

North West Regional Flood and Coastal Committee

27 January 2023

Agenda Item 2

Minutes of the RFCC meeting
held on 21 October 2022

Agenda Item 3

Flood Incidents Update

Lancashire Strategic Flood Risk Partnership

Fylde/ Freckleton flooding on 7th September 2022

- Internal flooding to properties
- Extensive highway flooding resulting in some road closures
- 60 minutes of intense rainfall



Lancashire Strategic Flood Risk Partnership

Blackburn with Darwen experienced a flood event on 9th September 2022.

- 20 residential properties flooding internally
- 13 Business properties flooded internally
- 25 cases of external/ highways flooding



Agenda Item 4

Update on EA FCRM Assets and Asset Maintenance

Introduced by Paul Bowden and Nikki Beale



What we will cover

- Programme and Finance
- What we do with our resource budget
- Extraordinary impacts on programme
- Future investment
- Opportunity for partnership



A brief overview of the North West

6,450
km



of main river

1,060
km



of coastline

199,950



Residential and non-residential
properties in areas at risk from
flooding

16



Reservoirs

15



Strategically Important Assets

86



Major Assets or Major
Operating Sites

177,000
ha



Environmentally Designated
Sites

£8.6bn



Asset Replacement Value

£42bn



Asset Whole Life Benefits



Historical Context



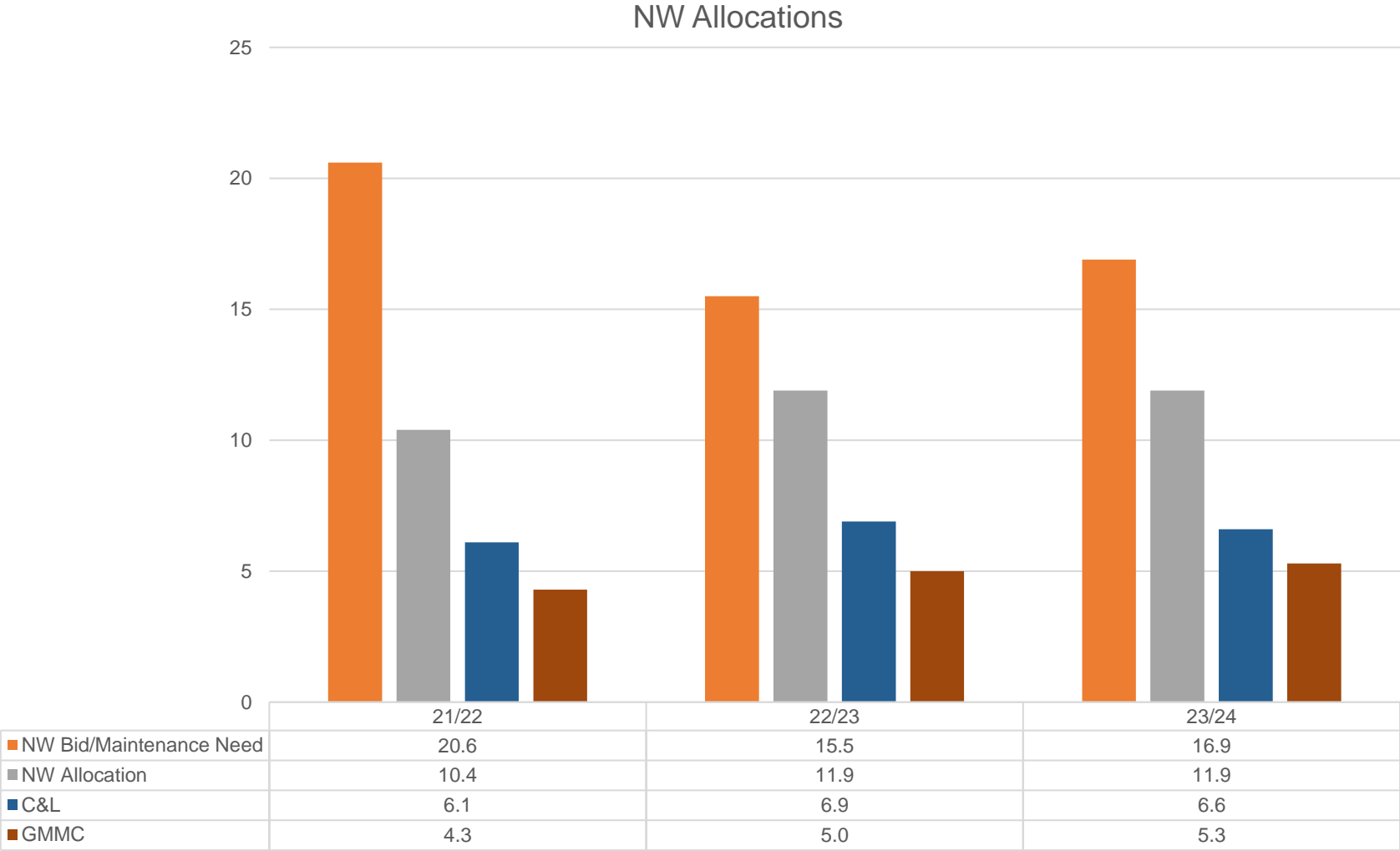
National Rivers Authority - hard engineering of river channels, land drainage improvement.

Environment Agency Different priorities – reducing the likelihood of people and property from flooding

Left a legacy of historical assets and agreements to maintain / operate



Programme and Maintenance Funding





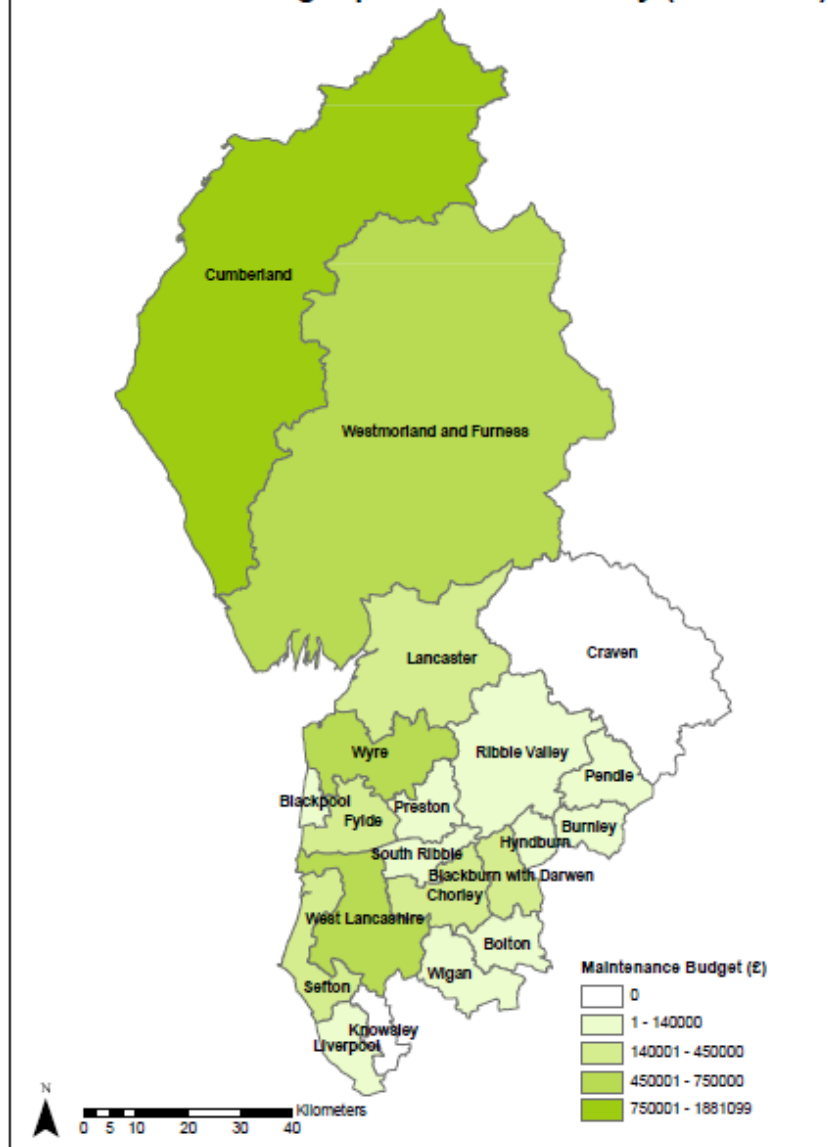
23/24 Ongoing Challenges

- **Stagnated Resource Budgets. Results in tough decisions**
 - Large Capital Investment Programme resulting in larger asset portfolio to maintain and incident response commitments.
 - Reduced channel maintenance to ensure asset operation
- **Staff Resources**
 - Recruitment and Retention –
 - Pay
 - Skills and Training
 - Increased Capital Programme needs
- **Supplier Costs**
 - Operational costs such as electricity increasing due to inflation.
 - Materials costs
 - Contractors
- **Carbon reduction**

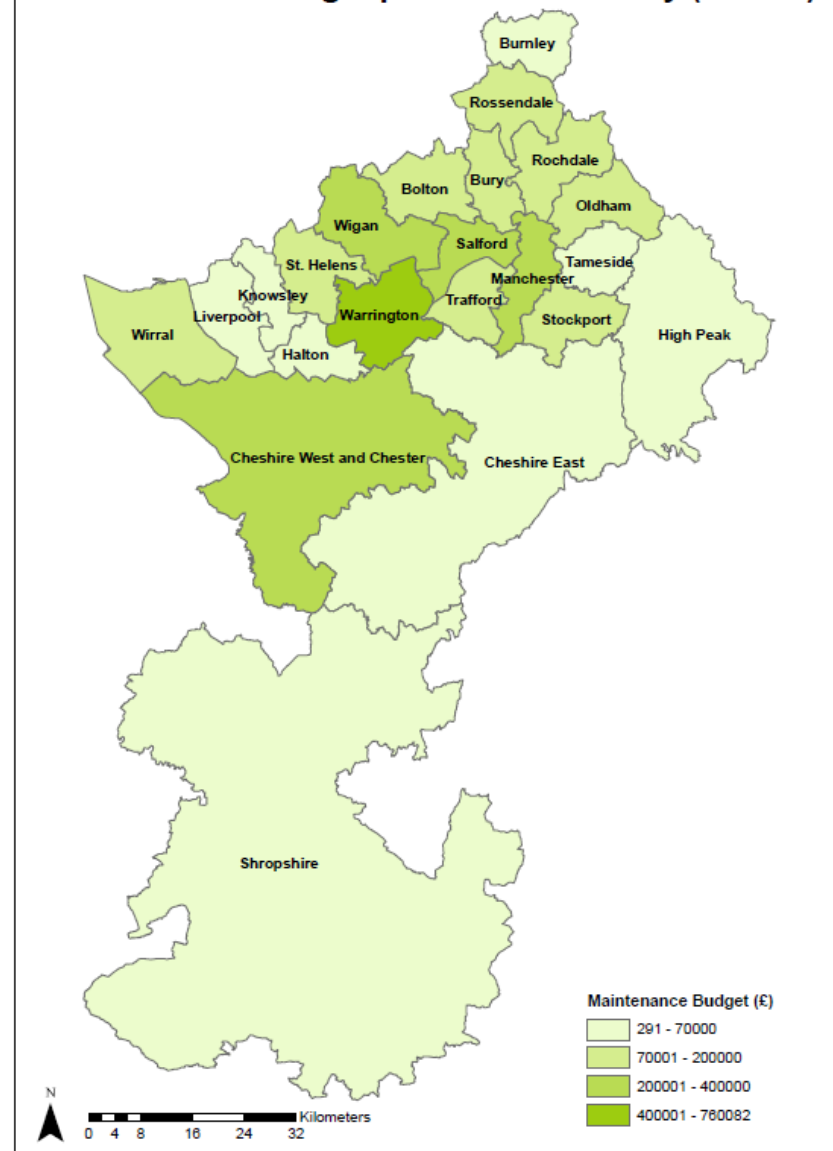


23/24 Initial NW Allocation per Local Authority Area (Pre-Local Choices)

Maintenance Budget per Local Authority (CMBLNC)



Maintenance Budget per Local Authority (GMMC)





23/24 Initial NW Allocation per Local Authority Area (Pre-Local Choices)



C&L Local Authority	Allocated Funds	Percentage of overall C&L scheduled allocation
Blackpool Unitary Authority	£2,731	0.05%
Blackburn and Darwen	£140,053	2.68%
Bolton District	£7,498	0.14%
Burnley District	£6,028	0.12%
Chorley District	£140,084	3%
Craven District	£0	0%
Cumberland District	£1,881,099	36%
Fylde District	£371,956	7%
Hyndburn District	£36,685	1%
Knowsley District	£0	0%
Lancaster District	£236,987	5%
Liverpool District	£26,808	1%
Pendle District	£65,700	1%
Preston District	£56,423	1%
Ribble Valley District	£33,324	1%
Sefton District	£203,544	4%
South Ribble District	£36,847	1%
West Lancashire District	£691,141	13%
Westmorland and Furness District	£746,469	14%
Wigan District	£99,428	2%
Wyre District	£453,351	9%
	£5,233,335	
Unscheduled Allocation, MEICA and non-asset specific	£1,374,665	

GMMC Local Authority	Allocated Funds	Percentage of overall scheduled GMMC allocation
Bolton	£195,059	5.35%
Burnley	£650	0.02%
Bury	£144,154	3.95%
Cheshire East	£39,851	1.09%
Cheshire West and Chester	£323,699	8.88%
Halton	£67,018	1.84%
High Peak	£57,626	1.58%
Knowsley	£23,709	0.65%
Liverpool	£290	0.01%
Manchester	£380,545	10.44%
Oldham	£98,993	2.71%
Rochdale	£175,608	4.82%
Rossendale	£138,659	3.80%
Salford	£257,787	7.07%
Shropshire	£40,255	1.10%
St. Helens	£126,829	3.48%
Stockport	£102,325	2.81%
Tameside	£13,539	0.37%
Trafford	£166,187	4.56%
Warrington	£760,081	20.85%
Wigan	£353,786	9.70%
Wirral	£179,494	4.92%
	£3,646,153	
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23/24 NW Local Choices

Local choices is a process that allows Area Teams to make changes to their planning allocation scenarios based on local priorities and needs.





22/23 North West Maintenance Activities (CLA & GMMC Combined)

Activity	£ Programmed
Confined Spaces CCTV	£467,730
Confined Spaces BA	£420,000
Camera Maintenance	£12,060
Concrete / Masonry Inspection / Repair	£282,000
Debris / Obstruction Removal	£400,365
Desilting	£168,000
Dredging / Reprofiling / Shoal Removal	£475,000
Electric	£1,002,363
Environmental Enhancements	£100,000
Grass Control (hand)	£386,640
Grass Cut (m)	£1,091,358
Grass Cut 2 (m)	£413,887
Grass Cut 3 (m)	£68,305
INNS Removal	£519,934
Maintain Access to Asset	£66,304
Maintenance Check	£705,735
MEICA	£989,000
Operational Check	£2,433,414
Tree Work	£209,628
Weed Control (hand)	£746,385
Weed Control (machine)	£964,308
Grand Total	£11,922,416

A significant proportion of the routine maintenance programme (approx. 10%) is delivered by external suppliers due to Field Team resources being targeted in the Operation, Maintenance and Repair (OMR) of EA assets.

The table shows activities planned at the start of this year. Actual figures delivered at the end of the year will be slightly different depending on in year priority changes, incidents and resource availability.

