



EASTERN SOLENT | COASTAL PARTNERSHIP



The Langstone Stakeholder Working Group Meeting

Tuesday 13th November 2018

Working together - protecting our coastline



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Agenda

LSWG

- Re-cap LSWG aims and objectives
- Today's objectives
- Work completed to date
- Shortlist Option Development
- Coffee break & poster preview
- Q & A session
- Programme & next steps

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Stakeholder Working Group: Aim

LSWG

The aim of the Langstone Stakeholder Working Group (LSWG) is to:

“Create a collaborative partnership between key stakeholders in the Langstone area and the project team at the Eastern Solent Coastal Partnership (ESCP)/ Havant Borough Council (HBC) to represent the local community through the Langstone Option Appraisal Study.”



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Stakeholder Working Group: Objectives

LSWG

Objectives:

- To be the *link to the wider Langstone community*, acting as a conduit for information between the project and the community
- To provide the project team with a *wider understanding* of local aspirations, issues, promote forward thinking
- To provide an understanding of what is viewed in the community as a *successful scheme*
- To *enable consensus* on issues between all organisations through *open discussion, collaboration* and *meaningful engagement*
- To *work together* to accomplish a *shared goal*.

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The Aim of the Study

LSWG



“To develop Flood and Coastal Erosion Risk Management (FCERM) options for the Langstone frontage to reduce flood and erosion risk for the next 100 years”.

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Today's objectives

LSWG

- To update you on the work completed to date
- For you to gain an understanding of the shortlisting process
- To share the options shortlisted for the Langstone frontage
- To explain the next steps of the study moving forwards

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Work Completed to date

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- Ground & structural investigation works ✓
- Environmental & heritage investigations ✓
- Define the longlist of options ✓
- Reduced the longlist to a shortlist ✓



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Ground & Structural Investigations

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Key findings:

- Wall foundations are minimal
- Loss of the wall and path could undermine properties behind
- No archaeological finds of interest observed
- Life of defences is less than we thought
- Confirmed the need to improve defences



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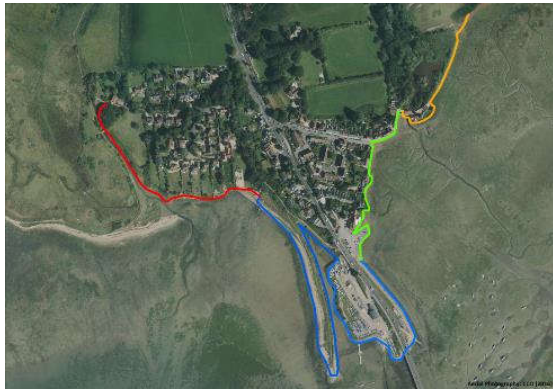
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Longlist of options



1 Identify frontages



2 Identify opportunities and constraints



3 Identify all potential options



4 Screen out unsuitable options to identify the Longlist



Longlist of options

LSWG

Baseline	Do Nothing	Stop maintenance and repair of existing defences, no works would be carried out
Do Something	Do Minimum	Small scale reactive repairs or maintenance of existing defences to manage health and safety risks
	Maintain	Proactive repair and larger scale maintenance or refurbishment of existing defences
	Improve	Raising the height and lengthening of the existing defences or constructing new higher, longer defences to improve the standard of protection provided.

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Longlist of options

LSWG



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Longlist of options



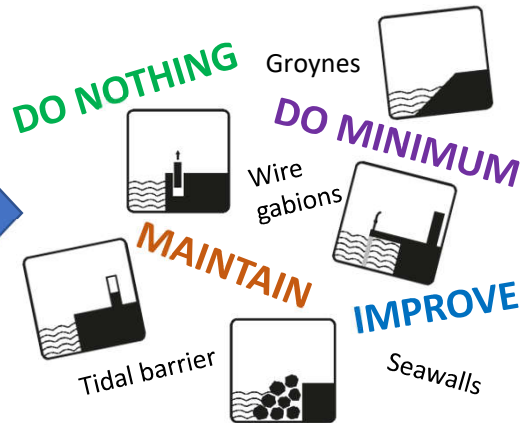
1 Identify frontages



2 Identify opportunities and constraints



3 Identify all potential options



4 Screen out unsuitable options to identify the Longlist



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Longlist to Shortlist

LSWG

Appraisal of longlist options:

Does the longlist option.....

- Support the strategy preferred option?
- Reduce residual flood risk?
- Manage erosion risk?
- Impact on ecology?
- Impact on heritage?
- Impact on landscape?
- Impact coastal processes?
- Support broader outcomes, aspirations and contributions?

