

## Coastal Loss Innovative Funding and Financing (CLIFF)

Facilitation of FCRIP project Interviews to establish a coastal financing current state framework

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April 2023

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- **1. Project background and overview**
- 2. Assessment and evaluation approach
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- 4. Next steps / recommendations
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# 1. Project background and overview

### **Overview of CLIFF and this project**

#### How did CLIFF Originate?

- In July 2020, the UK Government's published Flood and Coastal Erosion policy statement<sup>1</sup> committed to explore the availability and role of innovative financial products or services
- Aim is to achieve a managed coastal transition of property away from areas at risk of coastal erosion.
- In response to this, CLIFF was launched, aiming to establish new financial mechanisms that could support coastal areas

#### What work has CLIFF covered to date?

#### Phase 1a – Quick Scoping Review (2021)

- Review past research / case studies
- Interview experts to inform potential innovative financing and funding mechanisms
- **Develop options** to support properties impacted by flood and coastal erosion

#### Phase 1b - Feasibility Assessment (2022)

- Assess option feasibility and evaluate cost-benefit of 3x most viable options from phase 1a
- Develop bespoke coastal risk financial model to financing potential
- Outline roadmap to progress most practical scheme(s)

#### **CLIFF Progression Workshop (2023)**

- Key stakeholder workshop to identify options for progressing of coastal innovative funding and financing
- Establish linkages from FCIP, incl. related CTAP or FCRIP projects
- Refine and develop coastal financing framework to progress CLIFF

#### How CLIFF is being progressed through the new project work?

- Formalisation of the Coastal Innovative Funding and Finance framework
- Interviews with CTAPs, FCRIPS, Green Finance and Resilient Coast (+ others as applicable) to understand the work that is being undertaken and how it fits in the framework
- Identify **potential gaps** in the current framework

## Evaluating current state for a "coastal innovative financing framework"

### **Key Components**

- We have broken the project down into a **set of elements** to be resolved in order to review current state of coastal finance
- Each element has a number of subelements that need to be explored to see if they are viable options
- A gap analysis has been undertaken to identify sub-elements that do not already have data available and need to be studied so comparison can be made
- Once all sub-elements have been studied, the most suitable combination can be used. What is most suitable may vary by region

Framework Elements:		
Setup	Identify what needs to be true for the project to go ahead – policies in place, data to identify target residences, confirmation of public appetite	
Enablers	Where the <b>resources to fund the program could</b> <b>come from</b> – what mix of public and/or private and whether this would be uniform or vary across programs	
Administration	Establish <b>how the scheme would be administered</b> – through an expansion of existing mechanisms, a duplication (e.g. Coast Re) or something new/bespoke	
Programs	Determine the <b>payout type and nature</b> – whether to rehouse people nearby, fund a move elsewhere, how much a household is allocated, <b>what the trigger is</b>	
Beneficiaries	Depending on the scale and nature of the payout, <b>determine the primary and secondary benefits</b> – impact on individuals, community and commercial	

# 2. Assessment and evaluation approach

# We have established the maturity of the "coastal innovative financing framework" through structured interviews

We have conducted a number of interviews for relevant FCRIP programmes, to provide further insight into:

- What innovative funding mechanisms are already being tested?
- Are FCRIP programmes assessing policy challenges that identify any blockers for implementation?
- Are FCRIP programmes fully evaluating each component of a coastal innovative financing framework?
- What gaps can be identified in order to improve maturity?

#### The interviews were conducted with a structured question set that included the following areas:

**Summary** of FCRIP project being undertaken

Key outcomes / objectives of each project and any policy blockers encountered Alternative funding sources including the potential for selfsustaining funds

**Discussion** of how scheme funds were to be **administered** 

The nature of **pay out** mechanisms tested

How outcomes can be **monitored** and **measured** and assess the **benefits**  Outcomes from this work will be used to map the "current state" of innovative financing options being tested through FCRIP

This mapping will be evaluated against a "coastal innovative financing framework" to assess potential gaps, areas for improvement and identify a suitable path forward

