality of life of the population				
26.	Developing incentives and practices for green building and improving energy efficiency of households and small businesses, considering gender aspects, supporting women, children and youth	Energy-efficient technologies for small businesses and households. Creating an empowering household environment for women, young people, and children.	SAACHS, MLSSM, MEC, MNRETS, ME	2023–2027	National budget, donor funds, IOM, EBRD, KYRSEFF,	Microfinance and non-profit organizations, IOM
27.	Improving city air quality, limiting and reducing emissions of greenhouse gases and harmful substances into the atmosphere	Landscaping, development of private and public electric transport	Bishkek City Hall, Osh City Hall, City Halls of other cities of Kyrgyzstan, LPA, MNRETS, MEC, MTC	2023–2027	National budget, WB, ADB, UNEP, donor funds	UNEP
28.	Assessment and monitoring of the state of the environment and an examination of the standard of living of households and the state of health of mountain residents based on international and national indicators	Annual reports based on indicators of the environment, standard of living and health of the population. Development and calculation of integral indices of public health for scientific and practical purposes. Development of targeted support measures and solutions for vulnerable mountain	MNRETS, MEC, MH, MES, NASc, NSC	2023–2027	National budget, donor funds	UNDP, UNEP, OSCE, Aarhus centers, non-profit organizations

		areas and groups of society.				
29.	Expanding digital (IT) opportunities for residents of remote mountain areas, especially women, children and youth	Organization of training programs for qualified IT professionals in the digital industry.	MDD, ME, MoES, PRP in the regions	2023–2027	National budget, donor funds	UNDP, UNEP, OSCE, UN Women, business community
30.	Improving the livestock breeding system in the mountainous regions of the Issyk-Kul and the Naryn regions (pilot project) and regulating the load on pastures, considering measures to address climate change measures	Food security. Improvement of pasture conditions, introduction of mandatory alternation of pastures	MWRAPI, MNRETS, PRP in the regions, LA	2023–2027	National budget, donor funds, GCF, WPF UN	LA, livestock breeders' associations, farming enterprises
31.	Development of organic villages, marketing, value chains and quality management systems for mountain products, expansion of greenhouses and other crop conservation measures	Villages specialize in organic products. Creation of a national registry (label). Revenue growth, export potential and innovation. Reduction of crop losses from the effects of emergencies and climate change through the creation of greenhouses, etc.	MWRAPI, PRP in the regions	2023–2027	National budget, donor funds, GEF SGP, UNDP, FAO	GEF SGP, OSCE, UNDP, Mountain Partnership Secretariat, FAO, Federation of the Organic Movement BIO KG, BioService PF and other partners
32.	Reducing the burden on forests and pastures through agroforestry and planting green spaces, implementing a unified policy and taking measures to restore degraded pastures	Landscaping and anti-erosion planting of green spaces were carried out (650 hectares /350 thousand seedlings per year), the area of restored	MWRAPI, MES, PRP in the regions, LA	2023–2027	National budget, donor funds	Local self-government bodies, associations of land and forest users, OSCE

		pastures has been increased				
33.	Development of eco-tourism and community-based tourism in mountainous areas	The promotion of eco-tourism and the production of mountain products. Community income growth.	Department of tourism of MEC, MNRETS	2023–2027	National budget, donor funds, WB	Community-based organizations, WB
34.	Promotion and implementation of the principles of the green economy in mountainous regions of the Kyrgyz Republic by creating additional sources of income for the population of mountainous regions and promoting mountain organic products	Increasing incomes of local mountain residents, creating new jobs in mountainous areas	MEC, MNRETS, PRP in the regions	2023–2027	National budget, donor funds,	Business community, non-profit organizations, OSCE
35.	Improving access to health care for mountain populations: improving infrastructure in mountain regions and tourist hotspots, introducing digital health, and mobilizing technical and financial assistance	Introduction of an effective system for monitoring and evaluating access to health services in mountain areas and expansion of access for the mountain population to quality health services, including through a digital health program	MH, PRP in the regions, LA, MDD	2025-2027	National budget, donor funds	UNDP, ADB, WB, WHO
36.	Ensuring access of the population, economic entities, and tourist facilities in mountain areas to energy resources in accordance with their needs through the	Expansion of mountain regions and settlements with access to energy sources. Attraction of	ME, CFC, NIA, PRP in the regions, LA	2025-2027	National budget, donor funds	UNDP, ADB, WB, EBRD

