

Adaptation planning & implementation in the coastal zone

Dr Robert Kay



coastal zone management pty ltd

Responding to Coastal Change

(including sea level rise)

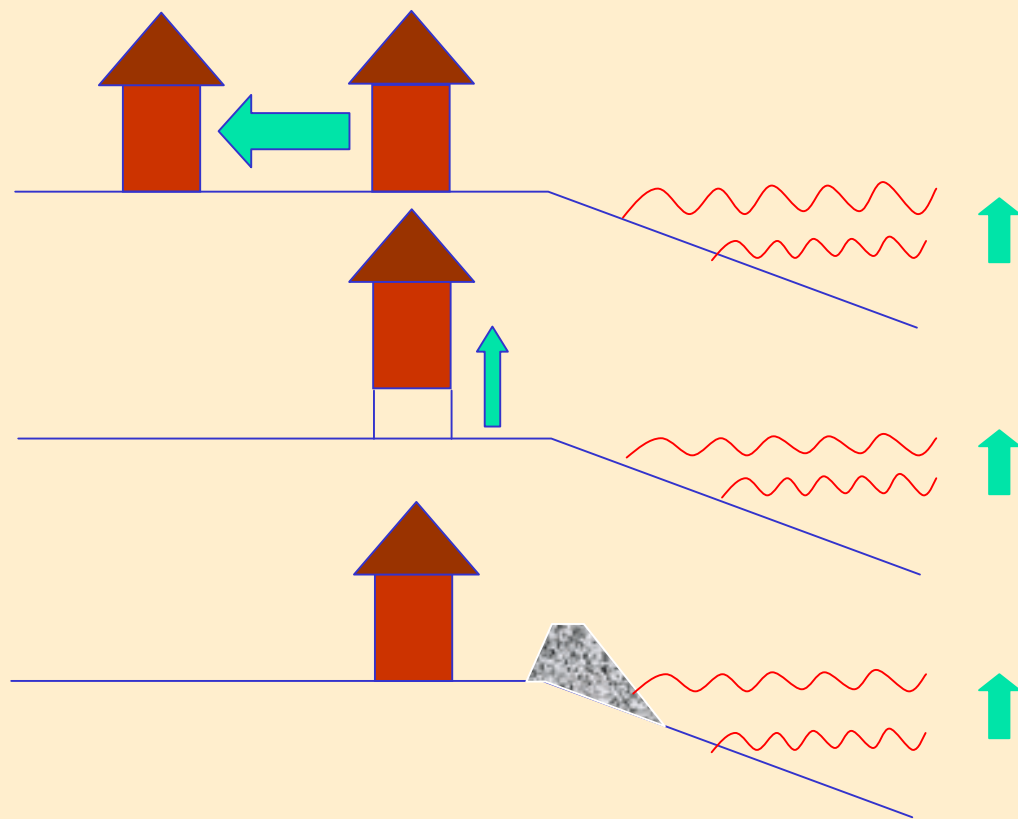
- Retreat

- Accommodation