# We have completed 7x interviews across a range of applicable FCRIP programmes

Pro	oject	Interviewee Name(s)	Interview Date	Interview Complete?
Α	Stronger Shores - marine habitats protecting coastal communities [link]	Michelle Hogg	5 <sup>th</sup> January	Yes
В	York and North Yorkshire catchment flood management [link]	Phil Delaney	5 <sup>th</sup> January	Yes
С	Tees Tidelands - Banking biodiversity credits to fund local flood resilience [link]	Zoe Fraser-Connell, Jane Salisbury, Zoe Seaman	9 <sup>th</sup> January	Yes
D	Innovative flood resilience in the Beverley Brook catchment in Richmond [ <u>link]</u>	Elizabeth Bunker	10 <sup>th</sup> January	Yes
E	Resilient Frome [link]	Abigail Hall	11 <sup>th</sup> January	Yes
F	Smarter Flood Resilience - sponge catchments for people and nature [link]	Olivia Flint	12 <sup>th</sup> January	Yes
G	Project Groundwater [link]	Jed Ramsay, Andrew Rainsford	16 <sup>th</sup> January	Yes

#### Potential additional interviews to support any further work, include:

- FloodRe follow up conversation on where CLIFF has got to and this mapping
- EA Board Discussion with Mark Southern given his Green Finance background
- FCRM Committee coming to NNDC in March, opportunity to mention this mapping and next steps
- Green Finance Team follow-up with them on their project. Working on an "East Coast" program. Also have another insurance project ongoing

### **3. Project outcomes** *Current state for a "coastal innovative financing framework"*

### **Detailed overview of framework components (1/2)**

Component	Definition	Current State / Relevant concepts explored in FCRIP projects	Potential gaps	
Set-up	What needs to be true for the project to go ahead?	Projects initiated through Outline Business Case (OBC) process	<ul> <li>Need an "innovative-OBC process" to</li> </ul>	
		<ul> <li>Issues identified with OBC process where it is unable to adequately recognise the direct / indirect benefits delivered.</li> </ul>	enable more effective bidding / alternative to partnership funding	
		<ul> <li>Potentially prevents new innovative mechanisms being progressed</li> </ul>	<ul> <li>Mechanism to develop legally constituted management mechanism (i.e. policy</li> </ul>	
		Policy barriers identified where government funding is used to generate a	blockers removed)	
		return on investment (e.g. sale of biodiversity credits	<ul> <li>Need a national view of what can be</li> </ul>	
		<ul> <li>Further policy challenge work may be needed to identify suitable aptiend to apple least authority led "innevative" projects</li> </ul>	scaled up	
		options to enable local authority led "innovative" projects	<ul> <li>Establish what FCRIP programmes are</li> </ul>	
		<ul> <li>All project delivered at local scale with no/limited view to assess potential for national scale up</li> </ul>	applicable in other localities nationally	
Enablers	What finance options exist to fund programs?	<ul> <li>Funding through FCRIP (government funding) predominant mechanism</li> </ul>	<ul> <li>Assess appetite for 'national-led'</li> </ul>	
		<ul> <li>Increasing interest nature-based solutions from private investors, including companies who are directly impacted by the risks</li> </ul>	<b>approach</b> to deliver projects on a national basis	
		<ul> <li>Potential for this to be better coordinate</li> <li>Adaptation of existing approaches being explore</li> </ul>	<ul> <li>Potential for this to be better coordinated nationally</li> </ul>	<ul> <li>Review of private-sector investment opportunities / financial products needed</li> </ul>
			<ul> <li>Adaptation of existing approaches being explored incl. other government funding/schemes such as ELMS / biodiversity (BNG) credits</li> </ul>	(likely required at national level – potential for some local testing)
		<ul> <li>Few FCRIP project looking to include private-sector investment</li> </ul>	<ul> <li>Investor appetite to fund projects needs to</li> </ul>	
		Limits potential establish circular funding / self sustainable project	be assessed	
			e.g. through creating BNG units and selling the credits to private investors	<ul> <li>Understanding of how community funding would be implemented as this is currently just an area of potential</li> </ul>

