

Coastal Partners: Planning &
Development Scrutiny Panel
– June 2022

Partnership Working



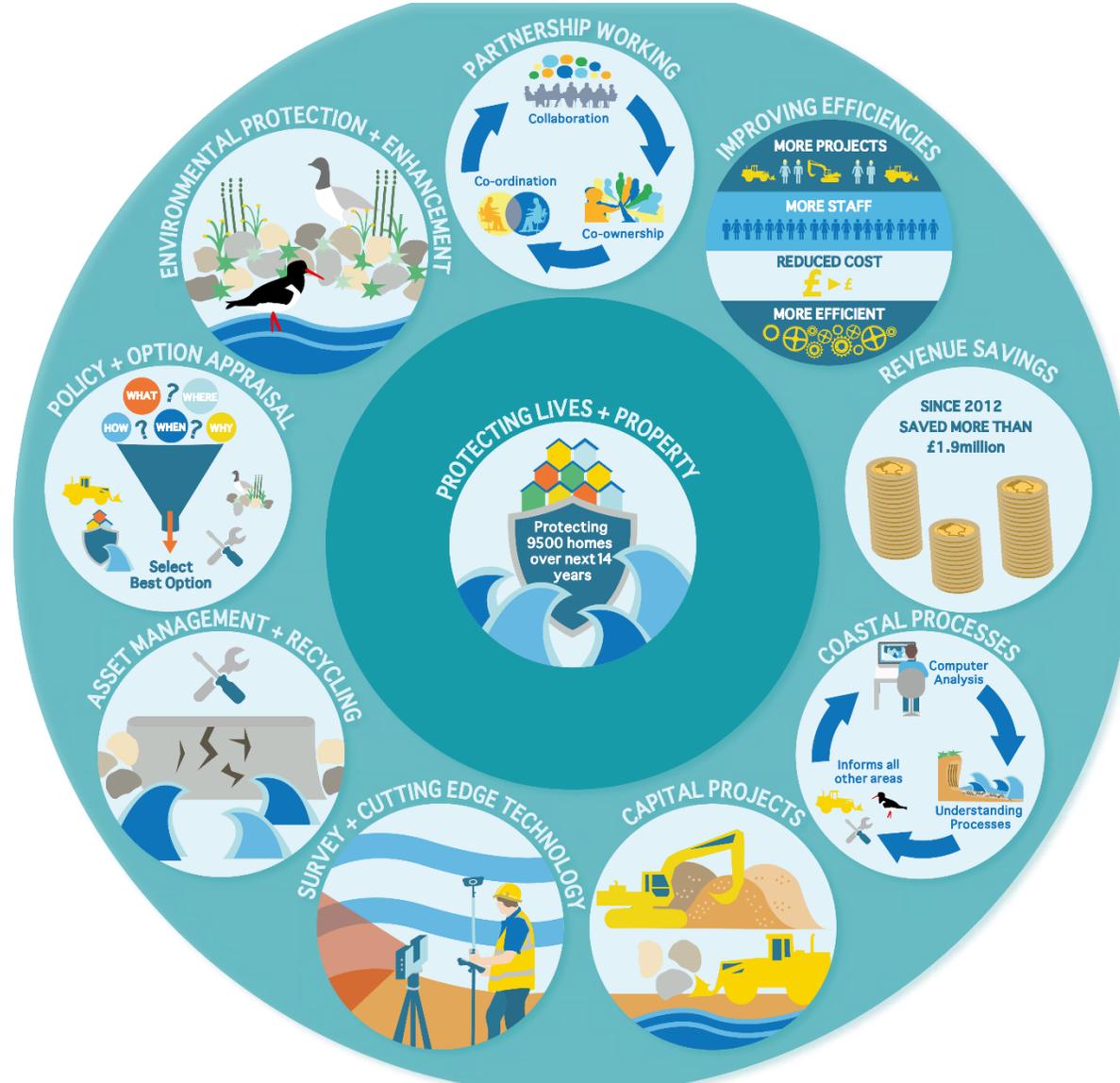
Coastal Management Shared Service for 4 Local Authorities

Vision

“To manage coastlines, improve community resilience and enhance the natural environment.”



