



# Integrated Climate (and Disaster) Risk Management

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### Prevention

This phase comprises all the measures that help **prevent** or minimize possible damage from an event.



### Recovery



After the impact of a natural hazard, infrastructure and other areas of society must be **rebuilt**, so that people can resume their livelihoods as quickly as possible.

### Response



This phase comprises all **emergency measures** aimed at saving human lives in the event of a natural disaster.

### Retention & Transfer



Even when preventative actions have been taken, some **residual risk** remains. In the Retention & Transfer Phase, it is important to conduct a cost-benefit analysis to determine if pre-disaster financing or insurance would be appropriate.

### Preparedness



Preparedness contains a complex set of activities such as setting up **early warning systems**, **developing contingency plans**, organizing various activities such as stockpiling of equipment, and coordination and training as cross-cutting issues.





## Applying the approach across sectors – examples

- **Risk analysis**
- Hazard mapping: vulnerability of e.g. power infrastructure
- Understanding of climate projections
- Design to withstand projected hazards
- Ongoing maintenance
- **Land use planning** with restrictions
- ...
- Projects in e.g. West Balkan, Thailand, India ...

- **'Build back better'** opportunity
- Design standards for resilient design
- Enhance building standards/ codes
- Improved location based on risk mapping
- ...
- Projects in e.g. Nepal



- Rapid repair, access to spare parts, expertise and capacity through pre-established institutions/ channels
- **Access to finance** immediate after a disaster
- ...
- Projects in e.g. Malawi using existing payment mechanism (social protection)

- Insurance for **damage** to e.g. energy infrastructure
- Insurance along the value chain (harvest-packaging-transport) against floods
- ...
- Projects in e.g. China, Barbados, Ghana ...

- **Early warning systems** for energy suppliers
- Contingency plans for...
- Disaster preparedness processes are in place (training)
- ...
- Projects in e.g. West Balkan, Philippines ...



**Thank you for your attention**