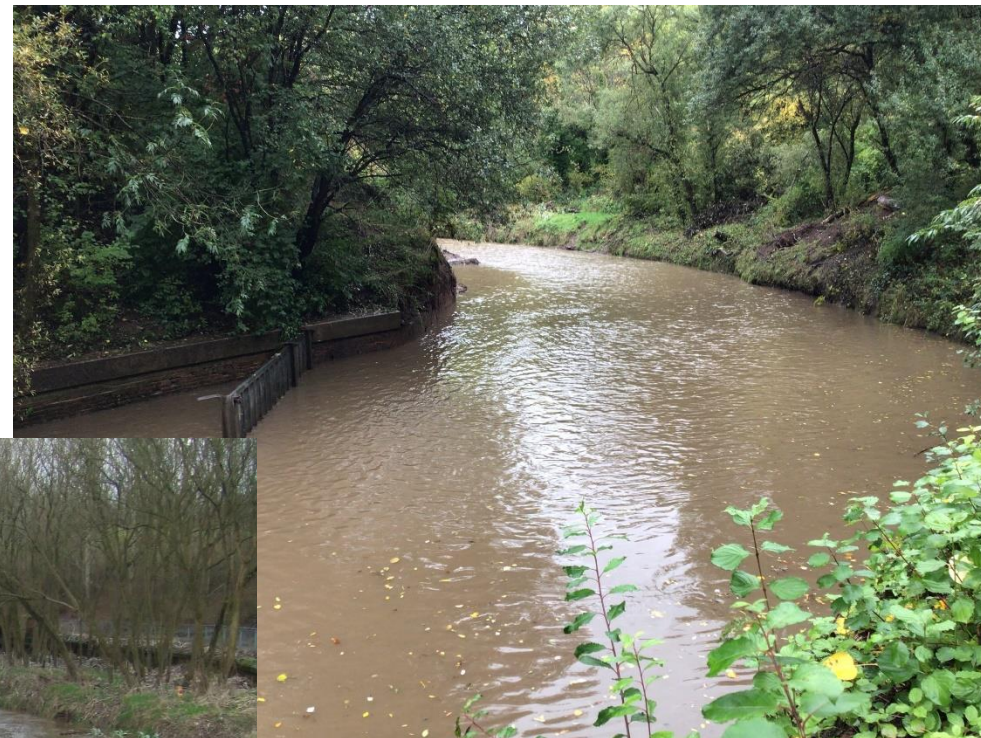


What do we deliver on the ground – Maintain and inspect Flood Risk Assets ensuring they are ready for operation





What do we deliver on the ground – Maintain Main Rivers





What do we deliver on the ground – Maintain Main Rivers gravel removal





What do we deliver on the ground – Undertake maintenance activities to maintain conveyance in Main Rivers





What do we deliver on the ground – Incident Response





What do we deliver on the ground – We also



Education

Training & Exercising with
partner organisations

Enforcement

Confined Space Work

Environmental Enhancement



Extraordinary Impacts – Excellence in Health & Safety



Health & Safety No.1 priority

Increase in H&S procedures following number of incidents.

Applying of CDM regulations to all works involving ride on plant.

Peer reviewing and formal sign off of all construction phase plans

Pilot – making ourselves even more excellent in H&S



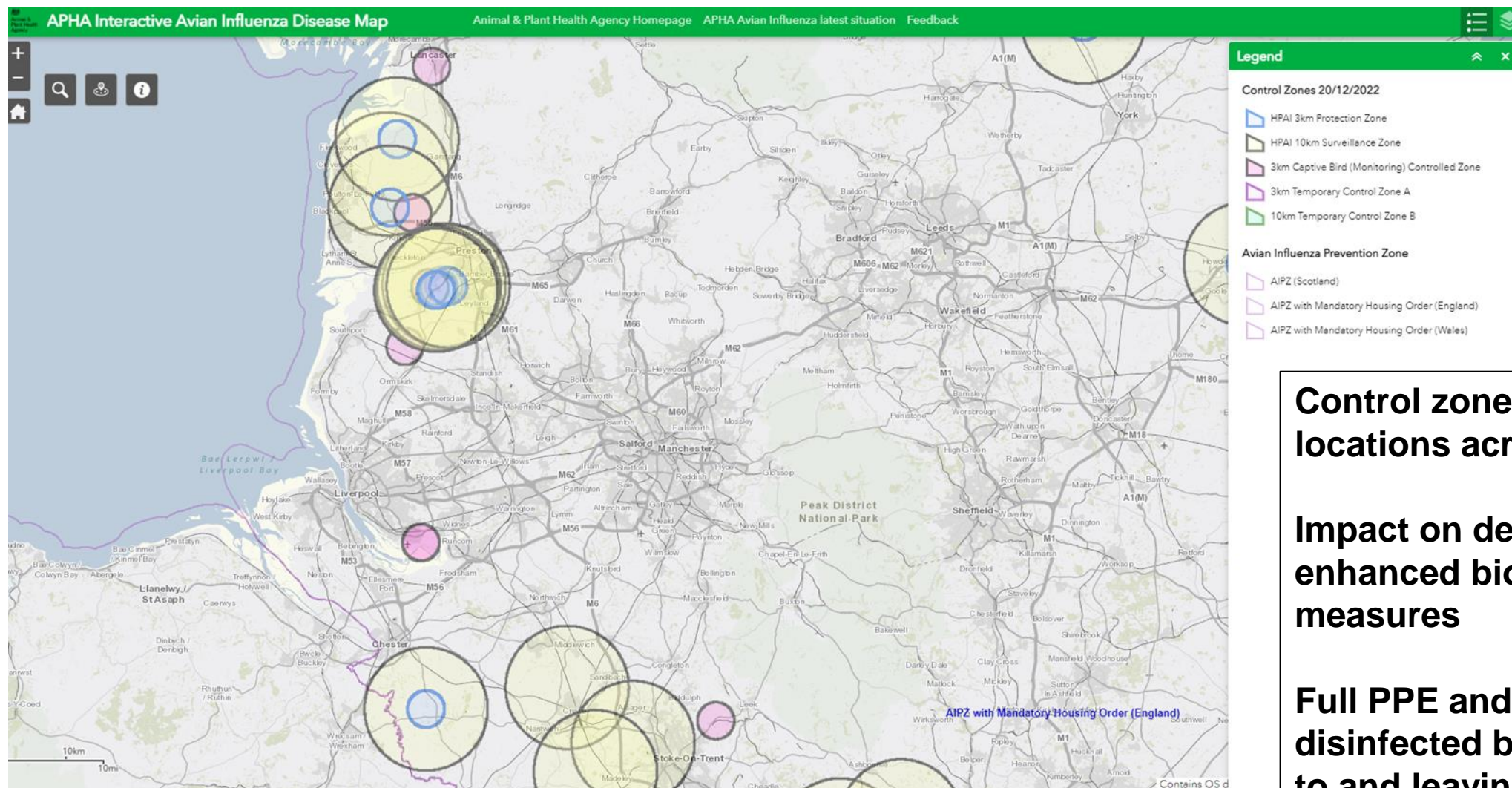
- Staff turnover high in 22/23 experienced very active jobs market
- Challenges around loss of skills / recruitment pressures
- Keeping competency and skills within in house workforce
- Industrial action – ongoing "Action short of Strike" measures may increase in 23/24

Reflected in larger contractor maintenance programme – CLA contractor maintenance doubled in costs in 22/23, 23/24 approx. £1million. GMMC approx. £0.6m.

Relying on Supply Chain to provide resilience, which comes at a price.



Extraordinary Impacts – Avian Flu Biosecurity



Control zones at various locations across NW

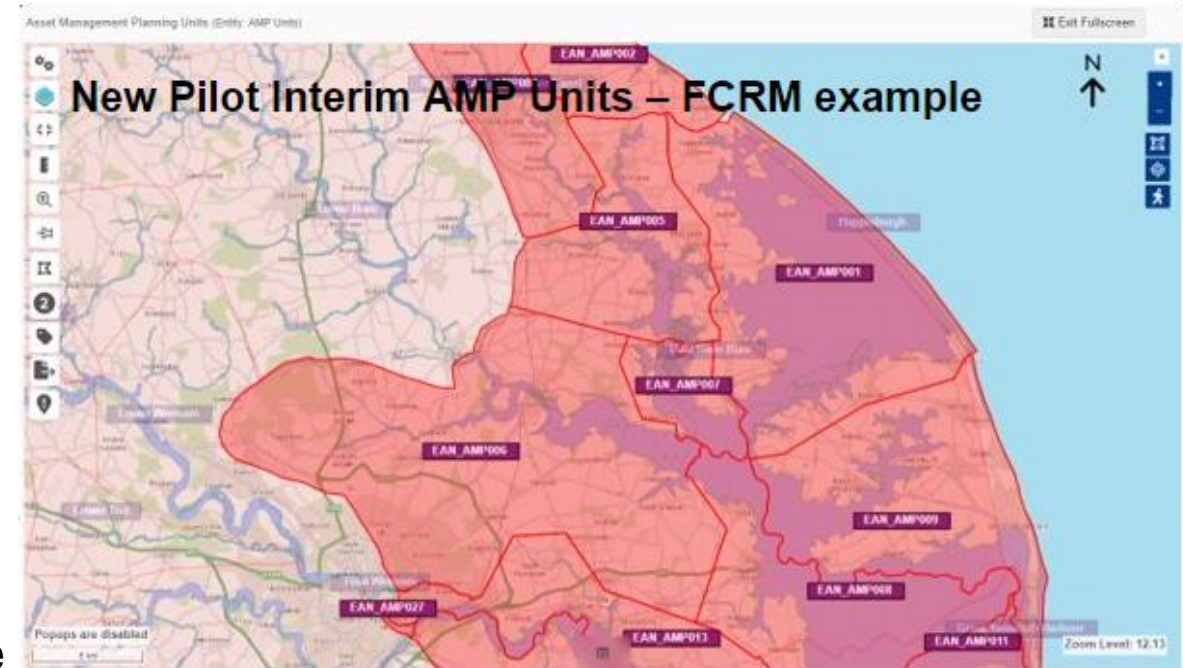
Impact on delivery with enhanced biosecurity measures

Full PPE and Plant disinfected before going to and leaving site



Brief update linking to Asset Management Strategy Presentation

- Repairs & refurbishment of assets is generally reactive process (fix on fail)
- We have embedded a Below Required Condition process for assets. However this is limited by level of funding available and t by staff resource both from EA and framework suppliers.
- Project ongoing to create asset management plans for key Strategically Important Assets
- In 2023/24 implementation of new Asset Management Planning module to predict when asset interventions are required and to support development of streamlined business cases





Opportunities for Partnership Working

Consultation, sharing and potentially Synchronising Work Activities

In August 2022 a tree was reported stuck against a road bridge abutment on the A627, Stockport. The flood risk to properties was low however the continued build up could result in damage to the road bridge.

Removal would require heavy lifting equipment to be stationed on the highway necessitating a road closure on this extremely busy commuter route.

Consulting with Stockport MBC Highways Dept. the works were delayed a couple of months until programmed bridge inspection and maintenance works were due and delivered by SMBC at the same time at minimal extra cost and no additional disruption to traffic.

The resultant £6k saving on EA Contractor costs were utilised elsewhere in the programme.





Opportunities for Partnership Working



Sharing Asset information, data and programmes with partners

EA have an annual North West CCTV culvert inspection programme of £750k

By sharing programmes and data we can avoid duplications with partners and provide efficiencies.

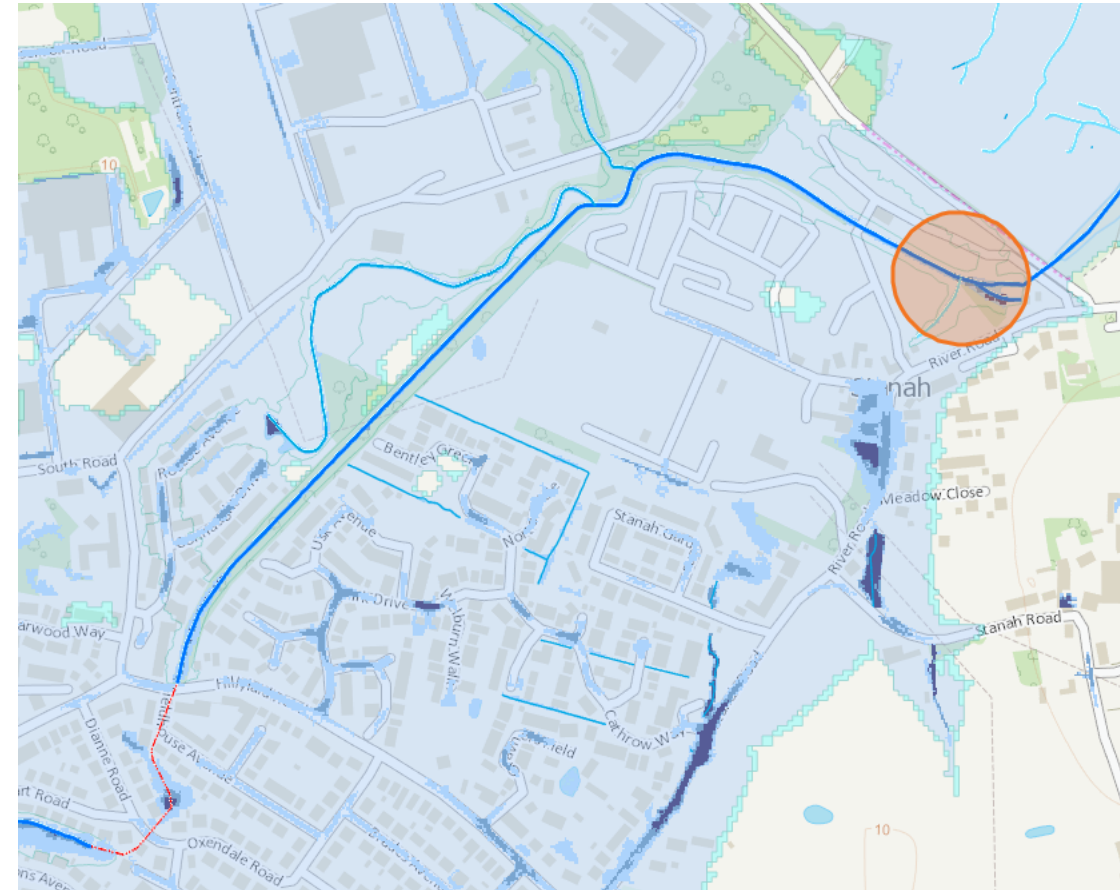
Over past few years we have been working with Network Rail to handover culvert inspections where they are legal owners and aiming to share survey details.

Achieving our goal of better asset management also means we are more easily able to share our data with others.





