Sea level rise, salinization, coastal erosion and inundation

Experience and good practises

Building the basis - elements

Projections/Mapping

Mapping the extent of hazards, ex. Barbados sealevel rise mapping (pilot) GIS simulations of impacts – scenario mapping

Assessments - impact on sectors and geographical areas

Cost-benefit analysis – creating better basis for decision making - from scenarios to probabilistc assessment more detailed mapping of impacts, adaptation options and their costs – what do actually make sense to implement, Australia

Regional iniative, Carribien. Economic assessment of expected losses, a suite of adaptation options to use as basis for dialogue with decision makers on what options may be considered

Monitoring climat change and its impacts

- •Data collection infrastructure in place, Barbados
- Building databases nationally and regionally

Building the basis – best practises

- Capacity building programmes
 UNDP programme for post disaster, including medium and small scale events
- Regional cooperation as well as cross regional learning
- •Potential for using exisiting date from ex. existing DRR databases (GAR), IFRC hurricane hazards and also floods
- •Involving a range of organisations and stakeholders, St.Lucia: stakeholder meetings to assess the impacts due to costal erosion
- Dialouge with decision makers

Risk reduction/adaptation

Infrastructure

Coastal erosion, coastal defence such as seawalls, St. Vincent, timberlogs, Sechelles Seadefence measures, Barbados, south coast resulted in more sand

•Ecosystem services

- Mangrove planting, Singapore
- Rainwater capture as alternative to desalination plants, Maldives
- Insurance as tool for risk reduction, sealevel walls and information on risk management, Barbados
- Tradition approaches, Marshall Islands
 - Diversification strategies for food security
 - Temporary relocation to parts less affected where food is avaiable
- Civil Society and NGOs as drivers show casing for government action
- Early warning system, Thypoon Warning, Marshall Islands

Risk retention, risk transfer and recidual risk

•Risk transfer

Build in incentives in insurance to reduce exposure by providing reduced premiums if risk reduction measures are taken, Barbados

- Experience increased premiums
- CRIF -
- Displacement, Marshall Islands
 - •Building upon experiences from nuclear displacement.
 - ·Bikini Island inhabitants were given a new atholl
 - Trust fund to assist the displaced

Gaps and limitations

- •Capacity and skills, including ability to quanitfy losses
- •Institutional structures
- •Enabeling environment, including regulatory frameworks
- Insurance do not accomodate for slow onset
- Data sharing in relevant and targeted forms
- •Pubic awareness
- From **policy to implementation**

Responses and strategies

- Capacity and skills
- •Institutional structures
- Enabeling environment
- •Insurance
- Data sharing
- •Pubic awareness
- •From policy to implementation

Priorities

•Holistic approaches

Responses and strategies

Gaps and limitations

Recommentations

Capacity and skills

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- •Projections/Mapping GIS simulations
- Assessments
- Monitoring