Impacts of Climate Change and Adaptation Policies on the Nile Delta Coastal Zones

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Data from Ouda, 2010
\[ \sim 6000 \text{ km}^2 (24\%) + \sim 2000 \text{ km}^2 (8\%) = 8000 \text{ km}^2 (32\%) \]
Amounts of sediments transported into the Nile Delta before and after Aswan Damming (Data recorded from gauge stations)

Data from Shalash, 1973 and Galay et al, 1999
Coast line changes at the Rosetta Promontory between 1925-2001

Measured Eroded Distance: 6.7 m.
Adaptive Processes and Policies

Sea Walls

Natural chain of sand dunes

Coastal Protection constructions

Ras Al-Bar Resort BEFORE

Ras Al-Bar Resort AFTER
International coastal road

- Resources and capacities building
- Awareness program and media campaign
- Regional data base and knowledge exchange system
- Regional monitoring and observation system
- Regular Maintenance program for protection structures
- Research budget and funds should be increased

Natural lakes and wetlands
Thanks for your attention!