

# West Bay Flood Defence

Name: Community Meeting

Project title: West Bay Coastal Improvements

Date: 20/10/2016

Presented by:

Nigel Bennetts

Jon Denner

EA project manager

CH2M project manager



# Project Team for Q&A

- ⇒ **Environment Agency** – Nigel Bennetts, Catherine Farrugia, Dave Picksley, Kevin House, Alan Frampton
- ⇒ **WDDC** – Rob Clarke
- ⇒ **CH2M** – Jon Denner, Ian Ball
- ⇒ **Dorset Coast Forum** – Bridget Betts, Charlotte Wild

# Objectives of Meeting

- ➡ Provide information on the issues and results to date
- ➡ Listen to your views and understand any concerns
- ➡ Share any insights and receive inputs on local factors which the project team should take into account
- ➡ Seek understanding and support for the proposed pathway to reaching agreed solutions

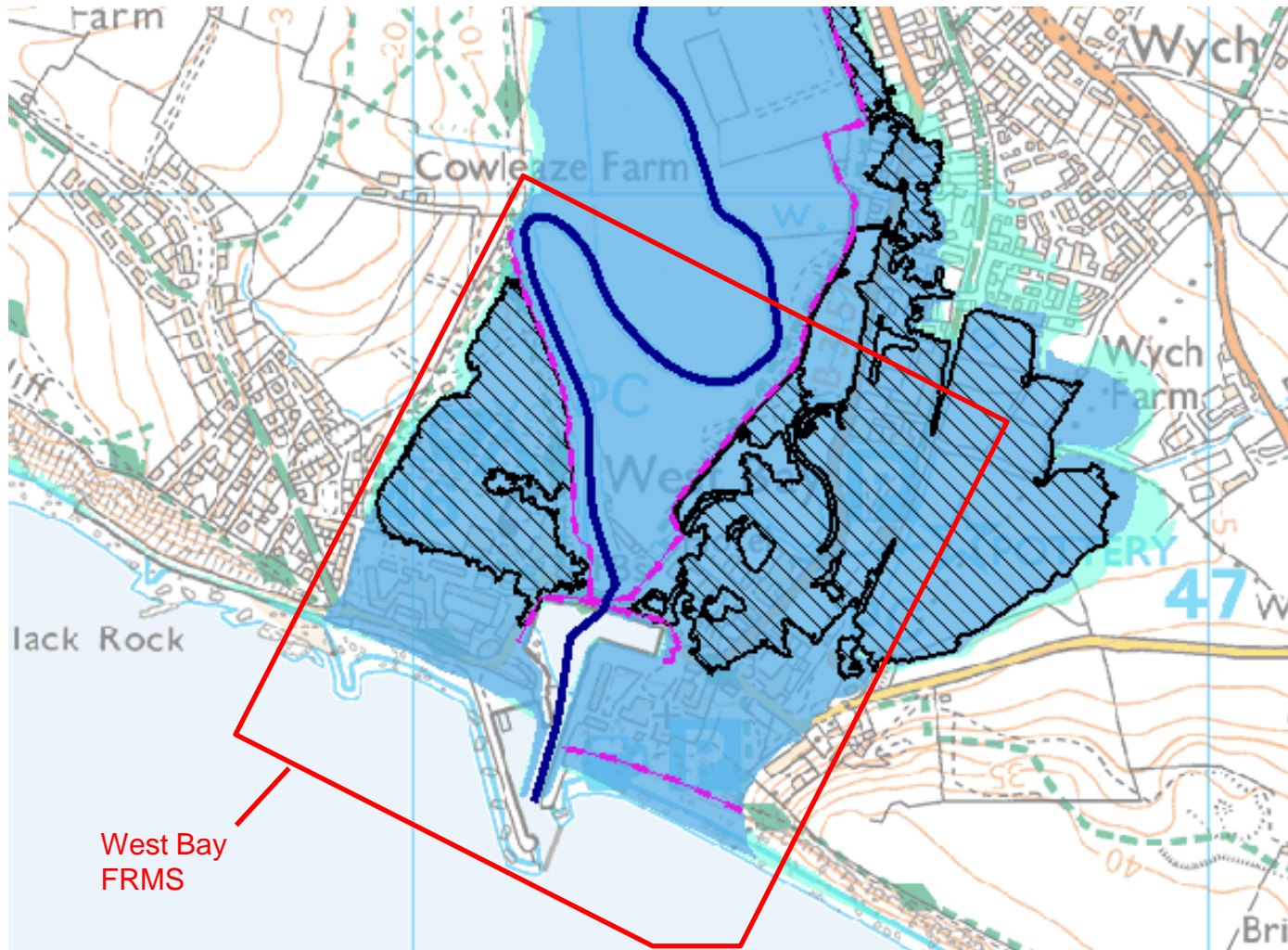
# Project Objectives

- ➔ Reduce flooding by providing a modern standard of flood protection for West Bay