	mobilization of technical and financial assistance. Preparation and submission of project proposals to international financial institutions and donor organizations.	investments, technical and financial assistance for the development of renewable energy.				
37.	Expanding access of the population in mountain areas to wastewater disposal, sewerage, and drinking water supply systems through the mobilization of technical and financial assistance.	Improvement of access of mountain populations to clean drinking water and sewerage services.	MWRAPI, State Committee for Construction (Gosstroy) PRP in the regions, LA	2025-2027	National budget, donor funds	UNDP, ADB, WB, EBRD
38.	Modernization and reconstruction of roads in mountain areas.	Expansion of access to mountain regions through improved road infrastructure.	MTC, PRP in the regions, LA	2025-2027	National budget, donor funds	ADB, WB, EBRD
39.	Conducting an inventory of mountain settlements where schools and preschool institutions are absent, in order to improve the educational infrastructure of mountain regions.	Implementation of an effective system for monitoring and evaluating access of children in mountain areas to education; expansion of coverage of school and preschool education for children in mountain regions.	MoES, NISS, PRP in the regions, LA	2025-2027	National budget, donor funds	UNICEF, WB, ADB, EU
40.	Conducting an analysis of poverty levels in mountain regions to develop further measures for its reduction.	Mapping poverty levels among the population of mountain regions; reducing poverty rates in mountain areas.	MEC, NSC, PRP in the regions, LA, MLSSM	2025-2027	National budget, donor funds	WB, ADB, UNICEF

41.	Creation and development of geoparks, promotion and conduct of research in mountainous areas for the establishment of geoparks	Establishing a foundation for sustainable management and preservation of the natural and cultural heritage of mountainous regions through established geoparks	MNRETS, MEC, PRP in the regions, NASC	2025-2027	National budget, donor funds	UNESCO, GIZ, local destinations
42.	Promotion of cultural tourism through modernization and improvement of historical and cultural sites, creation of a network of cultural heritage in mountainous regions, and enhancement of the capacity of cultural and educational institutions. Creation and annual updating of a calendar of cultural and mass events in the regions of the Kyrgyz Republic.	Increasing the attractiveness of regional (local) museums and historical sites for foreign tourists (including provision of English-language guides, including via QR codes).	MCISYP, MEC, PRP in the regions, LA,	2025-2027	National budget, donor funds	UNDP, AKDN, UNESCO
43.	Conducting a comprehensive survey of the geographical, demographic, social, economic, and environmental aspects of the mountainous regions of Kyrgyzstan	Publication of a comprehensive report on sustainable mountain development in the Kyrgyz Republic. Release of an interactive map of Kyrgyzstan's mountainous areas	Working group composed of SRP, NISS, NSC, MEC, MF, MNRETS, MWRAP, MES, MLSSM, MDD, NASC, PRP in the regions, CAIAG	2025-2027	National budget, donor funds	UNDP, UNICEF, OSCE, WB, GEF-UNDP-UNESCO

Chapter 3. Conservation of vulnerable and unique mountain ecosystems and species

44.	Update of the Red Book of the Kyrgyz Republic dated 2006. Development of digital platforms with up-to-date and open environmental data	Field work, accounting and new data on the status of vulnerable and unique species of flora and fauna. Digitalization and open environmental data. Species conservation plans	MNRETS, NASC, MA	2023–2027	National budget, UNDP, UNEP, GEF	Non-profit organizations, IUCNNR, GSLEP
45.	The participation of civil society in assessing environmental threats and environmental violations, and taking measures to address them	Consideration of public eco-risk maps	MNRETS	2023–2027	National and local budgets, donor funds	Non-profit organizations, MAP.KG, ECOMAP
46.	Updating management plans. Strengthening the scientific base, monitoring and technical potential of the network of operating specially protected natural areas	Clarification of the boundaries of specially protected natural areas and their open maps. Scientific basis, SMART monitoring and patrolling	NASC, MNRETS	2023–2027	National budget, donor funds	Non-profit organizations
47.	Creation of new specially protected natural areas, an increase of coverage areas and typology, including key areas of biodiversity	Expansion of the area and coverage zones of specially protected natural areas under the global goals of 2030-2050. New types (geopark, etc.)	MNRETS, UNESCO National Commission (upon agreement)	2023–2027	National budget, donor funds, CEPF, GEF, UNDP, UNESCO	Non-profit organizations
48.	Preparation of nominations for inclusion in the List of UNESCO World Heritage Sites	The Khan Tengri State Natural Park, the Saimaluu-Tash State Natural Park, and others are included in	MNRETS, UNESCO National Commission (upon agreement)	2023–2027	National budget, UNESCO, UNDP	CAIAG, UNESCO Cluster Office in Almaty, non-profit organizations

