

“APPROVED”

by the Regional Forum – Meeting of the Heads
of Emergency Authorities of the Central Asian
Countries Minutes dated 17 October 2025

ROAD MAP
on the Establishment of a Regional Early Warning System
for Hydrological Disasters in the Pilot Transboundary
River Basins of the Central Asian Countries

Nº	Activities	Implementation period	Responsible executors	Expected outcomes
1.	Development of technical specifications for all system components	IV quarter 2025	CESDRR	Detailed terms of reference developed and agreed with GIZ
2.	Procurement and installation of automated hydrometeorological stations with a full set of sensors and other necessary equipment: - On the Ugam River (territory of the Republic of Kazakhstan) - On the Ugam River (territory of the Republic of Uzbekistan) - On the Zarafshan River (territory of the Republic of Uzbekistan) - On the Zarafshan River (territory of the Republic of Tajikistan) - On a transboundary river (to be specified) (territory of the Kyrgyz Republic) - On the Amu Darya River (territory of the Republic of Uzbekistan) - On the Amu Darya River (territory of Turkmenistan)	2026 rr. II quarter 2026 I quarter 2025 III quarter 2026 III quarter 2026 III quarter 2026 IV quarter 2026 IV quarter 2026	CESDRR, technical partners, NHMSs of the Central Asian countries, emergency authorities of the Central Asian countries, and water management agencies of the Central Asian countries	Automated hydrometeorological stations equipped with a full set of instruments have been procured and installed across all pilot river basins.
3.	Testing of the pilot model of transboundary monitoring (installation of paired stations)	2026	CESDRR, NHMSs of the Central Asian countries, and water management agencies of the	Successful testing of the pilot model of transboundary monitoring has been carried out — the stations have been fully integrated with each other.

			Central Asian countries	
4.	Development of a regional geoinformation platform (GIS) based at the CESDRR	IV quarter 2025 – II quarter 2026	CESDRR, Software Developers, Partners	A unified regional GIS platform has been deployed on the CESDRR server infrastructure, providing remote connectivity to the sensors of the installed automated stations.
5.	Procurement and installation of additional siren-voice systems in pilot areas, and development and implementation of a mobile application for public alerting	2026-2027	CESDRR, technical partners, emergency agencies of CA countries, water management services of CA countries	Additional siren-voice units have been installed at designated locations along the pilot river basins. A unified mobile application has been developed to alert the population through push notifications.
6.	Implementation of the MODSNOW model and other hydrological modelling tools	2025 -2026	GFZ, CESDRR	A unified regional hydrological modeling system was developed and implemented
7.	Training of national specialists and conducting transboundary training workshops	2026-2027	CESDRR, NHMSs of the Central Asian countries, emergency authorities of the Central Asian countries, and water management agencies of the Central Asian countries	A series of training sessions has been conducted for representatives of the NHMSs of the Central Asian countries, emergency authorities of the Central Asian countries, as well as representatives of local government bodies.
8.	Independent assessment of the system, preparation of recommendations and a region-wide scaling plan	2027	External Experts, TWGs, CESDRR	An independent evaluation of the system was conducted