Strengthening Relationships – Stannah Pumping Station



Agenda Item 5

National Asset Management Strategy

Introduced by Dale Gibbons and Karen Hopkinson



Asset Management Strategy

**RFCC Consultation
January 2023**

Supporting Slides

**Karen Hopkinson
Dale Gibbons**

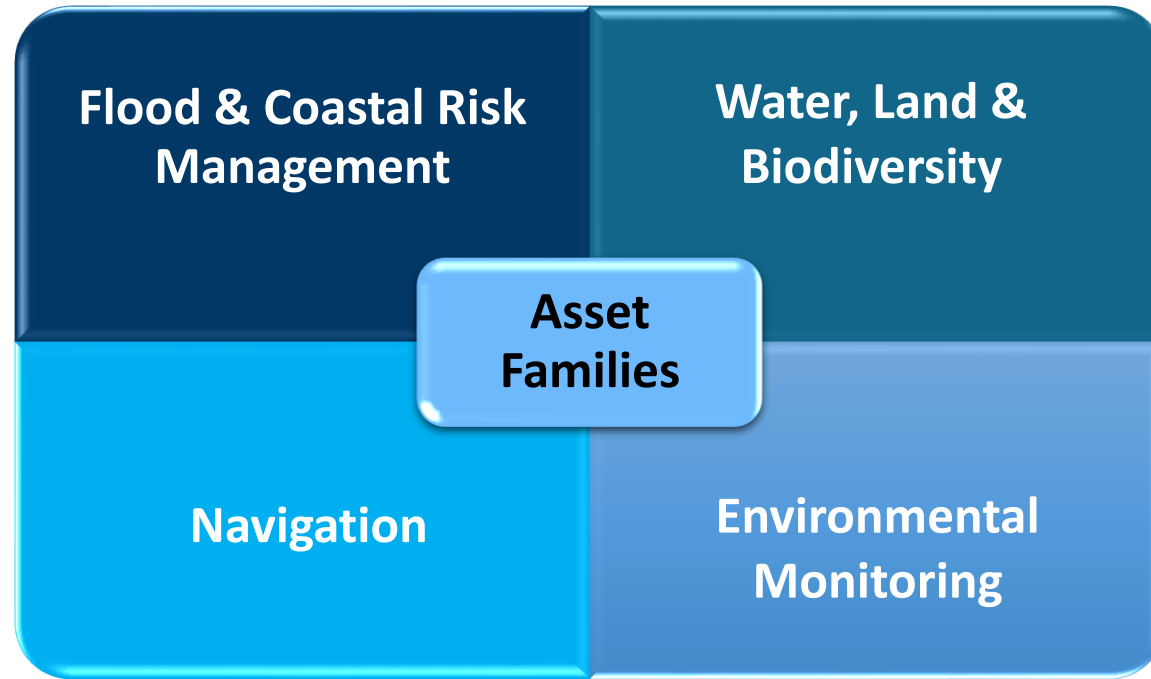
Why we are updating our AM Strategy

- Need to ensure assets are resilient against the increasing challenge of a changing climate.
- To be ready to deliver future investment programmes for both new and existing assets.
- Shaping our long-term asset management ambitions and opportunities to improve our asset management capabilities across all our infrastructure assets.
- Our existing FCERM Asset Management Strategy expires at the end of 2022.
- Our Environment & Business Asset Management Strategic Plan expires in June 2023.



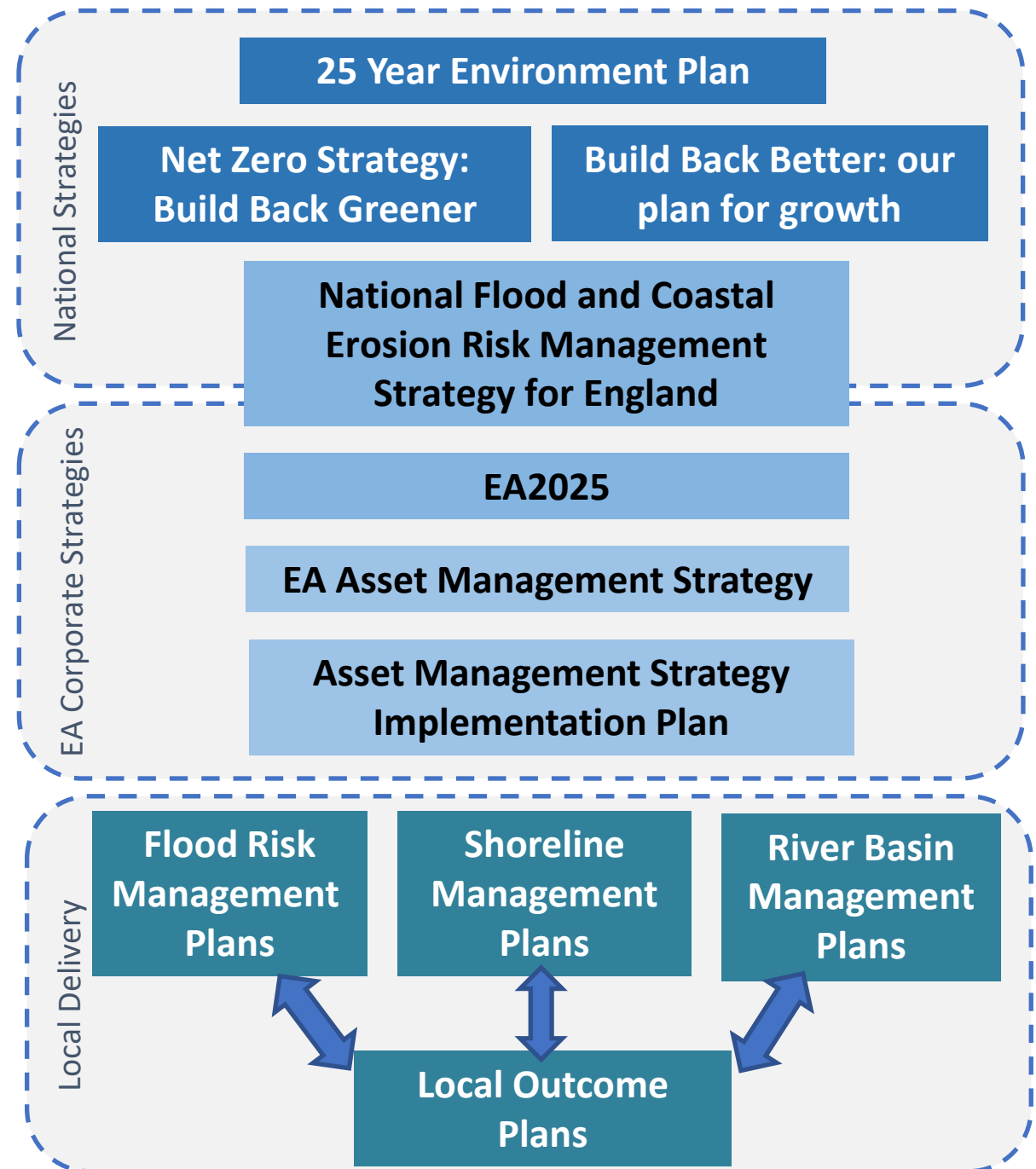
One Asset Management Strategy which is integrated to cover all Environment Agency infrastructure assets.

Our Infrastructure Assets



Strategic Landscape

- Government and Defra policy and strategies which set our organisational objectives.
- Our organisational plans and objectives help us set our long-term strategic approach for managing assets to help meet our organisational objectives and help deliver the asset management parts of the FCERM roadmap.
- It translates those organisational and functional ambitions into objectives and actions that work across all our infrastructure assets.
- Activities to be carried out to deliver our asset management strategic objectives locally.



Our Asset Management Vision

"Safe, reliable & sustainable assets supporting a healthy natural environment and climate resilient communities"

- Our vision is focussed on ensuring all our assets support climate resilience – flood and drought.
- Contains 12 principles that will help shape the strategy.

'I am proud to lead a professional asset management service that delivers value for money climate resilience interventions to our communities and customers and ensures our rivers and waterways can be enjoyed now and into the future'

*James Bevan,
Chief Executive
Environment Agency*

Asset Management Vision

Date Drafted 24/10/2022



Our Vision

Safe, reliable & sustainable assets supporting a healthy natural environment and climate resilient communities

The Environment Agency is at the forefront of tackling the climate emergency.

We will take an asset management approach that not only provides climate resilience to the communities we serve, but also helps meet our sustainability goals and carbon reduction ambition.

We will manage and operate our assets safely, reliably and demonstrate value for money which will benefit our customers and the environment now and into the future.

Our Assets

Our infrastructure asset portfolio is wide and varied from large pumping stations and tidal barriers through to locks and boat moorings, and monitoring stations for air and water quality. Our assets help to protect people, property and the environment from flood, drought and pollution.

They provide a valuable recreational resource and help our watercourses thrive for nature. We need to be confident they will work reliably when tested, and are able to adapt to the changing climate and associated environmental impacts

Our Asset Management Approach

This document defines the key principles of our asset management approach which covers the whole lifecycle of our infrastructure assets from long term planning, design and creation, to operation, maintenance and disposal.

Our teams are our greatest asset and we are building a strong asset management culture across the business where our staff and suppliers understand their role in asset management and know how they contribute to delivering our corporate outcomes.

We have a strong governance and accountability structure which ensures our decisions are risk based, safe and align to our core objectives

Through our asset management system, we will ensure we have the processes, data and tools that support us in making the right asset management decisions at the right time, through every step of the asset lifecycle.

Our Asset Management Strategy describes how we will deliver this vision, and how we will continue to develop our asset management capability across the business.

Our Asset Management Ambitions & Principles

Resilient Assets



Manage our assets to be safe, reliable, resilient to extreme weather events and adaptable in a changing climate.

- **Be safe**

Assets are safe for our staff and the public.

- **Be reliable**

Assets operate to their desired performance standards when required.

Sustainable Decisions



Our asset management will enhance the environment, reduce carbon emissions and adapt to future climate impacts.

- **Be sustainable**

Our investment and management of assets will enhance the natural and social value of places.

- **Be adaptive**

Our assets will be more adaptable to future climate impacts and to the integrated infrastructure needs of communities.

- **Be lowest carbon**

Plan and act to deliver lowest carbon in our whole-life build, operation, use and decommissioning of assets.

Multiple Benefits



Work with communities, customers and partners to maximise delivery of environmental, economic and social outcomes.

- **Be informed**

Understand our customers' needs; seek clarity on purpose and ownership.

- **Be collaborative**

Work with others to achieve more; strengthen relationships with communities, customers and partners to deliver multiple benefits.

- **Be efficient**

Adopt a whole lifecycle approach to optimise performance and deliver value for money.

Systems Approach



Skilled and integrated teams delivering to a consistent standard within an internationally accredited system and seeking improvements through innovation.

- **Be ambitious**

Support continual improvement through innovation and learning; seek external best practice.

- **Be digital by design**

Maximise the benefits from our data and digital capability.

- **Be assured**

Evaluate our asset and system performance; managing risk within the asset management system and utilising a standards-based approach.

- **Be skilled**

Have diverse, agile and professional teams; understand the balance of skills needed for us and our delivery partners.

Some key changes – what they could mean

1. Integrated Asset Management

Moving from a siloed asset management approach to an integrated one: FCRM / Water, Land & Biodiversity / Navigation assets; one asset management approach for our communities and partners.

2. Whole Life Asset Management Planning

Moving from a reactive, fix-on-fail approach to whole life asset management with long-term, planned investment decisions based on good quality data and evidence, taking account of the impact from climate change, helping to achieve carbon reduction and delivering on environmental net gain, all feeding into a catchment-based approach for communities and partners.

3. Data and Digital Management

Developing our data management capacity and embracing digital innovation to support effective and efficient choices e.g. digital twins, digital transfer of data for new assets, improved confidence and accessibility of data and information for communities and partners.

Asset Management Strategy Consultation Timeline

Mid October – Mid November

Comms push to promote
internal consultation

Late October – End November

Internal consultation;
National and Area AMSPB and AML/AMTLs

December

Review internal
consultation feedback
and produce RFCC
consultation materials

January - February

Share internal consultation feedback
with governance boards

March

Review RFCC
feedback and
produce draft
strategy

March

Directors'
review & EDT
sign off of
strategy

April

Publish RFCC
consultation
response

Spring 2023

Publish
new AM S
strategy

Oct

Nov

Dec

Jan

Feb

Mar

18th Oct
AMSPB

20th Oct
AME
Leadership

Nov
ADG

5th Dec
RFCC
Chairs

11th - 25th Jan
RFCC Committees

11th Jan - 10th March
RFCCs consultation window

Consultation Materials & Contacts

Our draft AM Strategy



- The Asset Management Strategy SharePoint site is accessible [here](#)
- Appendix 1 to the RFCC Agenda item 5 is available on SharePoint [here](#)

MS Form

Asset Management Strategy: RFCC Consultation Feedback Form

Thank you for taking part in the consultation.
Please answer the following questions on our draft Asset Management Strategy available on our SharePoint.
Please submit your response by Friday 10th March.
If you have any questions, please contact Vanessa Dyson or email AMStrategy@environment-agency.gov.uk

Hi, Vanessa. When you submit this form, the owner will see your name and email address.

Information about you

1
Which RFCC are you a member of?

- ☐ Anglian (Great Ouse)
- ☐ Anglian Eastern

- The feedback form for the Strategy is available on SharePoint [here](#)

Contacts:

Anne Thurston; Manager, Asset Management Systems

Vanessa Dyson; Senior Advisor, Asset Management Systems

amstrategy@environment-agency.gov.uk

Agenda Item 6





Programme Update Report 27 January 2023

Presented by
Neville Elstone and Adam Walsh

North West RFCC Overview: 2022-23

What outcomes are we delivering?

 	2022-23	2022-23	2022-23
	* Target	Forecast	Actual
	8,162 (initial)	4,337	1,314
	3,957 (requested)		

Are we spending the funding we have secured?

	Capital funding available	Capital forecast
	£114.610 million	£110.415 million

North West RFCC Risks – 2022-23

- Optimistic Forecasts
- Inflation
- Weather conditions
- Incidents
- Industrial action



North West RFCC Overview: 2023-24

Total Project Expenditure (TPE) All RMAs	Total Bid	Indicative Allocation	Post Local Choices and Delivery Confidence Review
£k GiA	July 2022	October 2022	December 2022
	£114,524	£80,952	£98,284

TPE by Partnership, including the Flood Defence Grant-in-Aid (FDGiA) element, and properties to be better protected

(£k)	Environment Agency		Local Authority		Total Partnership		Properties
	TPE	FDGiA	TPE	FDGiA	TPE	FDGiA	
Manchester	12,746	10,504	1,601	1,016	14,347	11,520	81 (EA)
Merseyside	250	250	1,179	818	1,429	1,068	7 (EA)
Cheshire	1,749	1,682	100	0	1,849	1,682	
Cumbria	29,788	22,358	3,579	3,479	33,367	25,837	
Lancashire	30,170	27,870	12,495	12,495	42,665	40,365	24 (EA) + 1,956 (LA)
Cross-Partnership	4,627	4,627	0	0	4,627	4,627	
North West Total	79,330	67,291	18,954	17,808	98,284	85,099	2,068

Numbers are for 'schemes' only (project type: capital maintenance, defence and property level resistance), also including additional FDGiA funding (Other Government Department, Asset Replacement Allowance etc)

North West RFCC Overview: 2023-24

Significant Changes in 23/24 Forecasts:		November Local Choices GiA	December forecast GiA	Changes in GiA forecasts (£m)
Millom and Haverigg Flood Alleviation	LA	5,284,000	1,284,000	-4.0
Kendal Appraisal Package Kendal FRM Scheme	EA	18,300,000	15,300,000	-3.0
Little Bispham to Bispham Coast Protection	LA	7,790,000	4,790,000	-3.0
Pegs Pool and Wardleys Pool, Hambleton	EA	5,958,800	4,069,250	-1.9
Appleby Town Centre	EA	4,515,000	2,788,000	-1.7
Preston and South Ribble	EA	20,200,000	18,600,000	-1.6
Garstang Reservoir	EA	1,160,000	350,000	-0.8
Penketh and Whittle	EA			0.7
		63,207,800	47,181,250	-15.3

North West RFCC Overview: 2023-24

Top 10 schemes by Total Project Expenditure allocation

Project Name	TPE (£k)	Partnership	EA/LA
Kendal Appraisal Package – Kendal FCRM Scheme	21,930	Cumbria	EA
Preston and South Ribble	16,800	Lancashire	EA
River Roch, Rochdale and Littleborough FCRM Scheme	5,619	Greater Manchester	EA
Pegs Pool and Wardley's Pool, Hambleton	4,500	Lancashire	EA
Little Bispham to Bispham Coastal Protection	4,000	Lancashire	LA
St Anne's Sea Wall	3,600	Lancashire	LA
Wyre Beach Management Scheme	3,500	Lancashire	LA
River Calder, Padiham	3,500	Lancashire	EA
Lower Risk Debris Screen Programme - GMMC	3,162	Cross Partnership	EA
Appleby Town Centre	3,114	Cumbria	EA

North West RFCC Overview: 2023-24

Support & Enabling Programme

(£k)	2023-24 Allocation
Modelling	1,514
Hydrometry and Telemetry	667
Flood Resilience	40
North West Strategic Coastal Monitoring	758
Strategy	852
Asset Reconditioning	8,300

