

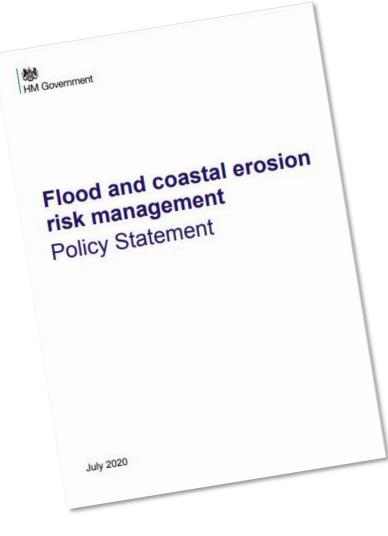


# COASTWISE

# **Coastal Transition – The Future?**

RITA

### **Defra FCERM Policy Statement**

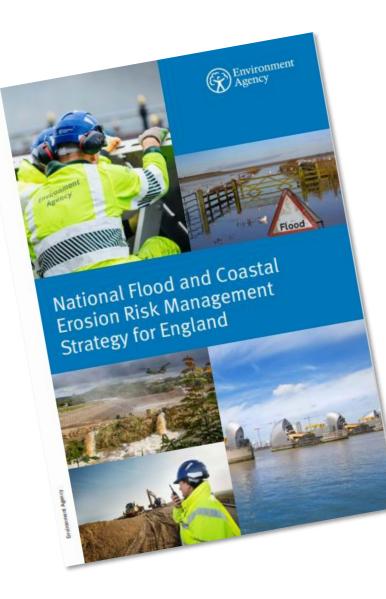


In areas facing significant coastal erosion and impacts from rising sea levels, to limit impacts and unlock the advantages our coastline brings, local areas may determine that a **managed transition away from high risk areas** is the most effective and practical response.

The government is committed to enabling this transition by supporting local areas to help them to implement long-term plans.



# **National FCERM Strategy**



In some places the scale and pace of change may be very significant that over a period of **time risk management authorities will need to support communities to transition and adapt to a changing climate.** In these places, the focus of resilience both now and in the future, will be on keeping people safe from harm and to **develop resilience actions** that minimise the impacts of flooding and coastal change on communities.

Strategic objective 1.3: Between now and 2050 risk management authorities will help coastal communities transition and adapt to a changing climate.



# Flood & Coastal Innovation Programmes (FCIP)

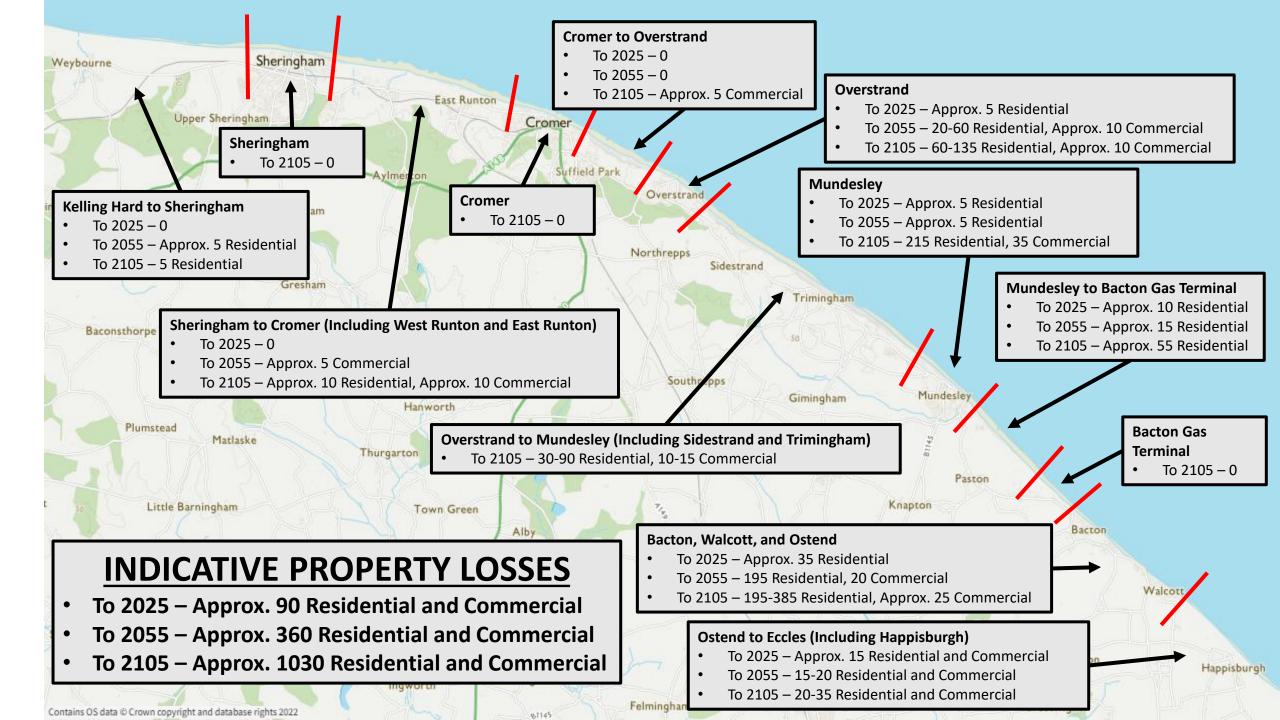
- £200m | 2021-27
- 25 FCRIP local authorities
- 4 EA areas
- 2 coastal authorities