Our Service



-  **PARTNERSHIP WORKING**
-  **ENVIRONMENTAL PROTECTION & ENHANCEMENT**
-  **POLICY & OPTION APPRAISAL**
-  **ASSET MANAGEMENT & RECYCLING**

- SURVEY & CUTTING-EDGE TECHNOLOGY** 
- CAPITAL PROJECTS** 
- COASTAL PROCESSES** 
- REVENUE SAVINGS** 
- IMPROVING EFFICIENCIES** 

The Benefits of Partnership Working

- Fareham Contribution 2022/23 **£63,390**
- Saved **over £2.2m** since April 2012, **£2.8m** with inflation
- Recorded over **£4.6 million** of **project efficiencies**

Capital Programme
Exceeding
£240m
Over 10 years

Partnership Working	PCC £000'S	HBC £000'S	GBC £000'S	FBC £000'S	TOTAL
Pre Partnership Budget - projected service costs <i>(not inflated)</i>	£2,180	£2,180	£630	£760	£5,750
Projected Inflation on Pre Partnership <i>(based on CPI)</i>	£227	£227	£66	£79	£598
Cumulative savings <i>(against non inflated pre partnership budgets)</i>	£539	£867	£56	£186	£1,646
Reimbursements <i>(in year extra saving)</i>	£240	£192	£84	£84	£599
TOTAL SAVINGS <i>(excl. inflation)</i>	£778	£1,059	£139	£269	£2,246
TOTAL SAVINGS <i>(incl. inflation)</i>	£1,005	£1,285	£205	£348	£2,844

Working to Deliver
Outcomes as a Team



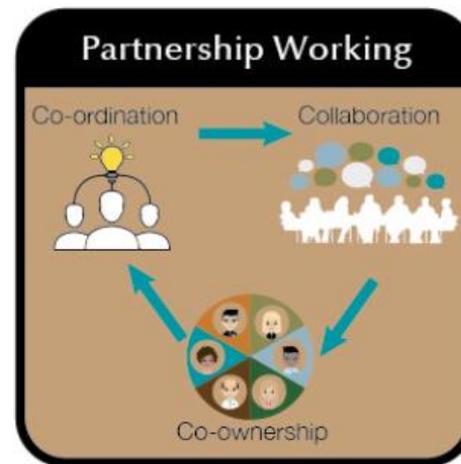
- **Efficient use of staff** resource
- **Increased confidence** that key objectives will be achieved
- **Track Record** for project delivery
- **64 Staff**

CDC Joining the Partnership



Chichester District Council to join the Coastal Partnership as the 5th Partner

Building a stronger more resilient partnership, increasing the knowledge and skillsets and increasing future work opportunities and income.