NW RFCC Local Levy Programme – 2022-23 and Beyond

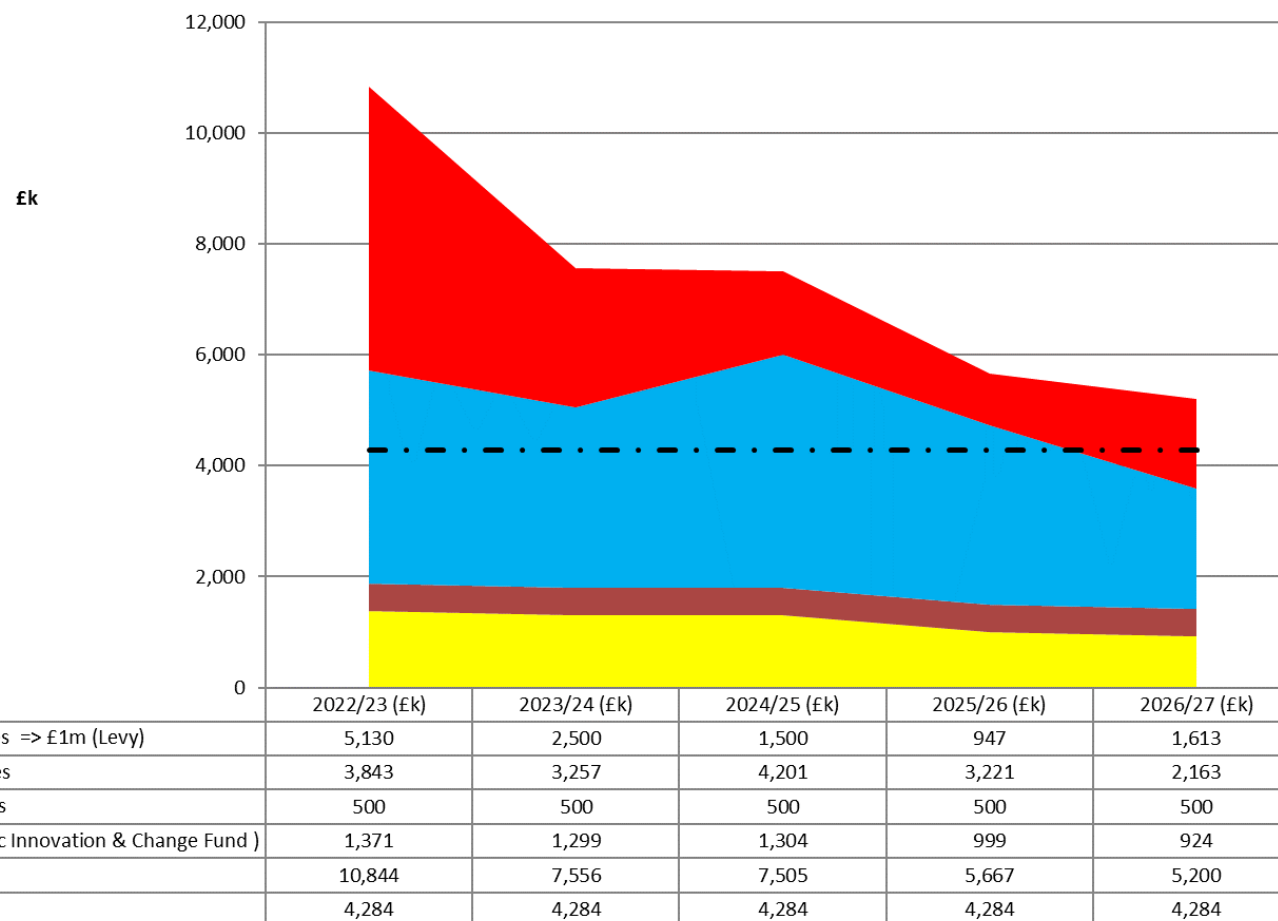
Local Levy income and allocation summary (£ million)

Balance at start of 2022-23	11.483
Local Levy income in 2022-23	4.284
Total available balance in 2022-23	15.767
Balance at the end of 2022-23 (based on current forecast)	5.119

Local Levy 2022-23 (£ million)

Allocation	10.844
Forecast	10.648
Variance	-0.196

Local Levy Income & Expenditure Scenario



North West Overview: 2022-23 Maintenance Programme

- EA Revenue Programme financial summary 2022-23
- (inc. Maintenance, Staff Costs and Revenue Projects)



	Budget £m	Forecast £m	Forecast Variance to Budget £m
CLA	11,851	11,776	-75
GMC	9,745	9,764	19
NW Total	21,596	21,540	-56

Asks of the RFCC

- **To note** the progress on delivering the 2022/23 capital and resource (formerly known as revenue) programmes
- **To note** the current/future position of the Local Levy programme and latest spend forecast
- **To approve** the overall Local Levy programme for 2023/24 (Appendix B)
- **To note** the allocation principles and capital programme prioritisation criteria
- **To note** the FCRM GiA capital allocations and asset maintenance resource allocations
- **To consent** the FCRM GiA Capital and resource allocations for 2023/24.

Local Surface Water Modelling and Mapping Grant

What and Who is it for and Why?

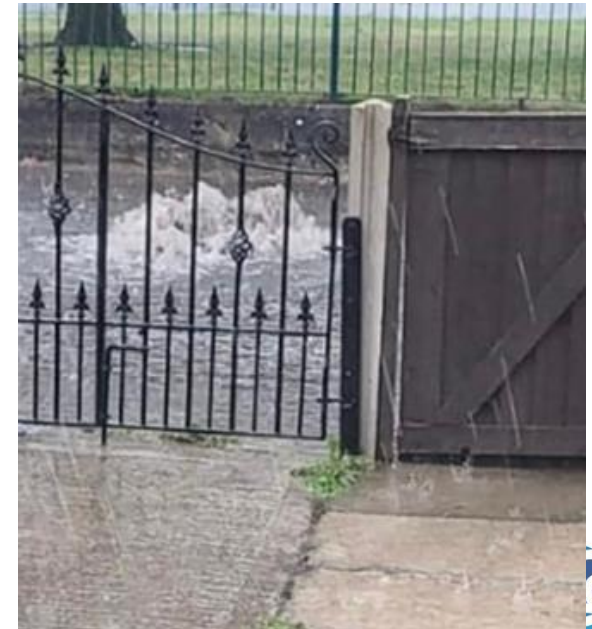
How Will the Contracts be Let?

Grant Caveats

Timescales

Local Surface Water Modelling and Mapping Grant

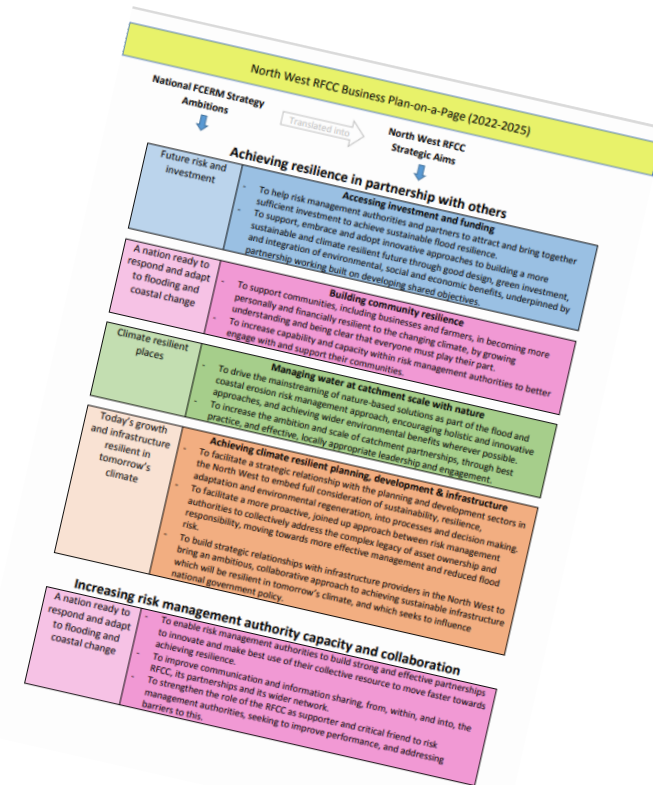
- The Wigan locality has been identified as a nationally important flood risk area
- During Summer 2022 notified about Local Surface Water Modelling and Mapping Grant
- Collaborated with EA and other partners to submit a bid for the grant
- Bid was successful enabling them to complete more details mapping in susceptible areas of Wigan



Agenda Item 7

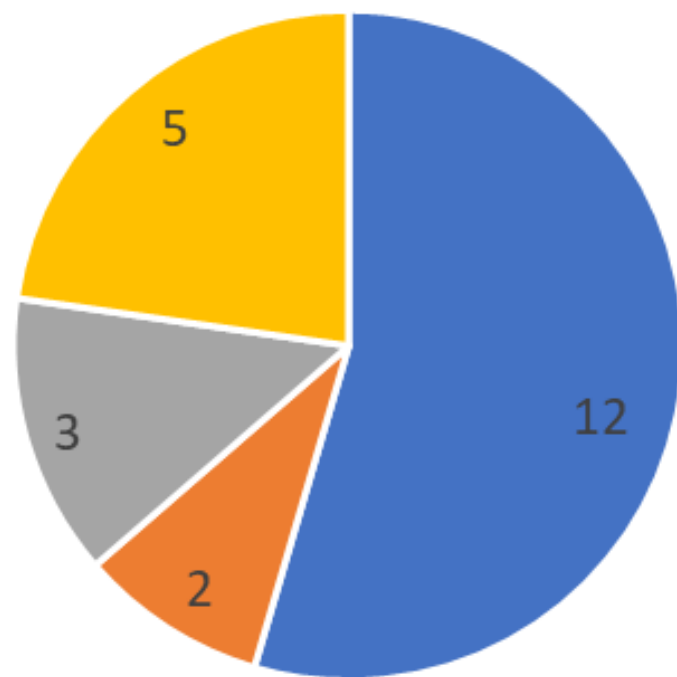
RFCC Business Plan – Progress Report

Sally Whiting
RFCC Business Plan Implementation Lead



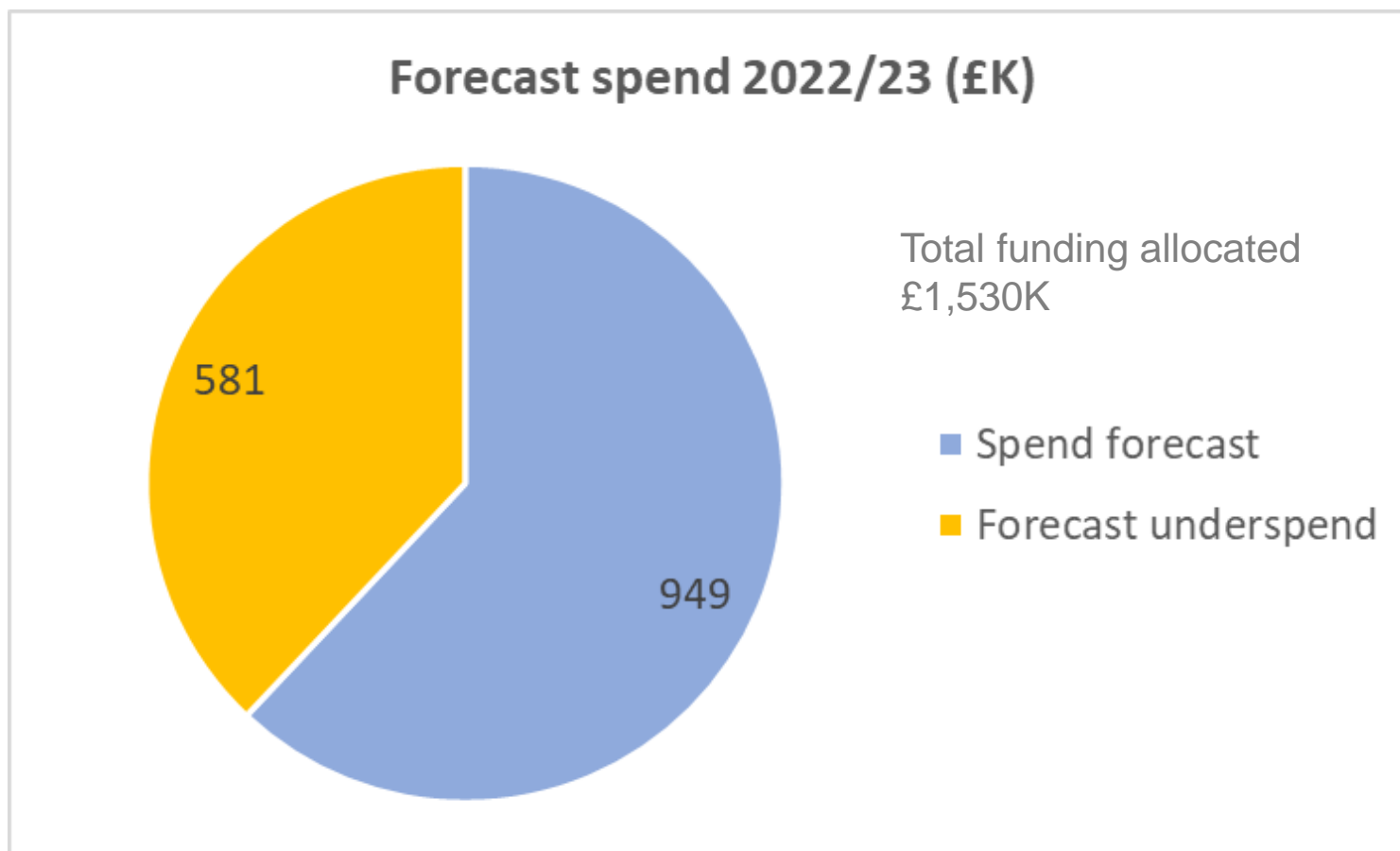
Projects and their status

Approval and progress status of Business Plan projects



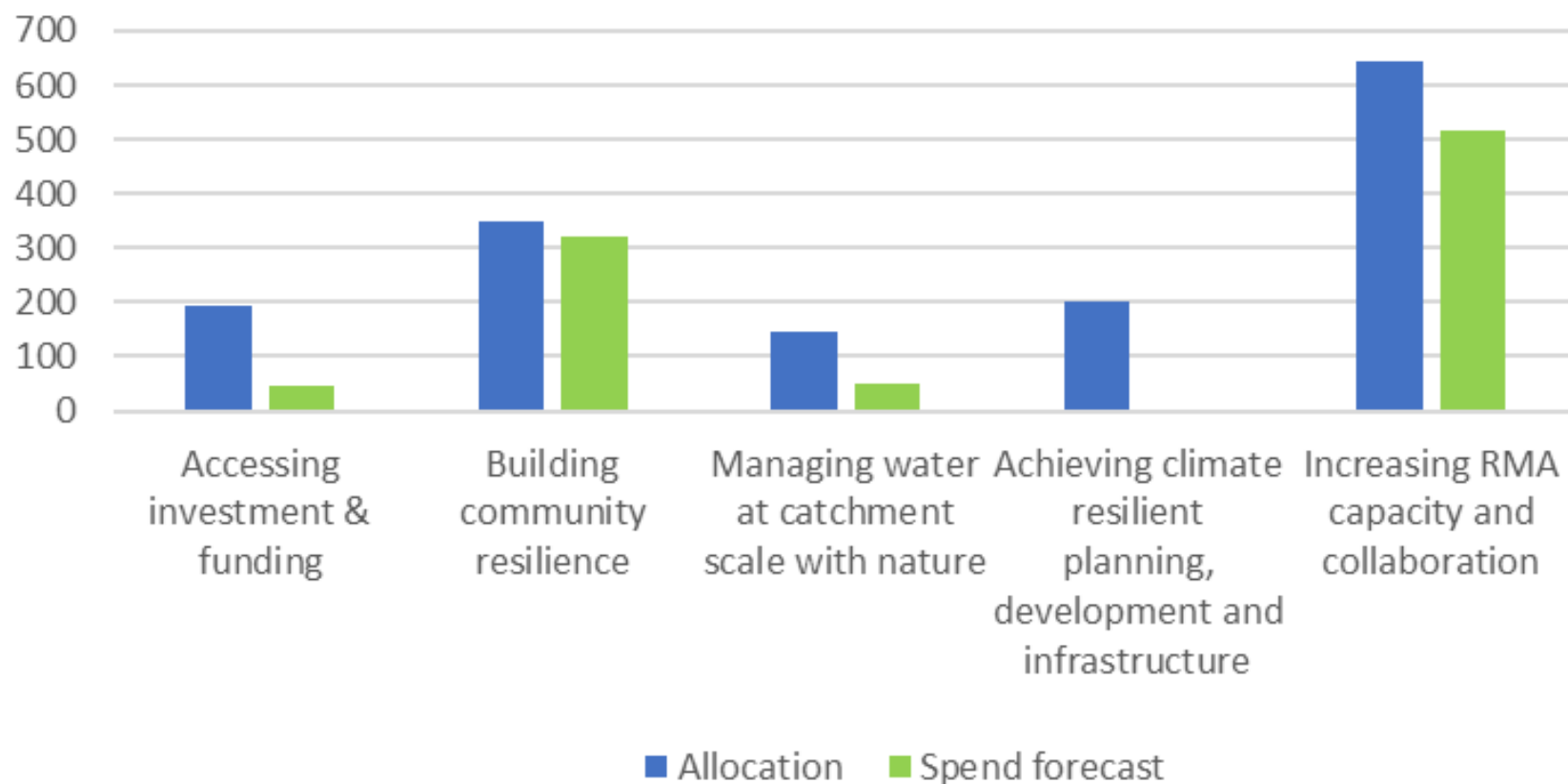
- Projects (from original 16) in progress
- Projects (from original 16) merged
- Projects (from original 16) under review / on hold
- Additional projects progressing as part of BP

