

Hunstanton Capital Sea Defence Works Briefing

Thursday 7th August 2025
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Borough Council of
**King's Lynn &
West Norfolk**



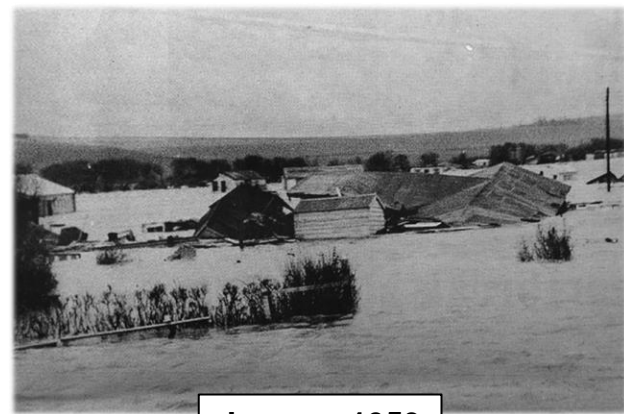
Background



Policy, Strategy and Plan Context



Why do we manage the West Norfolk coast?



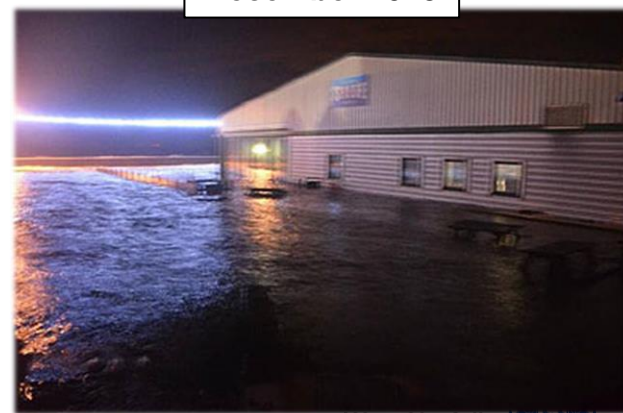
