#### DAMAGE ALONG THE SHORELINE WHEN LAND AND SAND IS LOST TO THE SEA

## WHAT IS « COASTAL EROSION»

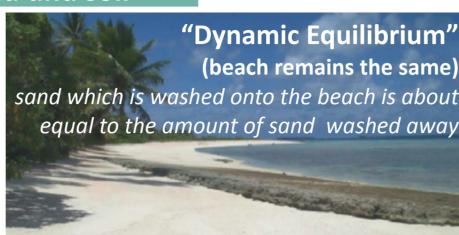
- Erosion is the process where soft shorelines (sand, gravel or cobble) disappear and land is lost.
- Erosion can damage houses and gardens if they are too close to the sea.
- Erosion occurs as a natural part of the coastal environment due to cyclic climatic conditions. It can also be man-made.

# 3 natural movements of coastal sand and soil



Natural cause

<u>Man made cause</u>



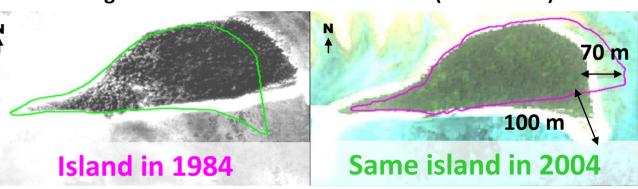


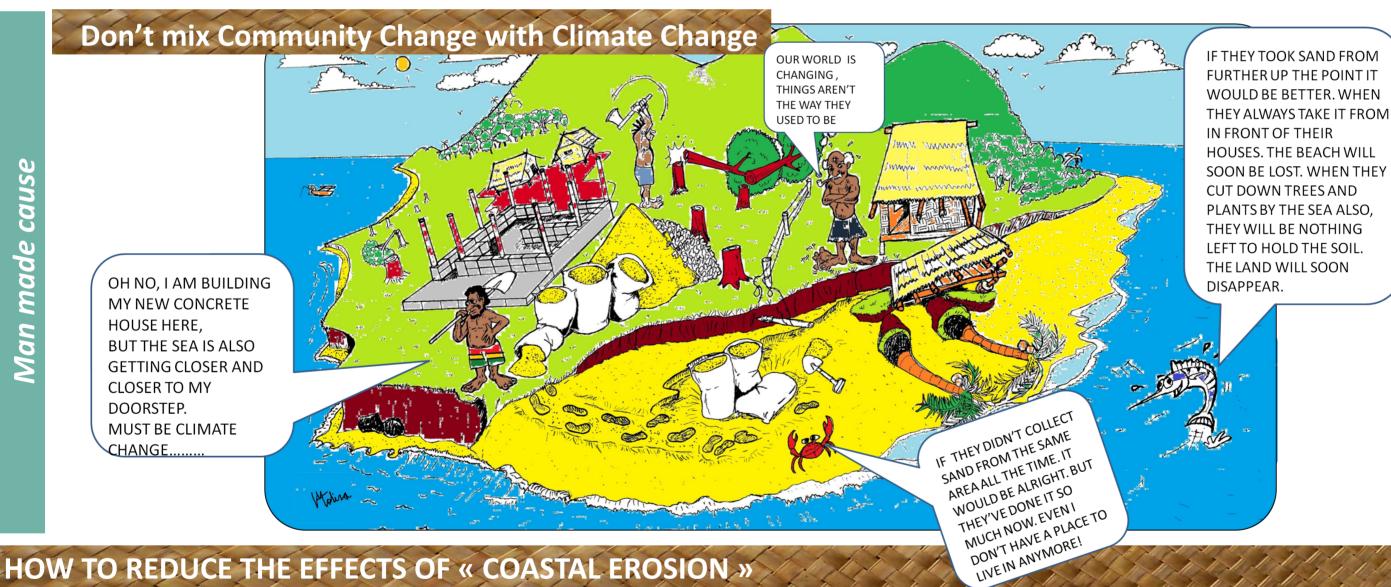
# « COASTAL EROSION » IS NATURAL BUT CAN ALSO BE INFLUENCED BY HUMAN ACTIVITY

 CYCLONE, TSUNAMI can produce huge storm surges which can cause huge movements of sand and coral.

- Different seasonal wind patterns can create large swells, tides that influence shifting sand movement around an island.
- Earthquakes can cause uplift or submersion of land.
- The hot season and weather can cause sea level to rise, very slowly (3 mm/yr globally; 6 mm/yr for Vanuatu)

This island is uninhabited Over a 20 year period the island lost approx. 70m of eastern coastline ("erosion") And gained 100m of southern coastline ("accretion").





# Activities contributing to increasing coastal erosion









### Activities that help prevent incresing coastal erosion