We will drive innovation in flood and coastal resilience and adaptation to a changing climate. We're investing £200 million to test and develop new ways to create a nation resilient to flooding and coastal change.

#### £150m Adaptation pathways Rood & coastal resilience innovation programme 4 EAteams developing programme adaptation pathway £200m 25 local authorities plans with local delivering FCRIF partners resilience actions £36m Coastal transition accelerator programme







Π Π Π Π Ħ Π П Π Ħ Π Π A Π Π Π Π Up to 2105, approximately
 1030 residential and commercial T î¶ ♠ Π Π. properties are predicted to be lost. **f** Π. Π · 俞、俞、俞、俞、俞、俞、俞、俞、俞、俞、俞、 Π. Π Π Π . . . . . . . . . . . . T

Π

Π

Π

Π

Π

Π

Π

Π

Π

Π

Π

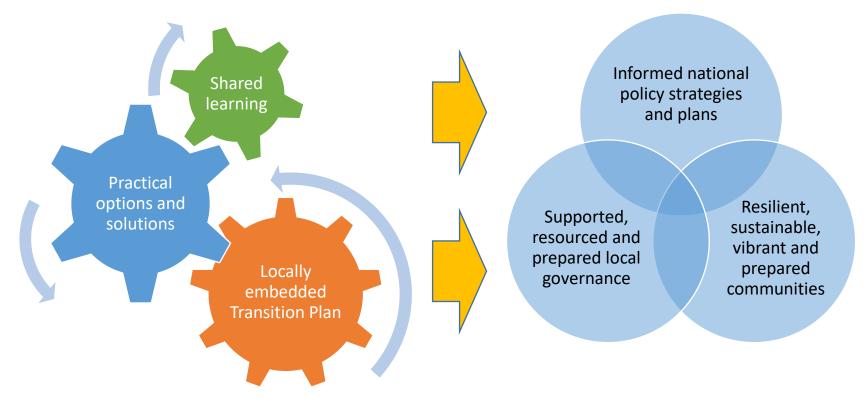


north-norfolk.gov.uk

### **CTAP Objectives**

- Develop Strategic Transition Plans
- Capture evidence, tools and learning

- Test and demonstrate practical actions
- Share learning and transferability
- Embed learning and approaches in FCERM policy and investment decisions and local policy



## **Coastal Transition Accelerator Programme**



#### **Exclusions**

- Traditional Coastal Risk Management Structures
- Compensation
- Normal Local Authority functions (e.g. Emergency Planning)