January 1953



January 1978



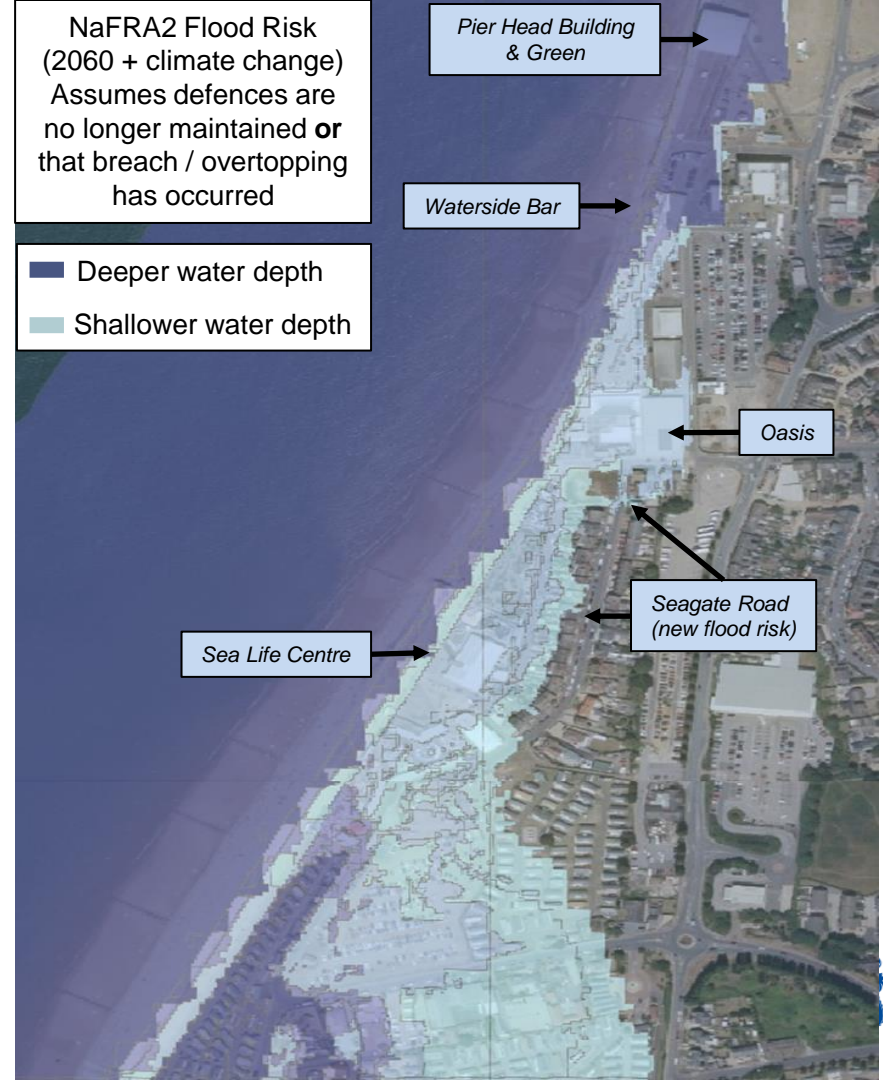
December 2013



NCERM2 Erosion Risk
(2130) assuming defences
no longer maintained
(35m to 73m of erosion)

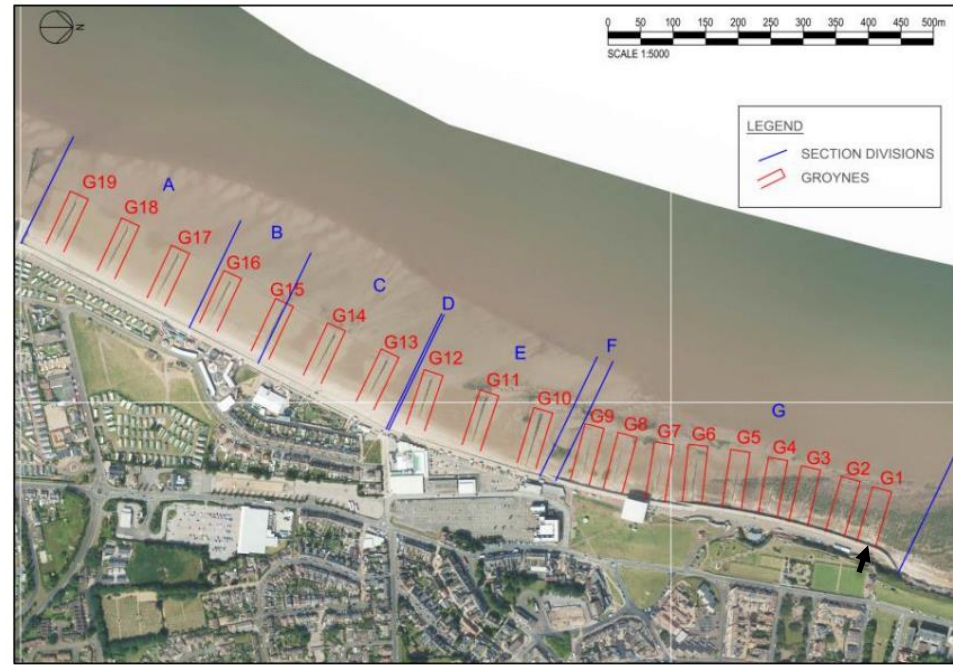


NaFRA2 Flood Risk
(2060 + climate change)
Assumes defences are
no longer maintained **or**
that breach / overtopping
has occurred