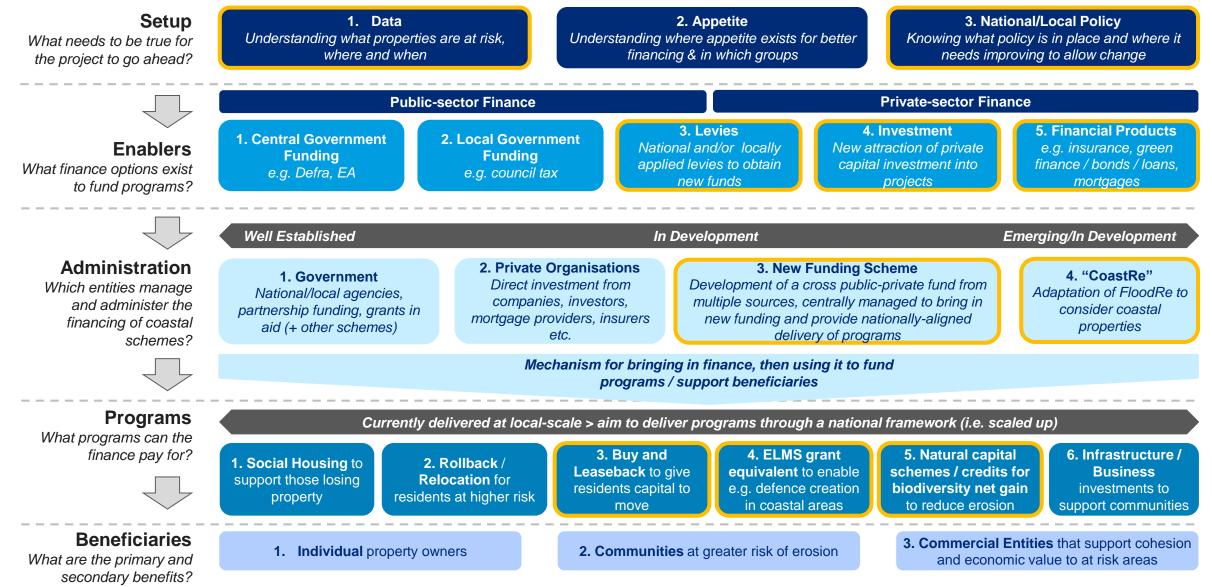
### **Detailed overview of framework components (2/2)**

Component	Definition	Current State / Relevant concepts explored in FCRIP projects	Potential gaps			
Adminis-	Which entities manage and administer the financing of coastal	<ul> <li>Projects largely run by the lead authority local council on the project</li> </ul>	Administration currently only undertaken a			
tration		<ul> <li>Some formed of partnerships with local council / other Organisations</li> </ul>	local level – review for national level administration needed			
		<ul> <li>More established projects have steering or working groups who are responsible for delivering the work</li> </ul>	<ul> <li>To attract private funding, more flexible administration schemes to be tested</li> </ul>			
	schemes?	<ul> <li>No FCRIP programmes have evaluated "private funding" offerings to manage pots of funding (i.e. to further grow funding)</li> </ul>	(allow for national / public-private partnering)			
			<ul> <li>No centrally managed funding – held locally rather than at e.g. government</li> </ul>			
Programs	What	<ul> <li>Good coverage of payout mechanisms and programs being examined</li> </ul>	Potential to test programs which assess a			
	programs can	<ul> <li>Potential for more coastal projects</li> </ul>	"circular / sustainable funding" approach			
	the finance pay for?	<ul> <li>For the majority projects, the money is used by the LA to fund resilience / mitigation measures</li> </ul>	<ul> <li>I.e. funds are collected back from the initial investment made</li> </ul>			
			<ul> <li>Limited view of using funding to generate more funds</li> </ul>			
						<ul> <li>Pay outs also made via a grant scheme to target action in key groups</li> </ul>
		<ul> <li>Grants are based on an eligibility criteria and funding formula for</li> </ul>				
Beneficiaries	What are the primary and secondary benefits?	primary and the expension secondary benefits? • Provision even income for the expension of	<ul> <li>Possible to quantify benefits using modelling, using scenarios to understand the expected outcomes – not yet fully underway</li> </ul>	<ul> <li>As the projects are all relatively new, there wasn't a lot of detail on the approach to</li> </ul>		
			<ul> <li>Provision of benefits for different beneficiaries – individuals, communities and even industry</li> </ul>	monitoring / measuring benefits and they were often in progress		
			<ul> <li>Intention for monitoring and evaluation of benefits before and after the initiatives to quantify improvements</li> </ul>	<ul> <li>Need to establish a robust way of monitoring benefits for CLIFF to ensure they are realised</li> </ul>		

### **Current state summary for coastal financing**

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Key area requiring further exploration / assessment to improve data availability and understanding



## 4. Next Steps

### Where we are now vs. where we could get to...

### Now

 Running Flood and Coastal Resilience Innovation Programme (FCRIP) and Coastal Transition Accelerator Programme (CTAP) projects



- Programs currently only being run at a local level to test what finance could be used to fund
- Trialing mechanisms for implementing innovative measures to address flood and coastal resilience

### **This Work**

- Refined the coastal financing framework, breaking down current state by element and subelement
- Interviews held with select group of projects to understand existing mechanisms and capabilities
- Information from interviews compiled to provide an overview of the status of each framework element and identify gaps

