

# Stories of Impact

*A series highlighting achievements in disaster risk management initiatives*

## Weathering Future Storms in the Seychelles



### RESULTS & ACHIEVEMENTS

- The government of Seychelles developed short, medium and long-term disaster resilient development initiatives which are expected to benefit 87,000 people, and rehabilitate and protect 500 km of roadways from disasters.

- The Damage and Loss Assessment (DaLA) laid the foundation for the creation of Sub-Saharan Africa's first World Bank-financed disaster contingent credit line, which provides the government with \$7 million in immediate liquidity in the aftermath of a large-scale catastrophe.

- As a result of the extensive risk financing assessment, Seychelles recently joined the newly launched Southwest Indian Ocean Risk Assessment and Financing Initiative, a regional effort to increase fiscal capacity to respond to disasters.

- The results of the DaLA led to the development of multi-risk mapping and an extensive review of flood risk financing options to address the \$30 million estimated cost of immediate reconstruction and recovery needs.

**REGION:** AFRICA  
**COUNTRY:** SEYCHELLES  
**FOCUS AREA:** RESILIENT RECOVERY

Following repeated cyclones and heavy flooding in the Indian Ocean Island of Seychelles, the government renewed its efforts to increase resilience to natural disasters. When Tropical Cyclone Felling battered the multi-island country with heavy rain in January 2013, the government of Seychelles, with support from the World Bank and the Africa Caribbean Pacific-European Union Natural Disaster Risk Reduction (ACP-EU NDRR) Program, an initiative managed by the Global Facility for Disaster Reduction and Recovery (GFDRR) worked to assess the damages and ensure that recovery efforts mitigate the effects of future natural hazards.



**GFDRR**  
Global Facility for Disaster Reduction and Recovery

ACP-EU Natural Disaster Risk Reduction Program  
An initiative of the African, Caribbean and Pacific Group, funded by the European Union and managed by GFDRR



**WORLD BANK GROUP**

## Context

Seychelles, with its steep terrain and location in the Indian Ocean, is highly vulnerable to tropical cyclones, floods, storm surges, landslides and tsunamis. The risk is further exacerbated by climate change and sea-level rise. The 2013, Cyclone Felleng caused flooding and landslides that led to damages and losses exceeding \$8.4 million, or .77% of the country's gross domestic product (GDP). Seychelles' infrastructure was the heaviest hit, with many roads completely washed away by the storm.

## Approach

In the wake of the disaster, the government, implemented a National Flood Task Force, and with support from the World Bank Africa Disaster Risk Management Group and GFDRR through the ACP-EU NDRR Program conducted an innovative Damage Needs and Loss Assessment (DaLA) to evaluate the social, economic and environmental impacts of the storm, and quantify needs to increase resilience to future disasters. To ensure that post-disaster recovery is resilient:

- The government, in coordination with United Nations (UN) agencies, the World Bank and the European Union (EU), conducted a DaLA.
- World Bank experts trained key ministries in affected sectors such as infrastructure and agriculture in the DaLA methodology.
- Using the results from the assessments, a disaster recovery framework on flood-risk management was proposed, providing vital recommendations on integrating flood risk management considerations at the institutional, investment and policy levels.
- The implementation of risk transfer and insurance mechanisms was recommended, sparking the launch of a similar, region-wide initiative.

## LESSONS LEARNED

**Lack of compliance to building regulations increased impact of the disaster.** The DaLA revealed that lack of compliance and lightly enforced regulations, especially in the areas of construction and land use planning contributed to losses. Local authorities are now working to better enforce building regulations and zonal planning, and disaster-prone zones have been identified.

### **Working together is essential to building back better.**

At the time of the disaster, no standardized communication system for stakeholders was in place. It was evident that long-term disaster resilient development for disaster-prone countries can only be achieved when stakeholders collaborate in a joint effort. The government has been strengthening its partnerships with all levels of society, from the private sector to non-profit, as evidenced by the implementation of the DaLA, so that a comprehensive framework can be effectively implemented.

## Next Steps

The DaLA provided a clear understanding of damages, needs and losses within the impacted sectors. This laid the groundwork for immediate and long-term recovery and reconstruction efforts needed to withstand the negative impacts from future disasters. Medium-term and long-term goals were also established and included the relocation of key public buildings to higher ground, the preparation of an integrated national disaster risk management plan, the revision of the flood management legal framework and the development of new risk-based building codes.

*"The 2013 floods were a wakeup call for the entire nation, and perhaps a reminder similar to that of the 2004 Indian Ocean tsunami—that Seychelles is not safe from disasters. The Seychelles DaLA report is proof of the Seychelles' government's resolve and commitment to ensure the safety and well-being of our people as well as the conservation of endemic flora, fauna and the country's other limited natural resources."*

— Rolph Payet, Minister of Environment and Energy, Seychelles

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\*All figures in US Dollars