

GLADSTONE HARBOUR MODEL

FIVE FAST FACTS

1. The Gladstone Harbour Model was developed by CSIRO to help GHHP explore potential futures for Gladstone Harbour.
2. This is a computer system that acts and thinks like its actually Gladstone Harbour!
3. Captures the dynamics of life within Gladstone Harbour.
4. It models human impacts on the harbour's environment and the effects of changes on the economic and social make up of Gladstone.
5. It has the capacity to represent environmental drivers, contaminants and other major disturbances.

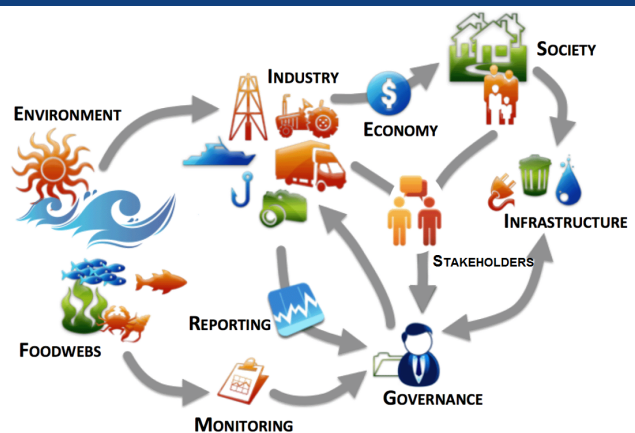


What does it include?

The Gladstone Harbour Model includes:

- Major biophysical processes present in marine, coastal and estuarine ecosystems.
- Major human activities, including commercial and recreational fisheries and rural and urban land use.
- Major industries in the region— ports, transport, tourism and recreation, heavy industry, agriculture and service industries .

A whole of system approach to modelling



Gladstone Harbour Model Domain—How does it work?

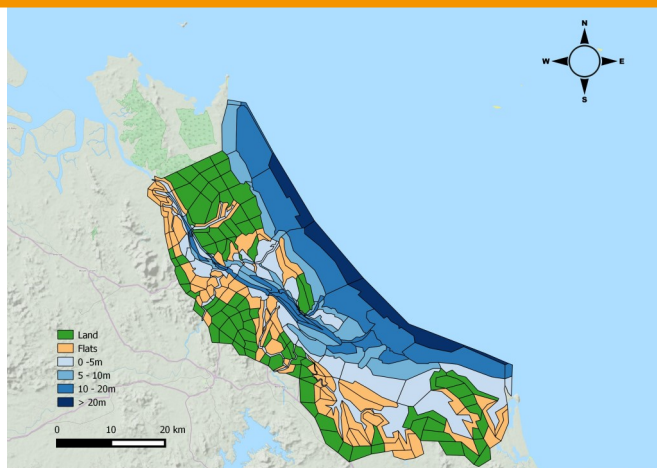
The model is used to effectively road test potential management strategies before implementing them.

The model uses a map consisting of 305 boxes (190 land and 115 wet boxes).

The properties represented in each wet box are based on the available geomorphology of sediments and soils, water column properties, temperature, salinity, dissolved oxygen, major current patterns and distribution of habitats.

Simple land use and its influence on run-off and river flows are applied to each of the land boxes.

The model covers an area from The Narrows to Rodds Bay.



Reports on the models developments can be found on the GHHP publications webpage <http://ghhp.org.au/publications>