# **Coastwise Outputs**



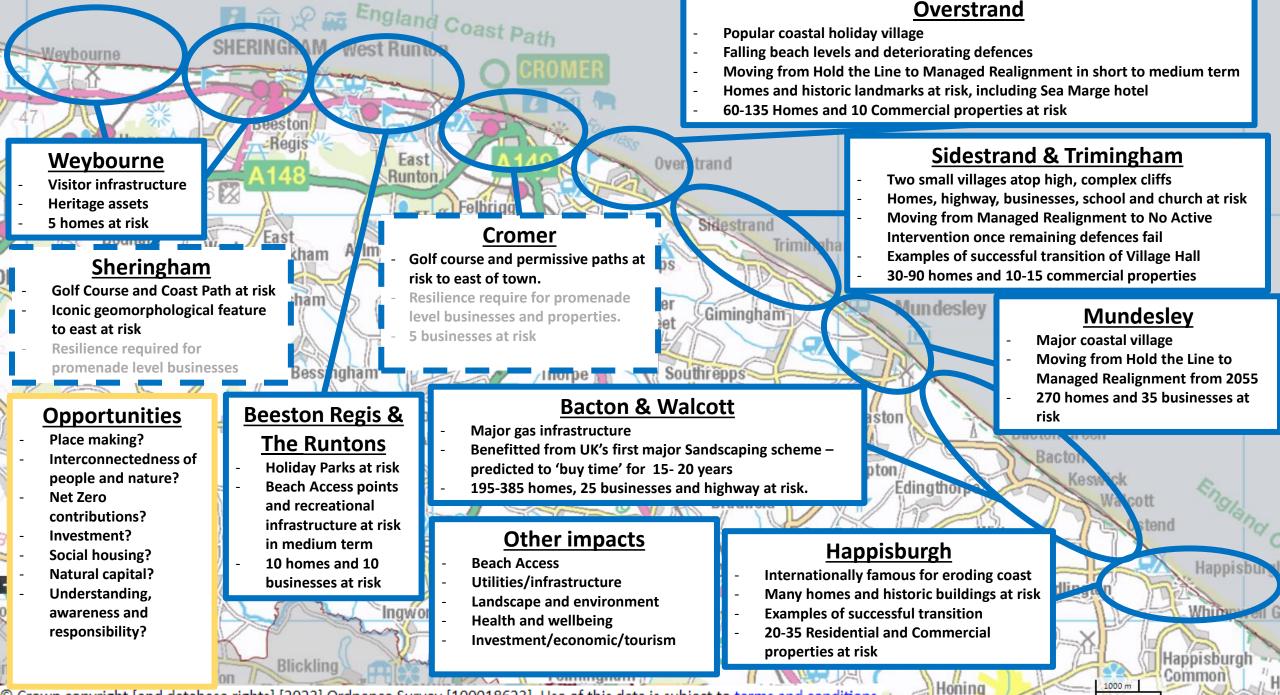


#### Themes

Policy Development Identifying where policy, strategies plans and legislation supports or creates challenges for transition. Stakeholder Engagement Ensuring involvement of stakeholders is integral to all aspects of the programme.

#### Evidence and Learning Data and evidence to support policy development and decision making as well as knowledge and learning.

#### Net Zero Reduction and mitigation of carbon



5000 ft

© Crown copyright [and database rights] [2023] Ordnance Survey [100018623]. Use of this data is subject to terms and conditions.

Approximate location of international telephone cable

Car Park

Access

TO BE A

and Beach



Homes





- Beach Access needs to be maintained

0.

- Car park
- 5 residential homes
- Coast path realignment
- Infrastructure maintenance





Lifeboat

Station

Golf Course

Iconic landscape feature 'Beeston Bump'

England Coast Path

#### Transition Needs:

- Coast Path
- Golf course
- Prom level assets and businesses

# **Beeston and West Runton**

Car Park

and cafe

Beach

Access

England

Coast Path

Transition Needs:

