



Climate Change Adaptation and Disaster Risk Management

Earth Systems has core expertise in assessing risks and developing climate change adaptation (CCA) measures and disaster risk management (DRM) strategies for projects around the world. We use international best practice methodologies to develop strategies that effectively support more efficient and resilient communities and 'future proof' against a changing climate.

Decisions about climate change adaptation and disaster risk management rely on information, data and modelling of climate projections, hazards, vulnerability and loss, risk reduction and costing of adaptation measures.

Data and modelling are subject to uncertainty, and significant knowledge and experience is required to understand and interpret that uncertainty, as well as to consider local socio-economic and political context that will inform appropriate response measures.

Earth Systems has the necessary expertise to help organisations assess the risks of natural hazards and climate change. We utilise risk assessment frameworks and participatory assessment approaches to systematically identify and evaluate potential impacts and practical actions and tools to help understand and manage the risks.

SERVICES PROVIDED

- Climate modelling to assess potential impacts from climate change and natural hazards at different temporal and spatial scales.
- Development of national recovery frameworks and design and development of web-based recovery management and monitoring systems.
- Assessment of CCA and DRM policy, institutional arrangements and practices at international, national and sub-national levels.
- Strategic gender assessments of CCA and DRM initiatives and the development of strategies to promote greater social equality in policy and programs.
- Design and delivery of CCA and DRM capacity building programs.

PROJECT EXPERIENCE INCLUDES

- Disaster Risk Financing and Insurance Strategy Inputs and Recovery Framework Case Study, World Bank, Lao PDR.
- National Recovery Framework value for money strategy and monitoring system for disaster recovery for the Lao PDR government with World Bank support.
- Community Driven Disaster Risk Management in the East Asia Pacific, World Bank, Indonesia and Philippines.

DISASTER RECOVERY CASE STUDY: LAO PDR

Earth Systems was commissioned by the Global Facility for Disaster Reduction and Recovery to conduct a Recovery Framework Country Case Study for Lao PDR to inform the development of an international best practice Recovery Framework Guide and provide a basis for operationalising the Disaster Recovery Framework in the local Lao PDR context.

The Country Case Study focused on the recovery and reconstruction experience during recent disasters including typhoons Kestana (2009) and Haima / Nock-Ten (2011) as well as the 2013 flood events.

Earth Systems then developed a comprehensive Disaster Recovery Framework including a Recovery and Reconstruction Management Platform (RRMP) incorporating practical recommendations to simplify the recovery and reconstruction process whilst enabling transparency and monitoring and evaluation.

The RRMP provides a centralised platform for Lao PDR for the management of the recovery and reconstruction process, with real-time reporting and data visualisation outputs.

This project delivered guidance on:

- Institutional arrangements to implement and manage recovery
- Policy, planning and prioritisation for recovery
- Design, costing and financing recovery
- Monitoring and evaluation for disaster recovery.



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