



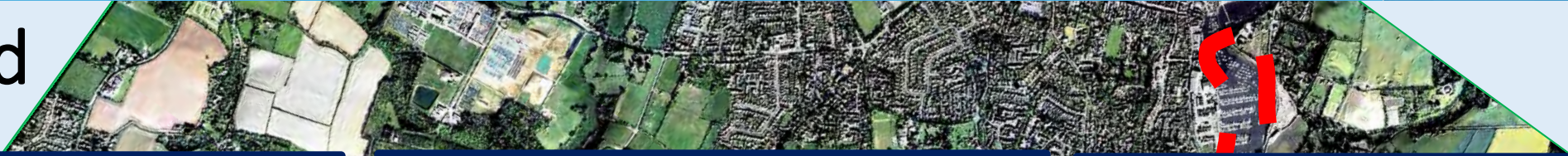
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HURST SPIT TO LYMINGTON STRATEGY



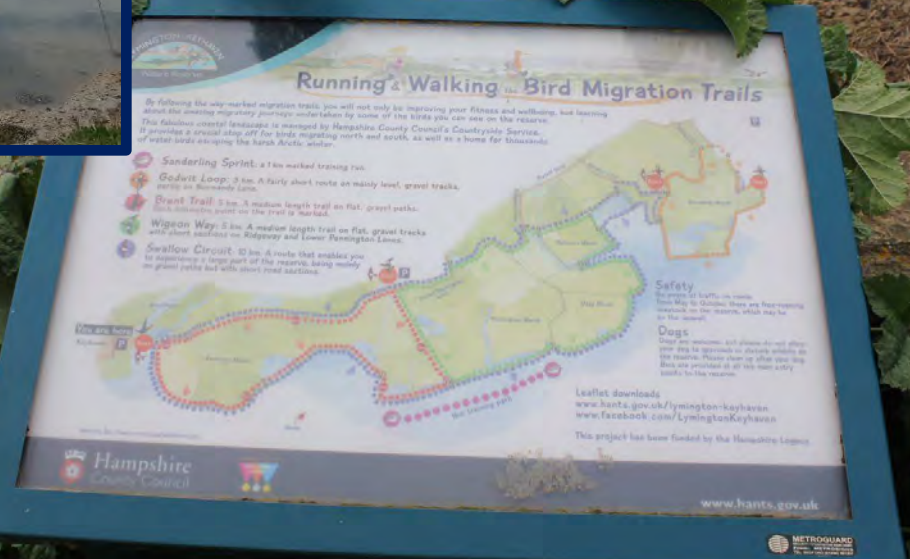
Background



HURST SPIT TO LYMINGTON STRATEGY



North Solent Shoreline Management Plan

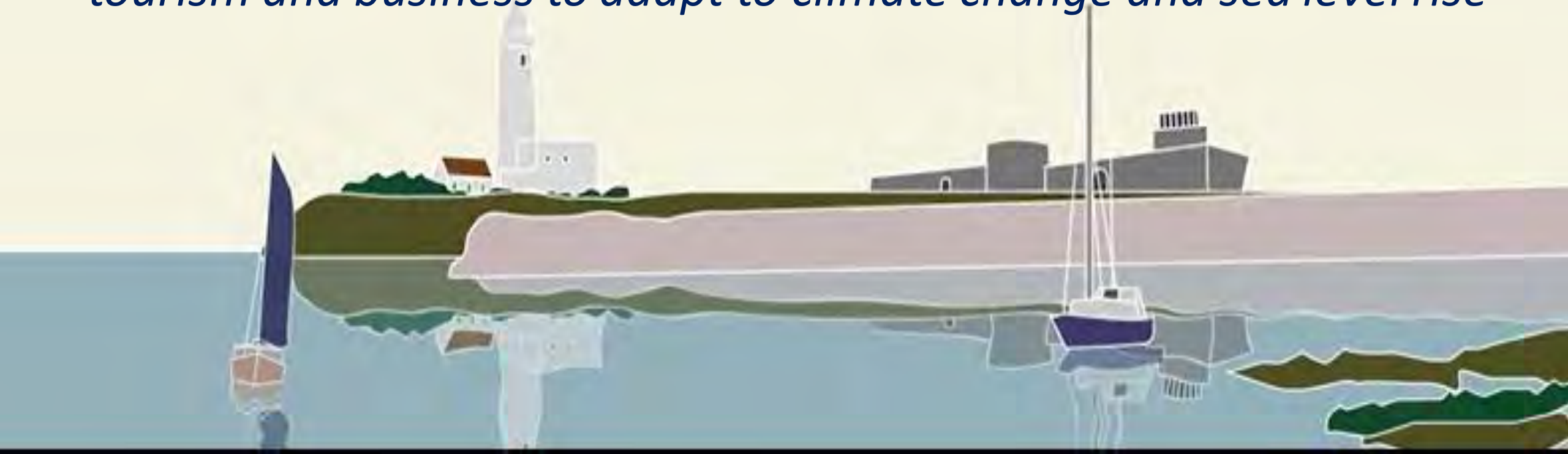