Does the longlist option.....

- Have stakeholder support?
- Have community support?
- Require low, medium or high levels of maintenance?
- Have a short, medium or long design life?

Is the longlist option...

- Technically feasible?
- High, average or low cost compared to other options?

Scores:

0

Does not support
Negative impact
High maintenance
Short design life
High relative cost

1

Neutral support
Neutral impact
Medium maintenance
Medium design life
Average relative cost

2

Supports
Positive impact
Low maintenance
long design life
Low relative cost

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Longlist to Shortlist



CATEGORIES

ODU	Option	Policy	Erosion	Ecology	Heritage	Landscape	Tech	Risk	Stakeholder	Community	Broad/cont	Maint	Life	Coast Proc	Relative cost	Shortlist	
OPTIONS	Do Nothing																
	No Active Intervention	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✓ 11.00	
	Do Minimum																
	Patch and repair	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✓ 12.00	
	Maintain																
	Capital refurbishment	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✓ 21.00	
	Scheduled maintenance	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✓ 20.00	
	Improve																
	Crest raising (frontline) + refurb	● 2	● 2	● 1	● 1	● 1	● 1	● 2	● 2	● 2	● 2	● 2	● 2	● 2	● 1	● 1	✓ 23.00
	Gross topped crest raising + scheduled maintenance	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✗ 19.00
	Self raising floodwall (frontline) + refurb of wall	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✗ 15.00
	Demountable defences	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✗ 15.00
	Seawall	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✓ 17.00
	Sheet piling (potentially behind the defences)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✓ 18.00
PLP / PRL	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✗ 15.00	
Vegetated buffer zones	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	✗ 14.00	

Top 3 ranked options (according to score) go through to the short list for:

- Do nothing
- Do minimum
- Maintain
- Improve

Shortlisted options

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Area 1 - Mill Lane and Harbourside
Havant Borough Council

Area 2 - Langstone Sailing Club and Spit
Havant Borough Council

Area 3 - Langstone Village Ship Inn
Havant Borough Council

Area 3 - Langstone Village Coastal Footpath
Havant Borough Council

Area 3 - Langstone Village Royal Oak
Havant Borough Council

Shortlisted Options

- Setback floodwall:** New floodwall setback from the existing defences.
- Earth embankment:** Compacted earth structure.
- Crest raising:** Increasing the height of the existing defences.
- Seawall:** A new higher vertical hard defence.
- Sheet piling:** Vertical sheet piling driven to ground in place of, or behind, defence.

Key for map

Shortlisted Options

- Rock armour:** Sleeping structure created using rock.
- Beach replenishment:** Addition of material to the beach to increase the beach levels.
- Groynes:** Structures placed along a beach to help capture material and raise the beach levels. This option would be in combination with beach replenishment.
- Earth embankment:** Compacted earth structure.
- Setback floodwall:** A new floodwall setback from the existing defences.
- Revetment:** Sleeping hard defence.

Shortlisted Options

- Flip-up floodwall:** An inflatable barrier that lies flat to the ground and can be raised to form a flood defence when required.
- Demountable defence:** A temporary defence that can be put in place when required.
- Flood gate:** A watertight gate left open during normal conditions, but can be closed to form a flood defence when required.
- Setback floodwall:** A new floodwall setback from the existing defence.
- Setback glass topped floodwall:** A new floodwall setback from the existing defence in all topped with reinforced glass panels.
- Glass topped floodwall:** Raising the height of the existing structure through crest raising topped with reinforced glass.

Key for map

Shortlisted Options

- Demountable defence:** A temporary defence that can be installed when required.
- Flip-up floodwall:** An inflatable barrier that lies flat to the ground and can be raised to form a flood defence when required.
- Flood gate:** A watertight gate left open during normal conditions, but can be closed to form a flood defence when required.
- Setback floodwall and boardwalk:** A new floodwall and wider walkway.
- Reinforce / replace existing defences:** Reinforce boundary and building walls to withstand higher floodwaters and flood proof buildings.

Key for map

Shortlisted Options

- Reinforce / replace existing defences:** Reinforce boundary and building walls to withstand higher floodwaters and flood proof buildings.
- Flip-up floodwall:** An inflatable barrier that lies flat to the ground and can be raised to form a flood defence when required.
- Glass floodwall:** A new floodwall made from reinforced glass.
- Earth embankment:** Compacted earth structure.
- Setback floodwall:** A new floodwall setback from the existing defences.

