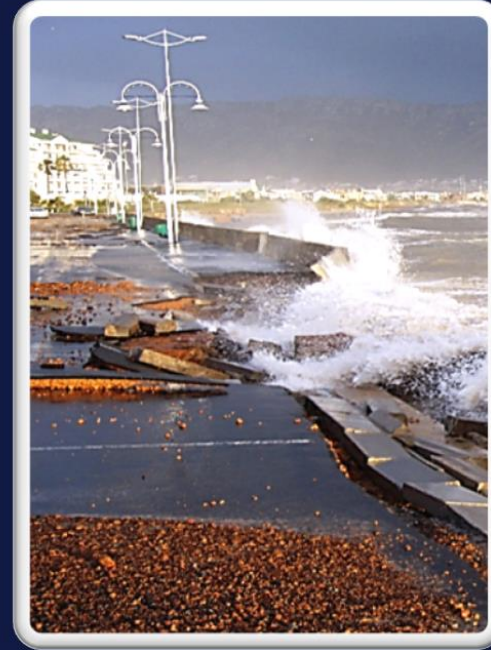


Coastal vulnerability in South Africa



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Expert Dialogue
Bonn
17 June 2019

Status Quo

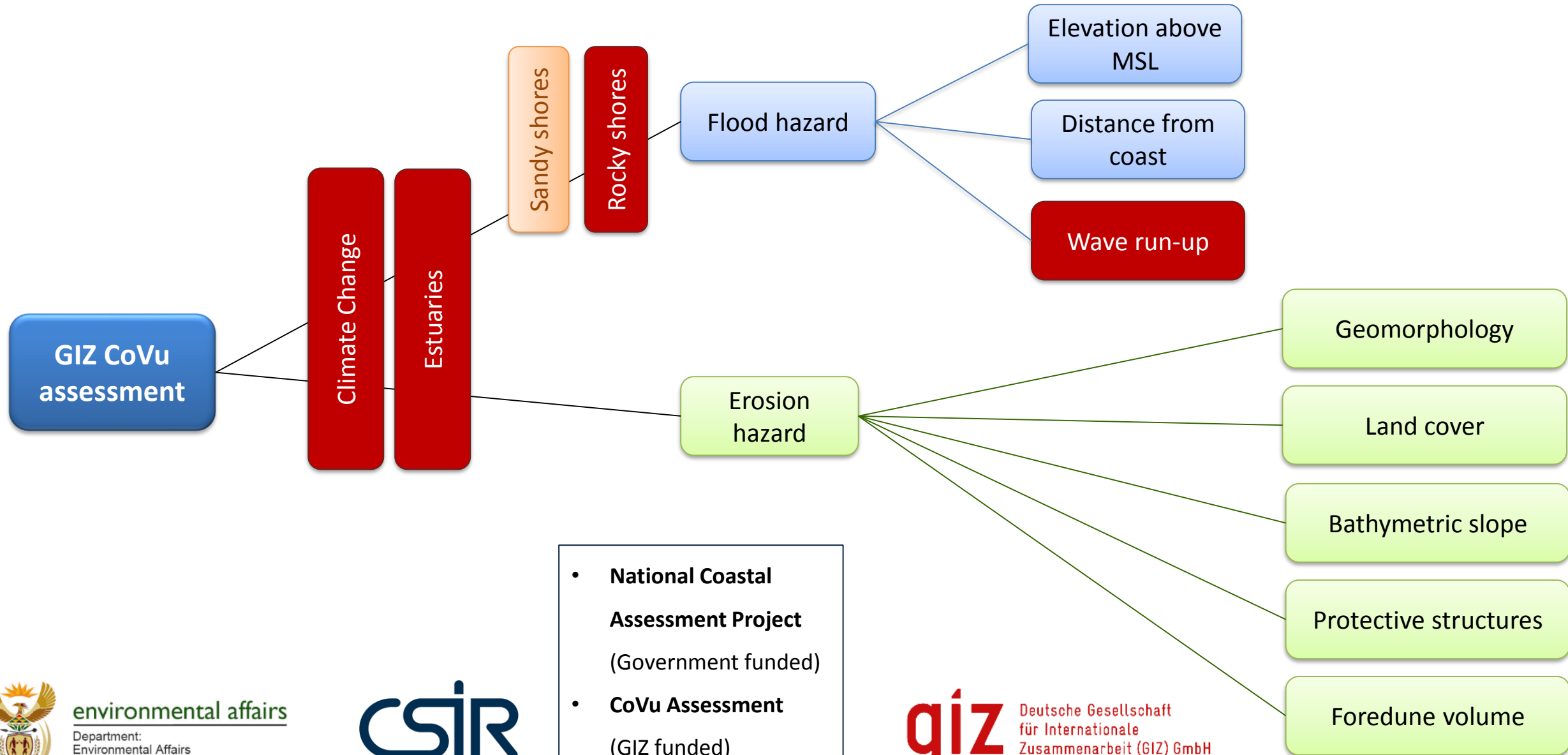
South Africa's coasts

- Ca. 3,000 km long
 - Ca. 300 estuaries
 - Ca. 35% of population (ca. 20 million) living there
 - high economic contribution (ports and natural resources)
 - Highly erosive high energy wave regime
- **High vulnerability of people and infrastructure**

South Africa's challenges

- 4 coastal provinces
 - 46 coast municipalities
 - Low technical capabilities
 - Very limited funding
 - Slow internet
- **Only about 5 municipalities are capable to assess coastal risk and to respond adequately**

Comprehensive geospatial vulnerability assessment for SA coast



- **National Coastal Assessment Project**
(Government funded)
- **CoVu Assessment**
(GIZ funded)

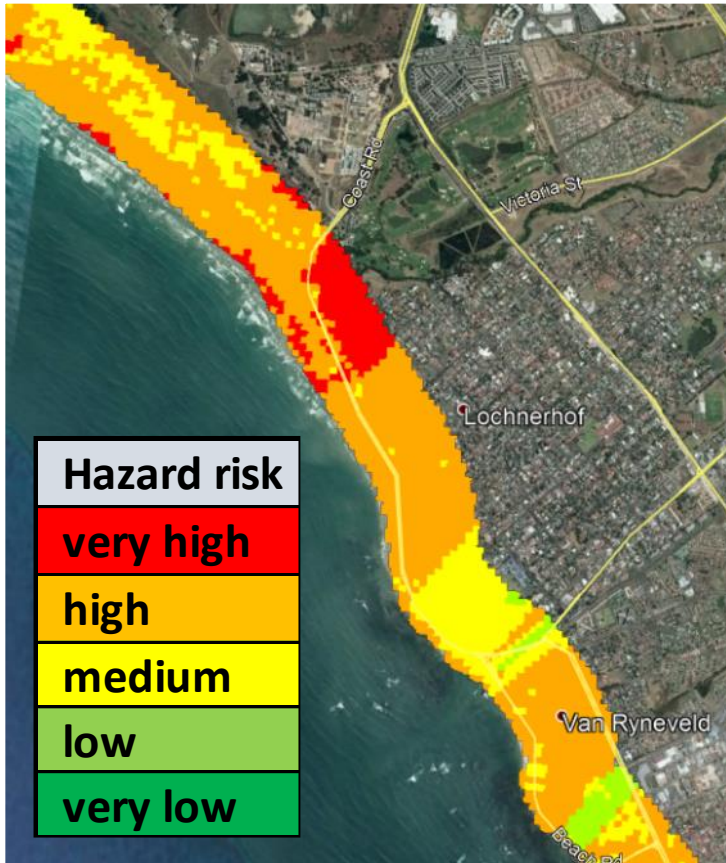
Comprehensive geospatial vulnerability assessment for SA coast



Hazard risk
very high
high
medium
low
very low

Spatial extent:
500m inland
or
up to 40m contour,
whichever
comes first.
30m pixel size.

The challenge: from Identification to Mitigation!



National government: drafted National Climate Change Adaptation Strategy

BUT: most local municipalities:

- do not have GIS and numerical modelling capability
- Do not have engineering and other mitigation skills
- Do not have funding

The gap:

- Desktop based easy-to-use decision support tools
- Off-line solutions (weak internet)
- Capacity building at governance levels
- Awareness rising of coastal vulnerability in municipalities and communities
- Additional incentives to provoke change (insurance industry)



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

Thank you

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Cluster: Smart Places

Coastal Systems Research Group

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