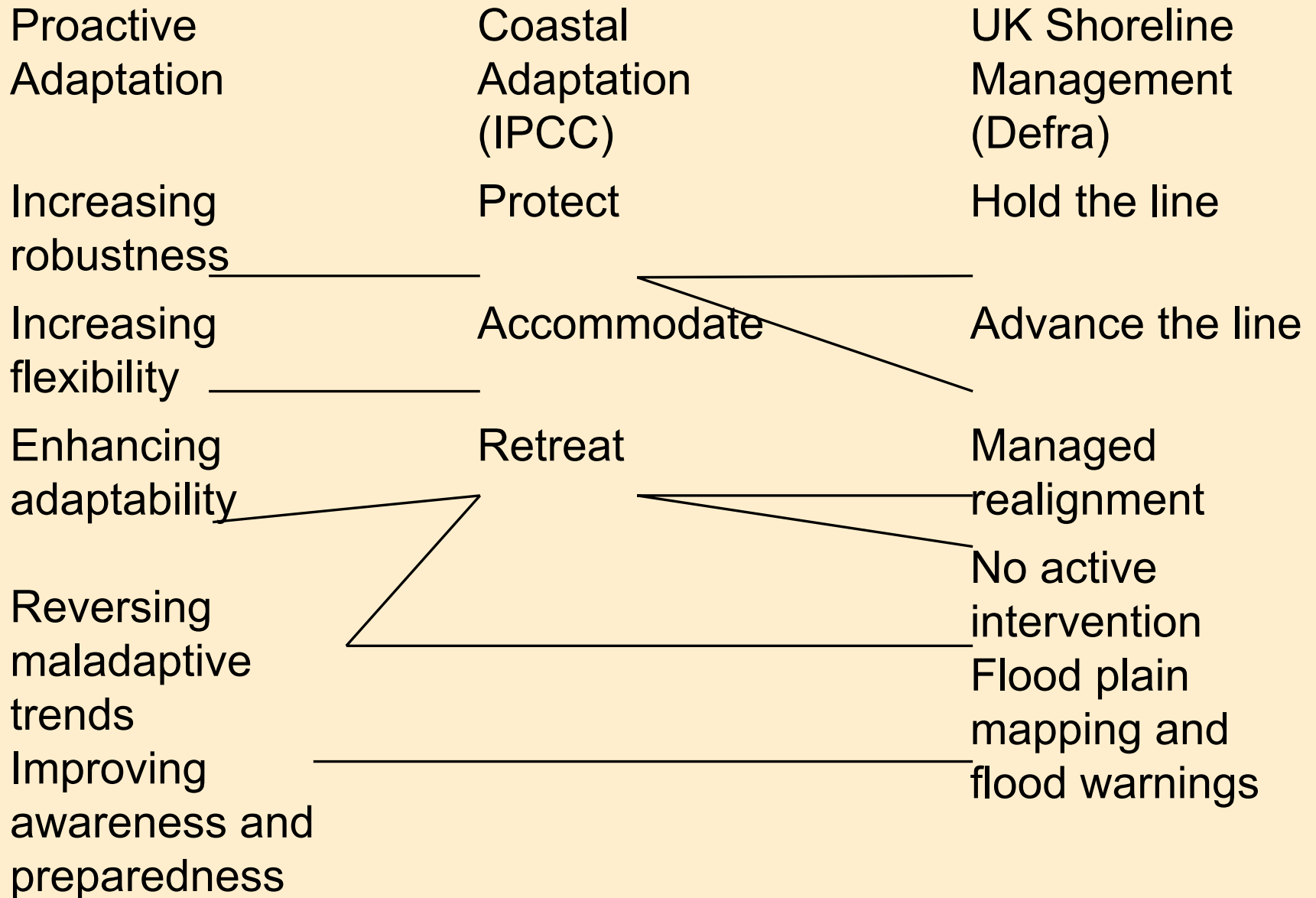
- Protect

- Soft

- Hard



Shoreline Management and Adaptation

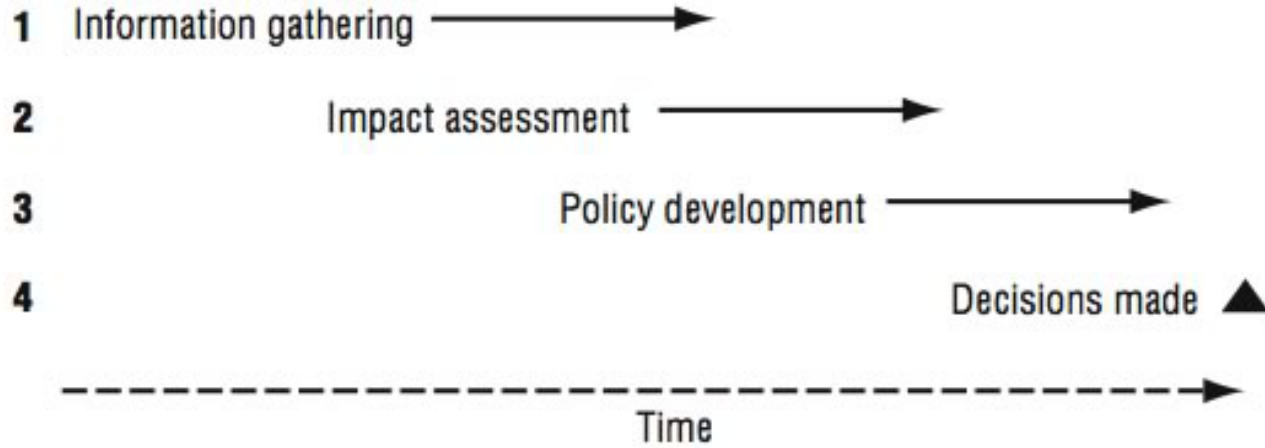


Adaptation Decisions

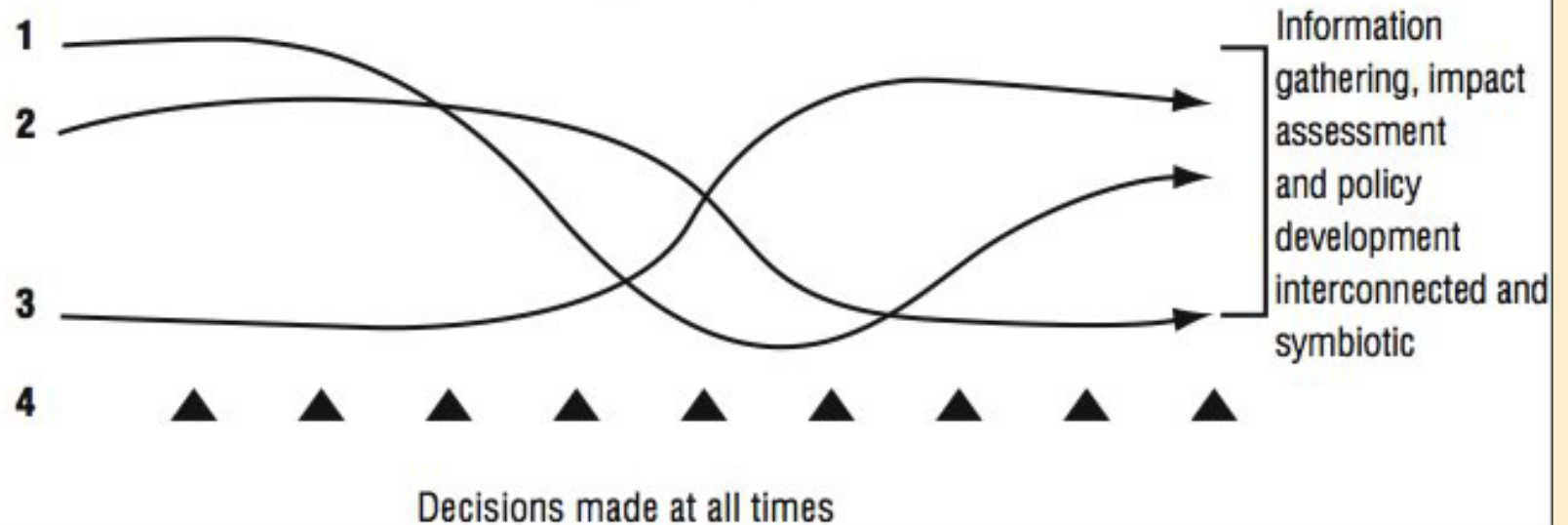
Economic Development Plan Insurance changes
Subdivision Port Wharf Redesign
Airport Upgrade
Conservation Plan Tourism Venture Approval
Development Approval
Catchment Plan Environmental Impact Statement
Regional Plan
Seawall construction Rezoning
Fisheries Plan Tourism Master Plan
Local Policy



