

**Overarching Goal: Adapt coastal settlements to the risk of current and future coastal hazards using a combination of programs involving defence, retreat and accommodation approaches while improving the capacity of coastal communities to adapt.**

*Key words: coastal management, defend, retreat, accommodate, capacity building*

**Defend**

**Retreat**

**Accommodate**

**Capacity Building**

**Policy 1.** Sandy shorelines must be prepared for future coastal erosion events associated with climate variability and change.

**Policy 2.** Coastal settlements must be defended from the risks of current and future storm tides which may be affected by climate variability and change.

**Policy 3.** Coastal settlements should retreat from vulnerable shores when defence is not feasible in the future and the natural functions of shores must be restored.

**Policy 4.** Coastal settlement in flood prone areas must be designed to accommodate current and future storm tides.

**Policy 5.** The Capacity of the community and institutions to face current and future coastal hazards must be improved.

**Program 1.1 Beach nourishment in a changing climate:** Instigate a program to defend the current position of the shoreline through erosion control involving a combination of beach nourishment, dune restoration and (re)construction, and hard coastal defences.

**Program 2.1 Storm tides defence system:** Avoid inundation of vulnerable coastal communities under current and future storm tide events by combining hard and soft defence options to minimize the risk of storm tide inundation.

**Program 3.1 Retreat from high coastal hazard areas:** Develop innovative methods to retreat from areas at risk, including voluntary and compulsory mechanisms such as land swap, land purchase and resumption, land surrender, rolling easements and coastal setbacks to retreat from areas at risk from erosion and storm tides.

**Program 4.1 Space for water:** New space should be identified to allow extreme water levels to be accommodated during storm tides.

**Program 5.1 Community capacity and engagement programs:** Create capacity and engagement programs for coastal rehabilitation and restoration including programs for dunes and wetlands restoration.

**Program 1.2 Innovative erosion control approaches:** Identify and assess innovative approaches to address coastal erosion, including hard structures, beach drainage and emerging technologies.

**Program 3.2 Restoration of coastal environments:** Remove buildings and infrastructure affected by erosion and inundation and those within retreat areas and restore ecosystem functions of beaches, dunes, wetlands and riparian environments.

**Program 4.2 Design standards for buildings and infrastructure:** Buildings and infrastructure designs can be improved to accommodate extreme water levels during storm tides. These changes should apply to new and existing buildings and infrastructure.

**Program 5.2 Enhanced coastal education Programs:** Integrate climate adaptation into existing school education programs (primary and secondary levels).

**Program 1.3 Dunes restoration in a changing climate:** Identify, restore and maintain coastal dune systems threatened by the impact of sea level rise and extreme erosion.

**Program 5.3 Enhanced institutional capacities to manage coastal hazards:** Build capacity of council officers and other relevant organization to manage coastal hazard areas in a changing climate.

Statutory planning
  Non-statutory planning
  Non-statutory and/or statutory planning

**Coastal Management Adaptation Options Framework**