		the List of UNESCO World Heritage Sites				
49.	Implementation of environmental protection approaches and coordination of sustainable environmental management outside specially protected natural areas. Strategic Environmental Assessment (SEA) for mega-projects of mountain development	Involvement of hunting and forestry companies, and mountain and tourism companies in environmental protection activities. SEA for large infrastructure	MNRETS, MWRAPI	2023–2027	National budget, donor funds	Non-profit organizations
50.	Preservation of the ecosystem of the Issyk-Kul biosphere territory, including mountainous areas, in the context of sustainable development of tourism, fisheries and other economic activities	Assessment of the risk of pollution and depletion of water and mountain ecosystems. Action plan, monitoring and recovery measures. Tourism regulation considering environmental capacity and features	MNRETS, MEC, MWRAPI	2023–2027	National budget, donor funds	Department of Fisheries, MA, MNRETS, OSCE (via Aarhus Centers)
51.	Improving the policy and management system of the forest industry	Action plan for the implementation of the Concept of development of the forest industry of the Kyrgyz Republic to 2040. Reducing the load (grazing, logging, nut harvesting, etc.) on forests	MES	2023–2027	National budget, donor funds	GIZ

52.	Forest restoration and implementation of measures to reduce land erosion and the risk of emergencies within the framework of the Bonn Challenge and the Sendai Framework for Disaster Risk Reduction for 2015-2030	Restoration of 23 thousand hectares of forests and 300 thousand hectares of degraded landscapes	MES	2023–2027	National budget, WPF, WB	Donors, WPF UN via support for projects in rural communities
53.	Conservation of mountain lakes, wetlands and other key threatened habitats	Maps and records of lakes, plans for the protection of rare species and monitoring. Climate adaptation measures	MNRETS, NASC	2024–2027	National budget, UNEP, GEF SGP, UNDP	GEF SGP, GMC, MSF, Wetlands International
54.	Implementation of the "Asian Mountain Garden" concept, development of plantations and micro-reserves for in-situ and ex-situ (natural parks, nature reserves and zoos, cryobanks) plant conservation	Restoration and improvement of the Bishkek Botanical Garden. Creation of a botanical garden in Naryn. A network of micro-reserve	MNRETS, NASC	2024–2027	National budget, donor funds	Society of Soil Scientists of the Kyrgyz Republic, Archa Initiative and others
55.	Development of technical and organizational capacity to implement the Nagoya Protocol on CBD Genetic Resources	Evaluation of the use of medicinal and other plant species in medicine and others. Implementation of a benefit-sharing mechanism	NASC, MNRETS, MA	2023–2027	National budget, UNDP, donor funds	UNDP, non-profit organizations
56.	Implementation of a national biosafety mechanism and improvement of seed production measures and practices to reduce the risk of alien species and GMOs	The regulatory framework for biosafety under the Cartagena Protocol. Technical potential (laboratory). Reducing	MA, MNRETS, MH	2023–2027	National budget, donor funds, GEF	FAO, IFAD, "Dyikan Muras" (network of women seed growers)