Strategy Aim & Vision

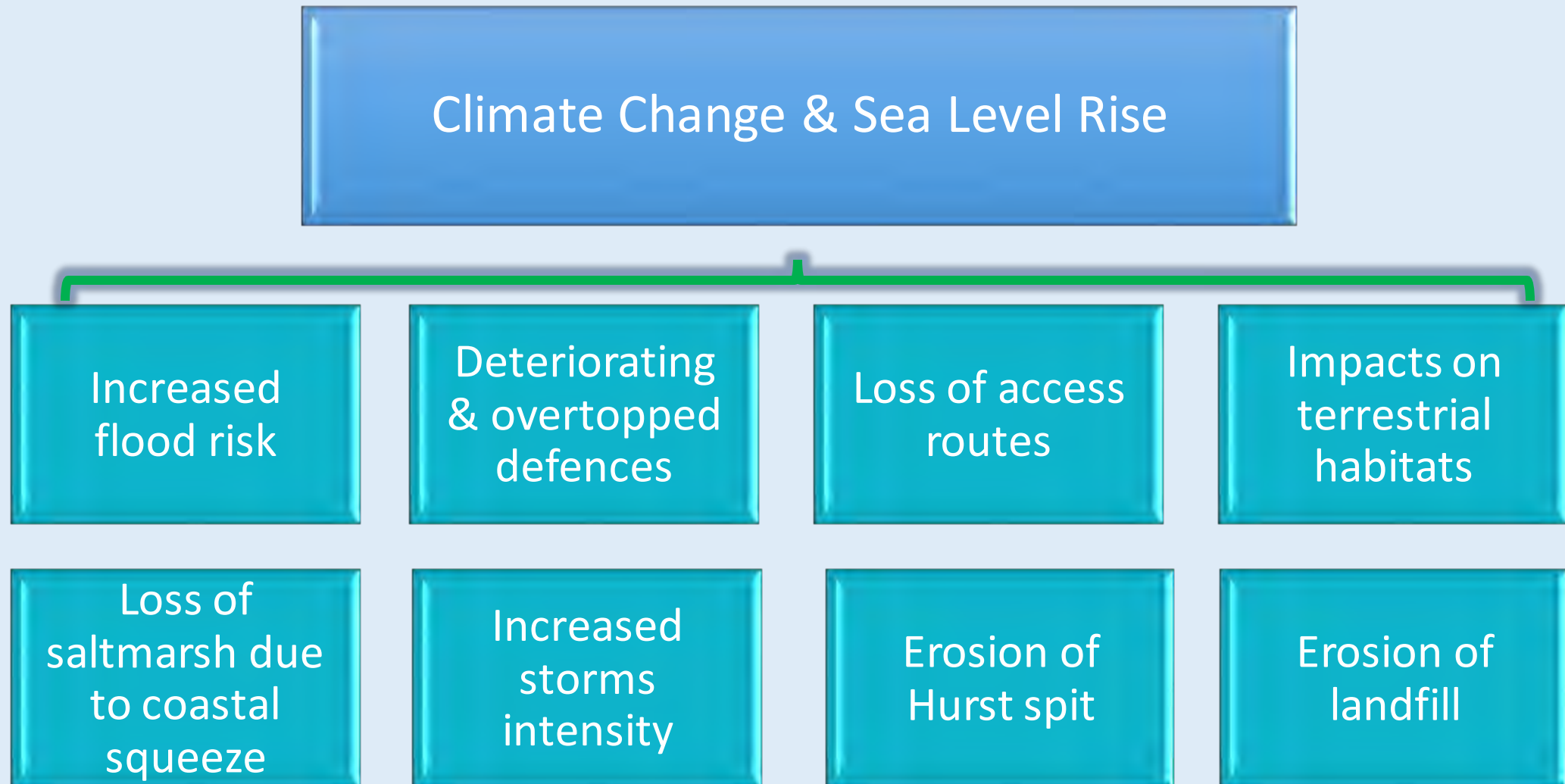
A sustainable future for Hurst Spit to Lymington frontage for the next 100 years up to 2124:

Enabling communities, the environment, wildlife, heritage, recreation, tourism and business to adapt to climate change and sea level rise