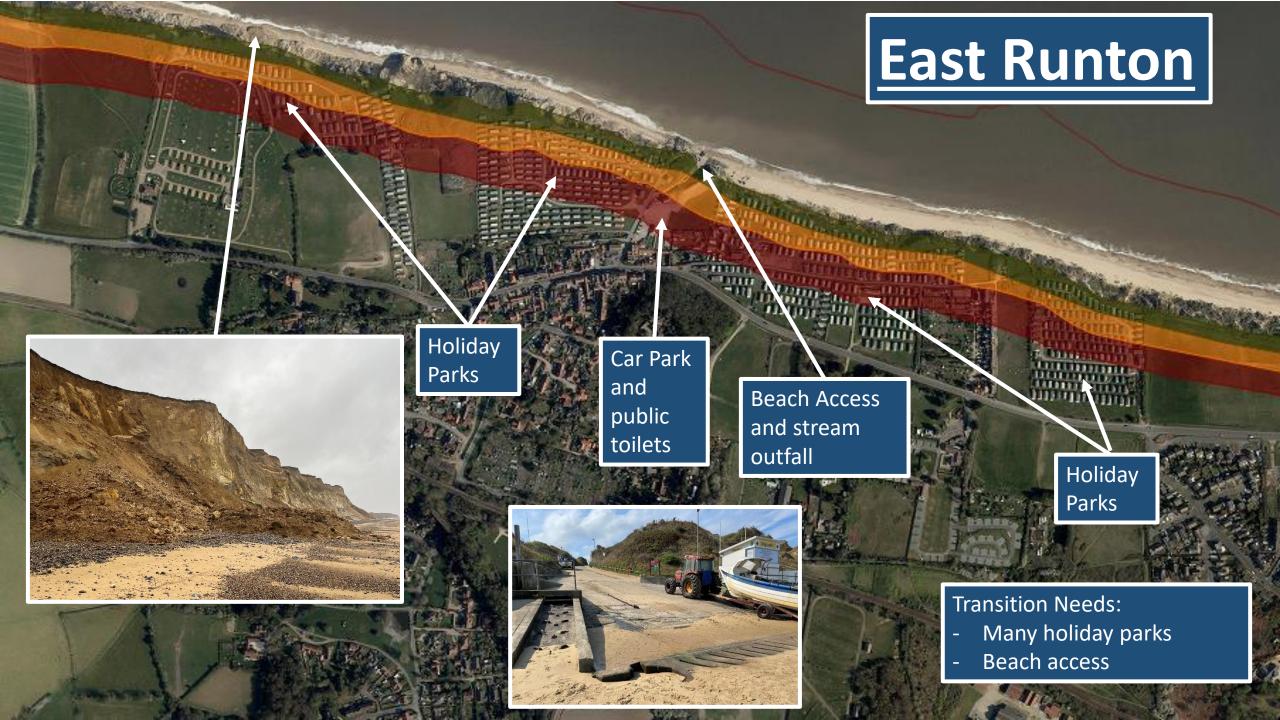
- Holiday parks
- Community assets at risk car park and beach access

Holiday

Parks

17117177

- Cafe
- Coast Path





#### Transition Needs:

- Golf course
- Permissive cliff top paths and beach access

Car Park

- Prom level infrastructure and businesses (including pier)
- Car park

Coastal Management Scheme planned on frontage for medium term

In Easthand

Beach Huts

Pier

Beach

Access

Cromer

England Coast Path

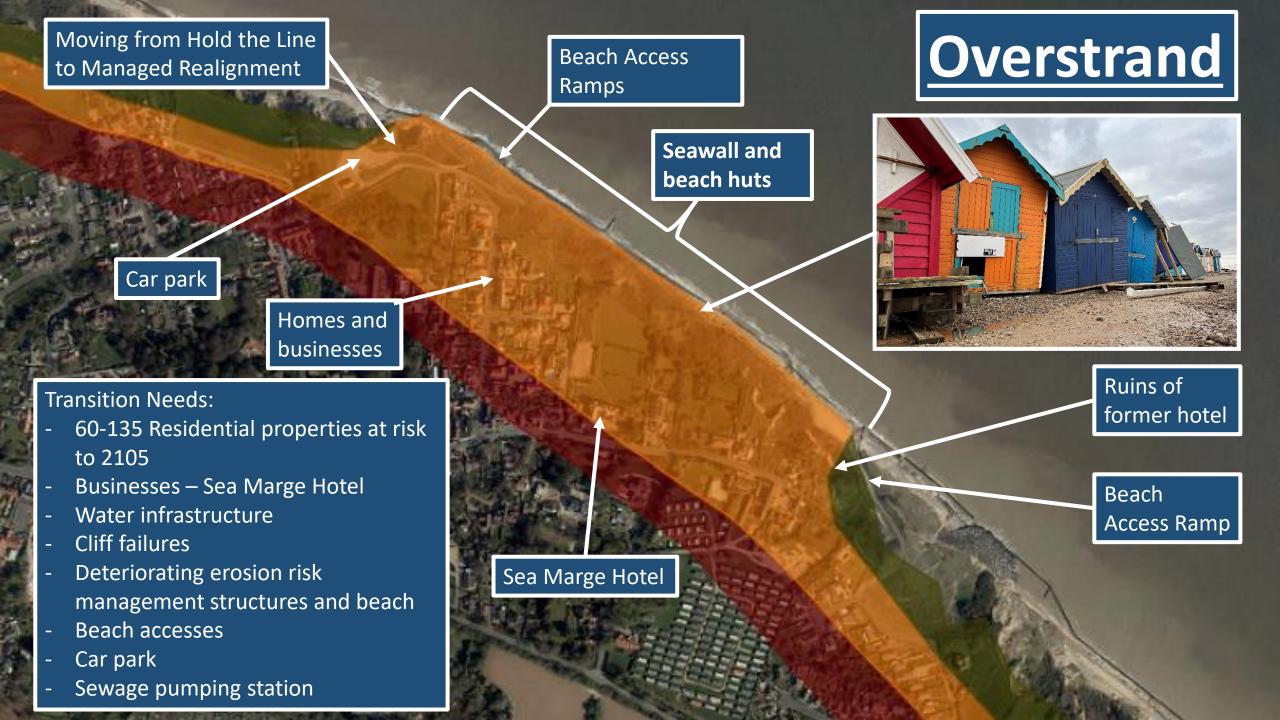
> Golf Course and cliff top permissive paths

