

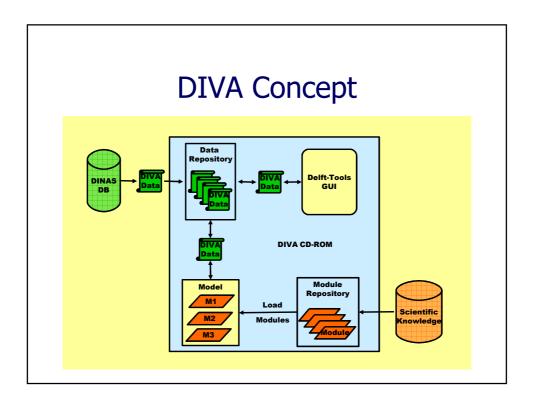
DIVA (Dynamic Interactive Vulnerability Assessment) Model

DIVA

Developed by EU-funded DINAS-COAST Project:

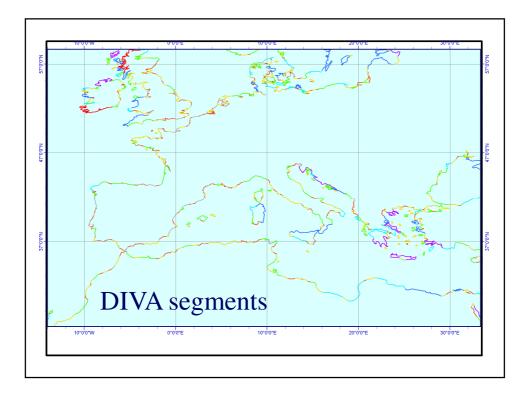
- Potsdam Institute for Climate Change Research (PIK),
- University of Southampton (was Middlesex University),
- Sussex University (was Hamburg University),
- Delft Hydraulics (now Deltares),
- Vrije Universiteit, Amsterdam.
- An integrated tool to explore sea-level rise
- Comprises data and algorithms
- Considers national, regional and global scales
- Adaptation is an integral component

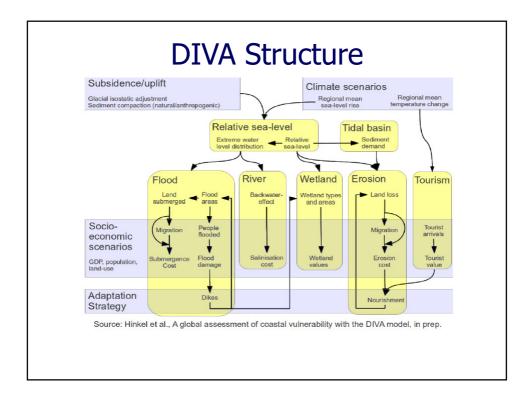
	•	Responses Rise in DIVA
NATURAL SYSTEM EFFECTS		SELECTED ADAPTATIONS
1. Inundation, flood and storm damage	a. Surge (sea) b. Backwater effect (river)	• Dikes
2. Wetland loss (and change)		Forbid hard defencesSediment nourishment
3. Erosion (direct and indirect morphological change)		Beach nourishment
4. Saltwater Intrusion	a. Surface Waters	
	b. Groundwater	
5. Rising water tables/ impeded drainage		

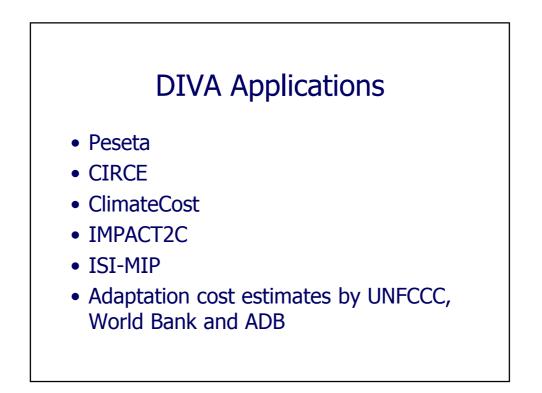


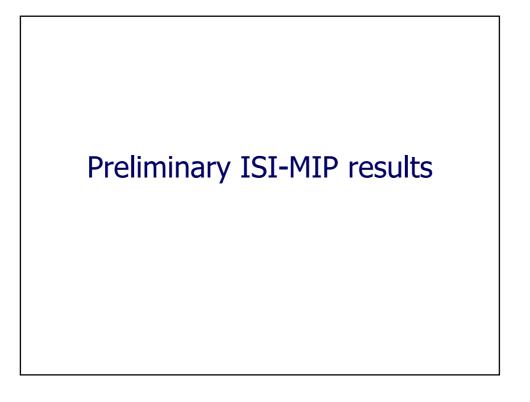


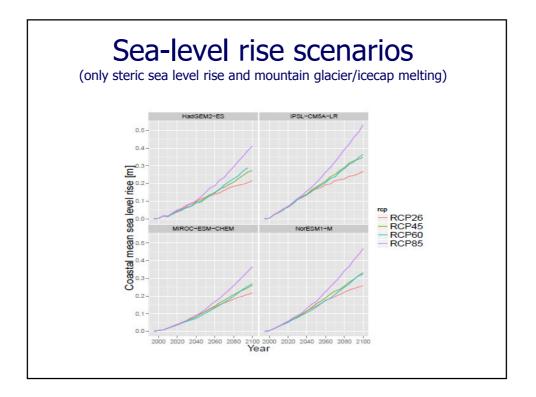
- Derived from existing and new global data stored in a geodatabase;
- Mapped to 12,148 linear segments of 'similar' vulnerability (1-D structure);
- Comprises about 100 natural, ecological and socio-economic factors;
- Deltas have subsequently been added as a geographic feature.