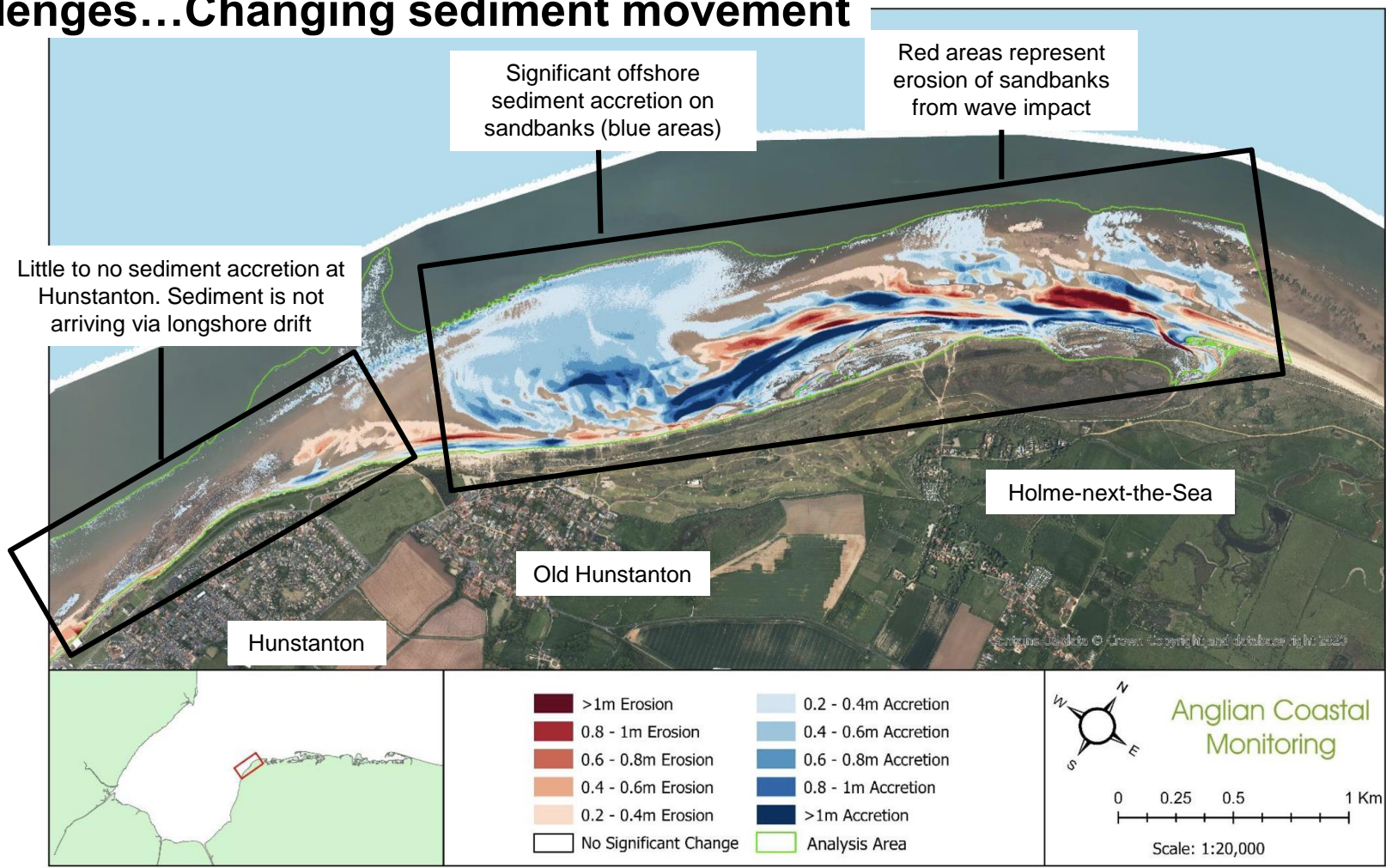


Hunstanton Town

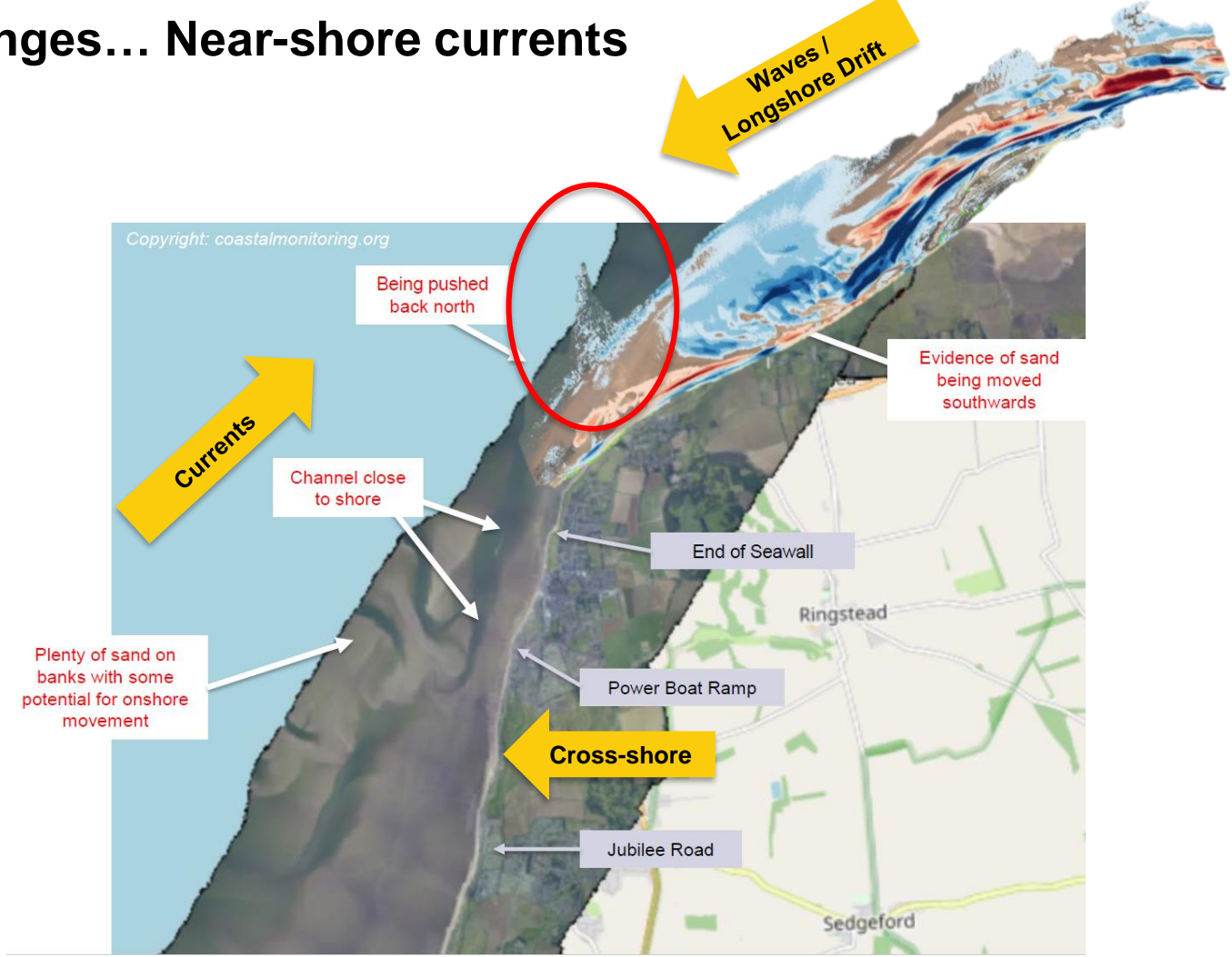
- 'Hold the Line' of defences policy for the next 100-years
- Actively managed by a 1.5km of traditional 'hard engineered' coastal defences
- Challenges...Changing coastal processes resulting in erosion of beach material



Challenges...Changing sediment movement



Challenges... Near-shore currents



2024 Data – Aerial LiDAR Data



Section G (2016 vs 2025)

December 2016



January 2025



Section F (2016 vs 2025)

September 2016



March 2025



Section E (2016 vs 2025)