	(Cartagena Protocol to the Convention on Biological Diversity)	risks to public health and natural ecosystems				
Chapter 4. Disaster risk reduction and mitigation of climate change in the mountainous area						
57.	Organization and execution of riverbank protection works, restoration of disturbed mountain territories and water protection areas	Restoring hazardous and domestic waste landfills and mining-related sites to a safe condition (reclamation). Reducing risks to nature and health from hazardous chemicals	MES, MA, MNRETS, PRP in the regions	2023–2027	National budget, EU, EBRD, ADB, OSCE, UNEP, donor funds	Specialized and non-profit organizations
58.	Reducing risks to settlements and infrastructure related to natural disasters and climate change	Monitoring of glacial and high-altitude lakes, and mudflow basins. Creation of a forecasting system, early warning, and development of an emergency and climate risk map. Raising awareness and readiness of the population	MES, MWRAPI, CAIAG (upon agreement)	2023–2027	National budget, adaptation fund, GEF, CAFEWS, WB, UNDP	UNESCO, CAIAG, OSCE, University of Fribourg, Zurich, UNDP, WMO, non-profit organizations, local public administrations
59.	Development of a network for monitoring snowfields, avalanches, glaciers, buried ice and permafrost (cryosphere), as well as high-altitude and remote meteorological observations	Reliable forecasts of water availability for irrigation and energy. Reducing risks to infrastructure (strategic roads). Assessment of	MES, MNRETS, NASC	2023–2027	National budget, donor funds, GIZ, CROM-ADAPT	CAIAG, WMO

		glaciers and snowfields. Contribution to the international exchange of cryosphere data				
60.	Development of regional NAPs (National Adaptation Plans) taking into account local conditions and aimed at reducing economic and production losses due to climate change in vulnerable mountain communities, and implementation of measures to reduce disaster risks and protect mountain ecosystems for sustainable mountain development	Enhancing the adaptive capacity of mountainous regions to climate change, considering the natural and climatic characteristics of the regions	PRP in the regions, MNRETS, MWRAPI, MES, MH, MLSSM	2023–2027	National budget, donor funds, GCF, WPF UN, SDC, WB, UNDP	Non-profit organizations, local public administrations
61.	Promoting a low-carbon economy based on a long-term strategy of low-carbon development until 2050, hydropower and carbon absorption capacity of forests and pastures	A low-emission development strategy. Increasing the potential of hydropower and absorption of soils and forests. Tracking the implementation of climate measures and commitments.	MEC, MWRAPI, MNRETS, NASc	2023–2027	National budget, GCF, bilateral and multilateral treaties, UNDP, UNEP, ICAT, CAREC, donor funds	International Organizations and non-profit organizations

* More detailed information on the preparation and holding of the Bishkek+25 Global Mountain Summit is set out in the Concept

** Regional-scale plans and projects, including the development of transport and economic corridors, systems for predicting and warning about dangerous weather, mudflows, and floods, modernization of hydrometeorological networks and environmental monitoring, etc.

The annual volume of implementation of the roadmap activities is estimated in the range of 50-100 million US dollars per year, including confirmed and promising funds from donors, the private sector, the republican budget, public-private partnerships, and intangible contributions from government agencies and public organizations.

*** considering the development of "green" cities, the Program for the development of a "green" economy in the Kyrgyz Republic for 2019-2023 (<https://minec.onom.gov.kg/ru/direct/302/335>)

List of abbreviations

Adaptation at Altitude	World survey/database of examples and practices of adaptation to climate change in mountain areas;
ADB	Asian Development Bank;
ADI	Agency of Development Initiatives;
AKDN	The Aga Khan Development Network;
BIO-KG	Federation of Organic Movement "BIO-KG";
BIOFIN	The Biodiversity Finance Initiative;
BioService PF	Consulting company in Central Asia on rural development with a focus on the organic sector;
BRS	Basel, Rotterdam and Stockholm Conventions;
CAFEWS	Central Asian Flood Early Warning System;
CAIAG	Central Asian Institute for Applied Geosciences;
CAMI	Central Asian Mammals Initiative;
CAREC	Central Asian Regional Environmental Program;
CASA	Central and South Asia Power Transmission Project;
CAWEP	Central Asia Water & Energy Program;
CBD	Convention on Biological Diversity;
CCE	Center for Culture and Education;
CEPF	Critical Ecosystem Partnership Fund;
CESDRR	Center for Emergency Situations and Disaster Risk Reduction;
CMS	Convention on Migratory Species;

