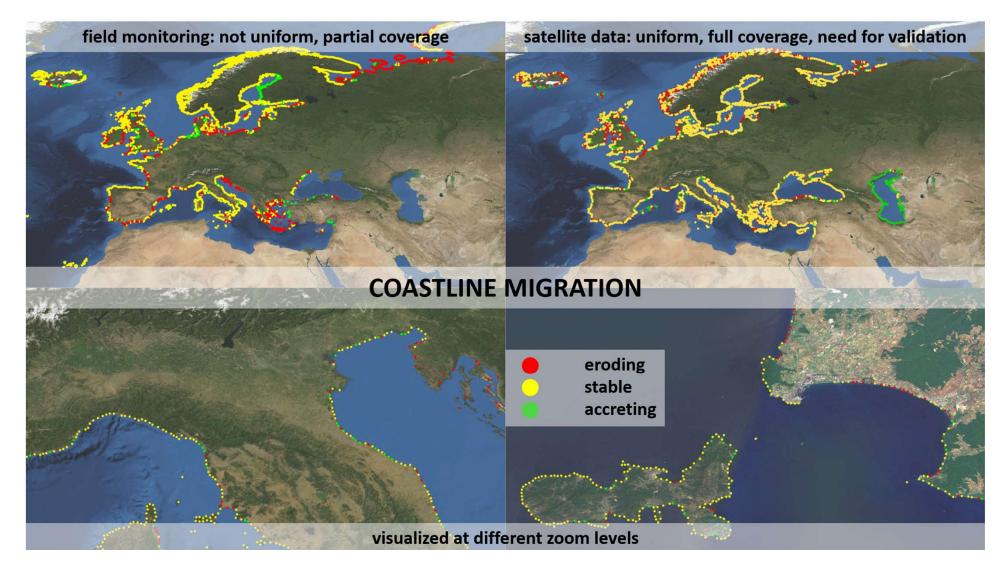
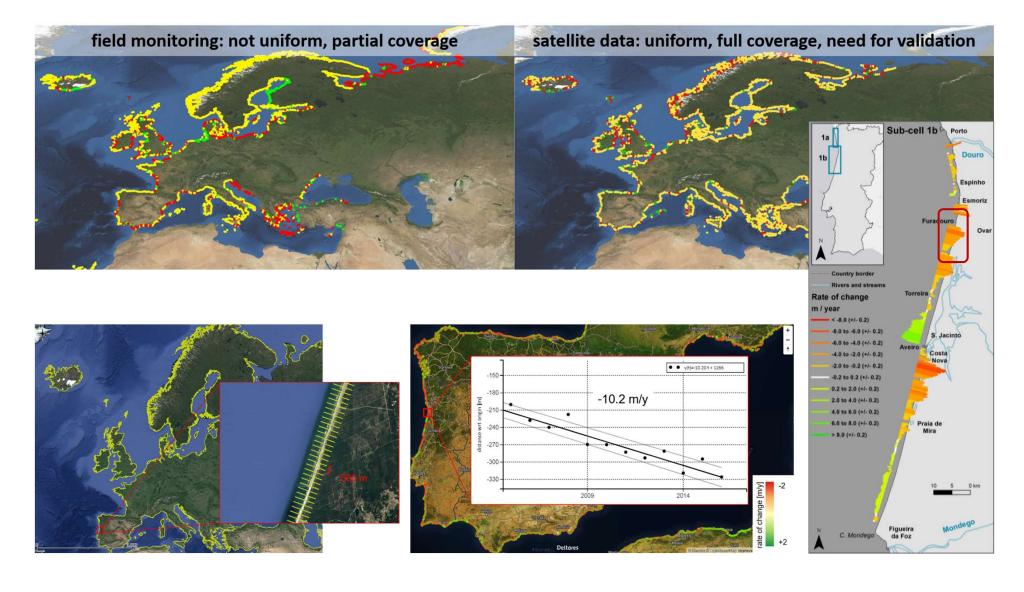
EMODnet Geology WP5 «Coastal behaviour»

Two ways to look at the changing coastline



Comparing and merging the datasets





<u>Portable</u> Shallow Survey System Multibeam - Kongsberg EM2040P Seismic – Innomar SES, Groundtruthing – BTV