- ➔ Develop multi-functional assets that support local businesses by offering both flood defence and encouraging tourism
- ➔ Retain integrity of SSSI, SAC and World Heritage Sites

# Key community concerns

- ➡ Tourism and effects of disruption
- ➡ Effects on landscape and environment
- ➡ Risks to historic buildings and heritage

# West Bay Flood Risk Management Scheme Area



# Key Flood Defence Assets

- ➔ West Beach
- ➔ East Beach
- ➔ Park Dean Embankment (River Brit right bank)
- ➔ Other assets – George Street Pumping Station and the Harbour Sluices

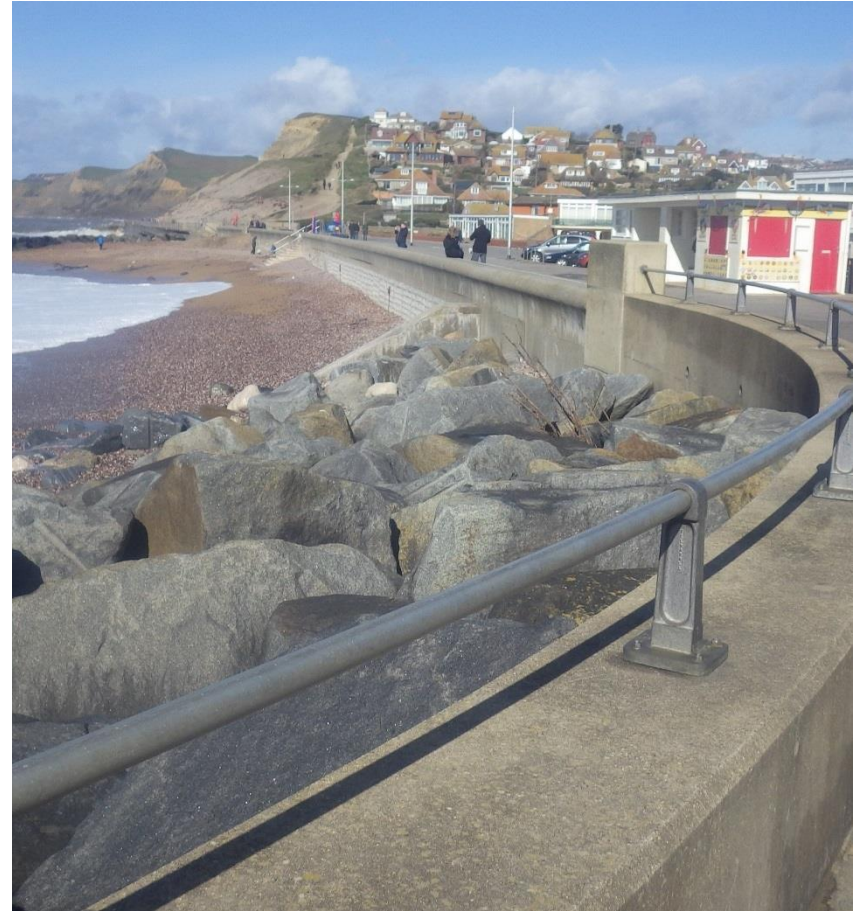
We are also looking at present flood protection standards at:

- ➔ River Bride - Freshwater to Burton Bradstock



# West Beach - Issues

- ➔ Eastern end of the beach is narrow allowing waves to impact the seawall
- ➔ Wave overtopping causes flood risk to infrastructure and property
- ➔ Current structures are unable to hold a beach of sufficient size