Forecast spend 2022/23

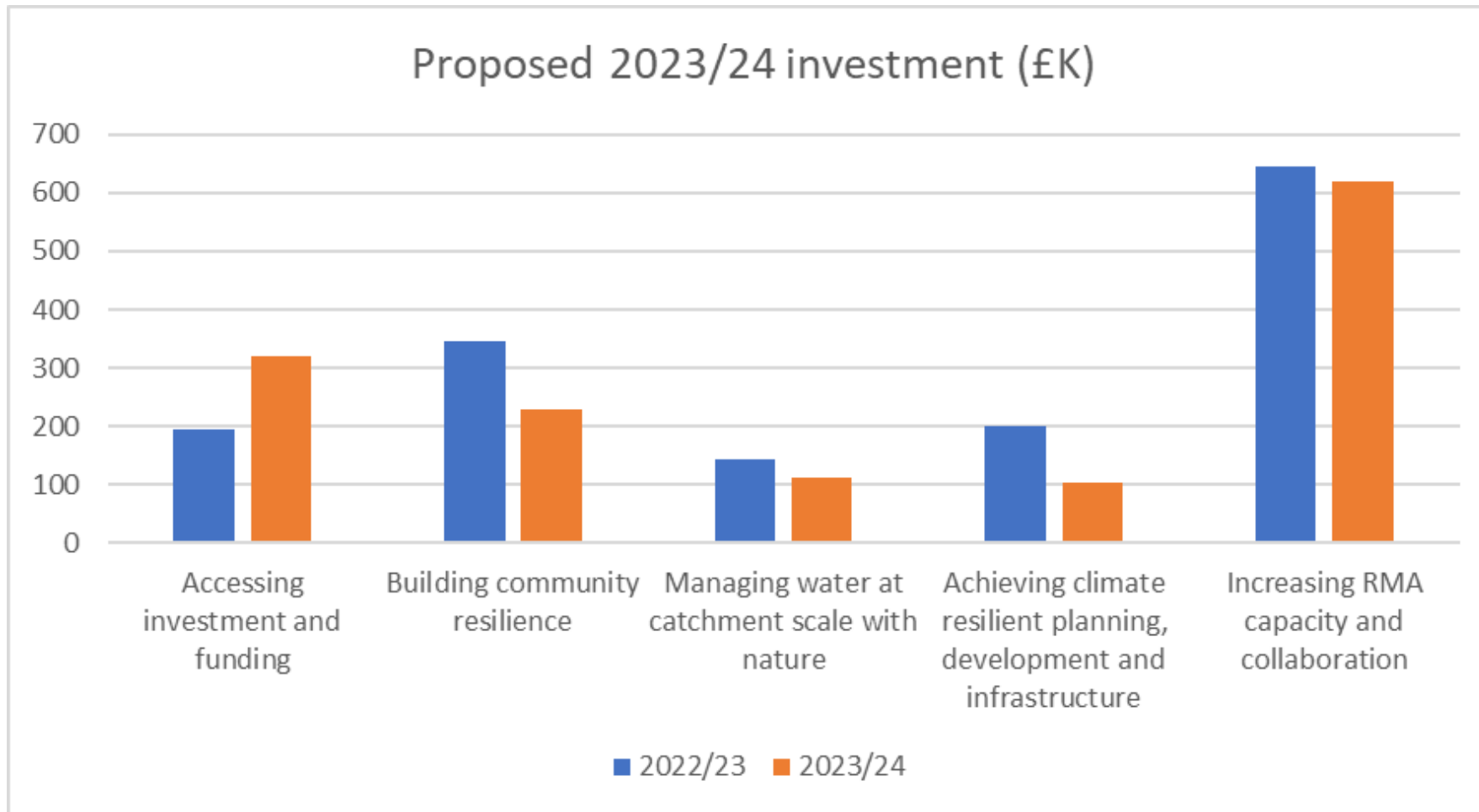


Forecast spend 2022/23 by ambition

2022/23 Allocation vs Spend forecast - by Ambition



Proposed 2023/24 investment



**Total allocation
proposed**

£1,384K

Project Raincoat

Project summary

A SuDS retrofit project which delivers:

- A program of intense site based SuDS installs (circa 10 sites and 5000 m² SuDS)
- A wider SuDS in schools education program
- A blended investment program of £1.5m (inc. repayable finance)
- Knowledge transfer products and program



Outcomes, asks and next steps

Outcomes:

- Larger (program) scale and transferable delivery experience
- Confidence and robust legal, contracting, governance processes around blended funding (inc. repayable finance)
- Understanding SuDS delivery, technical performance, maintenance and management/ownership
- Wider awareness raising/education and practitioner support

Ask:

- To agree moving to detailed project development and fundraising/contracting and go/no go process

Next steps:

- Move, subject to Finance Sub Group feedback, to project contracting
- By Q1 23/24, have deliverable/contractable package with approval from all parties
- Procurement Q2 23/24, delivery starts Q3 (until Q4 24/25)

Business Plan project proposal –

Project RAINCOAT

- ➔ Additional investment proposed under Action ID2
- ➔ Finance Sub Group recommendation:
 - ➔ That the RFCC approve their first year of £50K contribution in principle to allow work to progress on satisfactory conclusion of contractual negotiations and outcome measures and final approval of further funding at that stage.



North West Local Authority FCERM Capital Delivery

Sarah Fontana
Capital Programme Co-ordinator
(NW Local Authorities)

Where are we now?

- Lack of confidence in delivery of the Local Authority led programme across parts of the NW, underspend in some areas
- Lack of confidence in systems and gaps in reported data
- Some difficulty retaining /recruiting skilled and competent staff
- EA forms and processes not always clear to external partners
- Level of support provided and clarity of roles not always clear across the NW (advisors and other resources e.g. support to access EA frameworks, other funding sources outside core GiA)

Short term actions

- Data accuracy
- Clarity of roles
- Determine the training needs across the NW
- New Cumbria LA CPA- ensure training as needed to enable adequate support to be given through upcoming LGR
- Reconvene national conversations to explore new business delivery models (local levy network, use of frameworks etc)

Medium term actions

- Clear training plan produced, resourced and delivered for LA's to access, future proofing where possible (RFCC Business Plan action 15 RMA capacity building programme).
- Ensure PSO Leads and LA CPA's competent and clear in their roles supporting delivery (training needs, specialisms developed)
- Early engagement on refresh (building strong pipelines, avoiding rushed submissions)
- Review and input into proposed changes to forms and processes (FCERM forms, grant memorandum, assurance limits etc)

Longer term aims

- LA programme is integrated with the EA programme, and able to utilise appropriate resources (links to RFCC business plan action 14- LA capital project delivery challenges)
- Strong pipeline of projects with involvement from all stakeholders (including support from the new EA pipeline team if required)
- Fully resourced and competent advisor team supporting LA delivery across the NW

Thank you

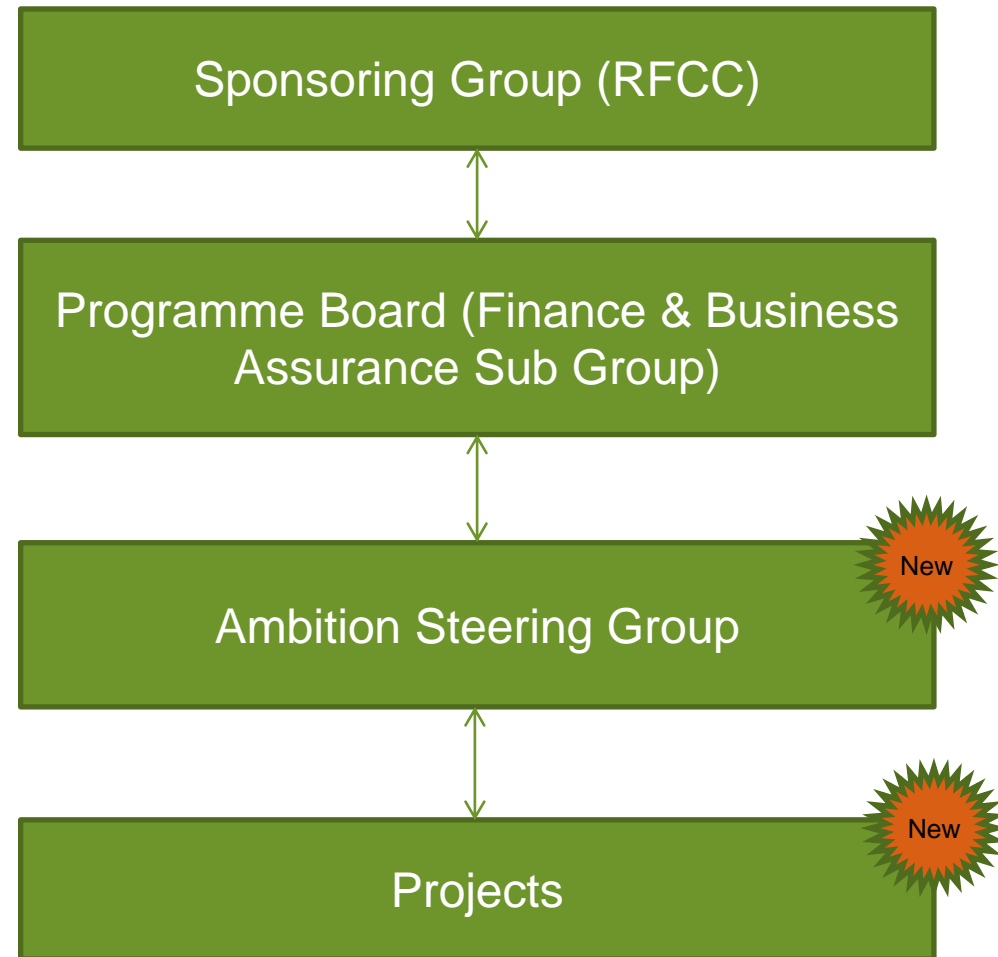
Sarah.fontana@environment-agency.gov.uk

for any comments or questions please get in touch

RFCC Business Plan Governance

Framework

- ➔ Governance framework takes programme management principles and applies them in a proportionate way
- ➔ Four levels of governance, supplementing the existing RFCC organisational structure
- ➔ Project level governance and Ambition Steering Groups are generally new but sometimes replace existing groups



Lead partnerships for Ambitions

Responsibilities

- ➔ To provide the administration, co-ordination and reporting lead role (Partnership Co-Ordinator)
- ➔ To provide senior leader roles (EA and LA) to sit on the Ambition Steering Group and steer Ambition and projects
- ➔ To provide an elected member to sit on the Ambition Steering Group to provide their perspective
- ➔ To host specific pilot projects in their partnership area, while still keeping in view how the outcomes will be transferable to other partnerships

Accessing investment and funding

Greater Manchester

Building community resilience

Cheshire Mid Mersey

Managing nature at catchment scale with nature

Cumbria

Achieving climate resilient planning, development and infrastructure

Lancashire (Planning & development) /
Merseyside (Infrastructure)

Increasing RMA capacity and collaboration

Coastal Group

Agenda Item 8

Revised RFCC Finance Sub Group Terms of Reference

Presented by Sally Whiting

Main changes

- Change of name – Finance and Business Assurance
- 3 explicit elements: Capital Investment programme, Main river asset maintenance programme, RFCC Business Plan
- Option to initiate deeper dives into specific issues
- Formalised membership
 - Chair – with formal renewal of appointment
 - One elected member per partnership – with nomination of deputies
 - Two independent members
- Formal voting (for all official members) and Quorum arrangements (Chair plus 4 Elected Members, or deputies)

Agenda Item 9

Coastal Update

Presented by Carl Green and Suzana Ilic



NW&NW Coastal Group Update

27th January 2023

Overview

1. Challenges on the Coast
 - Climate Change SLR – SI
2. Recent Studies
 - UK Approaches – SI
 - Responding to climate change around England's coast – SI
3. Planning, Monitoring and Evidence
 - National Coastal Erosion Risk Mapping 2 – ME
 - North West Strategic Coastal Monitoring Programme – PW
 - Shoreline Management Plan Refresh – KE
4. RFCC Business Plan Action – CG
5. New approaches and Innovation
 - FCRIP Programme – Our Future Coast / CiFR – CG / ME
6. NW Coastal Conference – SB / KE / SI

Challenges on the Coast

Sea level rise

Coastal flooding and overtopping

Coastal erosion

Coastal landfills



Challenges on the Coast

From national and local newspapers

News

This map shows which Blackpool streets will be submerged if sea levels rise

An interactive map highlighting the potentially devastating effects of global warming to the world's coastlines has provided a scary insight into the potential future of Blackpool.

By The Newsroom

26th Dec 2018, 12:30pm - 2 min read
Updated 8th Jan 2019, 5:20pm

People

We've got sea flood concerns in hand, says Council after report says Wyre could be 'lost' to sea flooding

Wyre has been identified in a new study as one of the areas at risk of being lost by the 2050s in the face of rising seas.

By Richard Hunt

16th Jun 2022, 12:30pm - 3 min read
Updated 16th Jun 2022, 3:35pm

News

Fylde coast at risk from serious flooding unless global warming is tackled warns report

Global warming is not “someone else’s problem” and if we don’t act now then it will become a major problem for the Fylde coast, with potentially catastrophic flooding.

