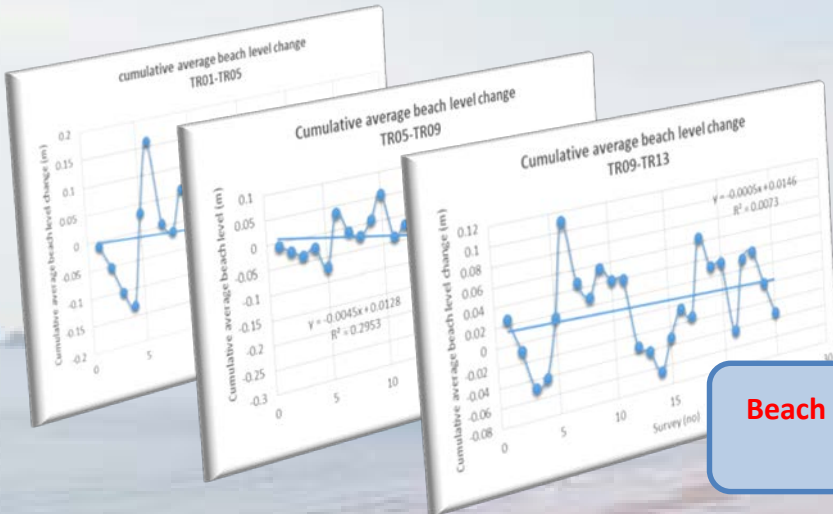


An Assessment of Coastal change along the Tenby South Sands, Pembrokeshire Coastline

Aims

- Detailed literature review of local and international research
 - Examine multiscale shoreline evolution
- Proposed beach management strategies based upon a statistic methodology



Beach management, based upon medium term results would trigger further investigation

Morphostat assessments

Mainly eroding, southerly and central, erosion more stability in the North highlighted by red decreasing status

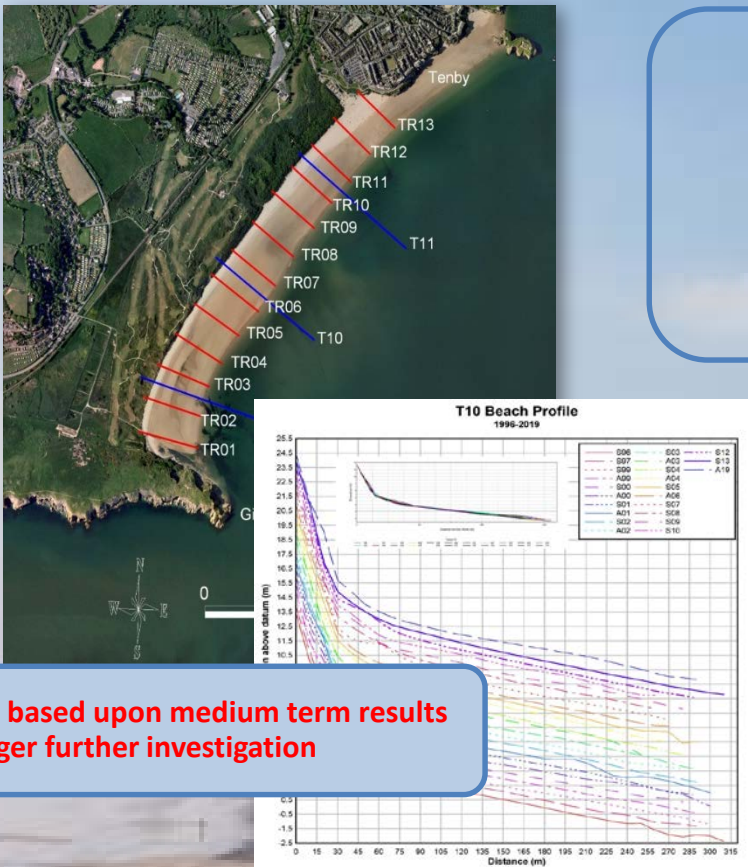
These results were confirmed using t tests and regression models

Albeit short term data shows less correlation



Objectives to achieve aims

- Data collections using dgps
- Analysis of medium and short timescale data
- Quantitatively assess using:
 - Statistical models
 - Morphostat

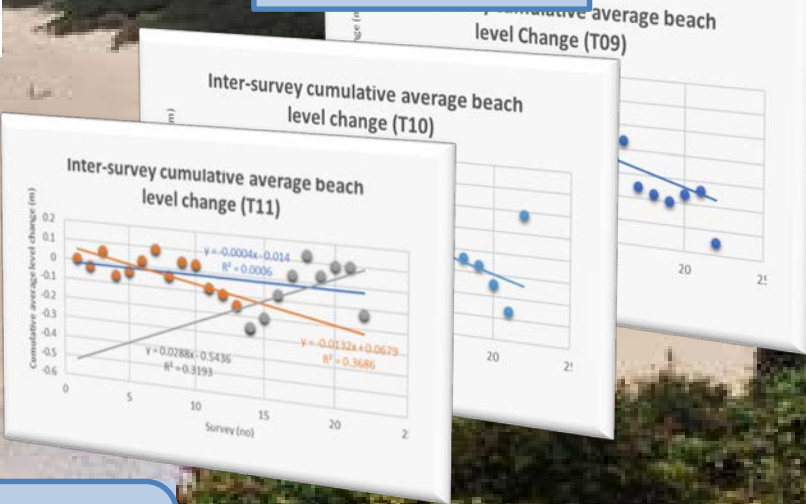


Possible stabilisation works to the southern dune system and upper foreshore;

Recycling of large pebble and gravel accumulations for aesthetic reasons on the northern shores;

Deposition in proposed stabilisation.

A classic embayment backed by dunes and developed between two carboniferous limestone headlands



Short-term results using 2008-2010 monthly data and the 2019 survey, showed variable profile change confirmed by t tests and regression models with almost negligible correlation.

This research has demonstrated the efficacy of the Morphostat programme for coastal zone management in providing a strategic assessment of beach health