Ideal view

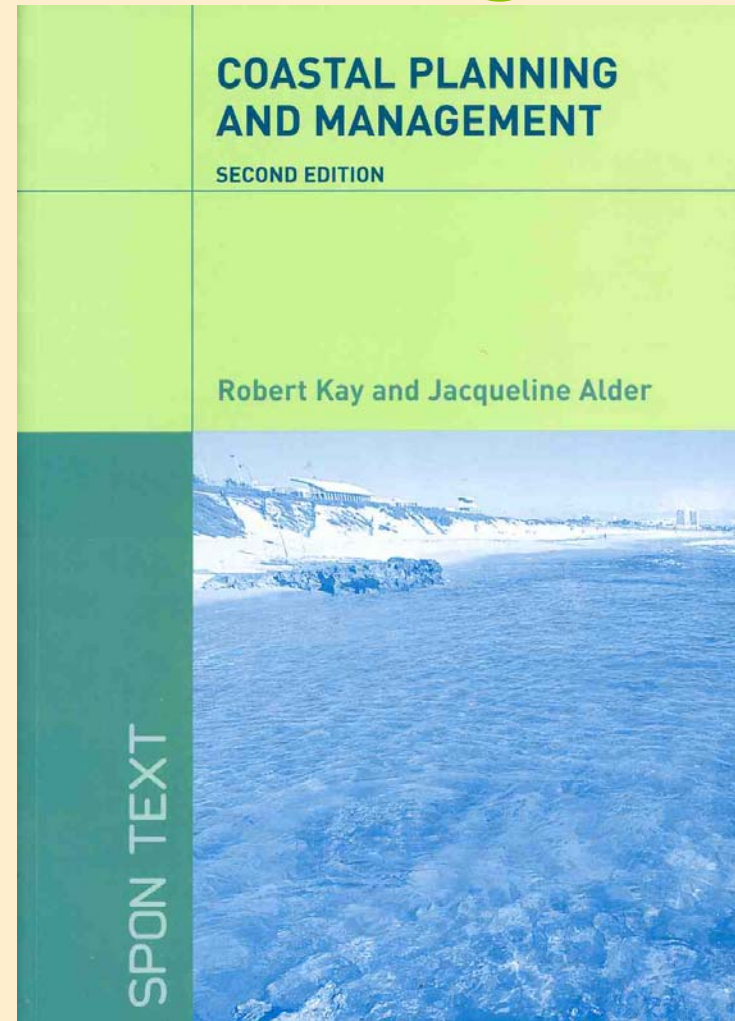


Real world view

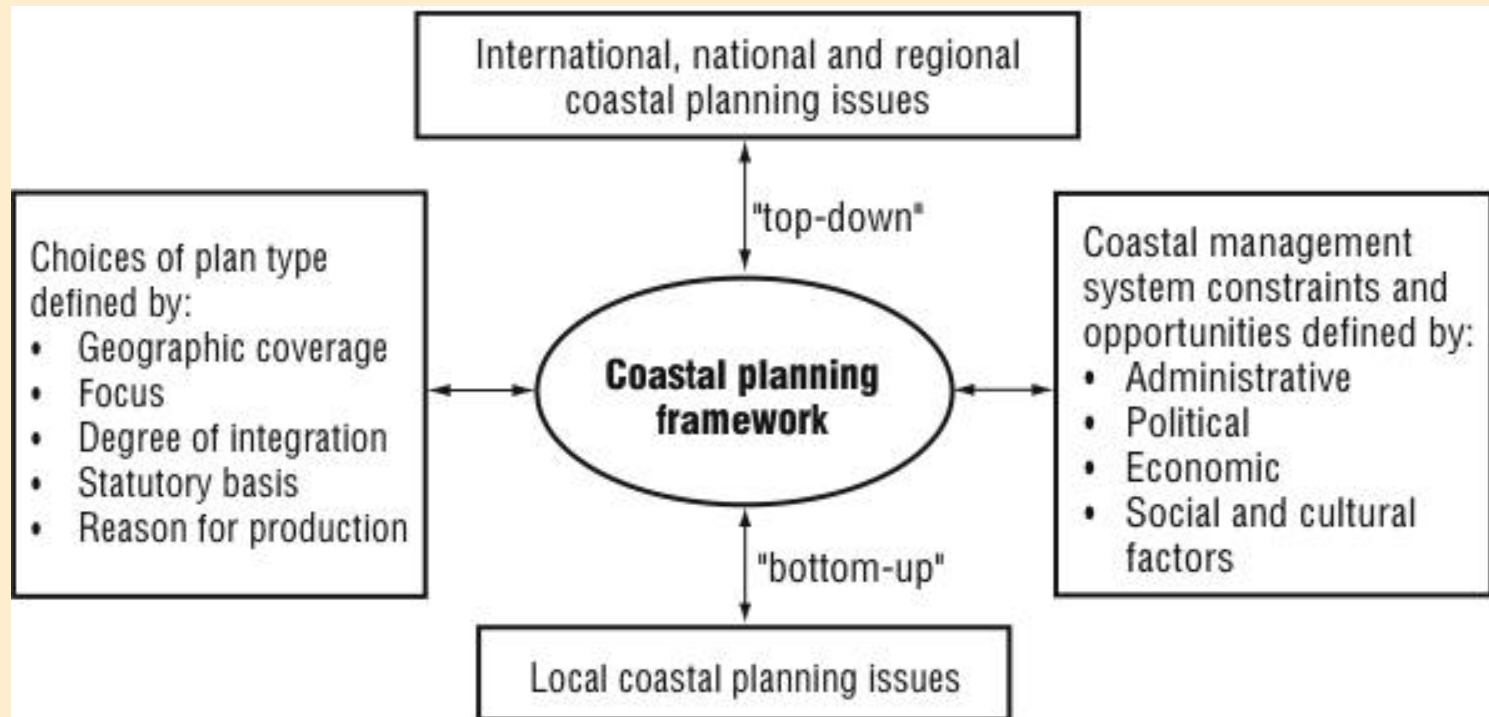


Coastal Decision-Making

- ❑ Lots of information on managing coastal zones
- ❑ Wealth of practical experience
- ❑ Mixed results!



Planning Frameworks



Report on Latin American adaptation workshop

“In general, participants agreed that the region faces difficulties in bridging adaptation assessment and planning with the implementation of concrete adaptation action. This was identified as lack of resources and institutional capacities and the lack of integration of climate concerns in national policies”

FCCC/SBI/2006/19 para 32



Example mitigation policy - Western Australia (2003)

- “These setback guidelines provide direction for the siting of development, including subdivision and strata subdivision, on the Western Australian coast as defined in this Policy.
- The specific objectives of these guidelines are to provide a setback that protects development from coastal processes by:
 - absorbing the impact of a severe storm sequence;
 - allowing for shoreline movement;
 - **allowing for global sea level rise; and**
 - allowing for the fluctuation of natural coastal processes. “



Barriers

- Terminology - risk / V&A / disaster
- Lack of information resources in right format - for right target audiences
- “Run out of steam”
- Skewing adaptation options to funding provision
- Capacity - specific skills & character
- Difficult to verify impacts - physical, cultural and economic (poor baselining)



Concluding Remarks

- Barriers now well known & can be overcome
- Linkage between assessment & adaptation patchy
- Policy responses messy, complex & ongoing
- Urgent need for supporting **actual** coastal adaptation decisions in all their forms
- How will we track adaptation - or do we want to?