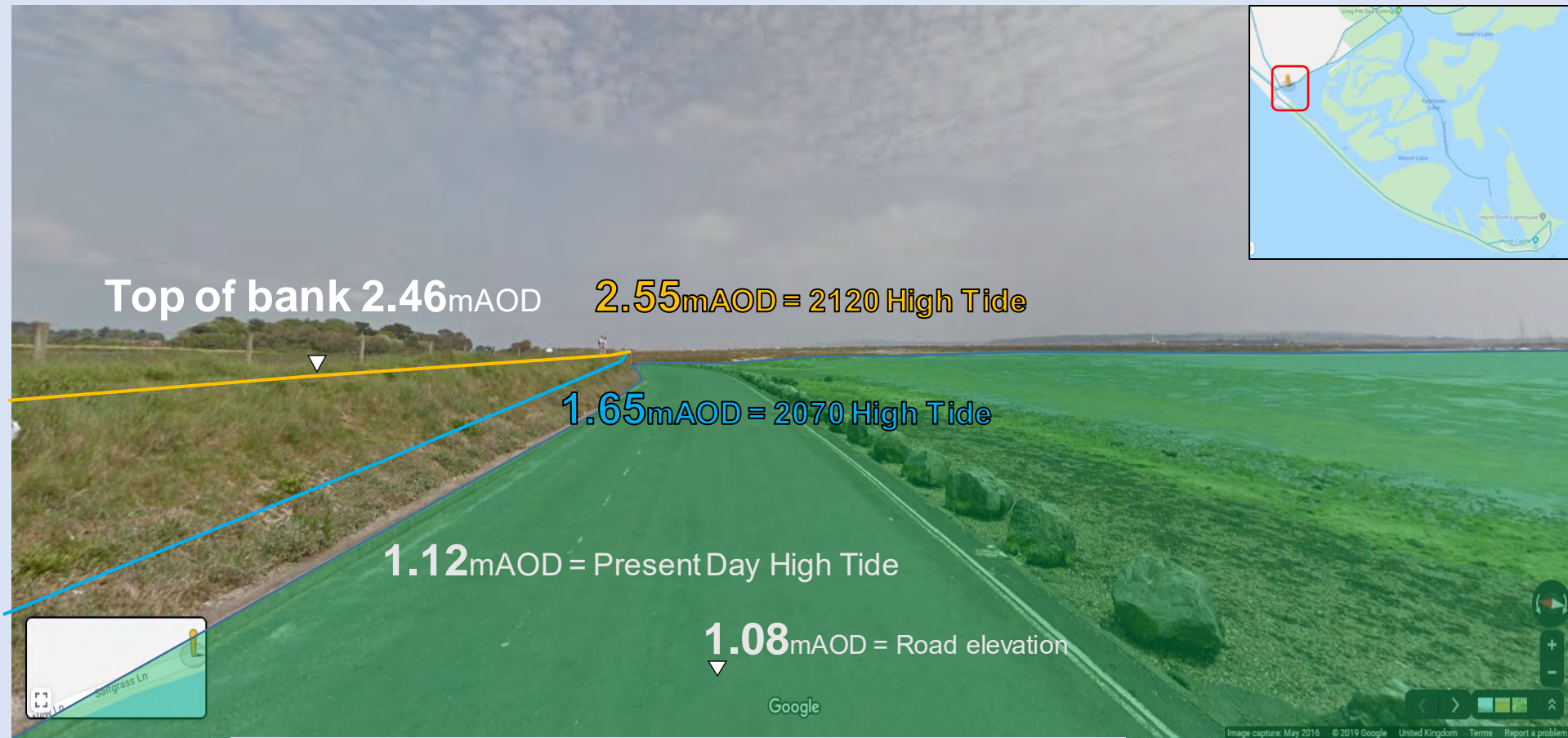


Why is a Strategy needed?