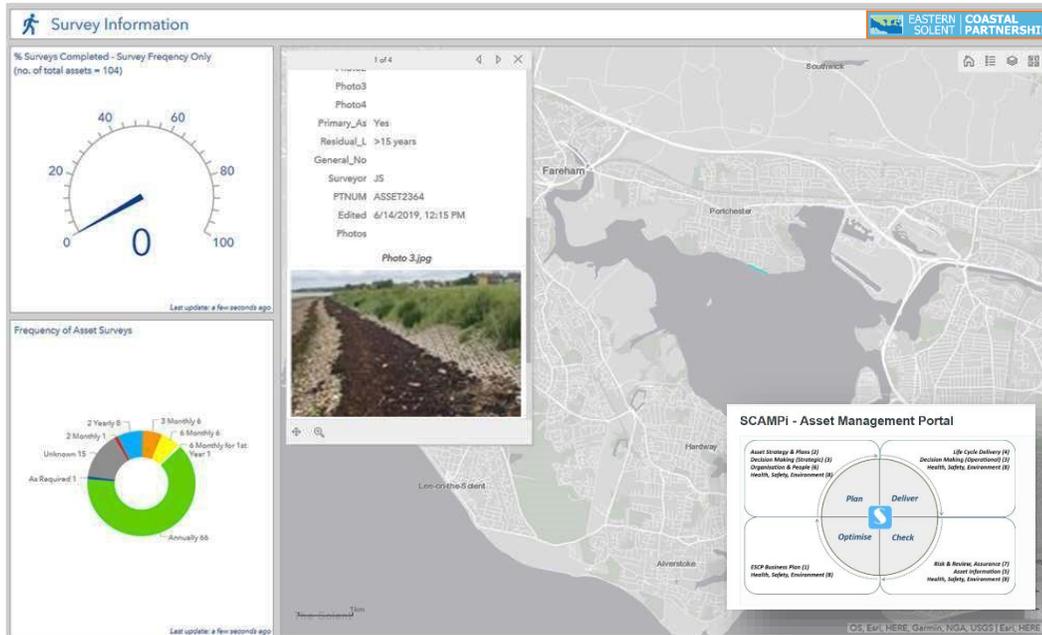
FAREHAM
BOROUGH COUNCIL



Havant
BOROUGH COUNCIL



Asset Management / Maintenance



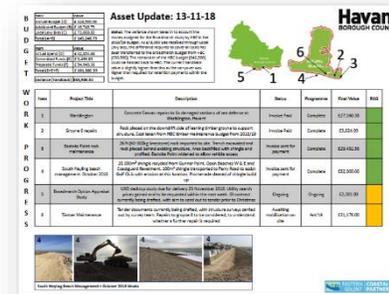
- Given these pressures we routinely inspect Fareham's coastal assets.
- We plan, design and deliver maintenance repairs via supplier frameworks.
- Coastal Incident Officers 24/7 monitoring and responding to storm events.
- Continued budget pressures due to aging sea defences and inflation cost pressures.
- But we have a changing climate....



Inspection



Recommendation



Item	Project Title	Description	Status	Progress	Start Date	End Date
1	Sea Wall	Replacement of sea wall at [Location]	Completed	100%	01/2018	03/2018
2	Sea Wall	Replacement of sea wall at [Location]	Completed	100%	04/2018	06/2018
3	Sea Wall	Replacement of sea wall at [Location]	Completed	100%	07/2018	09/2018
4	Sea Wall	Replacement of sea wall at [Location]	Completed	100%	10/2018	12/2018
5	Sea Wall	Replacement of sea wall at [Location]	Completed	100%	01/2019	03/2019

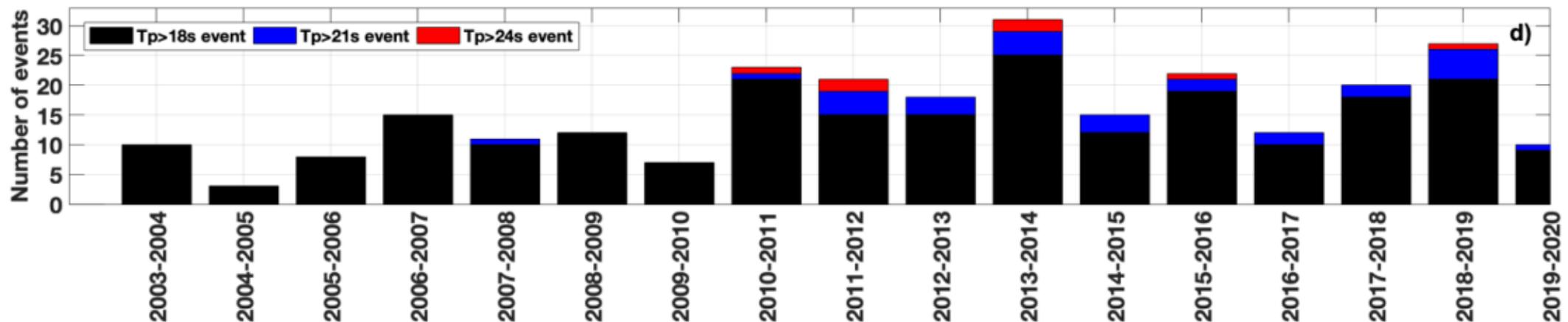
Programme



Action

Recent SCOPAC research shows concerning trends in sea level rise, wave height and storms on the south coast of England

1. More frequent and severe storm events (extreme storm events today could become an annual event in 100 years time).
2. Increased and more frequent flooding and erosion events, often occurring in sequence.
3. Pressure on aging sea defences with higher risk of damage or failure.