February 2016



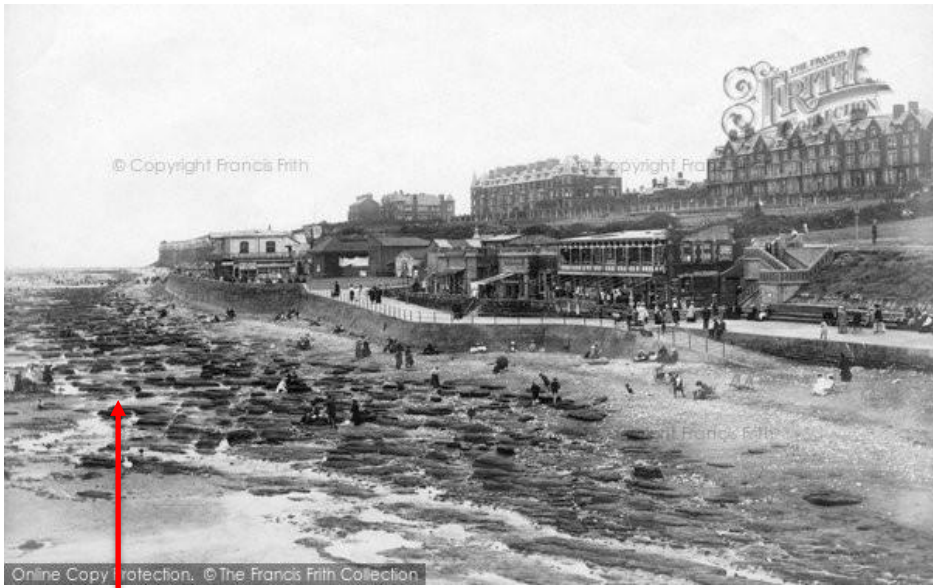
March 2025



Hunstanton in 1893 & 1907 – Similar beach conditions to today



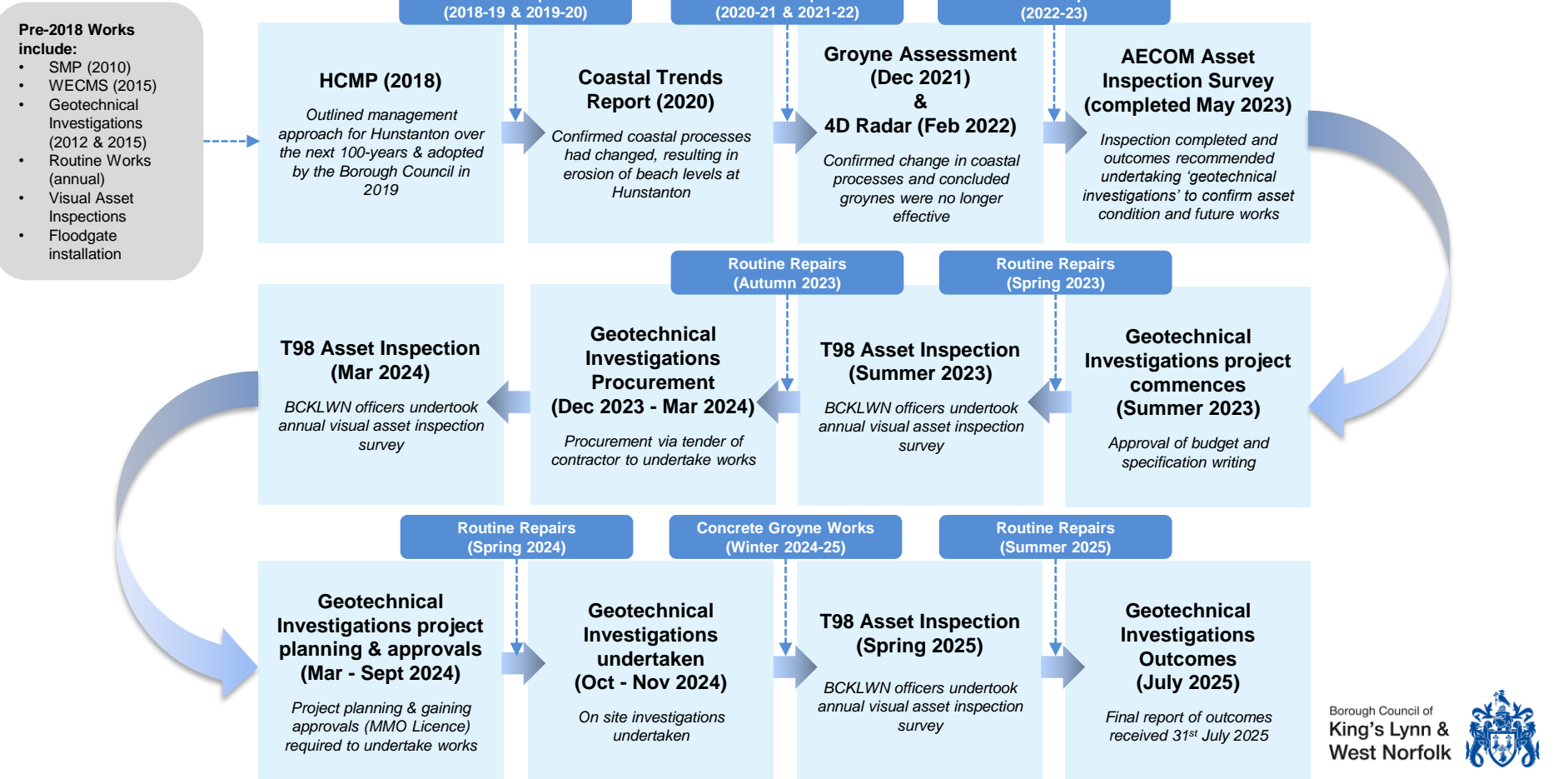
Hunstanton in 1893



Hunstanton in 1907

Widespread Carstone exposure and limited beach cover is evident

Previous works



Outcomes of Geotechnical Investigations



Geotechnical Investigation

- Excavation of 25 trial pits along the base of the seawall to expose the conditions seawall foundations which are normally buried beneath beach material.
- A ground penetrating radar survey to assess the internal condition of the promenade deck
- A falling weight deflectometer to test the material strength of the concrete promenade deck
- On site investigations were completed in Autumn 2024, and a final report of outcomes received in July 2025



