



## Will the works have any impact upon the beaches? (2/2)

### Interaction with existing groynes

We will not be replacing, improving or interfering with the existing groynes in any way. The new revetment will be sealed around the existing structures.

The existing groynes do not appear to retain beach material for more than 15-30 metres alongshore. This is seen as the beach between Fisherman's Corner and the western tidal pool is holding a reasonably straight line, width and level - suggesting that the groynes are not important for its overall stability.

As the existing groynes extend seaward of the existing beach material and are up to 1m higher than the existing beach material, they do currently have some additional capacity to retain more beach material. This means they could accommodate a beach seaward and higher than the present profile.

### Influence of waves on beach material

The scheme is fronted by wide and relatively flat mudflats which extend more than 200m seaward from the toe of the revetment. Therefore, the regular waves capable of moving beach material are unchanged over such a short distance between the current beach position and the new beach position. Effects on beach movement and profile should also remain the same.

The new revetment and beach configuration are not expected to alter or exacerbate the effects of larger waves generated by passing ships.

### Who have you worked with regarding the beach?

We have discussed how the new revetment would interact with retained beach material with Castle Point Borough Council during the initial development of the scheme's design. The new revetment will provide an opportunity for any future amenity feature changes led by partners.

