



Geohazards Risk Reduction: High-Tech and Community Approaches

9 December 2021, Thursday
3-4:30 p.m. Manila Time (GMT+8)
Zoom



This online event presented case studies of landslide risk reduction projects in Kyrgyz Republic and Pakistan, and risk assessments that adopted technology solutions and community risk management to address geophysical hazards.

Asif Turangzai of ADB's Pakistan Resident Mission shared lessons on geo-hazards risks management from the recently completed Pakistan Flood Emergency Reconstruction and Resilience Project and the ongoing Pakistan National Disaster Risk Reduction Fund Project. Uzma Altaf, ADB's Gender Specialist, discussed the project's gender mainstreaming approach to and its linkages to disaster risk reduction and resilience.

Miguel Coulier of ICEM shared the recently approved ADB Landslide Risk Management Sector Project in Kyrgyz Republic. Andrea Tamburini of Tre Altamira discussed earth observation technologies for landslide risk assessment and monitoring used under project preparation and implementation.

It is important that landslide risk assessments are in a language and format that communities understand. Governments must meaningfully engage communities for efficient risk reduction through awareness, collaboration, knowledge, and usage of technology.

MIGUEL COULIER
Disaster Risk Management Specialist
(Consultant), ICEM

SPEAKERS



MIGUEL COULIER

Disaster Risk Management Specialist (Consultant),
International Center for Environmental Management,
Asian Development Bank



UZMA ALTAF

Gender Specialist (Consultant),
Asian Development Bank



ASIF TURANGZAI

Project Officer, Pakistan Resident Mission,
Asian Development Bank



STEVEN GOLDFINCH

Disaster Risk Management Specialist,
Asian Development Bank

MODERATOR

KEY MESSAGES

- Geohazard events remain a major development risk across Asia and the Pacific region and development partner programming plays an important role in supporting countries to systematically address geophysical hazard risks and reduce potential damages and losses.
- The ADB 2015 Flood Emergency Reconstruction and Resilience Project and 2016 National Disaster Risk Management Fund Project in Pakistan highlight landslide treatment and slope stabilization, retrofitting of public buildings in active seismic regions, and the use of Multi Hazard Vulnerability and Risk Assessments or MHVRA for resilient planning. Project activities includes probabilistic seismic hazard assessment, bioengineering and social engineering measures, road rehabilitation, planting of climate-resilient species and retrofitting public infrastructure following the national building code with assistance from experts.
- ADB's recently approved Landslide Risk Management Sector Project aims to reduce vulnerability and exposure of communities and infrastructure to landslide events in Kyrgyz Republic. Project activities take an integrated landslide risk management approach that includes aspects of understanding disaster risk, disaster risk governance, preparedness and build back better, and disaster risk reduction for resilience. Landslide run-out modelling has been employed to support subproject selection and feasibility study. Interferometric Synthetic Aperture Radar (InSAR) will be piloted during the project to support monitoring of landslide risks.
- Both projects highlighted the importance of communities as a major aspect of integrated disaster risk management. Effective community engagement translates to awareness, preparedness, enhanced capacity, and community resilience. Gender mainstreaming is equally important in all stages of projects to address gender barriers and promote empowerment of women.

FURTHER INFORMATION

ADB. 2019. Pakistani Women Plant Millions of Trees to Rebuild Climate Resilient Roads. <https://www.adb.org/news/videos/pakistani-women-plant-millions-trees-rebuild-climate-resilient-roads>

ADB Kyrgyz Republic: Landslide Risk Management Sector Project. <https://www.adb.org/projects/53022-001/main>

ADB Pakistan: National Disaster Risk Management Fund. <https://www.adb.org/projects/50316-001/main>

ADB Pakistan: Flood Emergency Reconstruction and Resilience project. <https://www.adb.org/projects/49038-001/main>