Managed Retreat

Learning Objective:

-Investigate ways of using the natural environment to protect against flooding

Learning Outcomes:

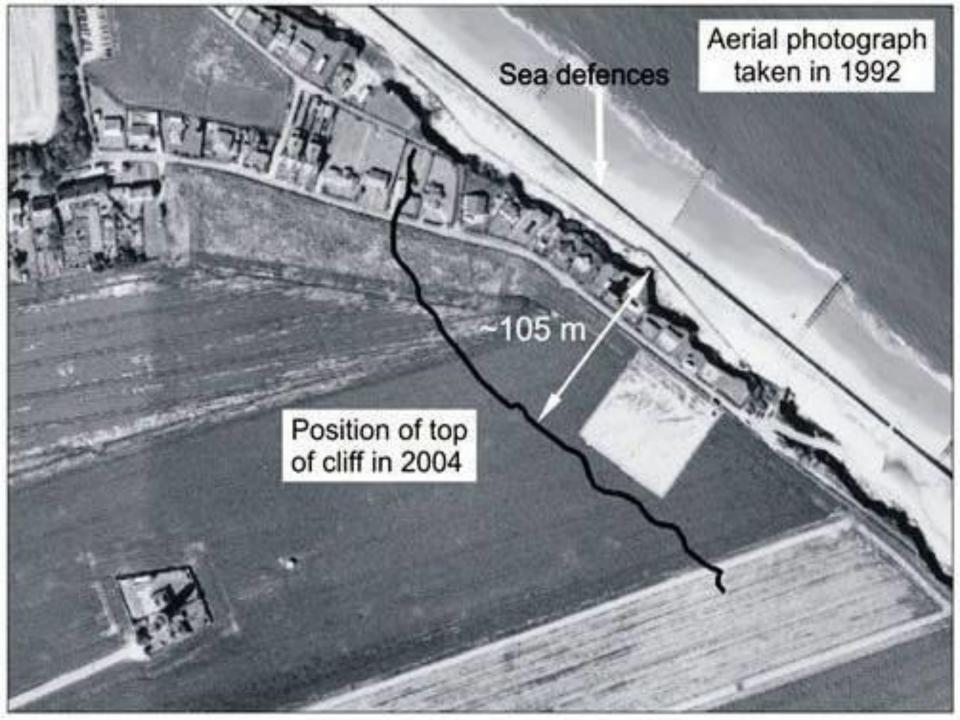
-Identify features of managed retreat

-**Explain** how management retreat reduces the effects of flooding

-Decide how to manage a stretch of coastline



How much is this house worth? £1!

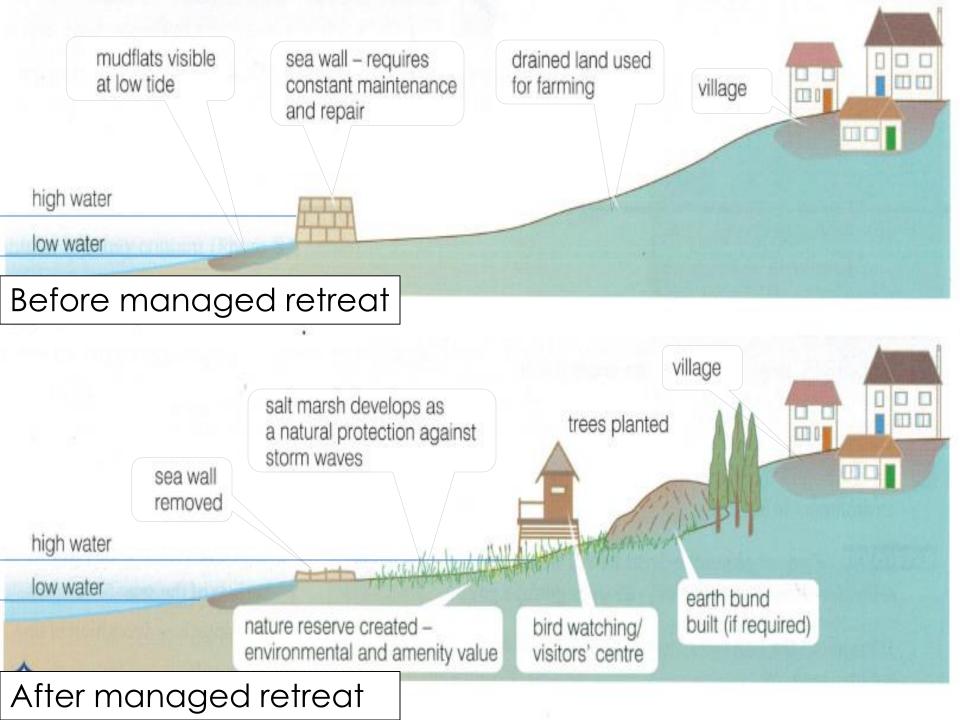




What management issues can you see?

What is the cheapest management option on the coast?





Describe the relief of this area

What are the land uses at X?

Why is managed retreat used here?

Managed retreat is also known as managed realignment.

It involves breaching an existing coastal defence, such as a sea wall, and **allowing** the low-value land behind to be flooded.

This land is then left to be colonised by saltmarsh vegetation, creating a new '**intertidal zone**'.

When established, the vegetation **disperses wave energy**, reduces erosion rates and provides new habitats. **Explain** how managed retreat can reduce the risks of coastal flooding. Use the diagram to help you. (6 marks)

L1 – awareness of what managed retreat is, **describing** what is on the diagram.

L2 – understanding that **energy is reduced** by creating a **natural barrier / dispersal** of energy / waves spread out – link to **reducing the risks** of flooding

L3 – clear **links to storms, flooding and dissipating energy** / settlements are protected, not flooded / water does not travel up rivers, but spreads out over a **bigger area**

1 (g) Study Figure 5 on the insert. Figure 5 shows an example of managed retreat.
Explain how managed retreat can reduce the increasing risks of coastal flooding.
Use Figure 5 and your own knowledge.

[6 marks] Managed retreat (realignment 11 one of the shoreline management plan that is put in place to help reduce the risks of flooding In califul areas. The process of managed represet works by demolishing Moving villages and people purther inland and then planning trees and an earth band, (as sharm in figure 5), before demonshing a previously built sea wall. This will allow the waves to spread out and reduce the nin of sea level vike and clooding. The spread ant sea can develop into salt

marshes which would protect the coastal area from Future ville of flooding as they'll abrox's storm and wave energy. An example of an area that has used managed retreat to reduce the nins of flooding in it's coastal area is Extra space Wallaka Island in Essex. The sea wall built in 2007 to protect the villand was weakening and falling down and the government deuded it wasn't worth repairing. Therefore, a Managed retreak whene was put in place, 800 tonnes of mud was pup pumped into the area creating 115 hectars of mudylab and saltinarshes which absorbed the energy from the wars when the sea wall was demolished. The earth buind was put in place to reperate fresh water from salt water and many frees were planted. Manerged retreat is seen as an easy and cheap way to reduce flooding in coastal areas, although people may have to be imperiated for demolished building and parmland. The salt mearing created can altract tompis and privide nature resurves.