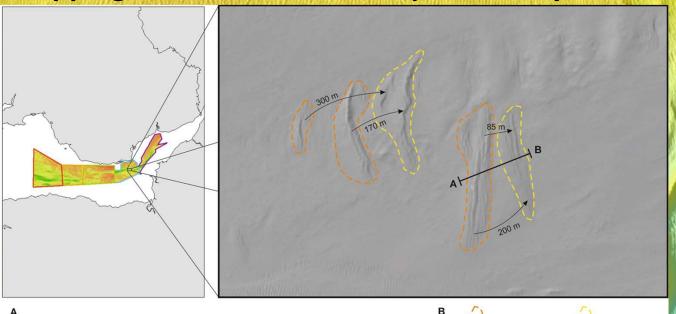


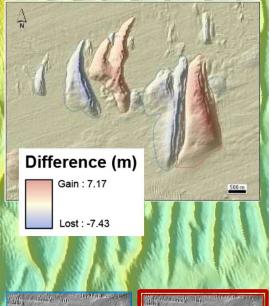


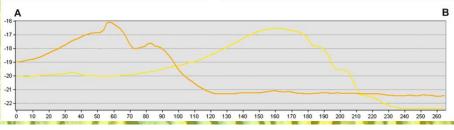




Mapping mobile bedforms: repeat surveys











Implications for submarine cable & pipeline protection and stability of foundations post-installation

Morphological changes, Migration (m) Area changes (m²), Volumetric changes (m³)

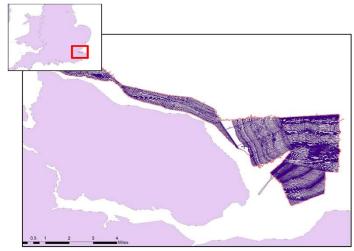
EMODnet Geology WP8 «Submerged lanscapes»

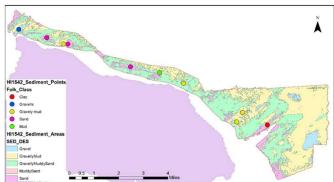
EMODnet Geology WP8 «Submerged lanscapes»

Bridging the onshore-offshore gap: Investigation of unconsolidated sediments using shallow 2D seismic data, Isle of Sheppey, Southern North Sea

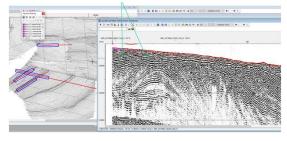
Kirstin Johnson1, Andres Payo Garcia, Rhys Cooper, Robin Dymlind

HI1542 - Civil Hydrography Programme





Multiple mobile sediment packages



Further Investigation

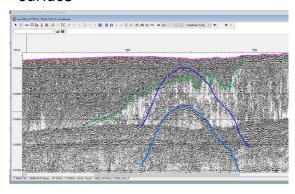
Map and volume of mobile sediment

Map - depth to bedrock/immobile substrate (required for map of mobile sediment and volumes)

Unpacking of various sediment packages Mapping of various ?erosive events/horizons



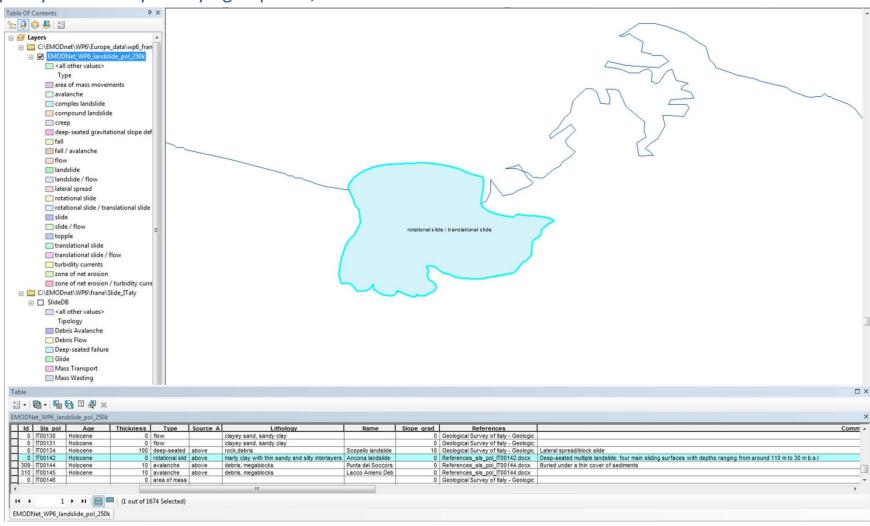
Previous partially mapped "hard surfaces" show channelized/erosive surface



Tromino Survey
Andres & Gareth Carter
Inshore- Offshore

EMODnet Geology WP6 «Geohazards» - Events occurrences located across the coastline

Concerning polygonal features located across the coastline, it was decided to include their emerged portions in order to provide a complete representation of the geological events. The example below shows how the whole extension of the landslide, that do not crop out entirely because they are partly covered by overlying deposits, has been reconstructed.



EMODnet Geology WP6 «Geohazards» - Events occurrences located across the coastline

The same holds true for volcanic structures emerging as islands. They would have a blank area in the center (that included within the blue outline), if the emerged portion had not been included in the representation of the volcanic structure.