### **Potential Goal**

- Determine what the gold standard approach for CLIFF implementation could look like, using best practices from existing initiatives
- Identify suitable options from FCRIP/CTAP that can be scaled up
- Collect evidence to support coastal scale-up
- Run program to scale local initiatives to enable implementation on a national level

# 5. Appendix – interview read-outs

# **Stronger Shores - marine habitats protecting coastal communities**

#### **Brief explanation of project**

- The aim is to monitor and better understand the composition of existing coastal habitats (including seagrass meadows, kelp beds and native oyster reefs) along the North East coast
- The project will evaluate costs and benefits of marine nature-based solutions to coastal protection in a UK context
- Information and data collected from the project will assess the impact that these habitats provide to society, especially to communities in the North East, as well as impacts on climate change, biodiversity, water quality, and carbon capture
- South Tyneside Council is the lead authority for the project

Setup	<ul> <li>Sites have been taken over from previous projects</li> <li>Majority of engagement has been with stakeholders and delivery partners, with an engagement plan in development</li> </ul>
Enablers	<ul> <li>Current funding through FCRIP (April 2021 – March 2027)</li> <li>There has been an increase in private investors for nature based solutions e.g. Hendricks &amp; Carlsberg</li> <li>Green financing review required to understand private investment requirements</li> </ul>
Administration	<ul> <li>Project fully funded following approval of business case</li> <li>Approve of the idea of a government run centrally managed fund for private funding</li> </ul>
Programs	<ul> <li>Money used to fund coastal habitats to enhance coastal protection</li> </ul>
Beneficiaries	<ul> <li>Looking at a range of benefits throughout the project</li> <li>Difficult to breakdown cost as the project works with many delivery partners who have volunteers</li> <li>RPA undertaking monitoring and evaluation of benefits of FCRIPs</li> </ul>



### York and North Yorkshire Catchment Flood Management



### **Brief explanation of project**

- This project involves looking at Natural Flood Management (NFM) options, including attenuation features, hedgerows and soil management
- The project is split in four work packages:
  - **1. Flood modelling of catchment area** to understand how changes in land use and land management impact flooding
  - 2. NFM initiatives incentivised through a grant scheme
  - 3. Engagement with communities
  - **4. Establish a legacy** to ensure **funding** beyond the FCRIP project (flood partnership funding and Environmental Land Management Funding (ELMS))
- **City of York Council** is the lead authority for the project and has previously spent millions on flood defences since 2015

<ul> <li>Project initiated through a <b>business case</b> which was approved in summer 2022</li> <li>Project looks at whole catchment area</li> </ul>
<ul> <li>Current funding through FCRIP until 2027</li> <li>Ongoing efforts within catchment e.g. nature for climate funding, which is a strand of ELMS/central government</li> <li>Private funding to be used in future: brokerage schemes, impacted companies</li> </ul>
<ul> <li>York City council is working with North Yorkshire County council, as part of the catchment is outside their council area</li> <li>No intention to draw a local levy on project-by-project basis as the changes will be small</li> </ul>
<ul> <li>Payouts will be made via a grant scheme to people (e.g. farmers) who take action to reduce flooding and implement NFM practices</li> <li>Grants will be based on an eligibility criteria and funding formula for consistency – looking to finalise this by the end of the project</li> </ul>
<ul> <li>Benefits quantified using modelling – intention for more in depth scenario modelling to understand expected benefits</li> <li>Grant scheme will be based on NFM benefits and will evaluate the set up of the scheme once modelling results are available</li> </ul>

# Tees Tidelands – Banking biodiversity credits to fund local flood resilience

### Stockton-on-Tees BOROUGH COUNCIL

### **Brief explanation of project**

- The project is designed to provide flooding resilience to the low lying lands surrounding the Tees estuary
- It is split in three strands:
  - 1. A demonstrator site in Pt. Clarence, building a **biodiverse habitat** and creating Biodiversity Net Gain (BNG) units
  - 2. Enhancing flood resilience through building awareness of flood risk in the local community
  - 3. Habitat banking through selling the BNG units to offsite developers, using the money to reinvest in flood RM and purchase more habitats
- Stockton-on-Tees BC is the lead authority for the project and it is a FCRIP project