Key for map

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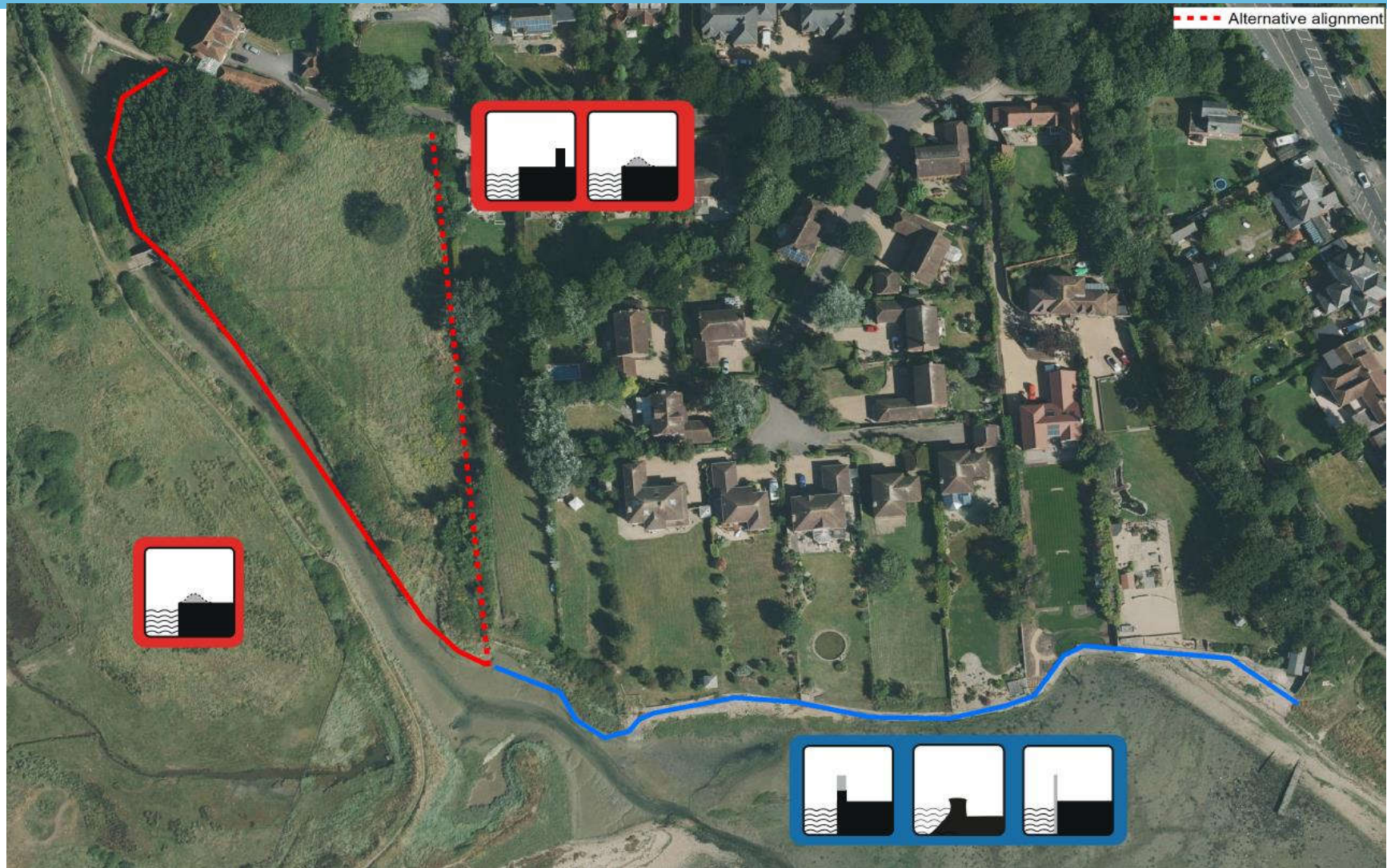