Sea level rise (SLR) UKCP18

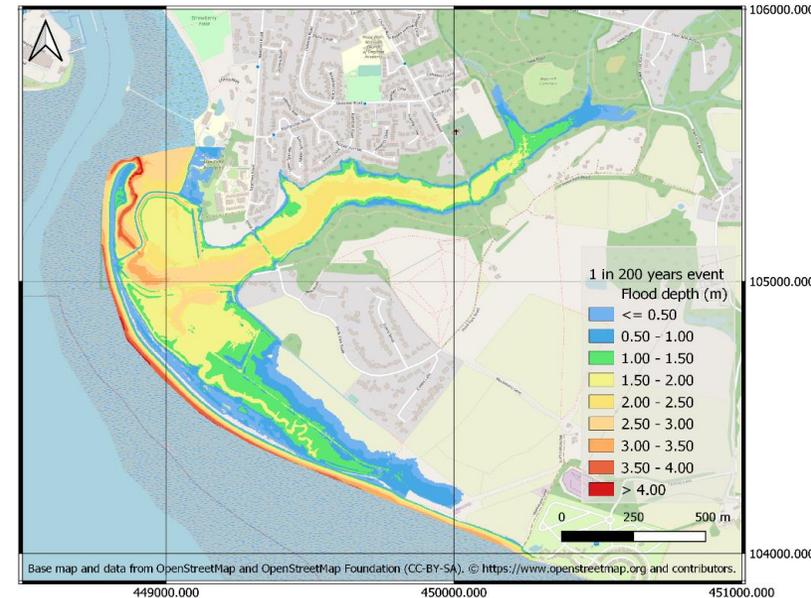
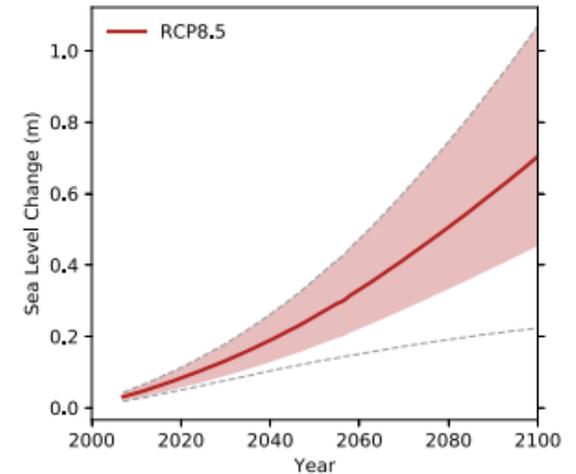
- All projects to adopt the “*Representative Concentration Pathway 8.5 (RCP8.5) high emissions scenario 70th %ile (for design purposes) and 95th %ile (for sensitivity testing).*” This equates to **1.03 m of sea level rise by 2120 and 1.4 m by 2120 respectively.**

Extreme storm surge events

- All projects to use latest Coastal Flood Boundary Dataset (CFBD2018). These include the effects of: extreme water levels + storm surges and astronomical tides. These allow us to simulate coastal flooding.

Linkage to Schemes & Studies

- All our projects and studies include these allowances.
- To access EA Grant Aid funding, we have to consider climate change.



Emerging thinking – Environment and habitat



Mitigations Measures:

- Analyse and optimise - *'you can't improve what you don't measure'*.
- Selection of plant & equipment
- Use of bio-diesel fuel
- The concrete we use at NPI contains Ground Granulated Blast-furnace Slag

Adaptation Measures:

- Nature-based solutions
- 'Greening the grey' - Habitat creation – Eco formliner and other initiatives – saltmarsh, water quality, nitrate removal etc
- Regional Habitat Compensation Programme (RHCP) strategic scale habitat creation to offset habitat losses.

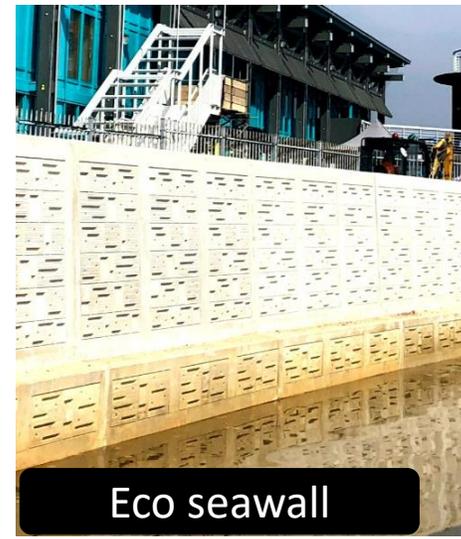
"Construction contributes to 54% of total Environment Agency emissions and the vast majority of that is embodied carbon in materials."