Homes

at Risk



Public open space and beach access





The former Overstrand Hotel, which first burnt down in 1947, then collapsed down the cliff, continues to subside down onto the beach access ramp

#### <u>The Sea Marge Hotel – Transition Planning</u> Historic permission for two storey bricks and mortar extension to rear of hotel Hotel is in Epoch 2 (indicative erosion up to 2055)

Vorthrepps House

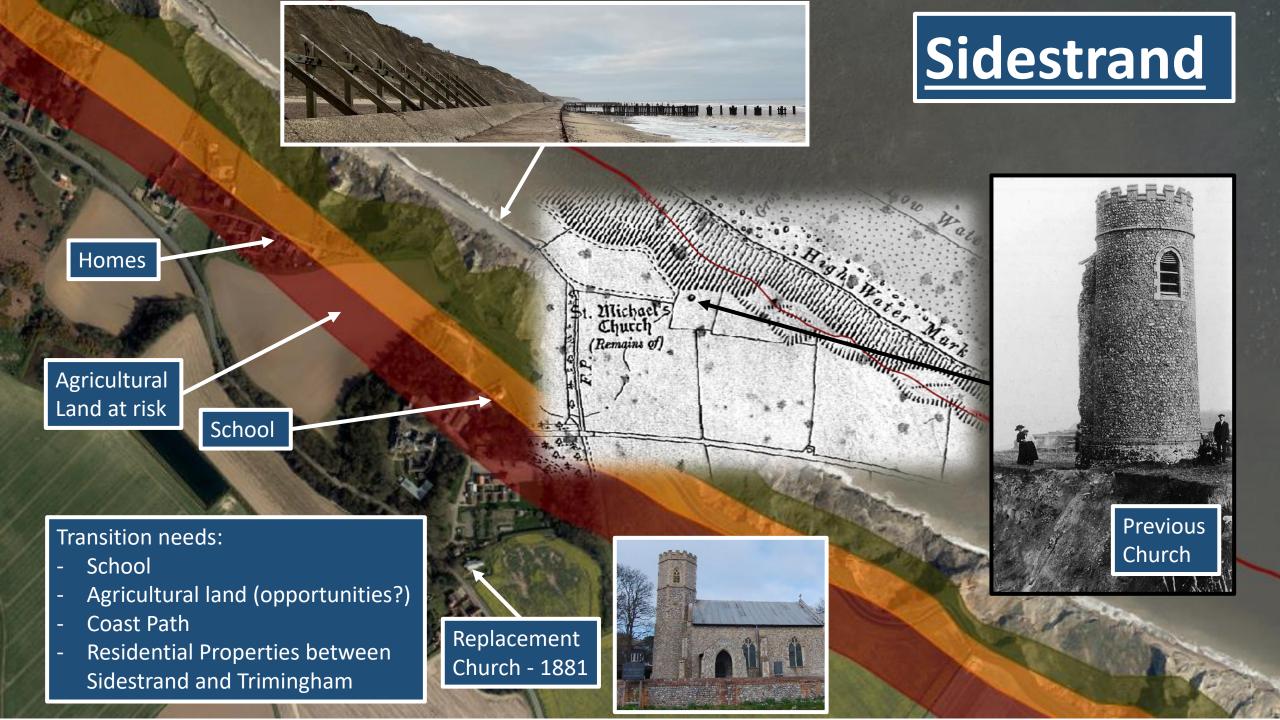
286 Ivy House

2.427

 Applied for permission to site seven movable lodges in grounds instead of extension.
 This was seen as a pragmatic approach to the risk of coastal erosion and in line with an adaptation approach