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Setup	<ul> <li>Project initiated through an outline business case (OBC) in Nov 2022</li> <li>Pre-OBC, work was done on potential banking scheme mechanism</li> <li>Ongoing discussions regarding claw back of funding: If EA funding used for habitat creation, the money goes to EA. If LA involved, profits can be realised</li> </ul>
Enablers	<ul> <li>Funded from FCRIP (until 2027)</li> <li>Aims to bring income through habitat funding, becoming self sustainable</li> <li>Private funding through selling credits to industrial developers who need 10% net gain in biodiversity who can buy BNG units offsite</li> </ul>
Administration	<ul> <li>Creating a working group for banking strand, who will create an entity to sell the credits</li> <li>Potential to turn this into a body to deliver the work, but would need to establish resource and expertise</li> </ul>
Programs	<ul> <li>The funding is being used to develop flood resilience and habitat area</li> <li>The project will enable further flood RM at other sites that previously may not have been viable but, with the income from BNG credits, becomes viable</li> <li>Potential to include carbon / nitrogen offsetting</li> </ul>
Beneficiaries	<ul> <li>Monitoring and evaluation of benefits in progress</li> <li>Benefits of BNGs are easily assessed, but expertise is required for the flood resilience benefits</li> <li>Beneficiaries of all levels: Pt. Clarence is home to industry e.g. chemical plants</li> </ul>

# Innovative flood resilience in the Beverley Brook catchment in Richmond

### **Brief explanation of project**

- The project has three work streams:
  - 1. Delivery of **flood resilience measures**, including those that are more nature-based
  - 2. Communication and **engagement with the community** to understand residents' understanding and wants
  - **3. Monitoring and evaluation** of the solutions, looking at both the quantitative outcomes and community benefits
- Richmond Council is the lead authority for the project, working in partnership with Barnes Common Ltd. and Wildfowl and Wetland Trust and it is a FCRIP project

Setup• Plan to have legally constituted management mechanisms in place, however this will need an innovative mechanism which is not yet underway • Thus far no policy barriers have been met, however they are planning on doing policy challenge work to determine barriers and make recommendationsEnablers• Funding is largely from the EA, however partnership funding is being looked into i.e. with Wandsworth Council or Thames Water • GLA Green and Resilient Spaces fund will be applicable to specific projects • Also potential to see how the community can be involved in fundingAdministration• There are the three main partners, however the funding is mainly managed by Richmond Council • EA/DEFRA pays the council and then Richmond hold the money until there is sign off from the project board, and then the money can be spent in that remitPrograms• The funding is being used to develop flood resilience • Many projects undertaken e.g. highways and draining improvement, nature- based solutions such as river renaturalisation, integrating wetlands etc.Beneficiaries• Plan to have monitoring and physical surveys before and after initiatives to quantify improvements • Qualitative data collection to understand how people feel they have benefitted to track the impact of the coproduction service		
Enablersinto i.e. with Wandsworth Council or Thames WaterGLA Green and Resilient Spaces fund will be applicable to specific projectsAlso potential to see how the community can be involved in fundingAdministrationPrograms• The funding is being used to develop flood resilienceMany projects undertaken e.g. highways and draining improvement, nature- based solutions such as river renaturalisation, integrating wetlands etc.Beneficiaries• Plan to have monitoring and physical surveys before and after initiatives to quantify improvements • Qualitative data collection to understand how people feel they have benefitted	Setup	<ul> <li>this will need an innovative mechanism which is not yet underway</li> <li>Thus far <b>no policy barriers</b> have been met, however they are planning on doing</li> </ul>
AdministrationRichmond Council • EA/DEFRA pays the council and then Richmond hold the money until there is sign off from the project board, and then the money can be spent in that remitPrograms• The funding is being used to develop flood resilience • Many projects undertaken e.g. highways and draining improvement, nature- based solutions such as river renaturalisation, integrating wetlands etc.Beneficiaries• Plan to have monitoring and physical surveys before and after initiatives to quantify improvements • Qualitative data collection to understand how people feel they have benefitted	Enablers	<ul> <li>into i.e. with Wandsworth Council or Thames Water</li> <li>GLA Green and Resilient Spaces fund will be applicable to specific projects</li> </ul>
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Beneficiaries         quantify improvements           • Qualitative data collection to understand how people feel they have benefitted	Programs	Many projects undertaken e.g. highways and draining improvement, nature-
	Beneficiaries	<ul> <li>quantify improvements</li> <li>Qualitative data collection to understand how people feel they have benefitted</li> </ul>