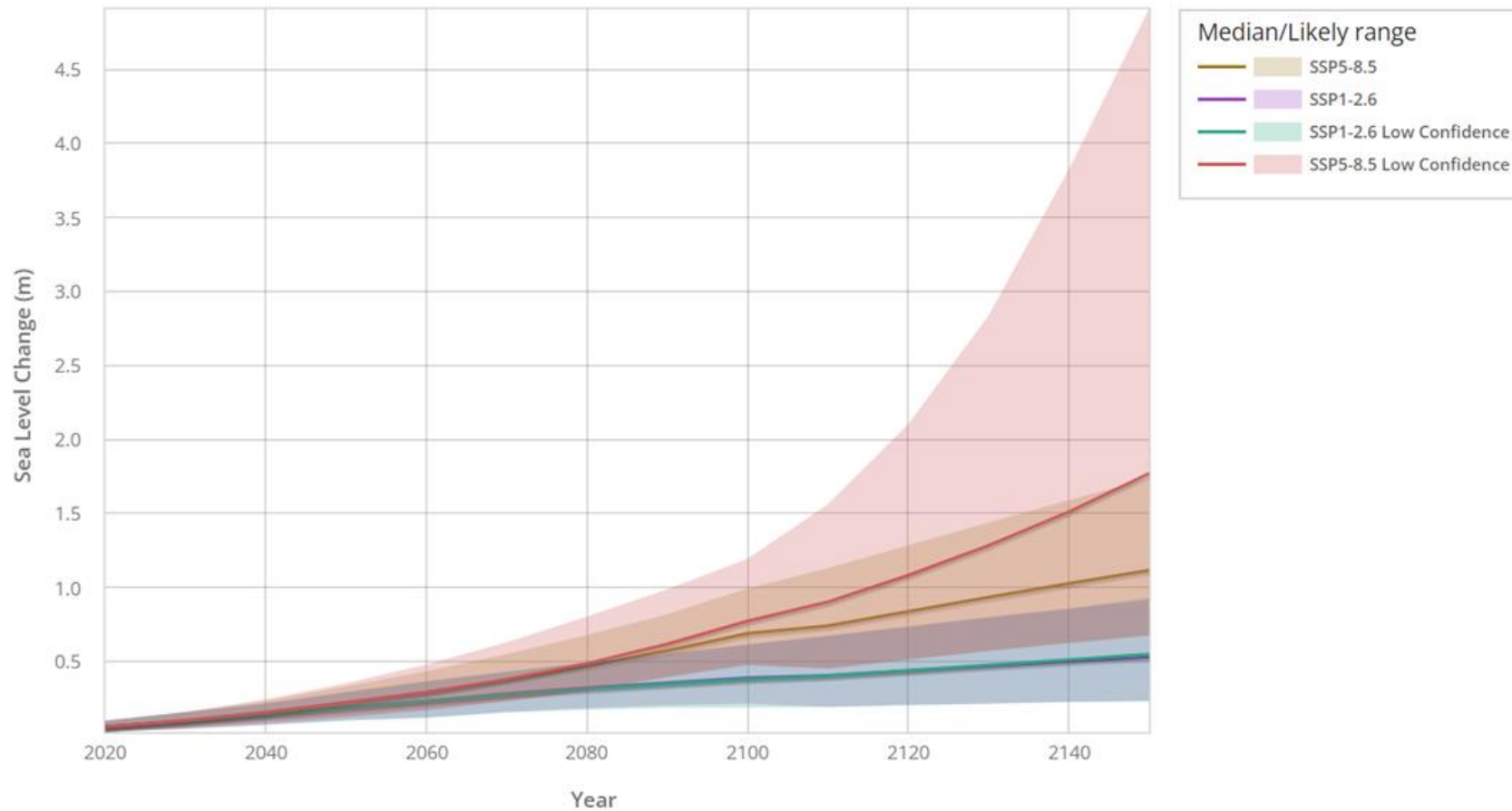
By Tim Gavell

11th Aug 2021, 4:55am - 7 min read



Freely available information

Example 1 - Sea level Rise in HEYSHAM

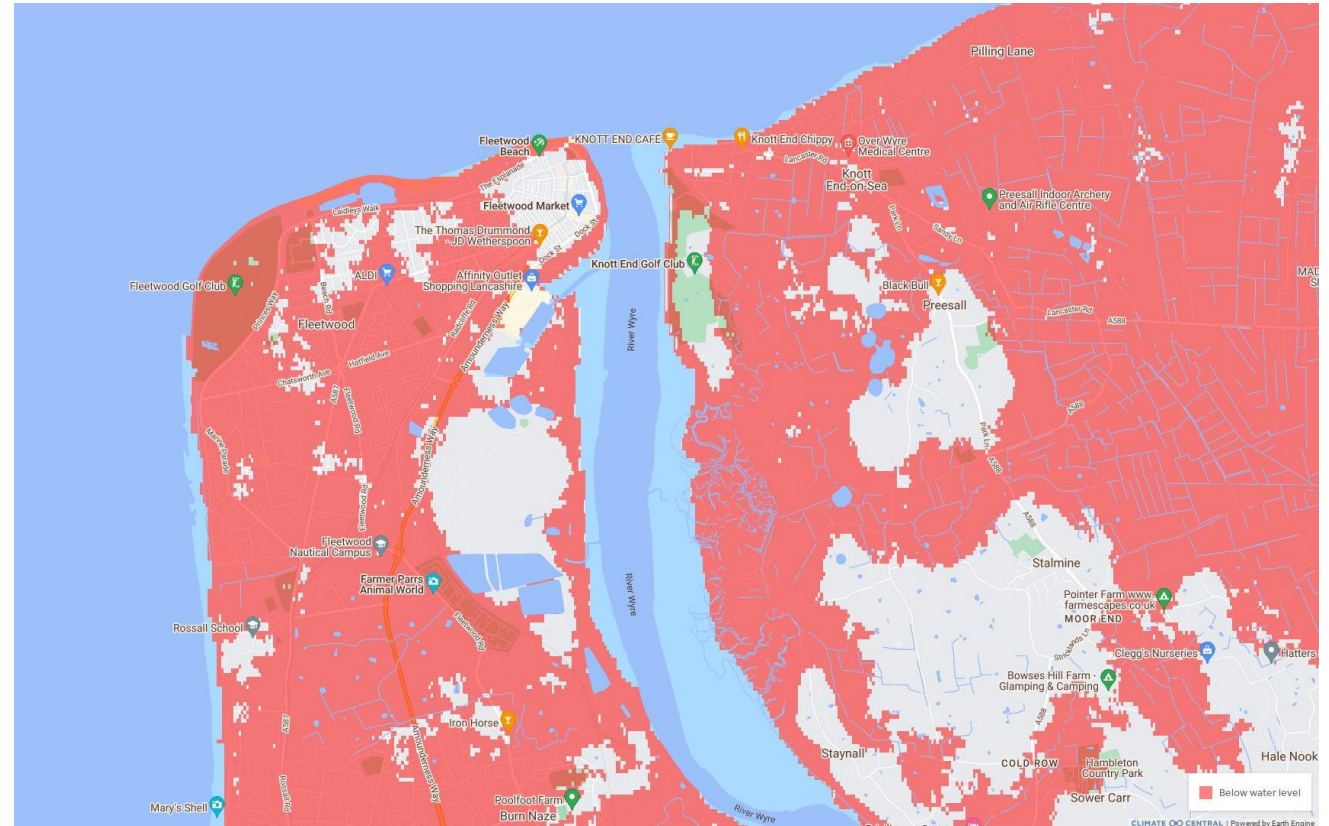


From the IPCC - Global SLR predictions for Heysham from [NASA SLR](#)
Pros and Cons of having this information

Freely available information

Example 2 – Maps of sea level rise

- A map of SLR around Fleetwood by the Climate Central featured in local newspapers;
- This is for the following scenario: **SLR by 2150**
- 1.41 (upper end) + 0.8m storm surge = 2.21m
- **Warning:** This model takes only elevation into account and not lateral spread of water and/or coastal defences – **LARGE UNCERTAINTIES**



Recent Studies

UK Approaches

The UK Climate Risk Independent Assessment (CCRA3) from The Adaptation Committee's Independent Assessment of UK Climate Risk – June 2021

H4. Viability of coastal communities (risk)

- Approximately 1,800 km (**40%**) of England's coastline and **8,900 properties** are at risk from coastal erosion (if there are no defences)
- Risk will become medium in 2050s and high in 2080
 - e.g. SLR of 0.5m leads to 200km or more to be vulnerable
- Worst case scenario leads to an increase of people at risk (7.5 times)
- Coastal Change Management Areas will be more at threat
- Ways to improve coastal adaptation (DEFRA)
 - Strategic planning
 - Legal
 - Funding
 - Community Engagement
 - Monitoring

More action needed (risk owner DEFRA)

Recent Studies

UK Approaches

The UK Climate Risk Independent Assessment (CCRA3) from The Adaptation Committee's Independent Assessment of UK Climate Risk – June 2021

B2. Coastal business locations and infrastructure (risk)

- Currently 114,985 non-residential properties are within Flood Zone 3 (0.5% a year risk from coastal flooding)
- Medium risk now – expected to increase in future (e.g. in particular to infrastructure)
- More action needed (risk owner – DEFRA)

Other:

Risk to historical heritage

Risk to SMEs

Risk to agriculture etc.

Recent Studies

Responding to climate change around England's coast: the scale of the transformational challenge. (Sayers et al., 2022)

Sayers et al. 2022 report/paper builds upon the UK CCRA analysis identifies areas where continued investment in Hold-the-Line is likely to come under the greatest pressure.

- Using the Future Flood Explorer (FFE) (and methodology described in the report/paper) predictions are that a proportion of the shoreline currently associated with a HTL policy will be under a 'high' pressure to be reconsidered for MR by 2080s
- Some properties in the coastal plain in Wyre Policy Calculation Unit may experience uncertainties with the HTL policy in long-term (please note that this will depend on the model settings and assumptions made*)

(*for further details see: Sayers, P., Moss, C., Carr, S. and Payo Garcia, A., 2022. Responding to climate change around England's coast: the scale of the transformational challenge. *Ocean & Coastal Management*, 225.)



Sunderland Point in future

Copyright: Lucy Dodgson, Lancaster and Morecambe College for the project Morecambe Bay Timescapes

Future Challenges

Challenges to consider in future, from recent studies and observations:

- Planning – Local planning and SMP at different spatial/temporal scales
- Economic – Funding, Insurance
- Engagement
- Equity
- Adaptation pathways – defining threshold of changes (natural, built, socio-economic)
- Difficult conversation/decisions about – transformational changes from HTL to MR or even from HTL to relocate





North West & North Wales
Coastline

a partnership for coastal defence management

Planning, Monitoring and Evidence

National Coastal Erosion Risk Mapping 2 (NCERM2)

The NCERM shows best estimates of erosion rates for the

- short term (0-20yr),
- medium term (20-50yr)
- and long term (50-100yr) for the 5th, 50th and 95th percentile confidence levels.

It shows rates in the **no active intervention** scenario and with implementation of SMP2 policies.

NCERM2 is updating the erosion estimates based on latest scientific methodology and data.

It is being undertaken in two phases:

- **Phase 1** was completed in October 2022 and identified and implemented scientific improvements in the application to new datasets to improve erosion projections for NCERM2.
- **Phase 2** is in progress and is collecting new data from the English coastline and will update the erosion risk mapping by the end of 2023.

The project will also provide an assessment of the impact on receptors, improved visualisation, stronger links with the SMPs, new and updated guidance documents and supporting information for the use of NCERM.

National Coastal Erosion Risk Mapping 2 (NCERM2)

The improvements identified in Phase 1 include the following aspects:

- Establishing underlying coastal recession rates by using the latest datasets collected through the National Network of Regional Monitoring Programmes and other sources
- Updating predictions of the effects of sea level rise on erosion rates
- Including predictions for complex cliffs which are currently not included in NCERM
- Assessing risk to receptors where it is significantly impacted by the presence of defence structures and the chance and timing of defence failure.
- SMP Refresh - incorporating the sub-divisions of SMP policies into NCERM and using SMP trackers to ensure NCERM reflects the most up to date management intent for each SMP
- Combination of erosion and defence deterioration/failure timelines to provide final recession predictions

Phase 2 next steps:

- Data requests to Local Authorities – completed
- NCERM Coastal Baseline production – Nov 2022 – Feb 2023
- Engagement on Coastal Baseline and SMP – Jan – Mar 2023
- Local Verification Round 1 – Mar – June 2023
- Engagement on Complex Cliffs – Feb – May 2023
- Local Verification Round 2 – Aug – Oct 2023

NCERM will be published as a spatial dataset on the new SMP Explorer platform to sit alongside the SMPS and other coastal management information. The final form of visualisation will be discussed with TAG later this year.

North West Strategic Coastal Monitoring Programme

Collect, manage, analyse and disseminate coastal process and coastline response data