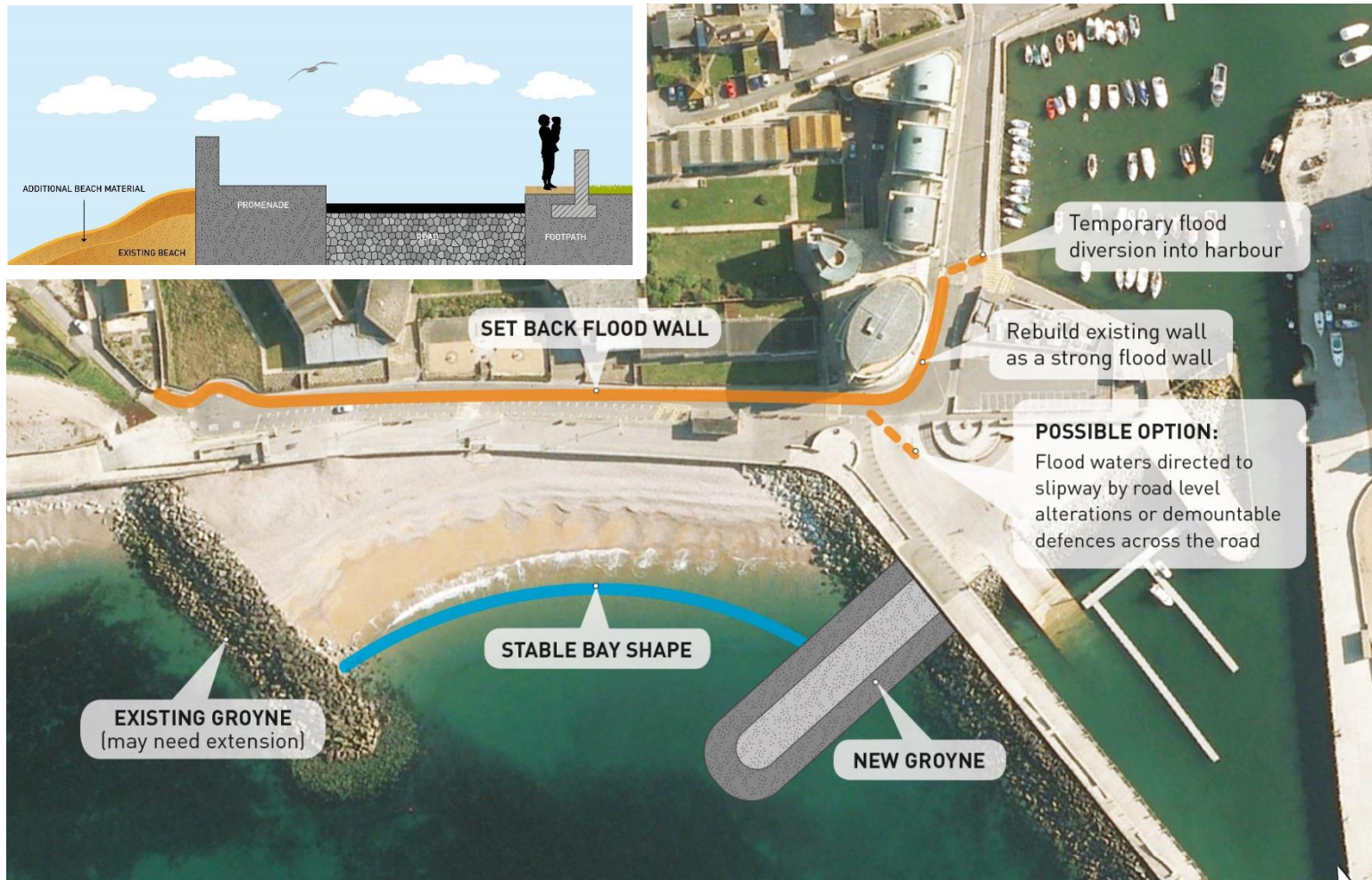


# West Beach - Issues



# West Beach -