Barnes

### **Resilient Frome**



### **Brief explanation of project**

- The project his based on the River Frome catchment aiming to **improve flood risk** using innovative options. The workstreams are:
  - 1. Natural flood management (NFM) in Frome headwaters
  - 2. Retrofit SuDS in urban areas
  - **3. River restoration** in new development along Frome river
  - 4. Policy challenge for new developments in flood zone
  - 5. Hydrometric monitoring in culverts
  - 6. Innovative private funding to fund additional NFM measures
- **Bristol City Council** is the lead authority for the project, and it is a FCRIP project

Setup	<ul> <li>OBCs signed off in September 2022</li> <li>Innovative funding yet to start – still in early stages</li> <li>Looking to challenge policy on developing in flood zones – not related to the funding</li> </ul>
Enablers	<ul> <li>Plan to procure private funding through consultancy, who go to landowners or businesses and to get funding, promising benefits including reduced flood risk</li> <li>E.g. 3Keel who have LENs (Landscape Enterprise Networks) innovative funding process. Money from businesses put into central pot</li> </ul>
Administration	<ul> <li>N/A not currently established</li> </ul>
Programs	<ul> <li>The funding will be used to pay for the workstreams, including SuDS and NFM</li> <li>For these two aspects, have analysed sites at risk of flooding and those that can help flooding downstream and found 40 sites, but only 10-15 can be funded through FCRIP</li> </ul>
Beneficiaries	<ul> <li>Benefits to private investor organisations, more than just reduced flood risk but also improving employee wellbeing and customer experience</li> <li>Quantifying benefits for these investors depends on outputs of SuDS analysis <ul> <li>currently not sure of approach as there will be different things to measure</li> </ul> </li> </ul>

# Smarter Flood Resilience - sponge catchments for people and nature

### **Brief explanation of project**

- The project is looking to deliver surface water flood resilience through Sustainable drainage systems (SuDS), or controlled flooding and storage using open land
- Many different flood solutions will be tested in two catchment areas - Salt Hill Stream and Chalvey Ditches
- Focus on **open spaces**, including parks owned by the council or schools
- **Benefits** include carbon reduction, air quality, traffic journey time, transport modelling, biodiversity

Setup	<ul> <li>Project looks to determine the benefits of having a SuDS local policy</li> <li>A key part of the project is empowering the local community to play a key role in choosing the adopted flood solutions</li> </ul>
Enablers	<ul> <li>Looking to get funding from <b>Department of Education</b> for SuDS in schools</li> <li>Slough estates is a large area of land owned by <b>Segro</b> so opportunity to work with them to implement solutions</li> <li><b>Thames Water</b> funding requires demonstration of reduced flow into their systems</li> </ul>
Administration	<ul> <li>Initial FCRIP grant approved by EA</li> <li>FC-ERM3 claims required to draw money from the overall budget pool up to 3 months in advance</li> <li>Steering group makes day to day decisions on projects</li> </ul>
Programs	<ul> <li>Currently having issues with procurement rules so partnerships not finalised</li> </ul>
Beneficiaries	<ul> <li>Project aims to gather an evidence base of benefits to demonstrate SUDs and nature based solutions should get more funding, not just flood funding</li> <li>The project had communities in mind and will provide sustainable public spaces</li> </ul>



### **Project Groundwater**



### **Brief explanation of project**

- The project is designed to evaluate how groundwater is addressed
- This includes: monitoring, modelling, mapping, warning, policy reviewing
- There are two main strands:
  - 1. Flood resilience measures
  - 2. Community engagement and facilities
- **Buckinghamshire Council** is the lead authority for the project

Setup	<ul> <li>OBC signed off Nov 2021</li> <li>Only just launched the website, as they were waiting to be ready to engage</li> <li>Found issues with the OBC process – felt the FCRIP program had been shoehorned in and was a tick box exercise: somewhat stifles innovation</li> </ul>
Enablers	<ul> <li>As well as FCRIP funding, water companies and LAs contributing – also two innovation tech funds being used which are government sources</li> <li>Young Foundation funding community consultation - scope for the community to contribute</li> </ul>
Administration	• N/A
Programs	<ul> <li>The project is looking at property flood resilience measures, including research to improve the offering and trialing installations, and NFM</li> <li>Also focus on community facilities e.g. those that will help people when flooding occurs and people lose access to amenities</li> </ul>
Beneficiaries	<ul> <li>Individual and community benefits will come from flood resilience measures and community facility focus – also aware of potential mental health benefits Thames Water also have benefits: it will help with their data and mapping as groundwater infiltrates into their sewage network, then also reputational benefit</li> </ul>



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