CPF	Carbon Partnership Mechanism
CROM-ADAPT	Swiss Glacier Research Program in Central Asia;
CS-FOR	Carbon sequestration through climate investment in forests and rangelands in the Kyrgyz Republic;
EBRD	European Bank for Reconstruction and Development;
ECOMAP	Electronic ecological map created by "Institute of Environmental Solutions" Public Fund;
EU	European Union;
FAO	Food and Agriculture Organization of the United Nations;
GCF	Green Climate Fund;
GEF	Global Environment Facility;
GEF SGP	GEF Small Grants Programmes;
GFC	Green Finance Center;
GIZ	German Society for International Cooperation;
GMC	Greifswald Mire Center;
GMO	Genetically Modified Organism;
GSLEP	Global Snow Leopard and Ecosystem Protection Program;
HLPF ECOSOC	United Nations Economic and Social Council High-Level Political Forum;
ICAT	Initiative for Climate Action Transparency;
ICIMOD	International Center for Integrated Mountain Development;
IKI	International Climate Initiative (Climate Fund) Germany;
IMF	International Monetary Fund;
IMI IUK	International Mountain Institute of the IUK;
IOM	International Organization for Migration;
IPCC	Intergovernmental Panel on Climate Change;
IUCNNR	International Union for Conservation of Nature and Natural Resources;

IUK	International University of Kyrgyzstan;
IWRM	Integrated water resources management;
KYRSEFF	Sustainable Energy Financing Program in the Kyrgyz Republic;
LA	Local Authorities;
LPA	Local Public Administration;
MWRAPI	Ministry of Water Resources, Agriculture and Processing Industry of the Kyrgyz Republic;
MAR	Mountain Assessments and Research within the Global Observing Group;
MCISYP	Ministry of Culture, Information, Sports and Youth Policy of the Kyrgyz Republic;
MDD	Ministry of Digital Development of the Kyrgyz Republic
ME	Ministry of Energy of the Kyrgyz Republic;
MEC	Ministry of Economy and Commerce of the Kyrgyz Republic;
MES	Ministry of Emergency Situations of the Kyrgyz Republic;
MES	Ministry of Education and Science of the Kyrgyz Republic;
MF	Ministry of Finance of the Kyrgyz Republic;
MFA	The Ministry of Foreign Affairs of the Kyrgyz Republic;
MH	Ministry of Health of the Kyrgyz Republic;
MLSSM	Ministry of Labor, Social Security and Migration of the Kyrgyz Republic;
MM	Mass Media;
MNRETS	Ministry of Natural Resources, Ecology and Technical Supervision of the Kyrgyz Republic;
MSF	Michael Succow Fund;
MTC	Ministry of Transport and Communications of the Kyrgyz Republic
NASc	National Academy of Sciences of the Kyrgyz Republic;
NEXUS	Water, energy and land resources management;
NIA	National Investment Agency under the President of the Kyrgyz Republic;

NSC	National Statistical Committee of the Kyrgyz Republic;
OECD	Organization for Economic Cooperation and Development;
OSCE	Organization for Security and Co-operation in Europe;
Panorama	Platform for sharing experience in solving environmental problems;
PRM	Bureau of Population, Refugees and Migration;
RCH	Regional Center for Hydrology;
RECCA	Regional Environmental Center of Central Asia;
Resiland CA+	Regional Program for Restoration of Sustainable Landscapes in Central Asia;
RMC ICSD	Regional Mountain Center under the Interstate Commission on Sustainable Development;
SAACHS	State Agency for Architecture, Construction and Housing Sector under the Cabinet of Ministers of the Kyrgyz Republic;
SDC	Swiss Agency for Development and Cooperation;
SDG	Sustainable Development Goals;
SEA	Strategic Environmental Assessment;
SPECA	United Nations Special Program for the Economies of Central Asia;
SPNA	Specially Protected Natural Areas;
UCA	University of Central Asia;
UN ECE	United Nations Economic Commission for Europe;
UN FCCC	United Nations Framework Convention on Climate Change;
UNDP	United Nations Development Programmes;
UNEP	United Nations Environment Programme;
UNESCO	United Nations Educational, Scientific and Cultural Organization.
WB	World Bank;
WMO	World Meteorological Organization;
WOCAT	World survey/database on sustainable agriculture;

WPF UN
WWF

United Nations World Food Programme;
World Wildlife Fund;