

Implications on Natural Resource Management and Ecosystem based Adaptation

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Role of Natural Resources...

- Provide ecosystem services like water, clean air, recharge hydrological cycle, etc
- Provide raw material for industry, strengthening the economy and fuelling growth engines
- Support livelihoods, particularly of the poor
- Act as social security for poor, whose earning options are very limited and uncertain
- Plays key role in poverty eradication and supports food and nutritional security



Climate change and food

Climate Change

Hydrologic and CO₂ changes

Nitrogen fertilization

Food supply and demand

Extensification

Loss of crops genetic diversity

Salinization and erosion

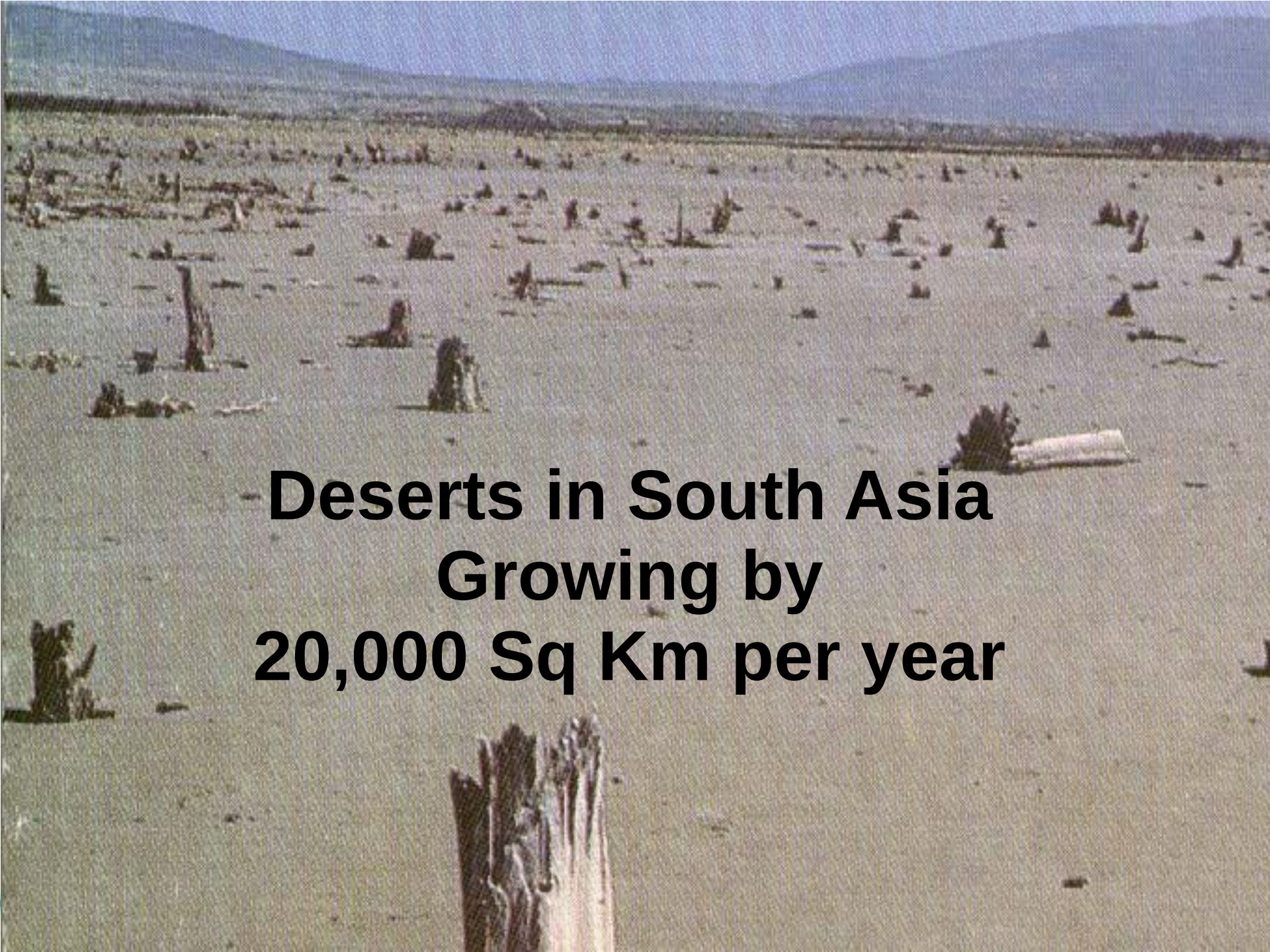
Fertility loss

Land degradation

Unsustainable forestry

Loss and fragmentation of habitats

Biodiversity loss



**Deserts in South Asia
Growing by
20,000 Sq Km per year**

Implications...

- Depleting natural resource, mainly affecting poor communities
- Invasion of alien species changing ecosystem
- Change in river course
- Shrinking resources – increasing conflicts
- Malnutrition
- Migration
- Hunger
- Slipping poverty eradication goals
- Limited alternative options for the poor to adapt
- Increasing rich-poor divide



Extinction and invasion of species



Migration



What can be done...

- **MITIGATE GHGs**
- Imagine world without many crucial resources and alternatives to adapt
- Prioritise role of Natural Resources – products or services (?)
- Conservation is best policy to ensure ‘Ecological Services’
- Policymakers are yet to understand the implications, they need to be sensitised and capacitated
- Its no more Adaptation at the same place: **Relief – Reconstruction – Resettlement – Rehabilitation – Resilience Building**





Thank you !



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