Section A (Boat Ramp / Caravan Park)

- Wave-return wall** – No current works required
- Promenade deck**
 - Poor concrete condition and voids
 - Window sampling required within next 12 months
 - Potential replacement of prom deck required (up to 68 panels)
- Stepped seawall**
 - No refacing works required
 - No toe protection works or sheet piling required
- Monitoring**
 - Regular monitoring of beach levels
 - Structural stability monitoring every 5-years



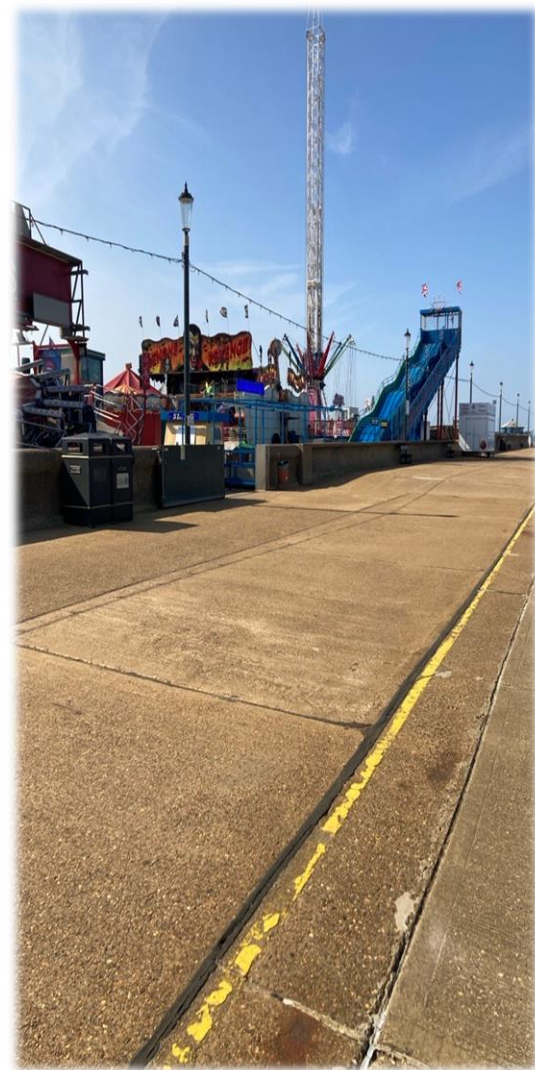
Section B (Fairground)

Wave-return wall – No current works required

Promenade deck – Poor concrete condition and voids
– Window sampling required within next 12 months
– Potential replacement of prom deck required (up to 20 panels)

Seawall – No refacing works required
– No toe protection works or sheet piling required