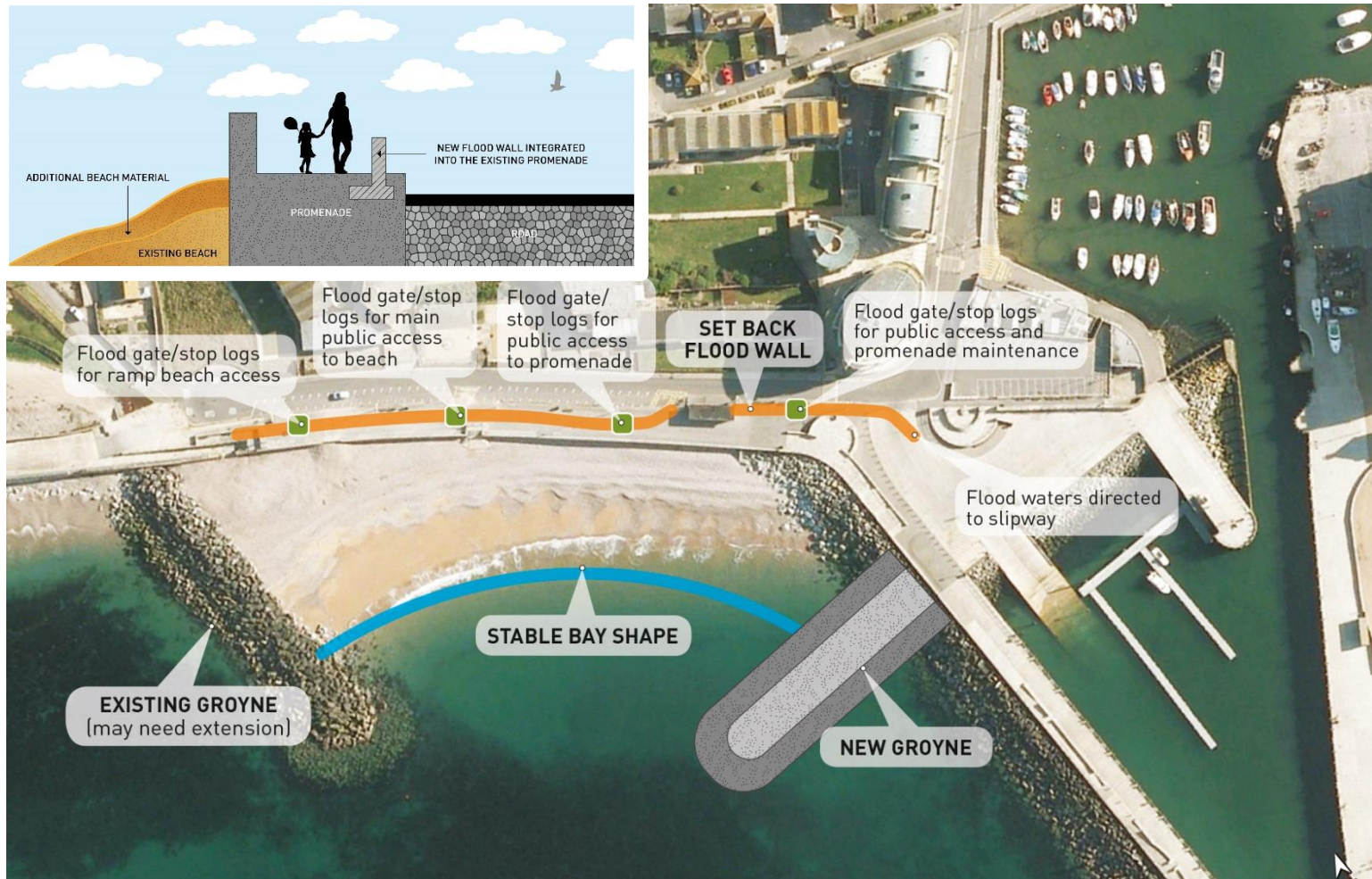
## Rock stub-groyne and set back flood wall behind road