The delivery of actions in the Shoreline Management Plan



Operational responses and emergency planning



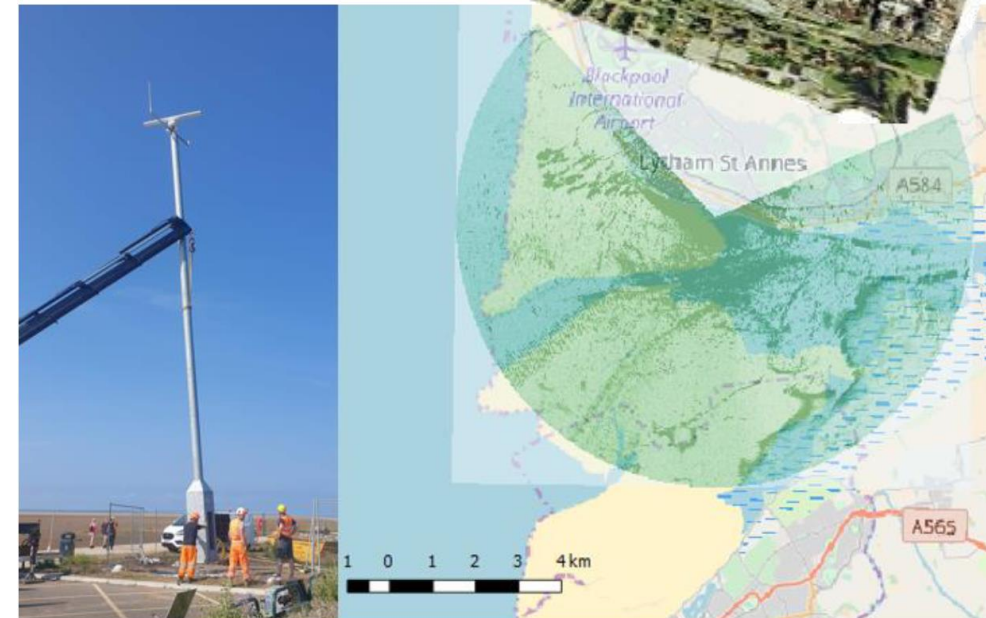
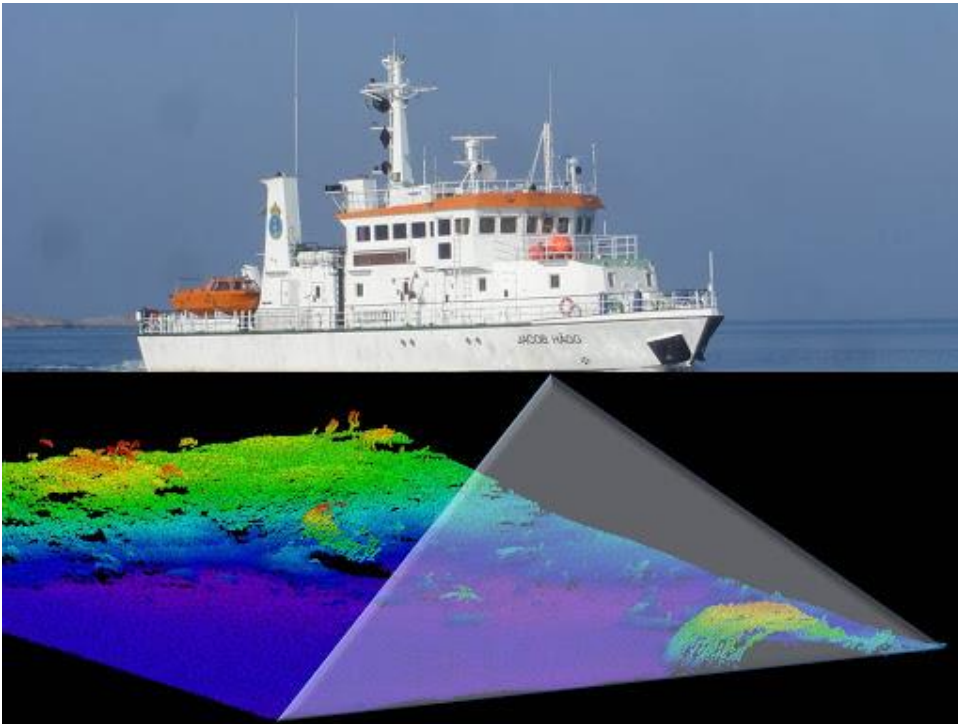
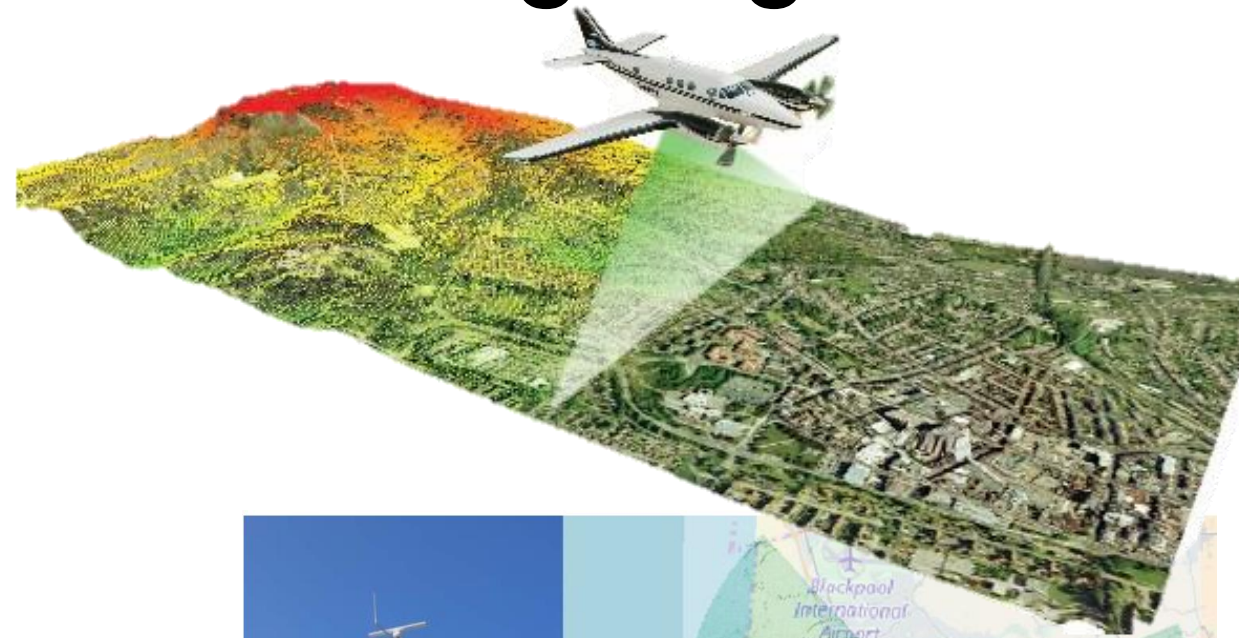
Sustainable coastal management decisions



Understanding the impacts due to climate change



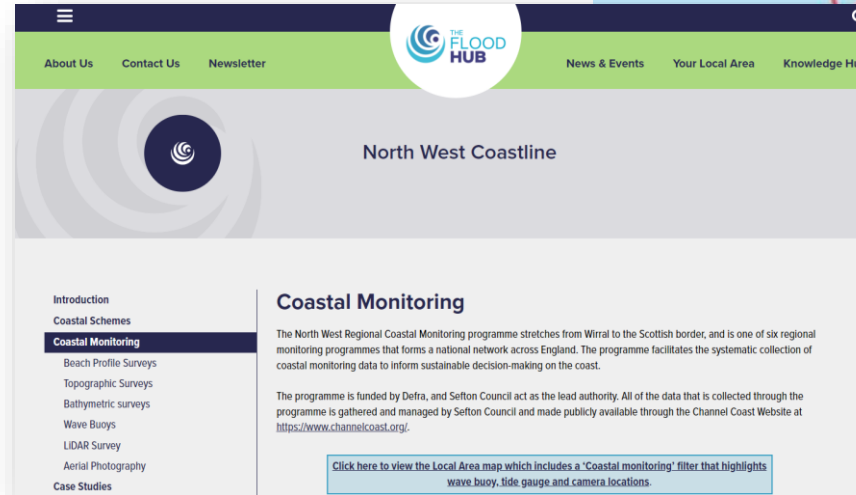
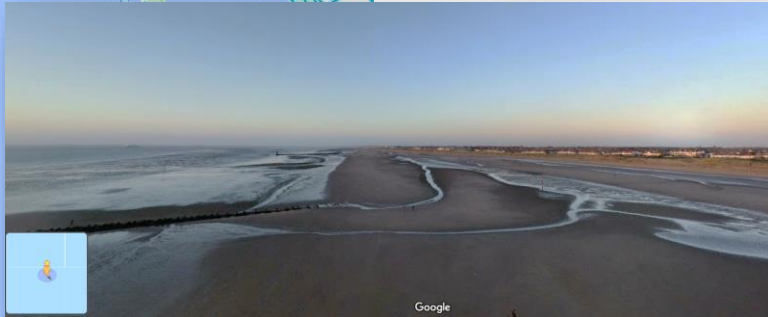
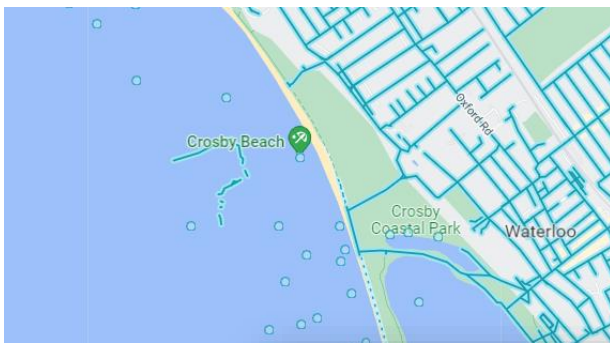
North West Strategic Coastal Monitoring Programme



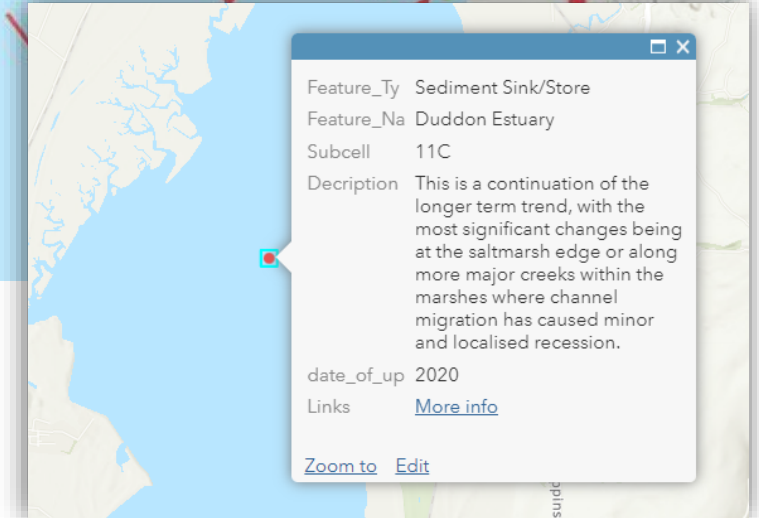
North West Strategic Coastal Monitoring Programme

- Improved dissemination of information

Google street view



Floodhub



www.mycoastline.org.uk/

SMP-Refresh – National Work packages and next steps

- **Work Package 6 – assigning sub-categories to SMP policies**
 - Submitted following review.
- Exercise to review SMP policy queries that were flagged in this process
- **Work Package 7 – Improving interface with planning system**
 - Identification of priority planning interface issues, opportunities and engagement priorities
 - Identification of appropriate planning response(s)
 - Identification of the SMP Group's role in the responses identified and any further resource requirements
 - Engagement on other strategic planning initiatives
- Len Harris is taking this work forward – linked to planning and regeneration task group
- **Work Package 8 – updating the action plans and implementing actions**
 - Make necessary updates to the SMP action plans
 - Explore establishment of NW Regional Habitat Creation Programme (*habitat compensation and restoration programme*)
 - Identification of environmental opportunities and protected site/habitat compensation issues
 - Identification of management pathway needs i.e. establish trigger levels
 - Identification of the need for changes to SMPs and/or the FCRM investment programme
 - Development of communications & engagement strategy for ongoing SMP delivery.
- **Work Package 10 – SMP explorer**
 - Collecting views on the SMP explorer pilot page

Work Package 7 - Improving interface with planning system

- Project completes **31 January 2023**
- Produced a series of guidance notes and research papers for publication and a guide to the SMP template for local authorities to use.
- Next steps – keeping information **up to date** and creating **training modules** for the Flood Hub Website



North Wales North West Coastal Group Shoreline Management Plan Planning Interface Project

Guide 1 – A General Introduction to Coastal Management



Coastal management in action – Seacote, Silloth (photo courtesy of Sefton Council)

Date: January 2023



North Wales North West Coastal Group Shoreline Management Plan Planning Interface Project

Guide 2 – An Introduction to Shoreline Management Plans



Saltmarsh, Ribble Estuary (photo courtesy of Sefton Council)

Date: January 2023



North Wales North West Coastal Group SMP Planning Interface Project

Guide 3 – Planning for Coastal Management



Date: January 2023



North Wales North West Coastal Group

Shoreline Management Plan Planning Interface Project

Guide 4 - An Introduction to Coastal Processes

(including climate change and natural coastal
management)



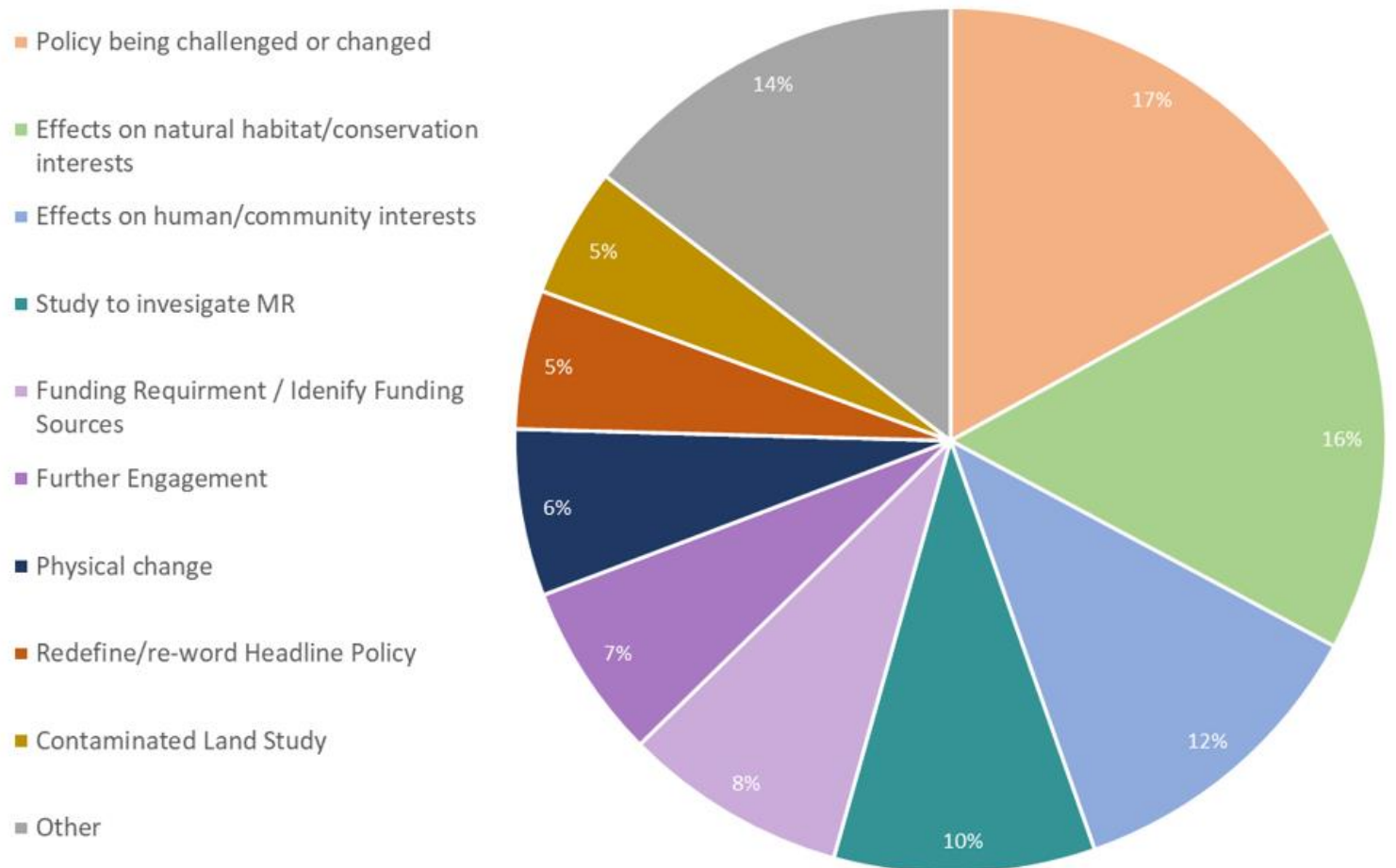
Sand dune erosion (courtesy of Sefton Council)

Date: January 2023

Work Package 8 - Next steps

- SMP Workshops - October
- **NW SMP Refresh findings – Health Check**
- **61** out of **204** policy units were flagged in the SMP Health Check for further consideration.
- **38** out of the **204 policy** units were flagged up for future, long term considerations.
- A series of checks have been applied to each of the policy units to determine whether any matters will require further consideration by the NWNW Coastal Group.

These checks identified the next steps to be considered, which fall into the following categories:



RFCC Business Plan Action

Increasing risk management authority capacity and collaboration

National FCERM Strategy Ambitions	North West RFCC Strategic Aims
<p>A nation ready to respond and adapt to flooding and coastal change</p>	<ul style="list-style-type: none">• To enable risk management authorities to build strong and effective partnerships to innovate and make best use of their collective resource to move faster towards achieving resilience.• To strengthen the role of the RFCC as supporter and critical friend to risk management authorities, seeking to improve performance, and addressing barriers to this.• To improve communication and information sharing, from, within, and into, the RFCC, its partnerships and its wider network.

Our plan to achieving these aims ...

...Our plan

Overarching Actions	Sub Tasks
1. North West Coastal Centre of Excellence	<ul style="list-style-type: none"> • Engage consultant to produce a business model report by February 2023 • Scope resource requirements and funding against staff availability by February/ March 2023 • Create business model by May 2023 • Present business model at RFFC meeting in June 2023 • Develop memorandum of Understanding.
2. Upskilling within coastal authorities	<ul style="list-style-type: none"> • Identify training needs through surveys • Identify training needs through coastal group meetings • Work with Newground to publish training material on Flood Hub website by March 2023. • Identify suitable training providers and access to existing training packages to meet the needs identified: Including CIWEM training and training for planners.
3. Upskilling within coastal authorities through Innovation Projects - <ul style="list-style-type: none"> • Our Future Coast • Cumbria Innovation and Flood Resilience (CiFR)) 	<ul style="list-style-type: none"> • Provide funding agreements for Local Authority and NGO support to increase funded resource availability on the coast. • Produce Best Practice Guidance for NFM and Community Engagement.
4. Upskilling within coastal authorities through the Regional Monitoring Programme .	<ul style="list-style-type: none"> • Develop training packages and regional resources to develop understanding of coastal monitoring availability and data management. • Explore regional coastal modeller (MIKE21) for NW coastline to achieve resilience faster
5. Championing Coastal Coordination (3Cs) project	<ul style="list-style-type: none"> • Share and disseminate the learning to wider partners and stakeholders from this EA led project.