Place-making



BESE saltmarsh planting



Eco seawall



Rockpools

Fareham Quay & Alton Grove to Cadour Drive FCERM Studies



“to develop longer term Flood and Coastal Erosion Risk Management (FCERM) scheme options to reduce flood and erosion risk and address historic landfill issues”

- Long term sustainable options to address:
 - Climate change
 - Erosion risk to Coastal Landfill
 - Flood risk to properties
 - High costs of maintaining poor condition defences
 - Public safety risks with failing defences
- £457,500 Local Levy funding secured over 2 years
- £30,000 from existing FBC coastal budgets
- Executive approval to undertake studies – Feb 2022



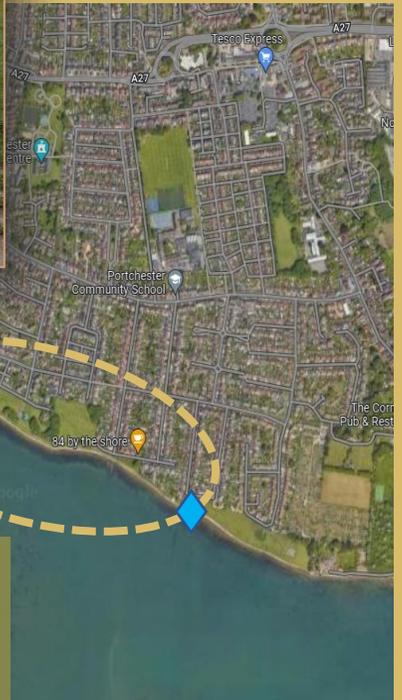
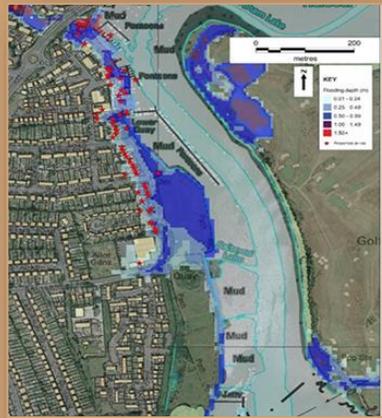
Alton Grove to Cadour Drive



Fareham Quay

Fareham Quay FCERM Study

Fareham Quay



Alton Grove to Cadour Drive

Fareham Quay & Alton Grove to Cador Drive FCERM Studies



KEY DATES...



OPPORTUNITIES...