Saltgrass Lane, Keyhaven

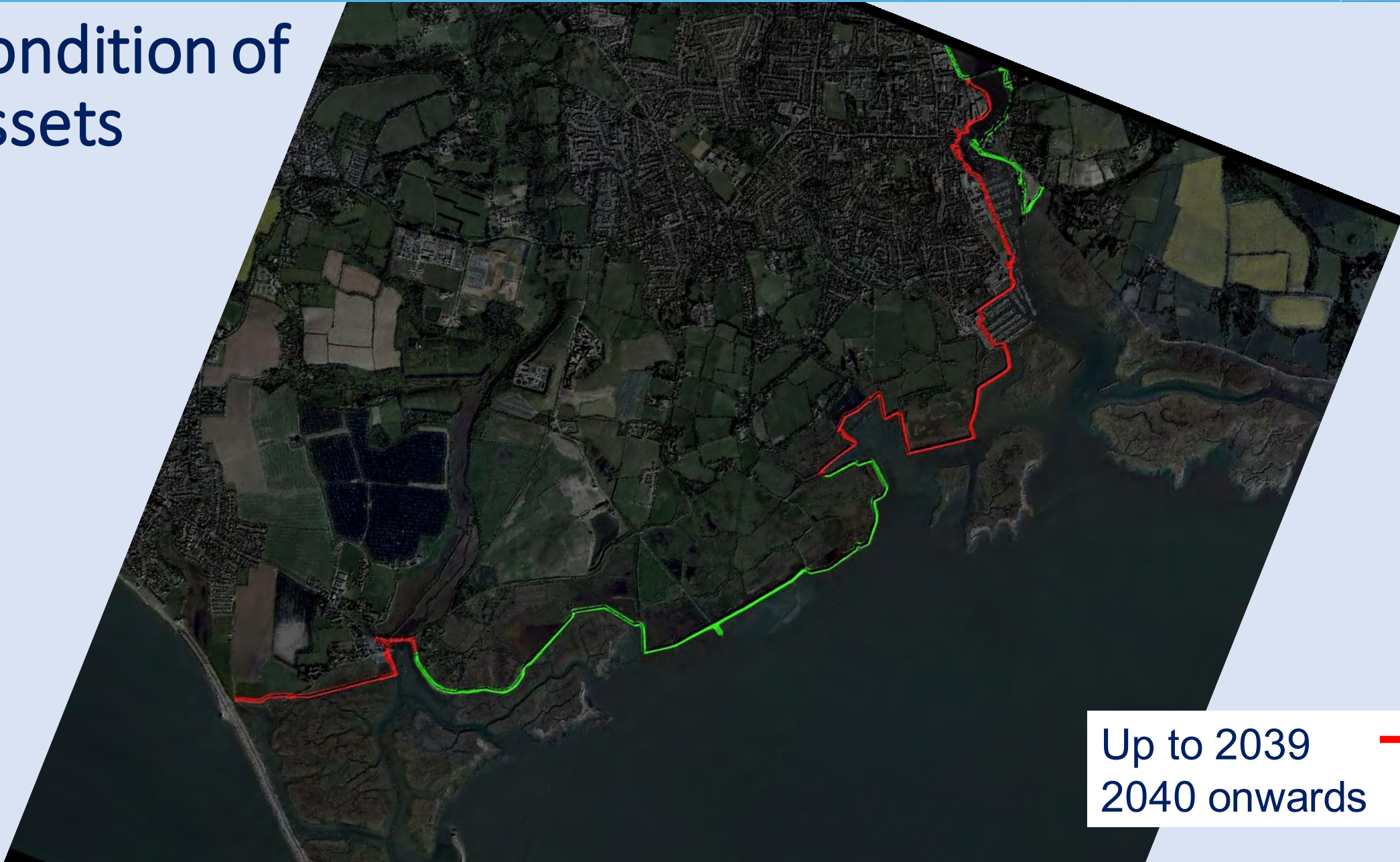


TIME

Based on UK's highest climate change prediction



Condition of Assets



Up to 2039



2040 onwards



HURST SPIT TO LYMINGTON STRATEGY



Flood Risk



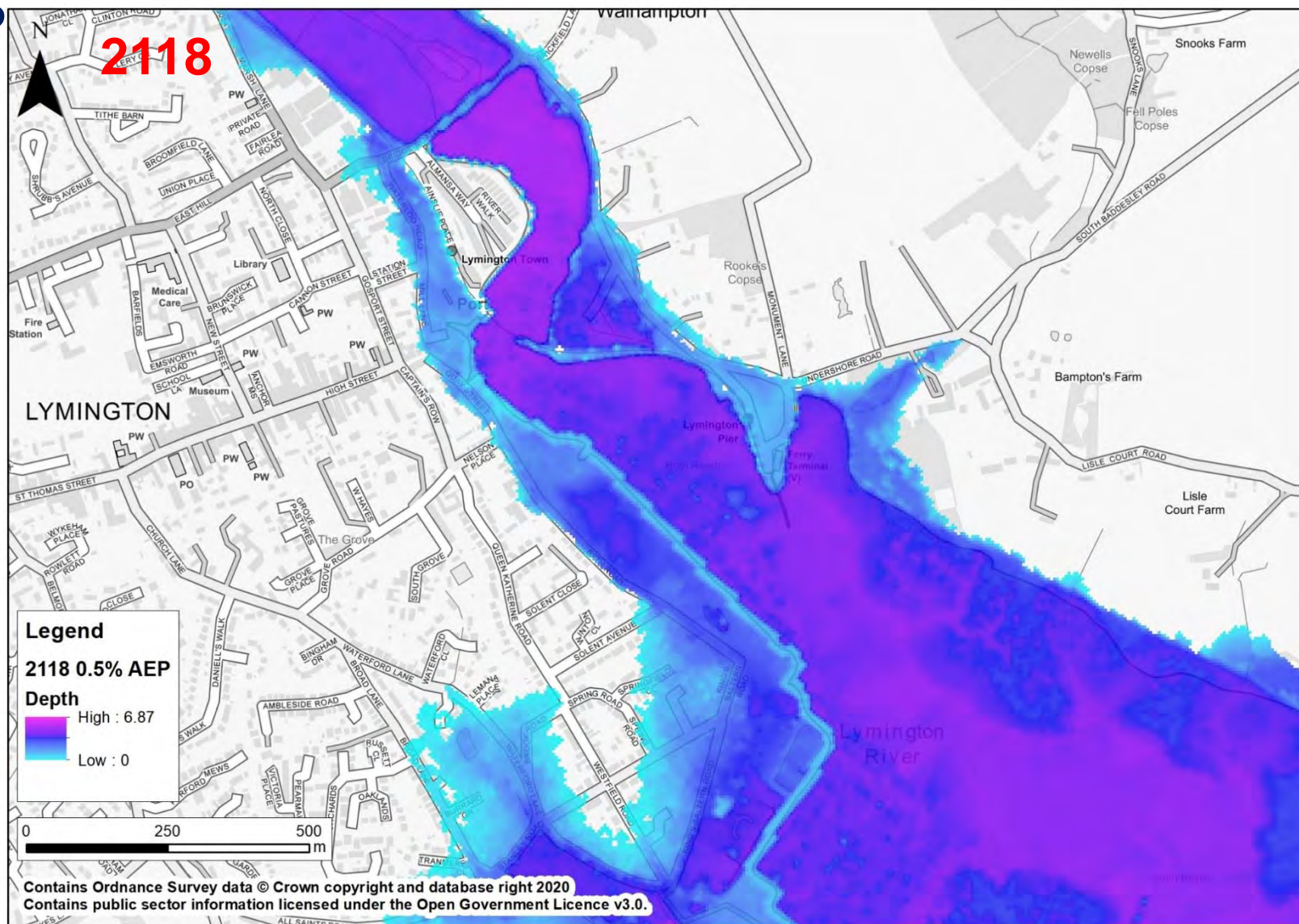
Contains OS data © Crown copyright and database right (2022)

Contains data from the New Forest Coastal Model (JBA Consulting, 2020) and data from the New Forest National Park Fluvial Modelling (JBA Consulting, 2022)