Coffee Break & Shortlist Poster Preview

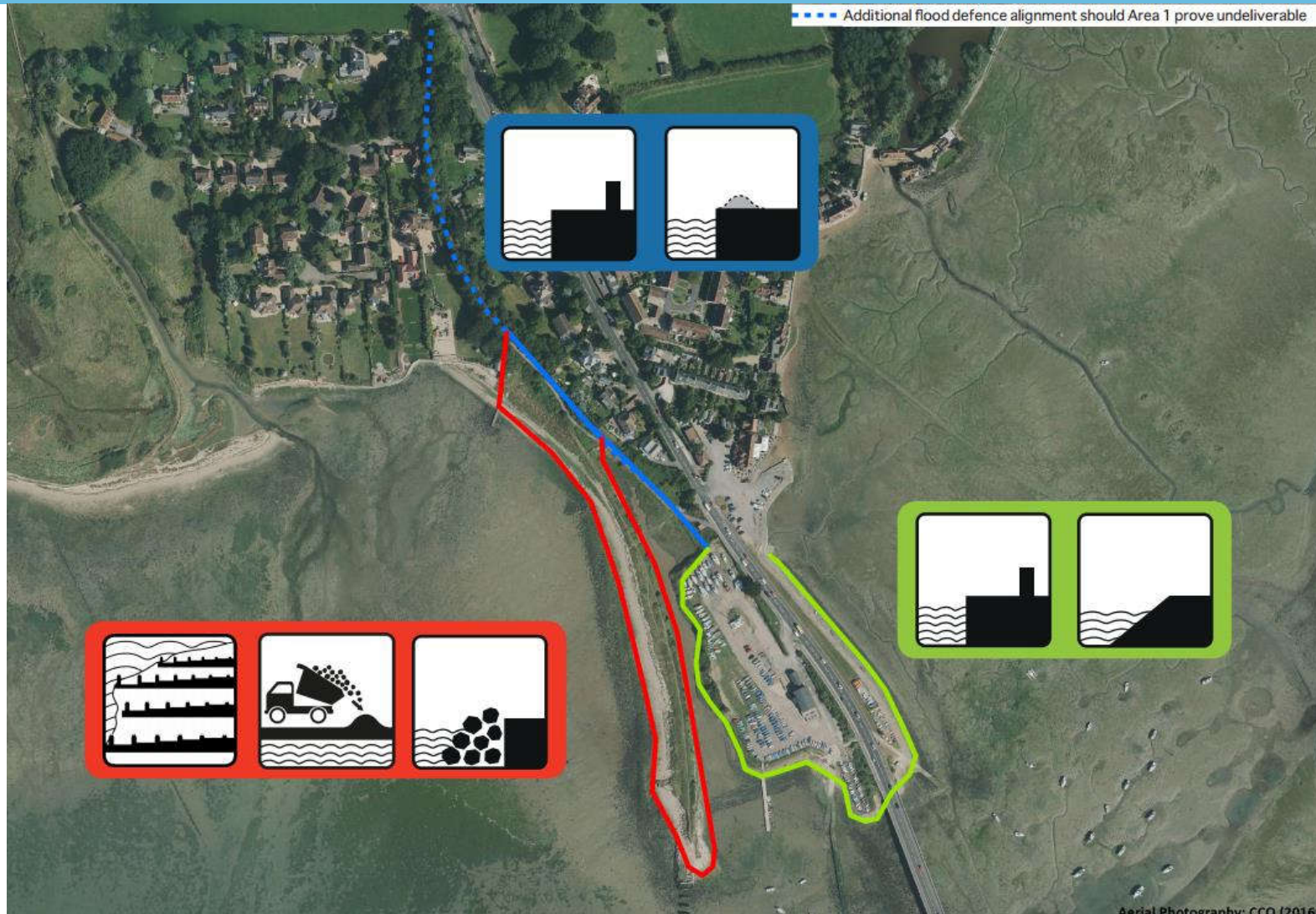