#### Complex cliffs along North Norfolk Coast

A school, farmland and coast path impacted by coastal erosion at Sidestrand Homes

#### Future Transition Needs

- 30-90 Residential Properties between Sidestrand and Trimingham

Church

- Coast Road
- Church
- Failing Erosion Risk Management Structures
- Holiday Park
- Beach Access
- RAF Radar Station



RAF Radar Base

# **Trimingham**

Coast Road at risk

The only Beach Access between Overstrand and Mundesley

Homes

Holiday Park







Previous Transition measures:Village Hall relocatedProperties privately rolled back





# Mundesley

frontage for medium term

Coastal Management Scheme planned along

Line to Managed Realignment



#### Transition needs:

- Up to 215 Residential Properties at risk to 2105
- Care Home
- Car Parks
- Beach access points

Holiday Park

Long-term moving from Hold the

- Cliff top path
- WWII Heritage Asset
- Businesses and Holiday Parks
- Highways

Existing Seawall and beach huts

Church

Properties at risk at Mundesley following a cliff slip on Hold the Line policy frontage



Damage caused to defences

#### Transition needs:

- Major infrastructure 1/3
  of UK's gas
- 195-385 Residential
  properties in Bacton and
  Walcott
- Coast Road
- Businesses
- Erosion risk management structures



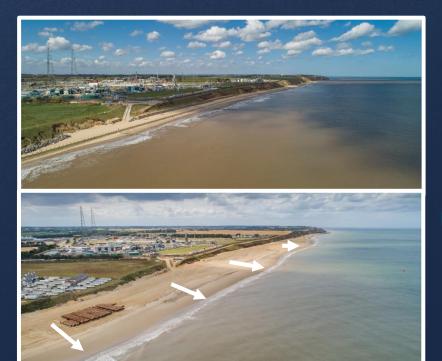








#### **Bacton to Walcott Sandscaping**



## 1.8 million m<sup>3</sup> of sediment TERMINAL:

1:15 SLOP

- Very high protection level
- Re-nourishment interval 15-20 years

#### VILLAGES:

- Higher beaches & slower erosion
- Time for adaptation/transition
- Beaches fed by terminal frontage
  - over time