HURST SPIT TO LYMINGTON STRATEGY



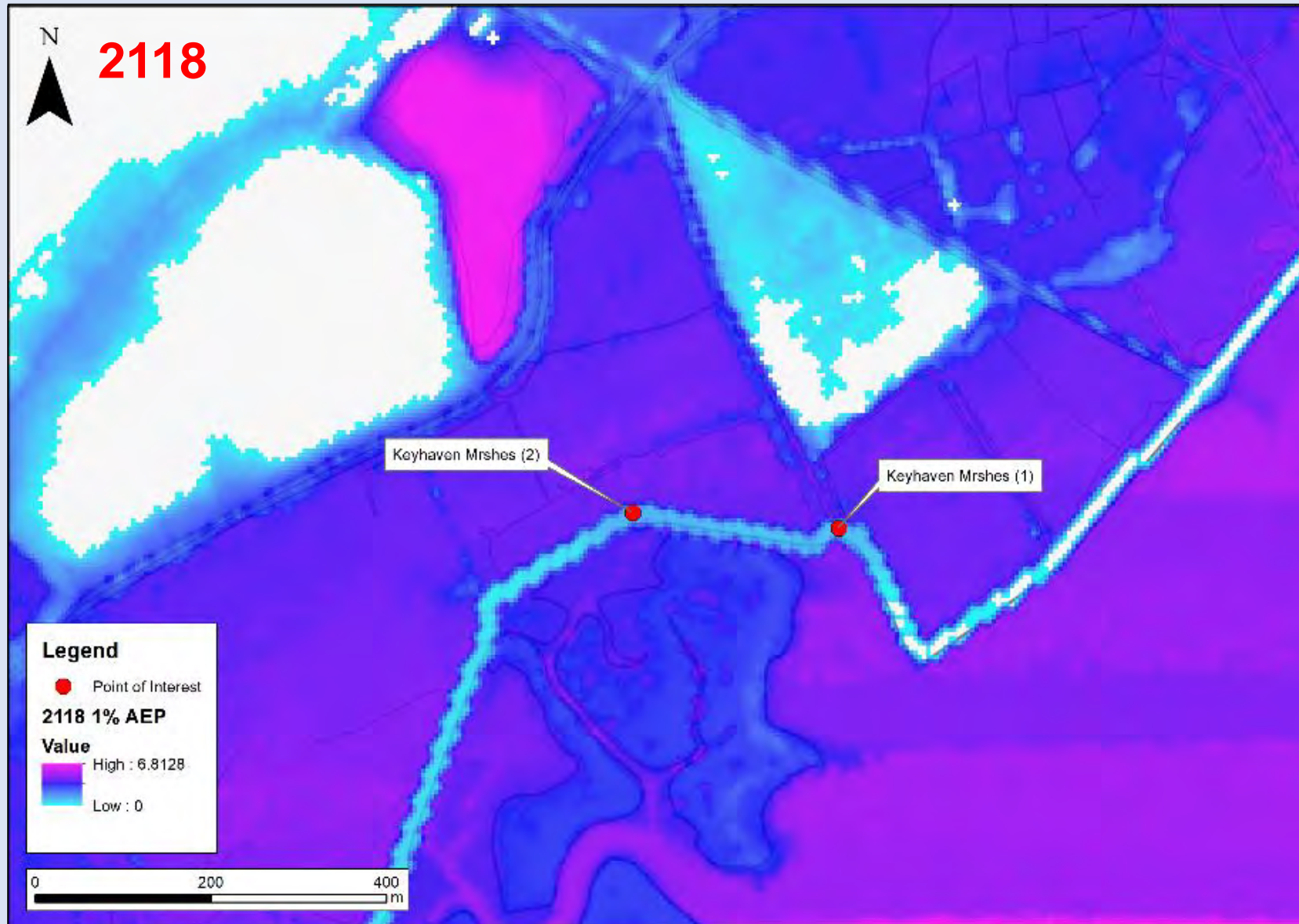
Properties



HURST SPIT TO LYMINGTON STRATEGY



Habitats





Intertidal Habitat Loss



1971

1984

2001

2019

Future

Future +1m



Erosion of Hurst Spit



Valentines Storm (Feb 2014)

- 1 in 50 year storm
- 4.5m waves & 1.29m surge
- **Spit survived**
- High energy waves did not impact Keyhaven

However,

- Major damaged along 50% of length
- Crest narrowed by approx. 7m
- Significant loss of material
- Sections where significant crest lowering occurred

Emergency Works:

- Over 40,000T recycled
- £120K



What if we were to do nothing?



Increased flood risk to properties



Increased erosion and complete erosion of intertidal habitats by 2040



Embankment & seawall subject to increased pressure



Defences to be overtopped by sea levels around 2040



Erosion of the landfill site due to wave action, exposing the sea to potential pollution