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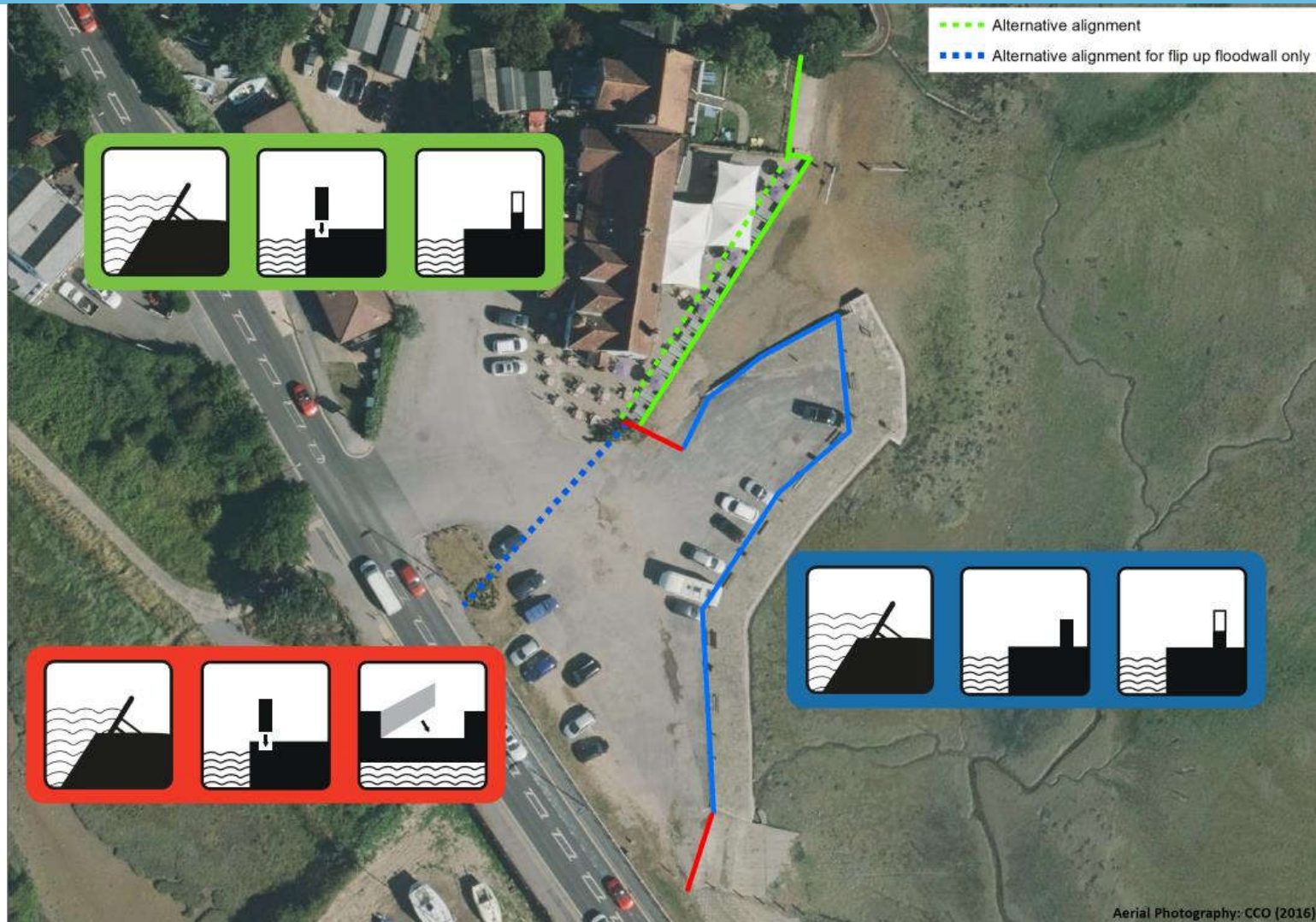
Area 1: Mill Land and Harbourside