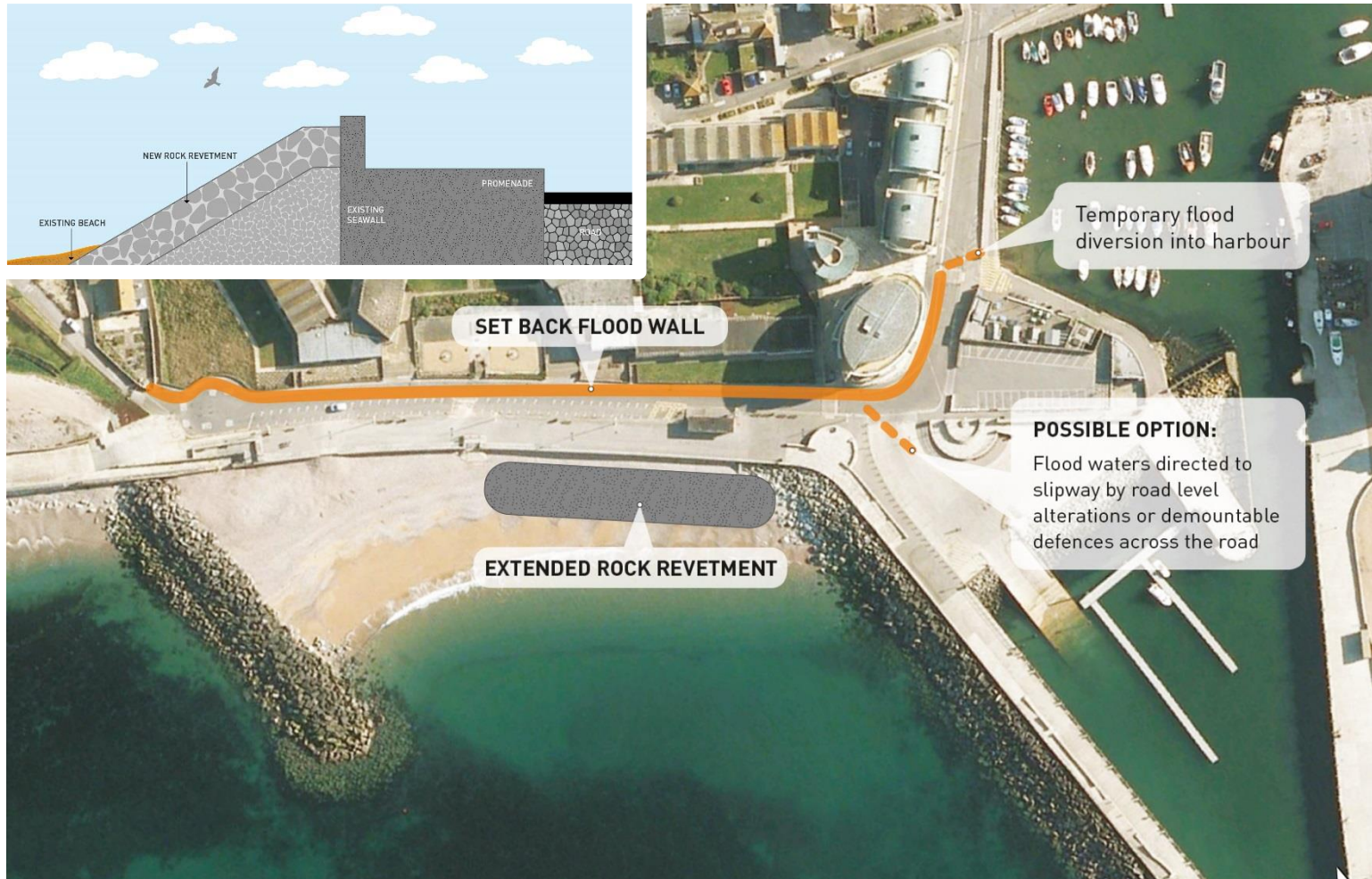
# West Beach -

## Rock stub groyne and set back flood wall within promenade



# West Beach -

## Extension of western harbour arm rock along the seawall





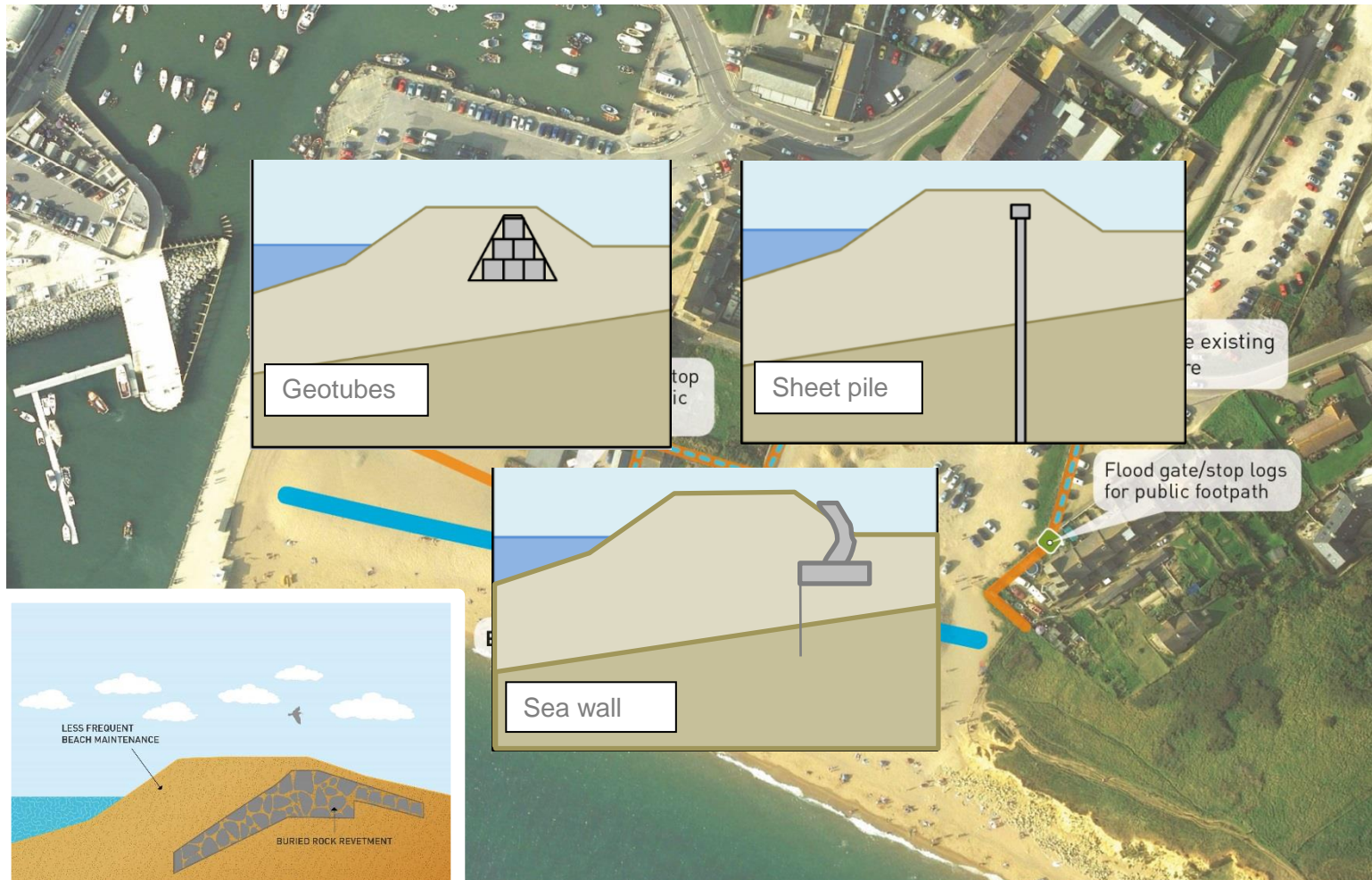
# East Beach - Issues

- Artificial profile with high maintenance requirement
- Storms and large waves cause changes to the beach shape, narrowing the crest width and making failure (breach) more likely