Damage to and deterioration of the protected saline lagoons and grazing marsh

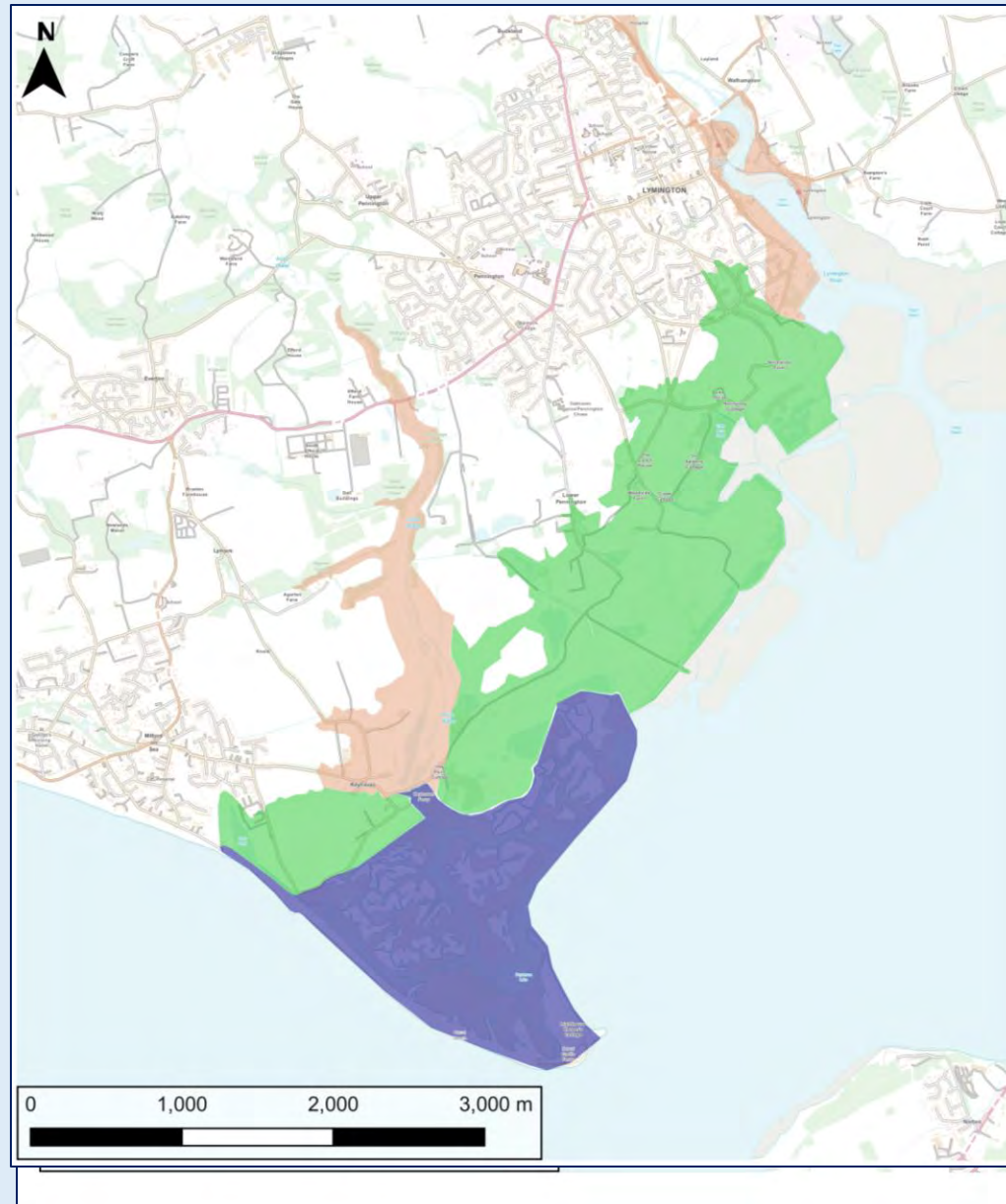


What if we were to do nothing?


- Erosion, narrowing and over washing of Hurst Spit within 5 years.
- Overtime natural roll back of spit possible, with impacts on the habitats behind



HURST SPIT TO LYMINGTON STRATEGY



Management Units


 Hurst Spit


Area


 Hurst Spit


 Rural

 Urban

 Normandy-Salters

 Lyminster West

 Lyminster North

 Lyminster East

HURST SPIT TO LYMINGTON STRATEGY



Hold the line – Maintain

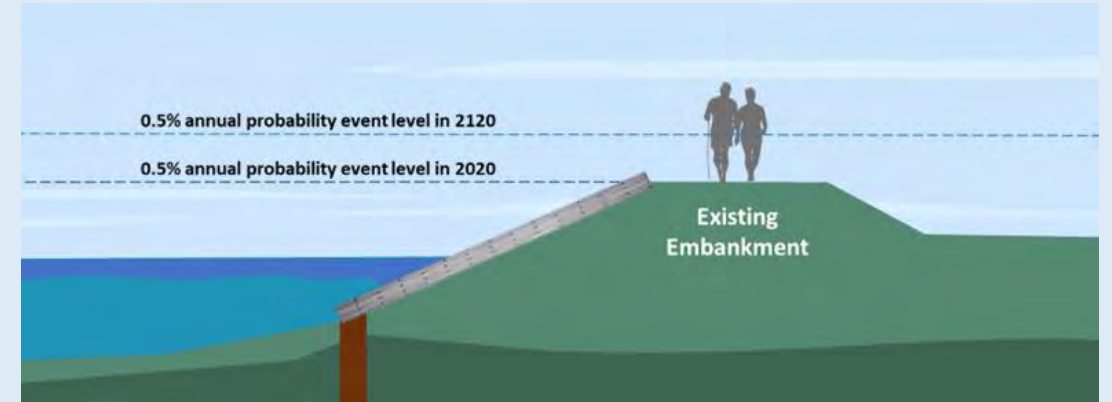
Rural & Urban

Strengthening of existing embankment, existing walls and structures

Hurst Spit

Shingle recharge and recycling

Rural



Urban



Hurst Spit



HURST SPIT TO LYMINGTON STRATEGY



Hold the line – Sustain

Rural & Urban

Strengthening of existing embankment, existing walls and structures - and raising when Standard of Protection drops below current