North West & North Wales
Coastline

a partnership for coastal defence management

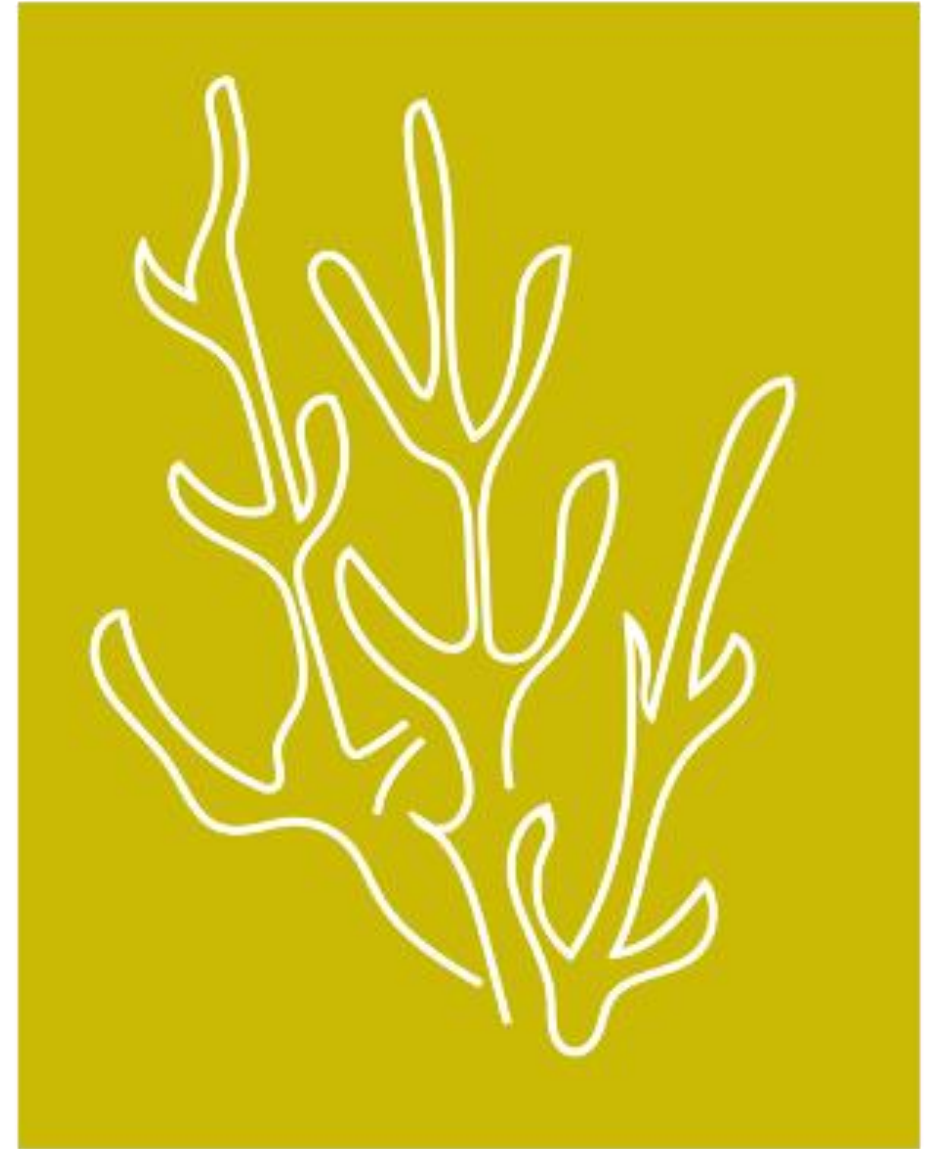
New Approaches and Innovation

Our Future Coast

- One of 25 projects in the Flood and Coastal Resilience Innovation Programme (FCRIP).

Testing

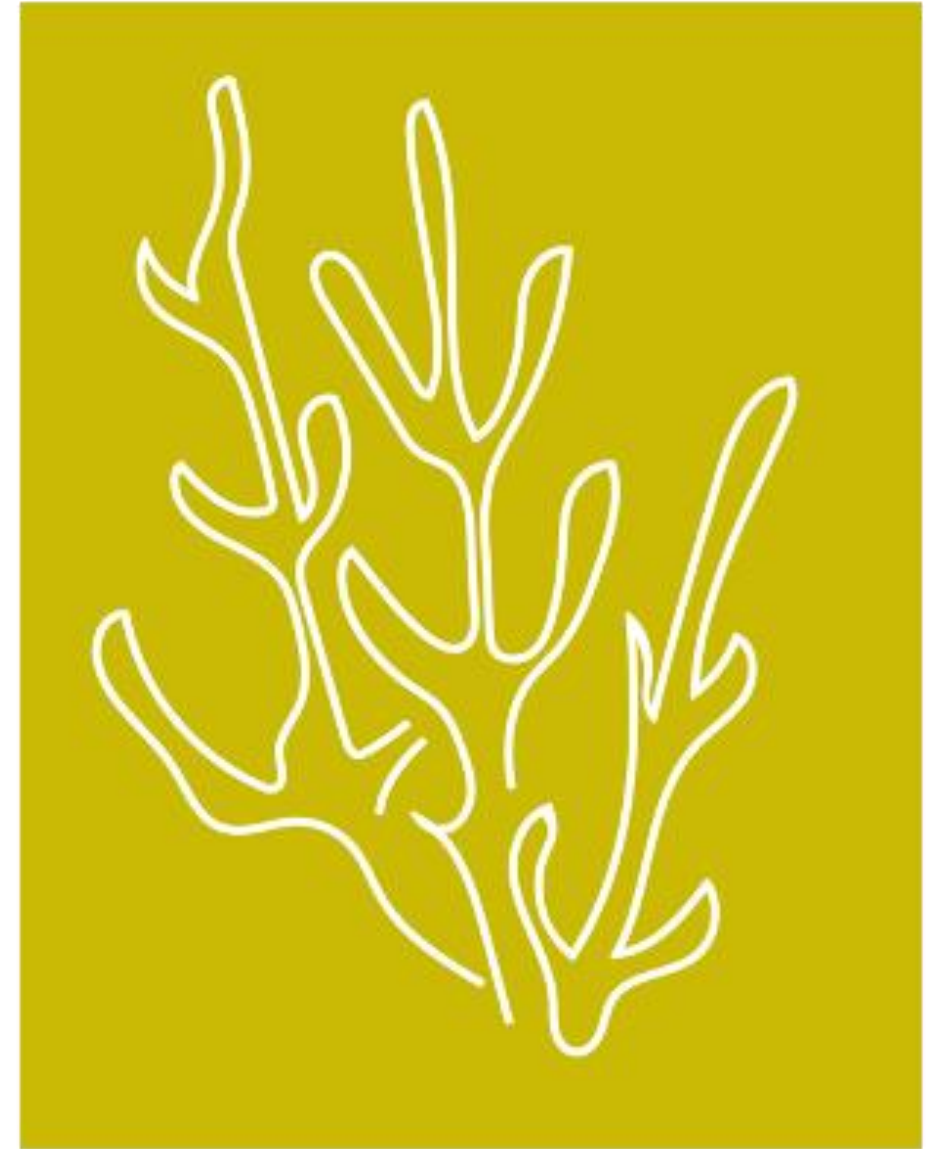
- Nature based solutions and
- Community engagement



OUR FUTURE COAST

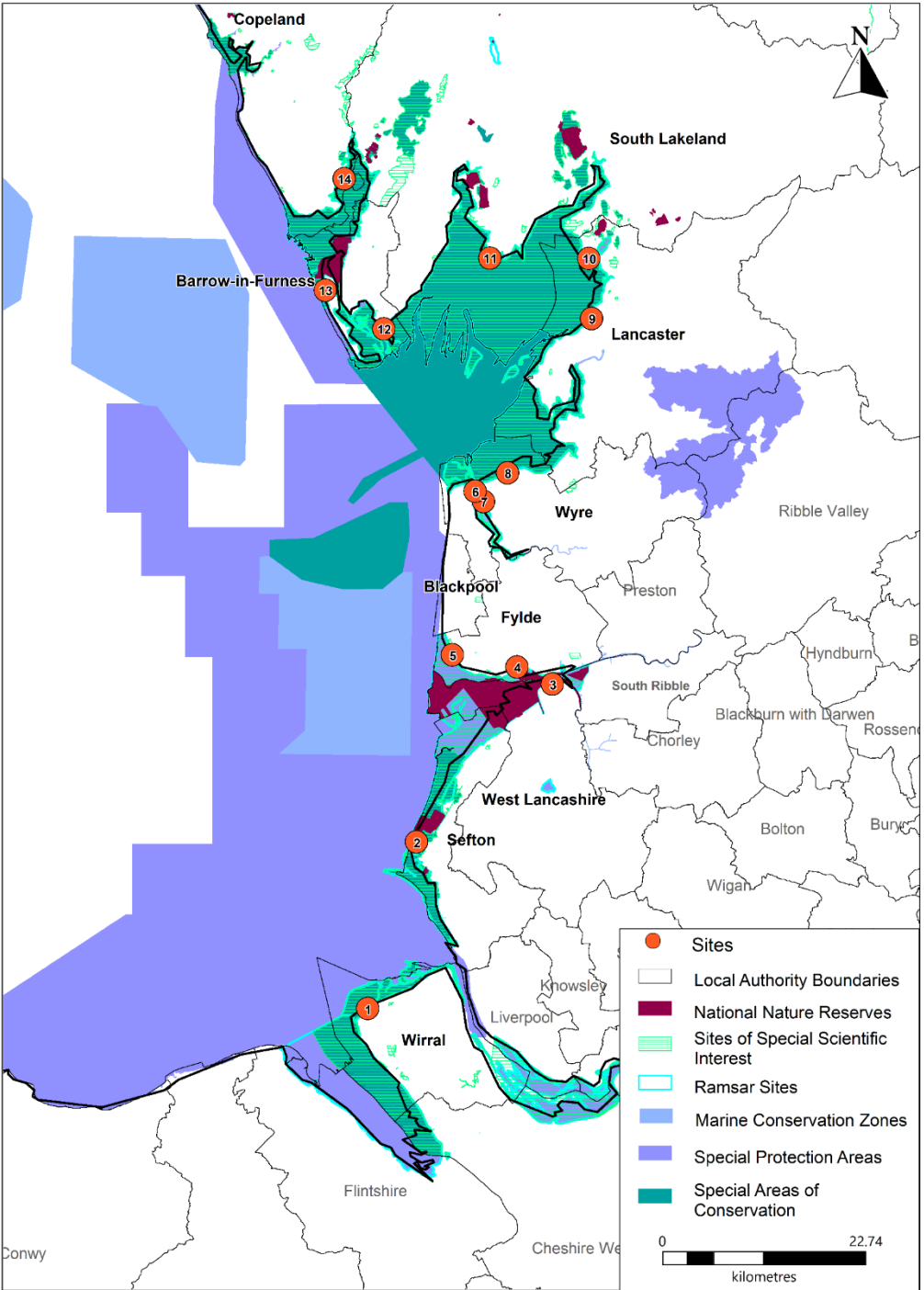
Our Future Coast

- OBC approved 19 Oct
- Team and Board in place
- NE guidance & DAC
- Site visits & scoping underway
- Our Future Coast Brand
- Launch planned for 29 & 30 March to coincide with Climate Change Conference



OUR FUTURE COAST

Our Future Coast - Sites



CiFER

Cumbria innovative Flood Resilience



Where in Cumbria are we working

- Grasmere (and by extension Rydal communities)
- Crummock and Lorton (and by extension Cockermouth communities)
- Appleby , including Warcop (and by extension Carlisle Communities)
- Stockdalewath including Greystoke (and by extension Carlisle communities)
- Staveley (and Kentmere communities)



Work Stream 1 Nature Based Solution (NFM at scale)



- Working rule of 10,000m³ per 1km²
- Utilising all the information gathered from the Cumbria NFM programme
- In addition to the flood benefits evaluating structures for phosphate, nitrogen and carbon
- Will be aiming to trial some new designs, looking at specific return period requirements



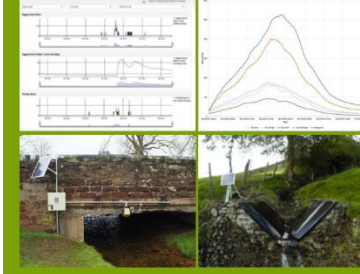
Work Stream 2 Farming and Community Officers




- New variant of National England Catchment Sensitive Farming officers with a flood and community remit
- Trusted intermediary between us and landowners
- To enable long term working on land for flood risk, farm sustainability, water quality and biodiversity
- Will help unlock funding from Countryside Stewardship/Environment Land Management/England Woodland Creation Offer to add value and additional funding to the project
- To help form closer relationships between the land and the towns



Work Stream 3 Monitoring, evaluation, modelling and mapping



- Lancaster University monitoring for hydrograph effects, individual features and water quality
- Gold standard of evidence, 5 minute data sets showing rainfall, level and discharge.
- Monitoring for water quality indicators
- Some monitoring devices already installed and first proof of concept model underway



6 Work Streams within CiFR

Work Stream 4 Community Preparedness and Resilience



- Surveying communities to understand their fears and aspirations (baseline underway)
- Helping communities to better understand their flood risk
- Supporting community preparedness; developing networks between community groups, sharing the knowledge of established community emergency planning groups
- Providing communities with access to funding to improve their capacity, training and equipment
- Taking a place based approach to resilience; improving the relationship with RMAs and emergency responders



Work Stream 4 Blended finance



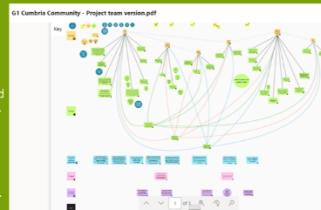

- Developing a set of measures that could be funded via private finance
- Stacking benefits and funding to achieve greater results
- Co-designing interventions to achieve greater range of results or to tackle specific fundable issues
- Demonstrating benefits by having independent academic research



Work Stream 6 Evaluation and Dissemination

Theory of Change is essentially a comprehensive description

Illustration of how and why a desired change is expected to happen in a particular context. It is focused in particular on mapping out or "filling in" what has been described as the "missing middle" between what a program or change initiative does (its activities or interventions) and how these lead to desired goals being achieved. It does this by first identifying the desired long-term goals and then works back from these to identify all the conditions (outcomes) that must be in place (and how these related to one another causally) for the goals to occur. These are all mapped out in an Outcomes Framework.

NW Coastal Conference



CLIMATE CHANGE ON THE NW COAST

Challenges facing coastal communities and working with nature to adapt to coastal change



Arrangements

- **Where:** The Grange Hotel, Grange-over-Sands
- **When:** 29 & 30 March
- **Themes:**
- **Day 1:** Challenges on the coast, communities and working with data, evidence gathering and natural solutions to coastal protection.
- **Day 2:** Collaborative work, community engagement, changing mindsets and alternative funding options as well as an afternoon field trip.
- Our event will incorporate the launch of **Our Future Coast**, the NW's Coast's Flood and Coastal Resilience Innovation Programme.
- Field trips – suggestions include:
 - West Shore Walney & Roa Island
 - Humphrey Head
 - Jenny Browns Point & Hest Bank

Funding

- Jointly funded by Coastal subgroups, Our Future Coast project, 3C's and RFCC.

Agenda Item 10

Any Other Business