UNFCCC Expert Meeting on Socio-economic information under Nairobi Work program on Impacts, Vulnerability and Adaptation

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Grahad Casia, Marcah 10-10, 0000

Stock taking of Socio-economic baseline information and scenario development:

National Scale

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Some Definitions.....

- → Climate Change: any change in climate over time.
- Climate Variability: variations in the mean state and other statistics (such as occurrence of extremes, etc.) of the climate on all temporal and spatial scales.
- Adaptation is a process to cope with the changing environment.
- Mitigation is interventions to reduce the sources or enhance the sinks of greenhouse gases.

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Introduction

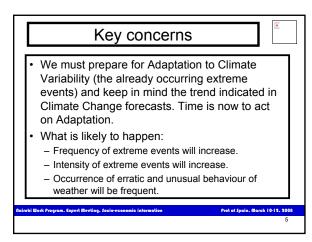
Goals set out in 1992 through UNFCCC

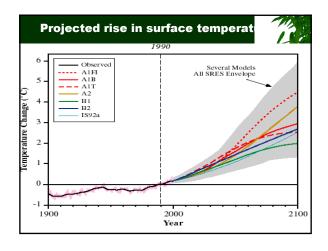
- Stabilize the GHG concentrations at a level that would prevent dangerous anthropogenic interference with the climatic system- prevention.
- Such a level should be achieved within a time frame sufficient to allow
 - To allow ecosystems to adapt naturally to climate change.
 - To ensure that food production is not threatened, and
- To enable economic development to proceed in a sustainable manner.
- Goals of 1992 has not been achieved; negotiations are underway to address the threats, in post Bali regime.

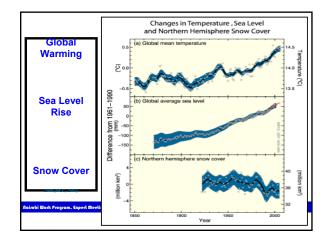
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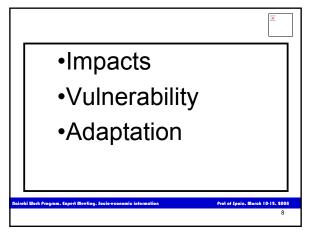
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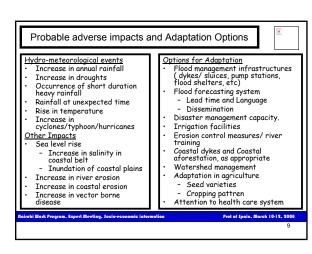
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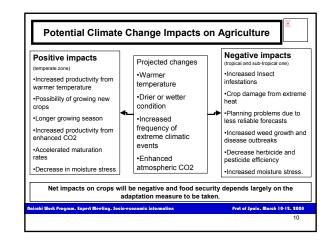


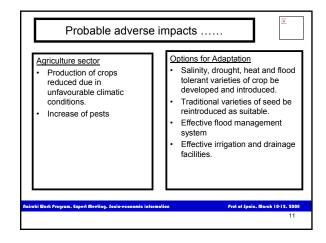






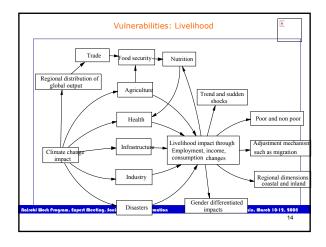


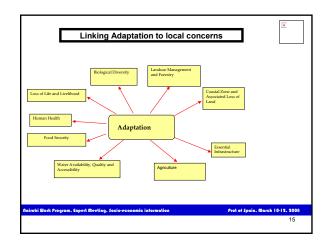


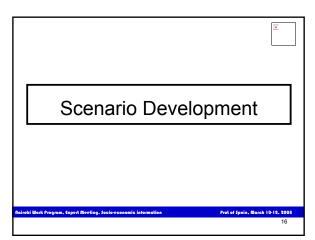


Climate and Related Elements	Most Impacted Sectors	
Temperature rise and drought	Agriculture (crop, livestock, fisheries), Water Energy Health	
Sea Level Rise and Salinity Intrusion	Agriculture (crop, fisheries, livestock) Water (water logging, drinking water, urban) Human settlement Energy Health	
Floods	Agriculture (crop, fisheries, livestock) Water (urban, indisatry) Infrastructure Human settlement Health Ussater Energy	
Cyclone and Storm Surge	Marine Fishing Infrastructure Human settlement Life and property	
Drainage congestion	Water Agriculture (crop)	

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Physical Vulnerability Context								
Extreme Temperat ure	Sea Level Rise		Drought	Flood		Cyclone and Storm	Erosion	Sectoral Vulnerability Context
	Coastal Inundation	Salinity Intrusion		River Flood	Flash Flood	Surges		
+++	++	+++	+++	+++	++	+++	-	Crop Agriculture
++	+	+	++	++	+	+	-	Fisheries
++	++	+++	+	+	+	+++	-	Livestock
+	++	-	-	++	+	+	+++	Infrastructure
++	+++	++	-	++	+	++	-	Industries
+++	+++	+++	+	++	+	+	-	Biodiversity
+++	+	+++	++	++	-	++	-	Health
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++	+	-	+	+	-	+	-	Energy







Tools and methodologies for analysis

- Statistical analyses based on probability functions on basis of past observed data (preferably of 30 years) is used by engineers and professionals to plan and design irrigation projects, flood management infrastructures, drainage systems (also bridges/ culverts) etc.
 Modification to this approach will be required.
- Results from GCMs/ Climate Models, developed at regional or country level, that will project <u>future</u> conditions will be required to <u>'climate proof'</u> all infrastructures and decide upon design parameters.

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Tools for analyses



- Hydro-dynamic models for predictions of floods, river flow, river erosion, coastal erosion
- Community Based Vulnerability Assessment will be an important tool.
- PRA analysis/ consultations with local communities
- Community's role in disaster management be enhanced.

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Planning horizons



- Target year
 - 2012 to match with Kyoto protocol ?
 - 2015 to match with MDG Targets?
 - 2030, 2050, 2100 to match with IPCC projections. ?
- Short term, Mid Term and Long term scenarios may be developed;

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Baseline Socio-economic data

