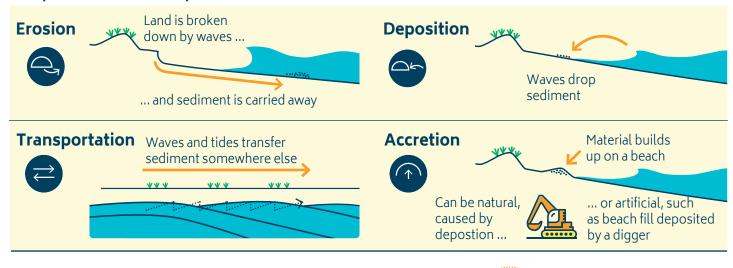
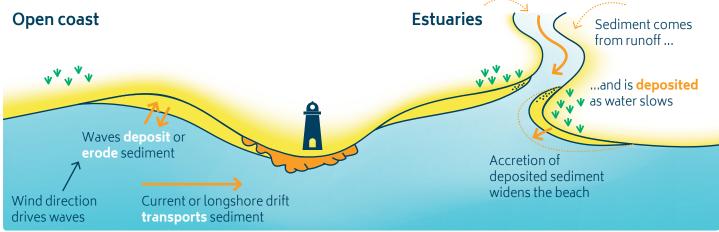
# What **shapes** our coastlines?

### The processes that shape our coast are:





### Changes in coastlines happen:



... over weeks to months, such as seasonal changes in the ocean ... over years, such as the occurrence of El Niño and La Niña events

... over decades or millennia, such as through changes in sea level and the height of the land (e.g. during an Ice Age).

Human activities can impact the coast on all of these timescales

## Climate change may affect coastal processes

#### Sea level rise



increases erosion, increase inundation

#### Wave climate changes



increase/decrease wave run-up, increase/decrease erosion and accretion, change transportation

## Storm frequency intensity and/or direction changes



changes to wave and storm surge patterns

## Rainfall and runoff changes