Area 2: Langstone Sailing Club and Spit



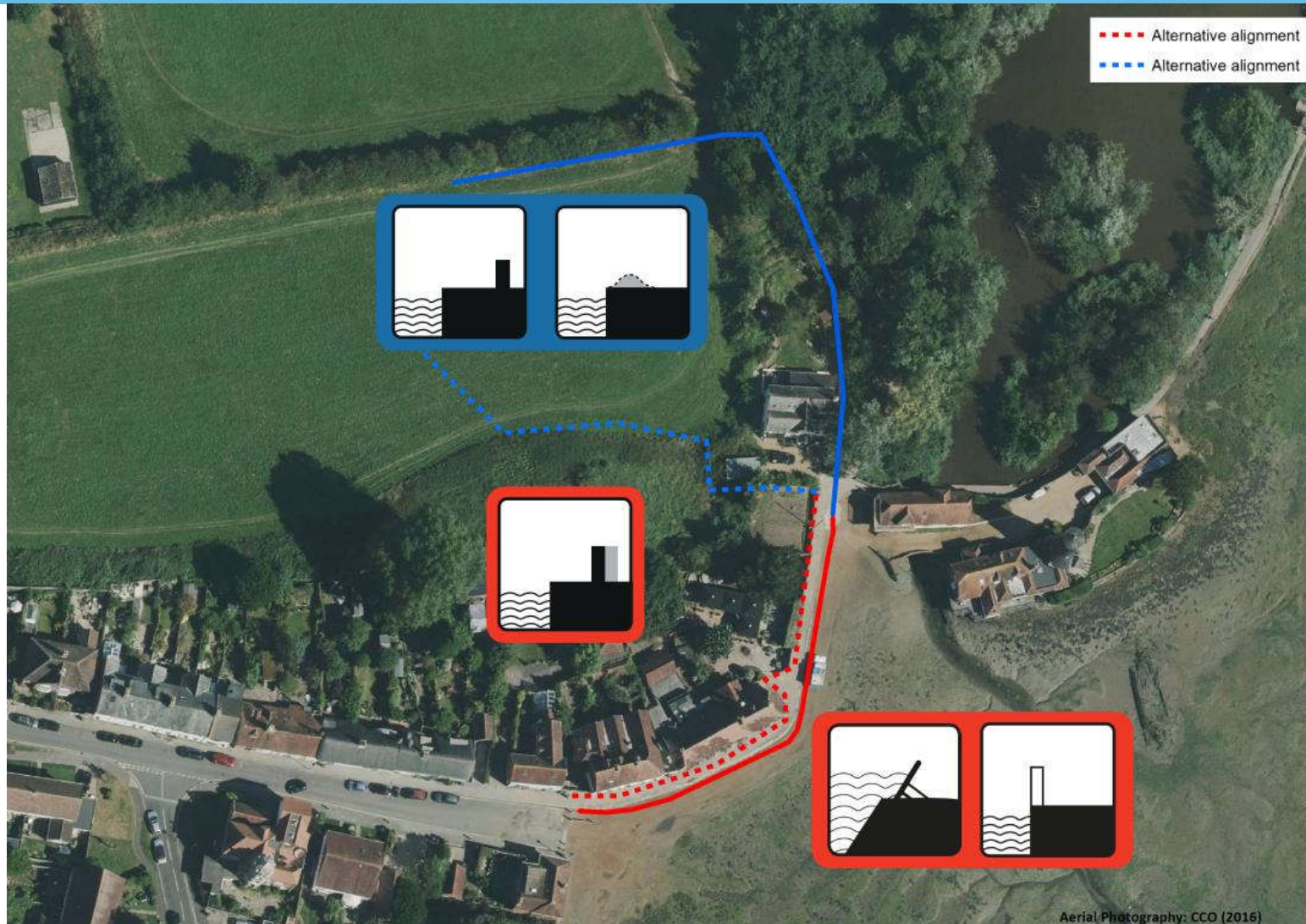
Area 3: Langstone Village – Ship Inn



Area 3: Langstone Village – Coastal footpath



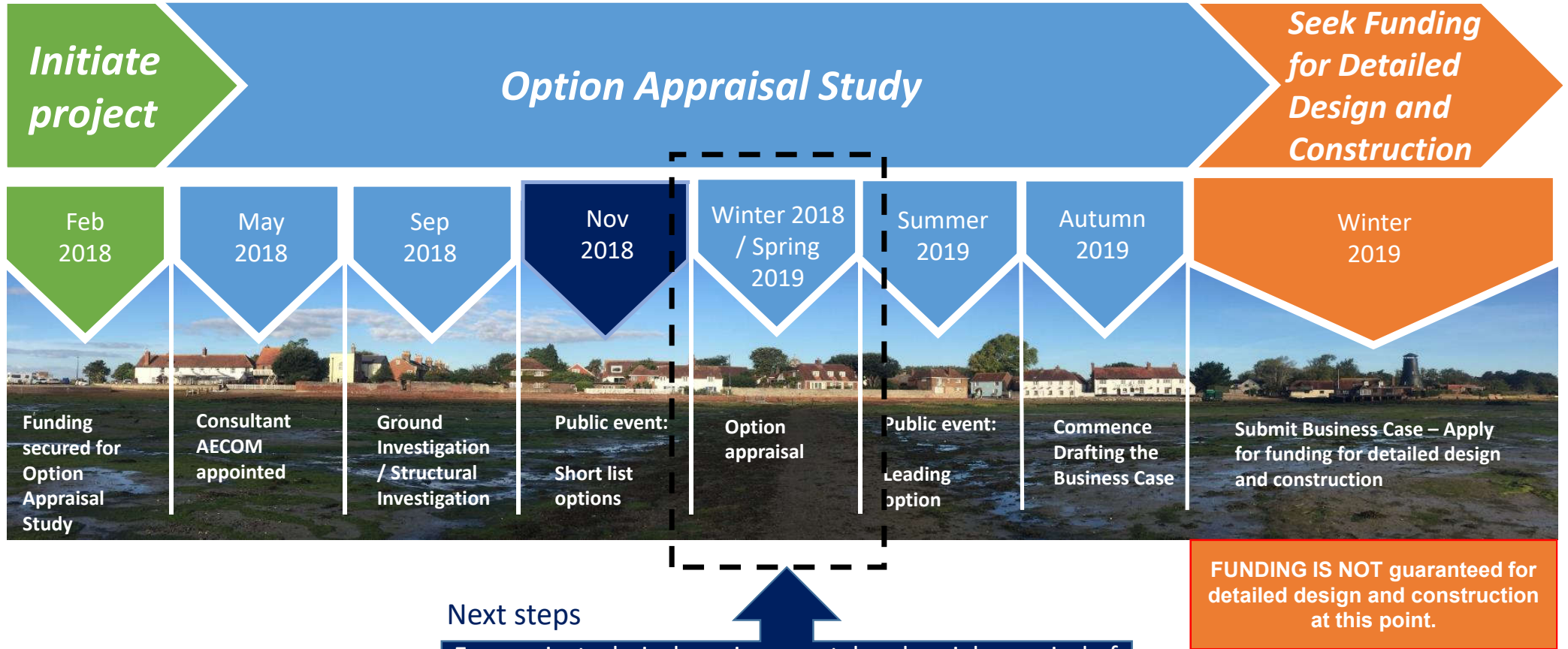
Area 3: Langstone Village – Royal Oak



Area 4: Old Mill and Mill Pond