Transformationar change to look & feel of the

coastal frontage

Outcomes to

date

Improved community

relations

A national

example to learn from

**Recreation &** 

tourism benefits

ntific learn

& potential

environmental

benefits

Hope for the

future

1:5 SLOPE

RECHARGE MATERIAL

**Business** 

confidence &

social uplift

tronger ongoin

relationships

between partner

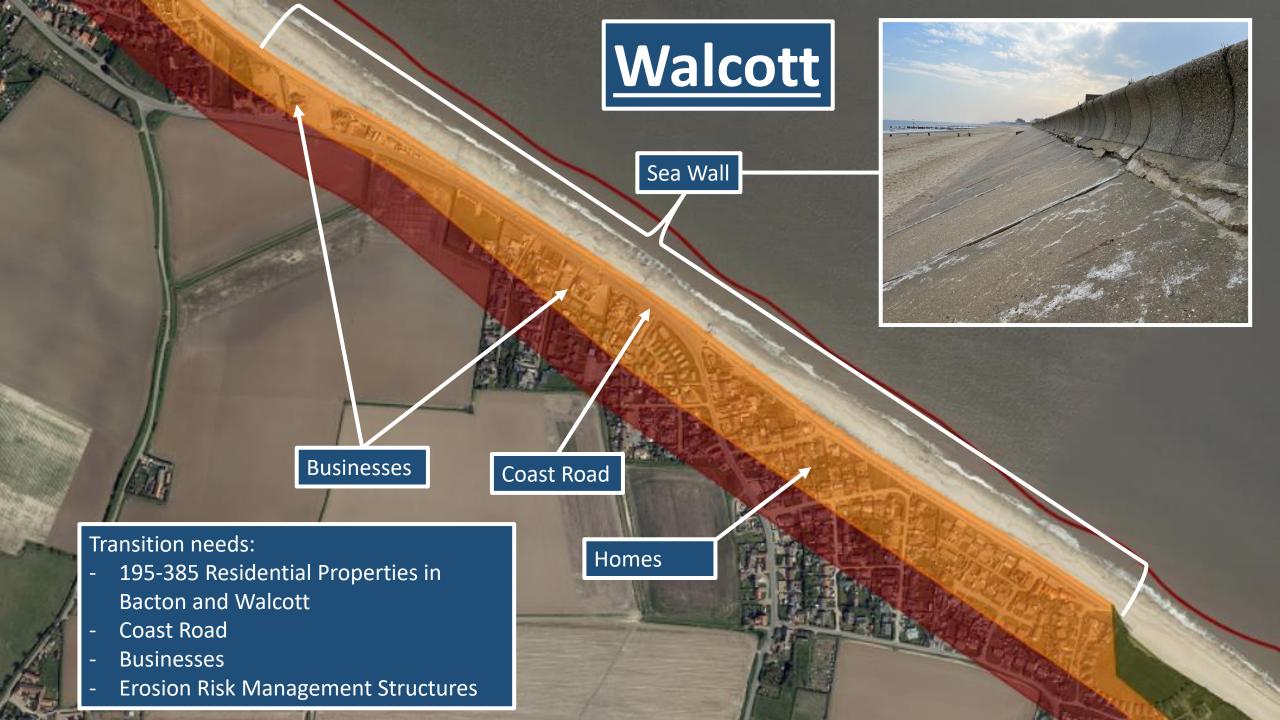
organisations

Health &

wellbeing

benefits











# **Pre-Sandscaping**





### 2015-2018

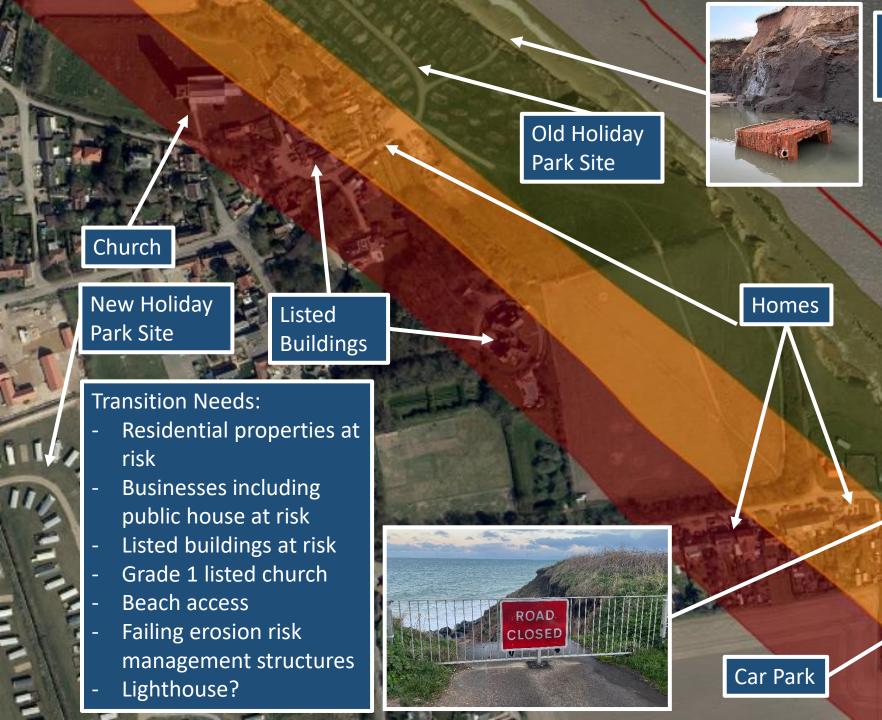


# **Post-Sandscaping**





### Providing time to transition



# <u>Happisburgh</u>

Previous Transition:

- 9 properties
  purchased,
  demolished and
  - consent for relocation
- Some failed erosion
  risk management
  structures removed
- Beach debris removed
- Holiday Park relocated
- Car Park and public toilets re-provided

Beach Access



-Deteriorated risk management structures and beach debris removed over time. -Rock berm to 'buy time'\_\_\_\_\_







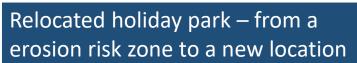
Coastal change at Happisburgh

The location of this holiday home is circled on the previous slide

u u

1\_\_\_\_

1100



AA







#### As part of a previous trial, these homes were purchased and a replacement site identified and secured



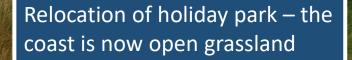


At risk homes replaced or 'rolled back' with new housing away from the erosion risk zone