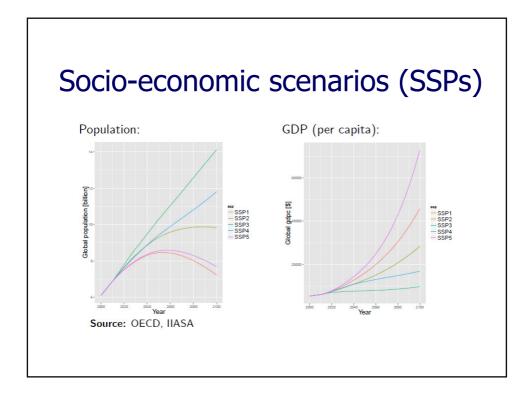




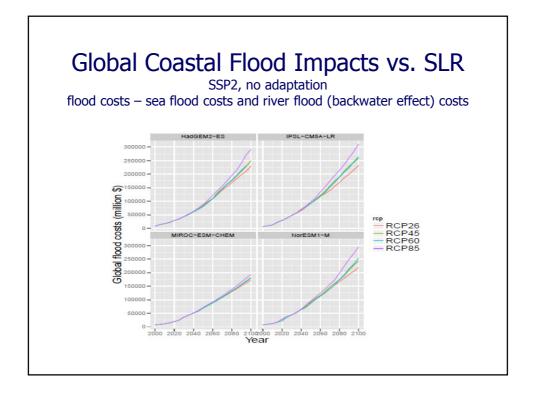


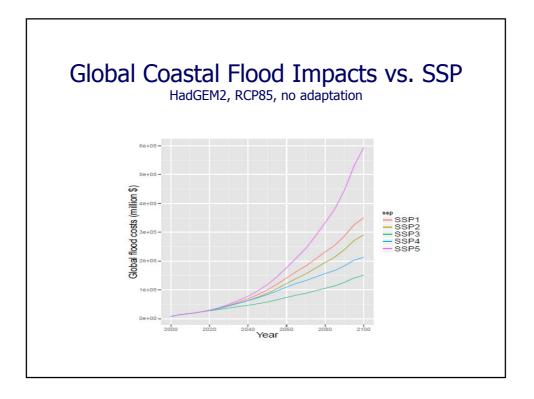


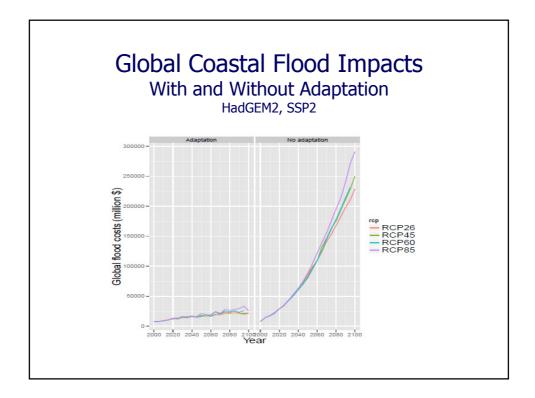


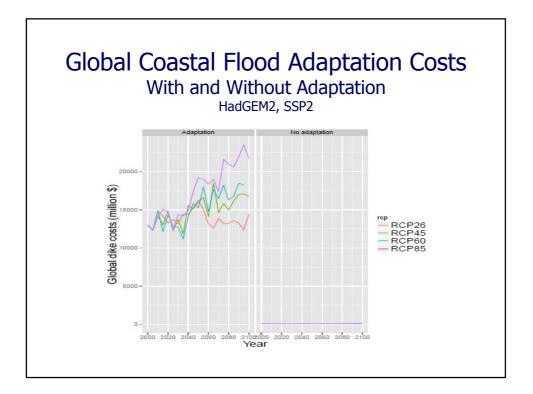


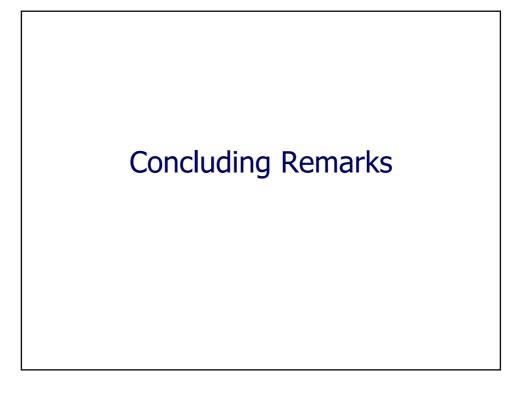


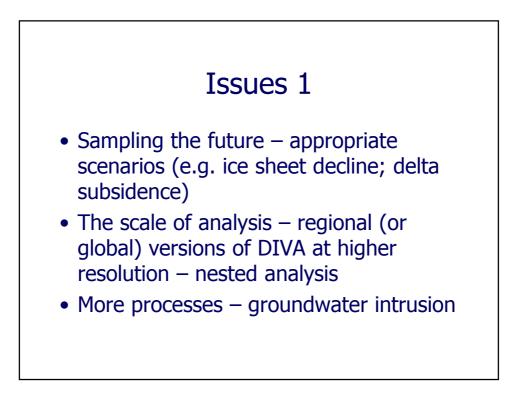












Issues 2

- Capturing adaptation protect, accommodate and retreat (in stylised form)
- Real-world adaptation
- Adaptation deficit