Programme and next steps



FUNDING IS NOT guaranteed for detailed design and construction at this point.

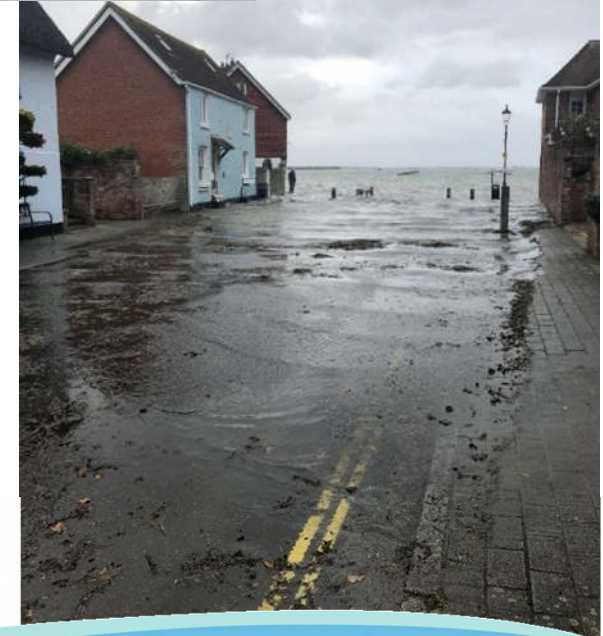
Next steps
Economic, technical, environmental and social appraisal of short list options
Options modelling and mapping
Outline design of leading option