#### Transition in Action – examples of successful adaptation





Relocation of a car park and public toilets











NORTH

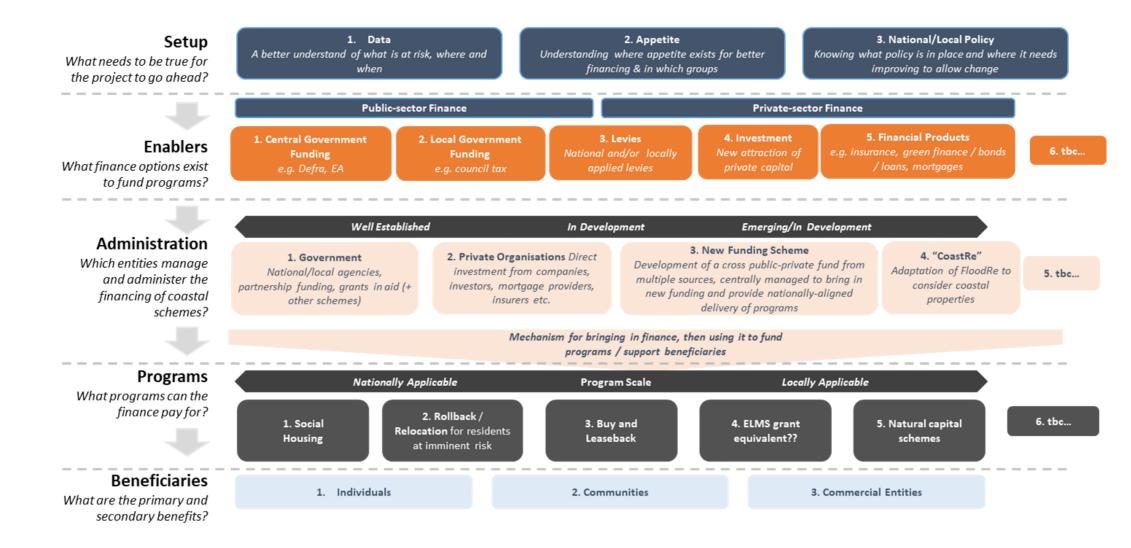


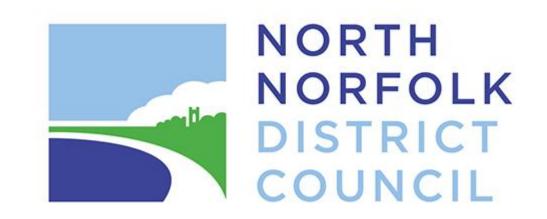
https://www.north-norfolk.gov.uk/tasks/coastal-management/coastal-loss-innovative-funding-and-financing-cliff/

- Flood risk properties which would otherwise not have affordable insurance, have insurance due to the success of Flood-Re (up to 2036). Most coastal erosion is not considered insurable
- There are some options which could work to help fund coastal transition
- Better data is essential
- Any option works best at scale
- There is a need to consider payouts and pay in mechanisms and scales
- Further work on appetite, equitability and acceptability – politically, providers and end users

			What could eligible properties receive	?
		Tenanted property / shared ownership / affordable housing	Private resident property / land ownership	Cash
Who are the main financial contributors?	Individual homeowners			<b>Coastal Accumulator Fund (1)</b> Homeowners pay into a fund which allows there to recover depretated property value
	Direct contribution from public or private fund (e.g. tax, levy)	Local Authority Coastal Adaptation Fund (2) Local Authorite Guild fund	which allows then to recover dependenced property value Levy Model (3) Levy raised which is specifically allocated to pay out a cash sum once the property is lost	
	Government (local and/or central)	to support coastace adaptation on ogst the more newsk coastal properties	<b>Rollback Model (4)</b> Demolition of at risk properties and provision of homeowners with the right to develop a plot of land	<b>Compensation Model (5)</b> At risk residents are provided with a like-for-like replacement once their property is lost

# Possible draft 'innovative funding and finance options that could be considered further





Email:Coastwise@north-norfolk.gov.ukVisit:www.north-norfolk.gov.uk



Department for Environment Food & Rural Affairs



Coastal transition accelerator programme

Part of the £200m Flood and coastal innovation programmes