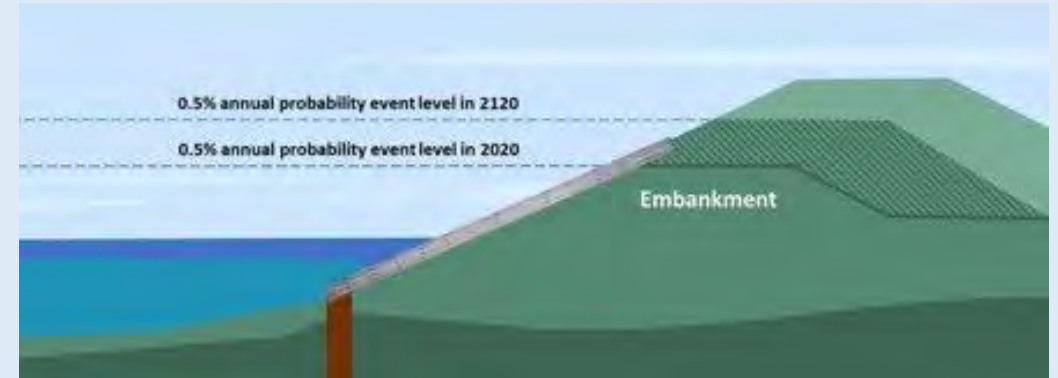
Hurst Spit

Increasing volume of shingle recharge over time to sustain current Standard of Protection

Hurst Spit



Rural



Urban





Hold the line – Upgrade

Rural & Urban

Raise and strengthen existing embankment

New flood wall at (or near to) existing and replacement of structures

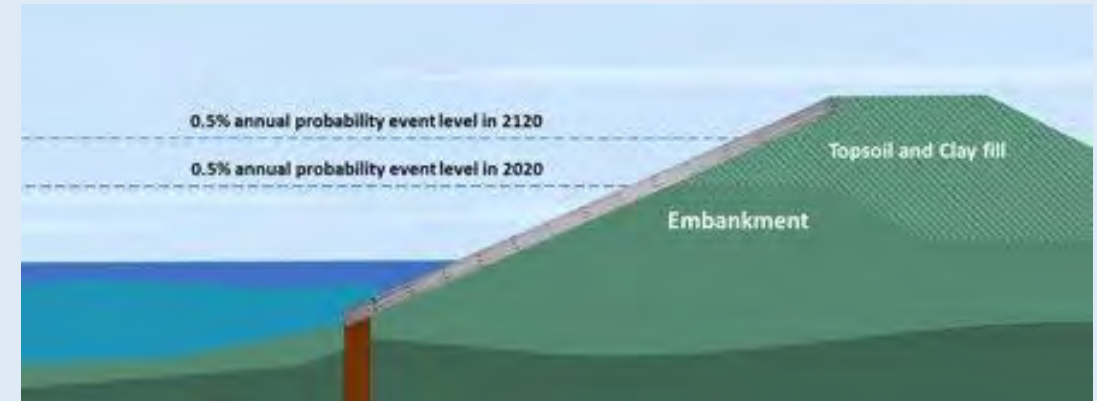
Hurst Spit

Initial large volume shingle recharge followed by smaller shingle recharges over time

Hurst Spit



Rural



Urban



HURST SPIT TO LYMINGTON STRATEGY



Managed realignment / Set back wall

Managed Realignment (Rural)

New embankment set back from existing coastline making space for intertidal habitats.

Set back wall (Urban)

New flood wall set back from existing waters edge

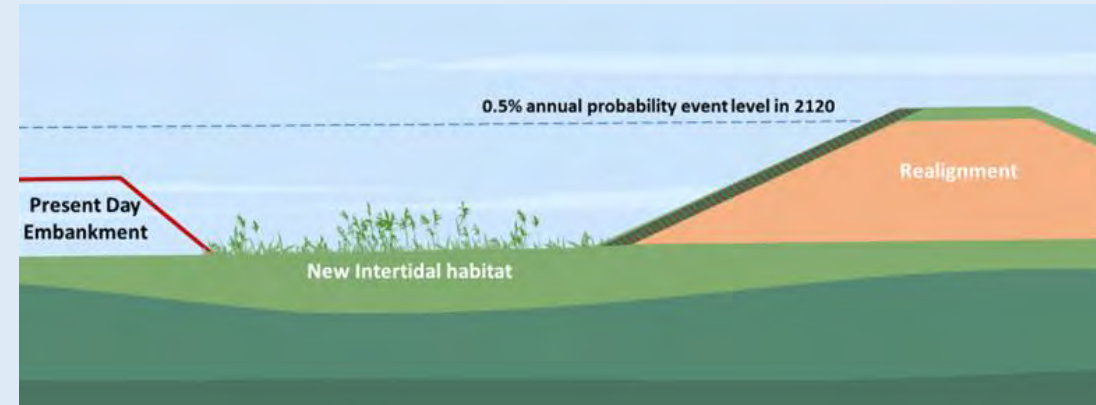
Hurst Spit

Managing rollback of the spit.