Feedback & questionnaire

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7th November 2018: 5.32 mCD



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Glass walls



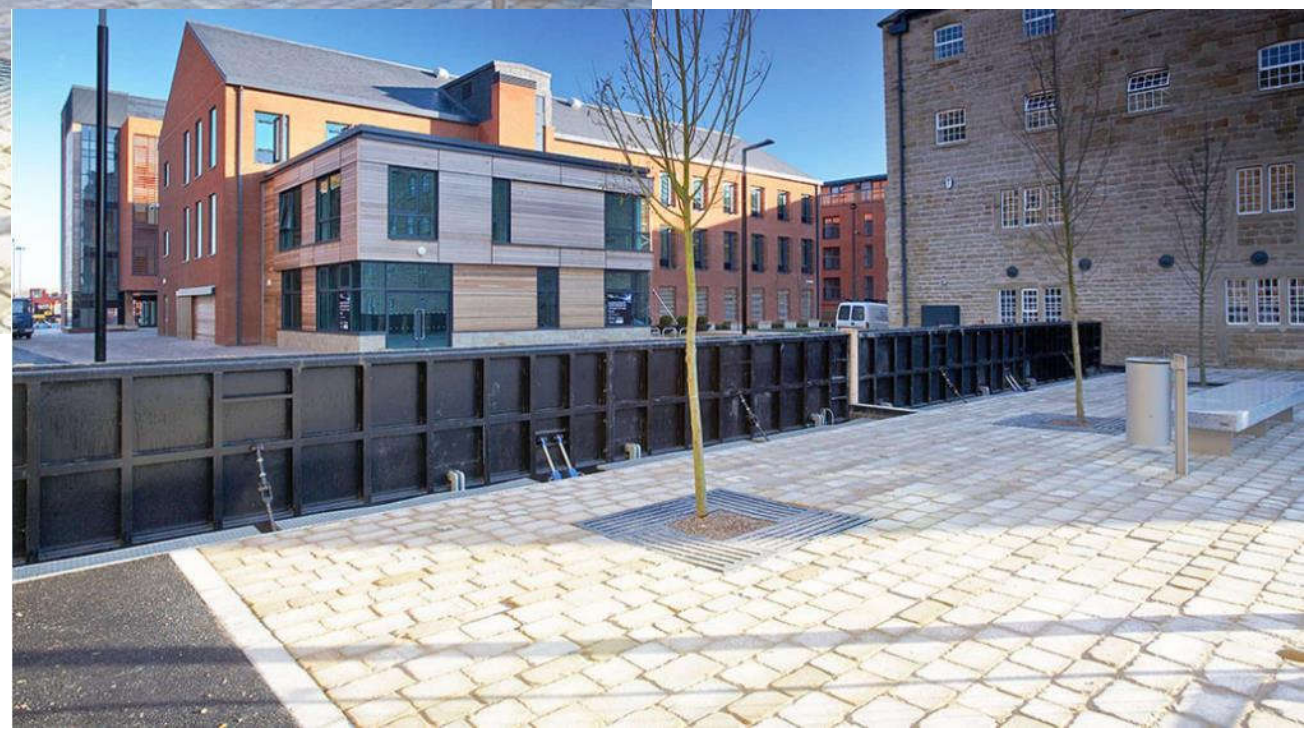


Flood Gates

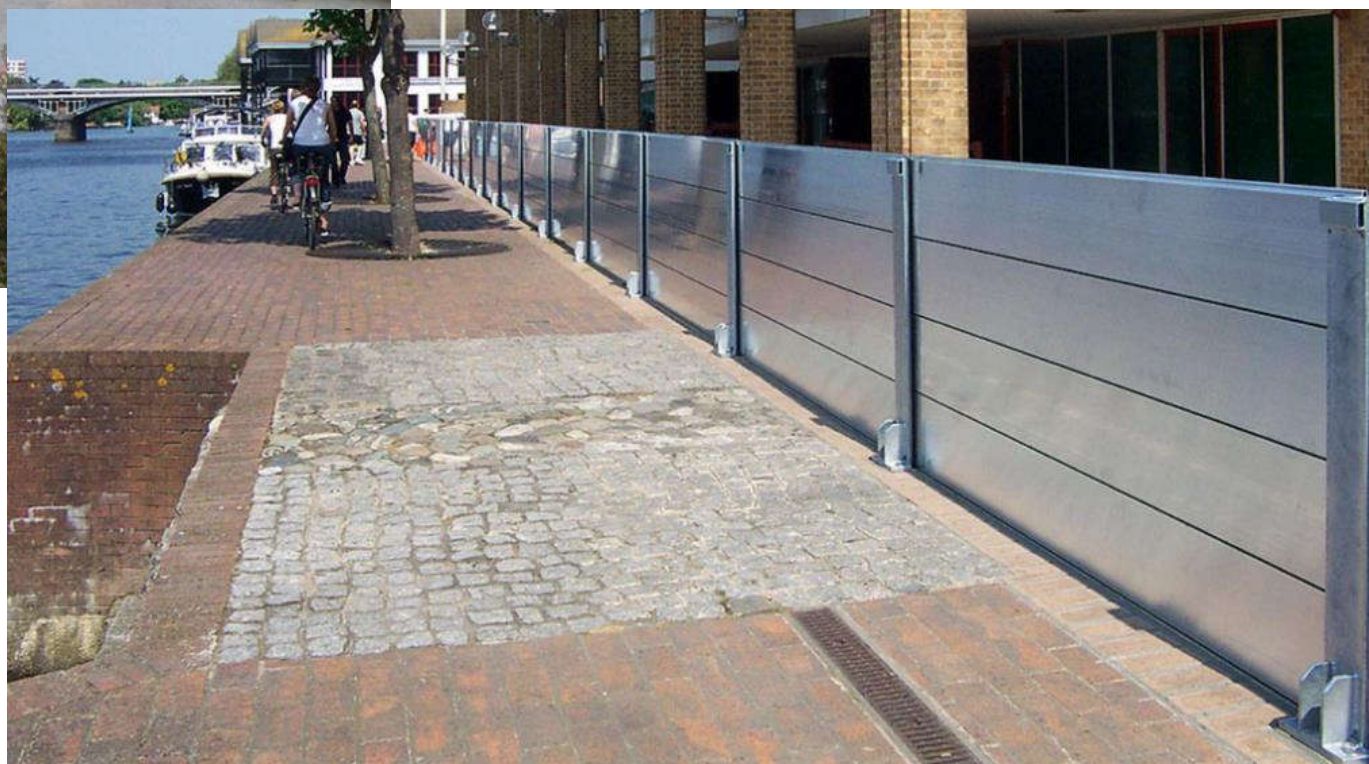




Flip-up
Flood wall



Demountable defences





Self-closing flood barrier