# East Beach -

## Buried rock revetment and set-back flood wall





# East Beach -

## Set-back flood wall for long-term realignment





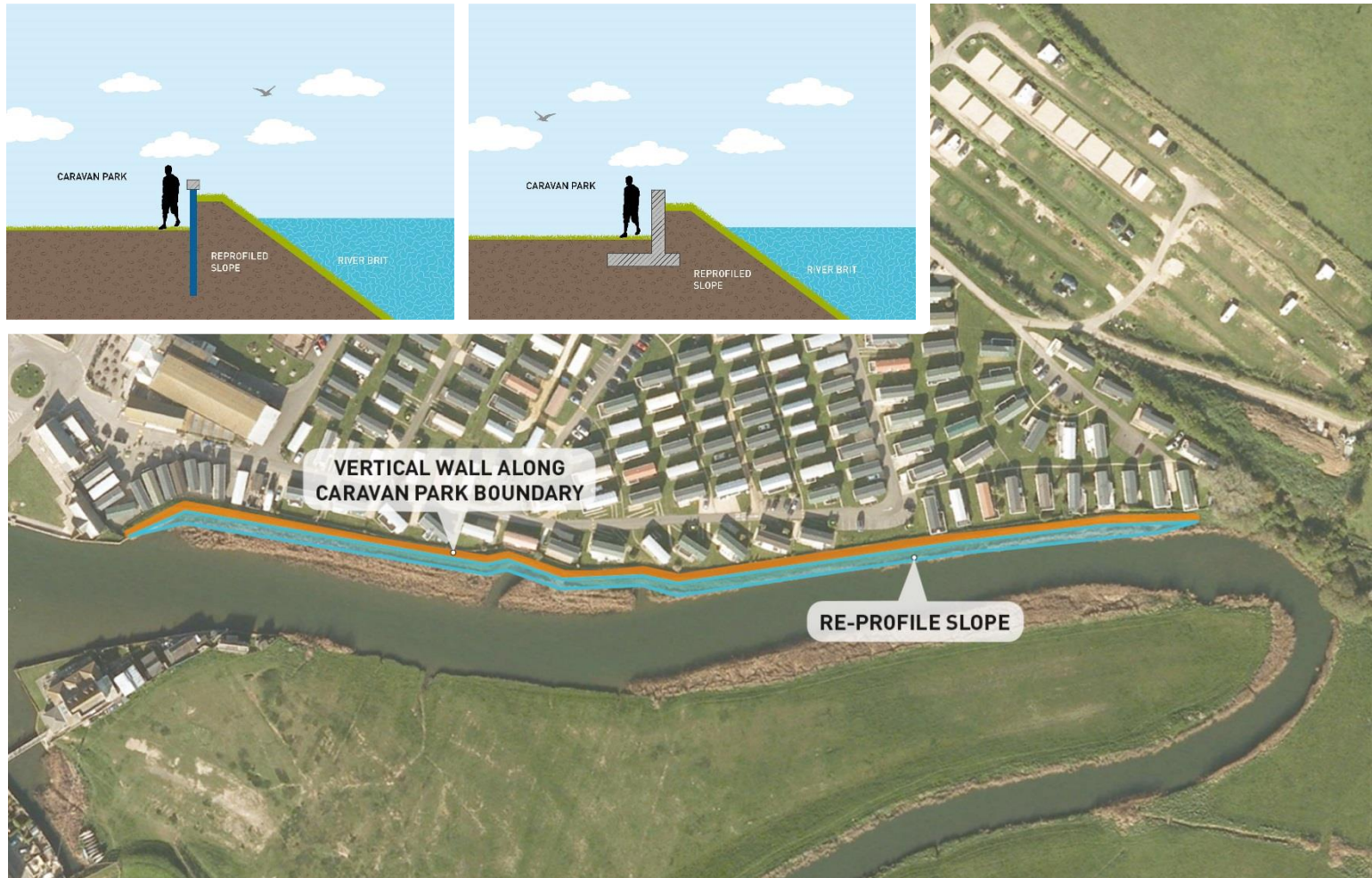
# Park Dean Embankment - Issues

- ➡ Flood embankment slopes are steep and potentially unstable
- ➡ Varying crest level provides protection below the target level
- ➡ Embankment suffering from toe erosion at the northern extreme
- ➡ Historic surface drainage flooding within the park



# Park Dean Embankment -

## Flood defence wall, re-profiled bank and toe protection





# Consultations and Programme

- ➡ 18 March 2016 - Public consultation held jointly with Dorset Coastal Forum to share experiences of flood defence activities at West Bay and to seek early guidance on local concerns
- ➡ 20 October 2016 - Planned consultation with invitees particularly likely to be directly affected by the measures required to implement acceptable flood defences
- ➡ Autumn 2016 onwards – Planned consultations with statutory consultees and key stakeholders. (DCC Jurassic Coast and Natural England approval will be needed to implement an acceptable option)

# Consultations and Programme cont.

- Winter 2016 – Public consultation event seeking responses to the front runner preferred options
- Delivery of the Outline Business Case – Winter 2016/17
- Design and Build Tendering – Spring 2017
- Delivery of the Final Business Case – Summer 2017
- Detailed design and construction – 2017/18/19

# Thank you for your time

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