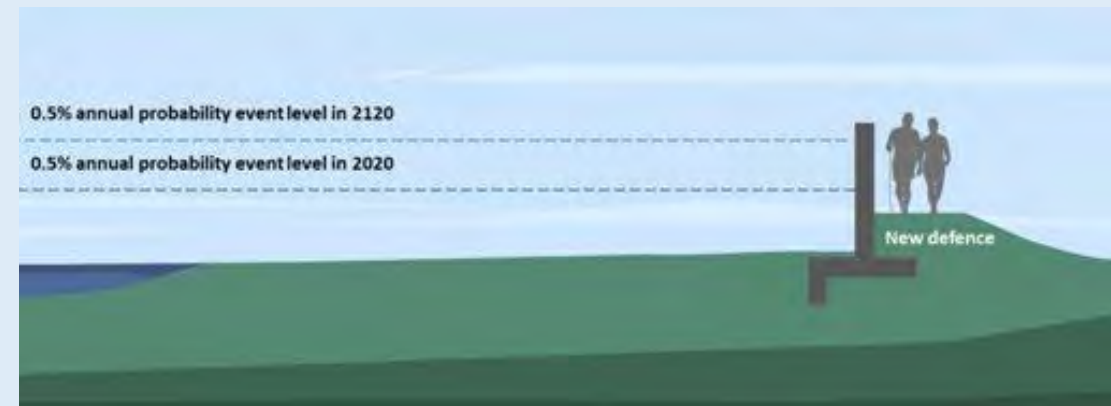
Hurst Spit



Rural



Urban



HURST SPIT TO LYMINGTON STRATEGY

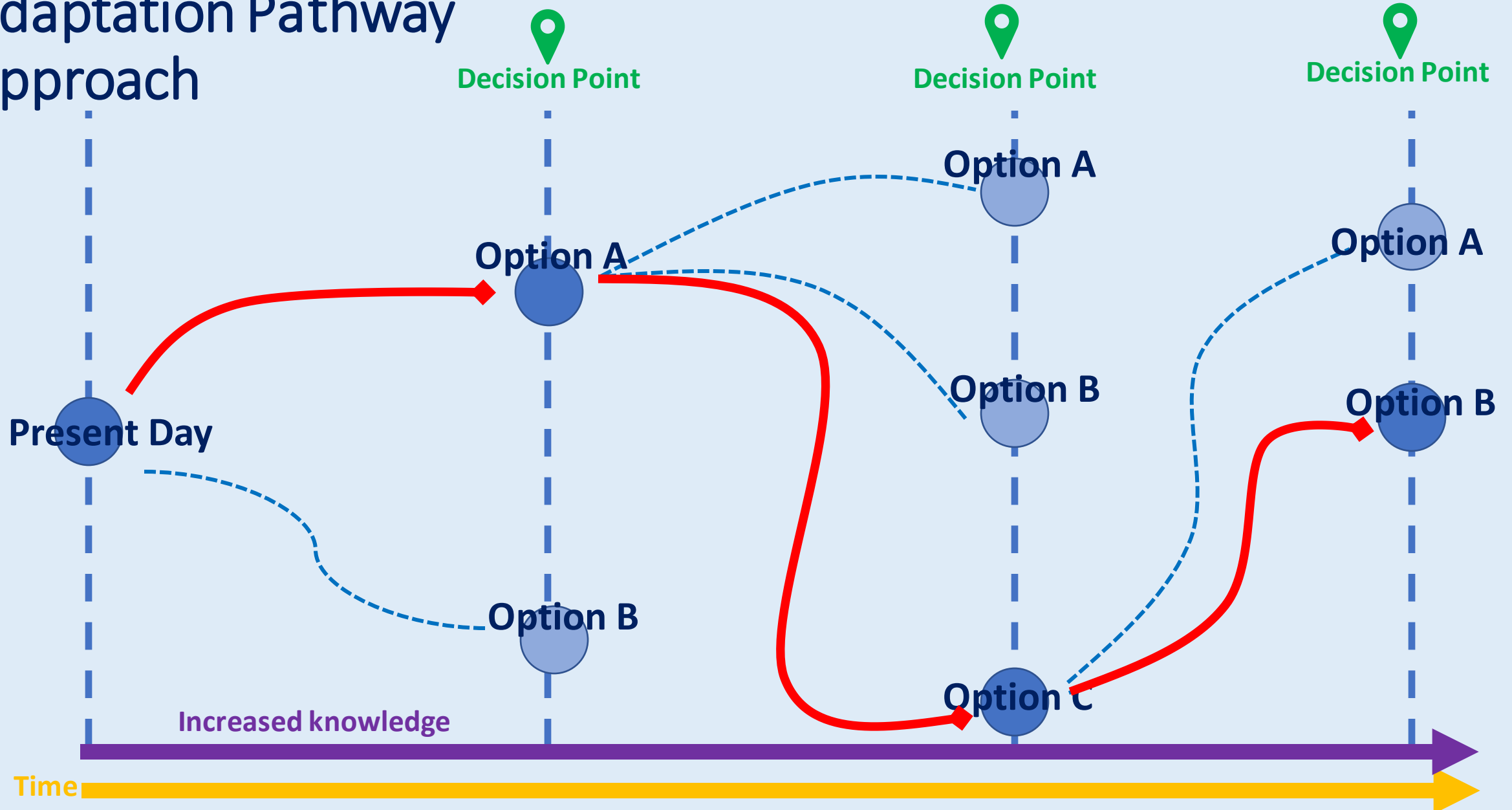


- Balance between Hold The Line (HTL) and Managed Realignment (MR)
- Any MR would require further offsetting of terrestrial habitats
- Challenging to locate suitable locations

HURST SPIT TO LYMINGTON STRATEGY



Adaptation Pathway Approach





Next Steps

- Assess the options
- Understand potential cost
- Understand benefits – lead to investment discussions
- Creative investment...where guidance allows
- Without investment 'do nothing' might be the only option

Final Points

- Change is happening with or without this Strategy
- Strategy is an opportunity to manage that change and explore how best to adapt accordingly
- Along with the challenge comes opportunities

HURST SPIT TO LYMINGTON STRATEGY



Thank you!

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