Monitoring – Regular monitoring of beach levels
– Structural stability monitoring every 5-years



Section C (Sealife Centre)

Wave-return wall – No current works required

Promenade deck – Poor concrete condition and voids
– Window sampling required within next 12 months
– Potential replacement of prom deck required (up to 46 panels)

Seawall – No refacing works required
– No toe protection works or sheet piling required

Monitoring – Regular monitoring of beach levels
– Structural stability monitoring every 5-years



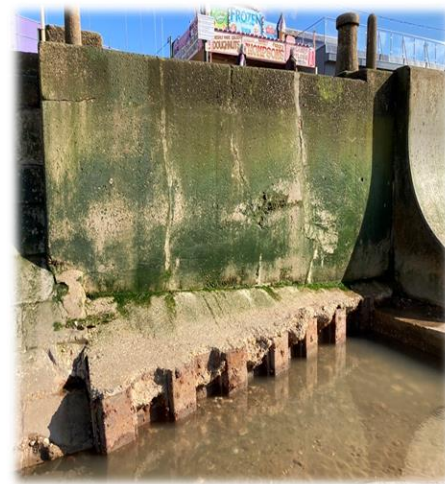
Section D (Kit Kat Ramp)

Wave-return wall – Review rear wave wall condition

Promenade deck – Poor concrete condition and voids
– Window sampling required within next 12 months
– Potential replacement of prom deck required (1 panel)

Seawall – Potential refacing works required
– No toe protection works or sheet piling required

Monitoring – Regular monitoring of beach levels
– Structural stability monitoring every 5-years



Section E (blockwork wall / Oasis)

Wave-return wall – No current works required

Promenade deck

- Poor concrete condition and voids.
- Window sampling required within next 12 months.
- Potential replacement of prom deck required (up to 46 panels).

Seawall

- At risk of undermining if beach levels lower further.
- Installation of toe protection (sheet piling) alongside a seawall reface required to mitigate risk of future seawall undermining.

Monitoring

- Regular monitoring of beach levels
- Structural stability monitoring every 6 months



Section F (rock shop ramp)

Wave-return wall – No current works required

Promenade deck

- Poor concrete condition and voids
- Window sampling required within next 12 months
- Potential replacement of prom deck required (1 panel + ramp)

Seawall – Installation of toe protection and deeper sheet piles alongside a seawall reface required to mitigate risk of future structural failure occurring due to lower beach levels.

Monitoring

- Regular monitoring of beach levels
- Structural stability monitoring every 6 months



Section G (north prom)

- Promenade deck**
- Poor concrete condition and voids
 - Window sampling required within next 12 months
 - Potential replacement of prom deck required (up to 156 panels)

- Seawall**
- Installation of toe protection and new / deeper sheet piles alongside a seawall reface required to mitigate risk of future structural failure occurring due to lower beach levels

- Monitoring**
- Regular monitoring of beach levels
 - Structural stability monitoring every 6 months



Groynes

- Follow current health and safety repairs and removal over time.
- No additional works required.
- Some groyne removal works may be required as part of seawall refacing / sheet pile installation works.
- Groyne works will be completed as part of annual budget.



Next Steps



Next Steps 1/3

- Comms
 - Briefing to local stakeholders
 - Set up new webpage
 - Circulate letter and FAQs to prom businesses
 - Media briefing
 - Further updates to WECMS Stakeholder Forum (Sept)



Next Steps 2/3

- Implement a 10 tonne weight limit and 5 mph speed limit on the promenade to mitigate against further deterioration of the promenade until capital replacement is undertaken
- Sign up to SCAPE Framework (Balfour Beatty)
- Complete window sampling
- Complete 6 monthly digital level surveys of defence Sections E, F and G
- Continue regular beach level monitoring

Next Steps 3/3

- Start feasibility study and structural design for works (SCAPE / Balfour Beatty)
- Start pre application work for flood defence GiA funding application
- Await structural design then consider whether planning permission is required
- Following structural design completion, submit a defence GiA funding bid
- Start application for Marine Management Organisation marine licence

Indicative Project Timeline →

Project Planning Phase = 12/18 months (tbc)

Build = 24 months + (tbc)