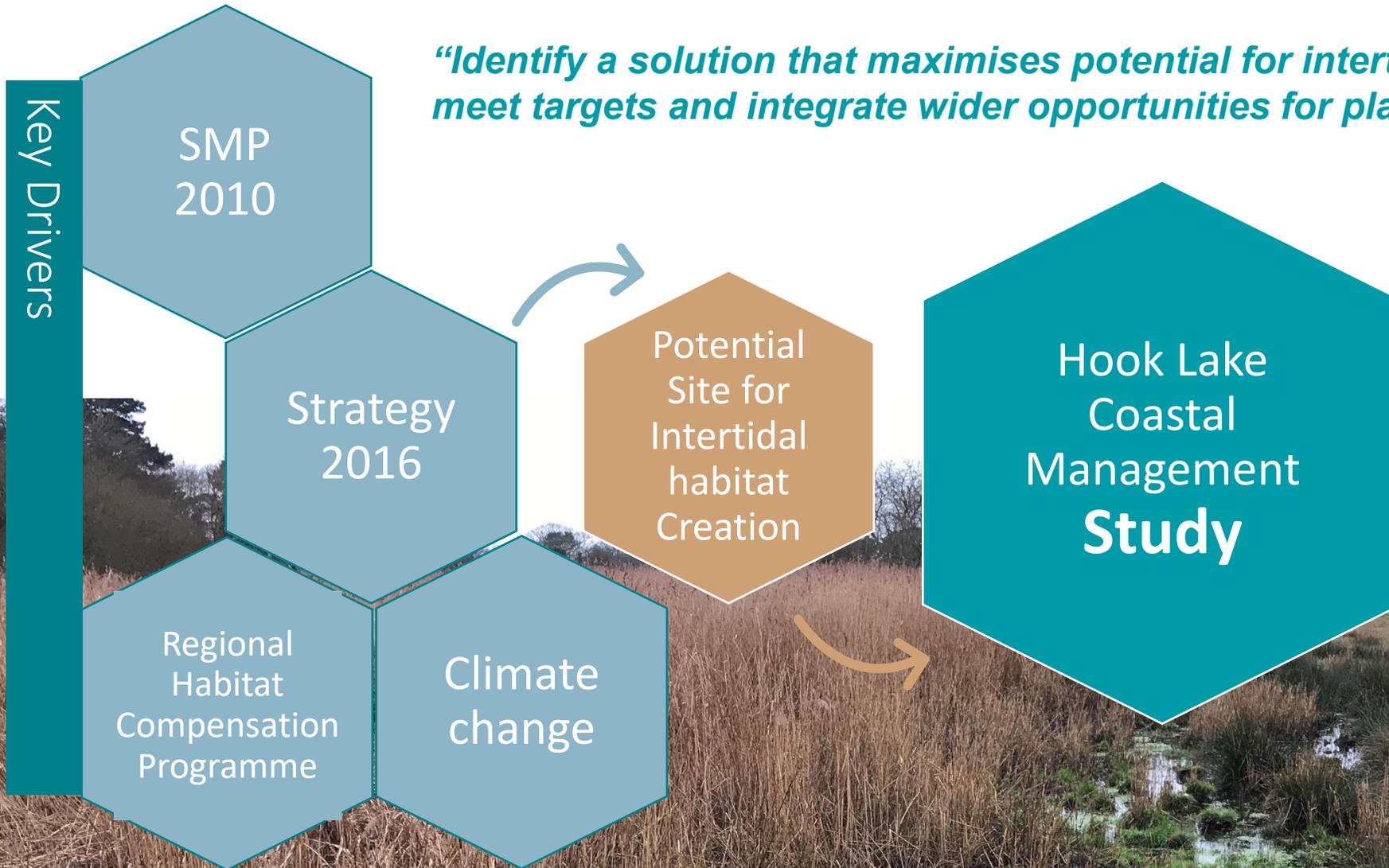
- Engage with residents on risks – ‘better prepared, better informed’
- Integrate with wider council initiatives – placemaking, recreation, regeneration, growth
- Enhance and preserve the environment
- Improve understanding of coastal landfill issues
- Gather evidence to support wider lobbying of government on coastal landfill issues
- Potentially open doors to other sources of scheme funding



Hook Lake Coastal Management Study



“Identify a solution that maximises potential for intertidal habitat creation to meet targets and integrate wider opportunities for place making”



Hook Lake Coastal Management Study



Hook Lake

- HCC owned & managed
- Environmentally designated
- LNR popular for footpaths and recreation
- Coastal grazing marsh, reedbed, shingle spit and beach
- EA maintain sea wall
- Suitable for intertidal habitat creation



- Is the first stage in the delivery of a **habitat creation scheme**
- Fulfils a **legal requirement** to create new habitat to offset losses
- £556k secured for the study **funded by Government Grant in Aid**
- **Executive approval** to undertake study – July 2020



What happens if we don't do anything?

Create Intertidal Habitat

Develop Feasible Designs

Environmental Considerations

Environmental Enhancements

Stakeholder Support

Community Support

Wider Benefits

Secure Investment

Hook Lake Coastal Management Study



Apr 2021



Appoint
Binnies

~ 24 Months



STAGE 1
Study Phase

Investigations, hydrodynamic modelling
Coastal processes, environmental assessments
Stakeholder & community engagement
Identify & appraise options, outline design
Business case and funding

Spring 2023



STAGE 2
Detailed
Design

Spring 2025



STAGE 3
Construction

Subject to funding & approvals
gateways

★ Short list options public exhibition
Warsash - July 2022 ★

Questions: