

# Appendix F

## FCERM Local Strategy Measures

Measures are medium level targets that will be delivered over specific time period. Our 10 measures are detailed below.

Within each measure we have documented the benefits and given an indicative timescale and an indicative cost for delivery. The benefits are not exhaustive and the timescales and cost factor in priority and complexity. We have also included a recurring category that will capture works that are ongoing for the lifetime of this strategy.

All measures are subject to they are subject to funding and capacity.

We have also cross referenced each measure against the wider strategic and corporate objectives. For ease of reference, the indicative timescales and costs associated with each measure are as set out below.

### Time frames

- Reoccurring                      Ongoing for the duration of the strategy
- Short term                        1-2 years
- Medium term                      2-5 years
- Long term                         5 years plus

### Costs

- Low cost                         £1-10k
- Medium cost                      £11-249k
- High costs                        £250-1000k
- Very high                         £1 million plus

The measures also contain information on whether the funding will be revenue or capital. We have also added a category called RBD (River Basin District). This is a clarify if these measures are specific to a specific area, or if they will be county-wide.

<b>Measure-1</b>	<b>Adopt and implement a risk-based, thematic incident management and incident investigation process.</b>
<b>Description</b>	<p>To manage flood risk in Carmarthenshire in a modern, efficient and targeted manner, we must modernise our incident management system and working practices.</p> <p>As a Lead Local Flood Authority, RMA and member of the Local Resilience Forum (LRF), we must be able to capture, record and analyse live data to inform operational decision making but also have robust data to inform interventions, investment and policy making for the future.</p>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Will allow timely and targeted allocation of resources during an operational situation e.g. Tactical Command Group.</li> <li>• An ability to prioritise according to policy and risk.</li> <li>• Information will be readily available, in a single location, to inform planned works (e.g. education campaigns, S19 incident investigations, training and policy / strategy development).</li> <li>• Robust financial planning and analysis of operational costs.</li> </ul>
<b>Time Scales</b>	Long term
<b>Costs</b>	High
<b>National Strategy</b>	<p>A – Improve our understanding and communication of risk</p> <p>C – Prioritising investment in the most at risk communities</p> <p>E – Provide an effective and sustained response to flooding</p>
<b>Local Strategy</b>	<p>Objective 1 – Modernise and develop a risk-based, thematic approach to flood and coastal erosion risk management.</p> <p>Objective 2 – Become data and information rich to facilitate better decision-making.</p> <p>Objective 3 – Champion nature-based solutions and sustainable drainage.</p> <p>Objective 4 – Educate, advise and empower our communities to become more resilient.</p> <p>Objective 5 – Promote and support community adaptation and partnership working.</p>

<b>CCC Corporate Strategy</b>	WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion) WB Objective 4 – Our Council
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.
<b>RBD areas</b>	All
<b>Funding Options</b>	External grant funding supplemented with internal

<b>Measure-2</b> Maintain a pipeline of business case and associated capital works projects.	
<b>Description</b>	We will maintain a 7-10 year capital works programme utilising all available resources. We will continue to apply for funding to support the development of business cases which in turn will support our funding bids for the delivery our capital works programme.
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• The programme provides tangible outcomes and measurable FCERM benefits to Carmarthenshire’s citizens and businesses.</li> <li>• It provides research into the flood risk at a community level.</li> <li>• It facilitates community engagement.</li> <li>• We develop greater knowledge and understanding of flood risk and drainage assets in our communities;</li> <li>• This work helps inform and empower communities which results in greater community cohesion, more resilient businesses and greater citizen wellbeing.</li> <li>• <i>Gwyrddu Sir Gâr (Greening Carmarthenshire)</i> is a strategic project funded through the Shared Prosperity Fund, in partnership with both the UK Government and Carmarthenshire County Council. It is aimed at embedding a Green and Blue Infrastructure (GBI) approach within local planning policy, ultimately, encouraging the use of GBI assets within new developments and helping the implementation of the revised Local Development Plan.</li> <li>• <i>Afonydd Gwydn Sir Gâr (Resilient Rivers Carmarthenshire)</i> is a design-based project focused upon the feasibility of two SuDS features within the Afon Teifi and Afon Tywi Special Areas of Conservation. This is funded by Natural Resources Wales’ Competitive Healthy Rivers Grant Programme, facilitated by Carmarthenshire County Council with input from the respective Nutrient Management Boards.</li> </ul>
<b>Time Scales</b>	Recurring
<b>Costs</b>	High
<b>National Strategy</b>	A – Improve our understanding and communication of risk B – Preparedness and building resilience

	<p>C – Prioritising investment in the most at risk communities</p> <p>E – Provide an effective and sustained response to flooding</p>
<b>Local Strategy</b>	<p>Objective 1 – Modernise and develop a risk-based, thematic approach to flood and coastal erosion risk management.</p> <p>Objective 2 – Become data and information rich to facilitate better decision-making.</p> <p>Objective 3 – Champion nature-based solutions and sustainable drainage.</p> <p>Objective 4 – Educate, advise and empower our communities to become more resilient.</p> <p>Objective 5 – Promote and support community adaptation and partnership working.</p>
<b>CCC Corporate Strategy 2022-27</b>	<p>WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion)</p> <p>WB Objective 4 – Our Council</p>
<b>Cabinet Vision Statement</b>	<p>Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.</p>
<b>RDB Areas</b>	<p>ALL</p>
<b>Funding Options</b>	<p>Capital</p>

<b>Measure-3</b>		<b>Increase community resilience through empowerment</b>
<b>Description</b>	There are insufficient resources in CCC and the partnership organisations to manage flood risk from all sources across Carmarthenshire. As such, we must seek to work in different ways, empowering communities and businesses to take responsibility and support them manage their own flood risk when possible. This can be achieved in partnership with organisations such as Carmarthenshire Public Services Board, which also aims to work across agencies to develop community resilience.	
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• This work helps inform and empower communities which results in greater community cohesion, more resilient businesses and greater citizen wellbeing.</li> <li>• Through community engagement we develop greater knowledge and understanding of flood risk and drainage assets in an area.</li> <li>• Greater resource resilience.</li> <li>• Partnership working.</li> </ul>	
<b>Time Scales</b>	Reoccurring	
<b>Costs</b>	Medium	
<b>National Strategy</b>	A – Improve our understanding and communication of risk B – Preparedness and building resilience E – provide an effective and sustained response to flooding	
<b>Local Strategy</b>	Objective 4 – Educate, advise and empower our communities to become more resilient. Objective 5 – Promote and support community adaptation and partnership working.	
<b>CCC Corporate Strategy 2022-27</b>	WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion) WB Objective 4 – Our Council	
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.	
<b>RDB Areas</b>	All	
<b>Funding Options</b>	Revenue and third sector	

<b>Measure-4</b>		<b>Increase public engagement and consultation</b>
<b>Description</b>	<p>We do not claim to have a greater understanding of flood risk in our communities than the residents and businesses that have experience that flooding.</p> <p>Our knowledge must complement local knowledge, and we must ensure that it is the local knowledge and desires that guide our outcomes.</p>	
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Development of relationships and trust.</li> <li>• Through community engagement we develop greater knowledge and understanding of flood risk and drainage assets in our communities.</li> <li>• This work helps inform and empower communities which results in greater community cohesion, more resilient businesses and greater citizen wellbeing.</li> </ul>	
<b>Time Scales</b>	Reoccurring	
<b>Costs</b>	Medium	
<b>National Strategy</b>	<p>A – Improve our understanding and communication of risk</p> <p>B – Preparedness and building resilience</p> <p>E – Provide an effective and sustained response to flooding</p>	
<b>Local Strategy</b>	<p>Objective 1 – Modernise and develop a risk-based, thematic approach to flood and coastal erosion risk management.</p> <p>Objective 4 – Educate, advise and empower our communities to become more resilient.</p> <p>Objective 5 – Promote and support community adaptation and partnership working.</p>	
<b>CCC Corporate Strategy 2022-27</b>	<p>WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion)</p> <p>WB Objective 4 – Our Council</p>	
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.	
<b>RDB Areas</b>	ALL	
<b>Funding Options</b>	Revenue and third sector	

<b>Measure-5</b>		<b>Champion innovation and technology</b>	
<b>Description</b>	With increased pressures on resources, we must constantly review and adapt to ensure that we deliver our services as effectively and efficiently as possible. Technology will play a key role in doing more with less in the future, and we must ensure that FCERM is at the heart of these changes.		
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Ensuring operational and financial resilience in uncertain times.</li> <li>• Offering customers a better experience with automated support and feedback.</li> <li>• Enables resources to be targeted efficiently on a risk on needs basis.</li> <li>• Increased financial resilience by doing more with less.</li> <li>• Modern and attractive ways of working for GenZ recruits.</li> </ul>		
<b>Time Scales</b>	Reoccurring		
<b>Costs</b>	Medium		
<b>National Strategy</b>	A – Improve our understanding and communication of risk B – Preparedness and building resilience E – Provide an effective and sustained response to flooding		
<b>Local Strategy</b>	Objective 1 – Modernise and develop a risk-based, thematic approach to flood and coastal erosion risk management. Objective 2 – Become data and information rich to facilitate better decision-making.		
<b>CCC Corporate Strategy 2022-27</b>	WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion) WB Objective 4 – Our Council		
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.		
<b>RDB Areas</b>	ALL		
<b>Funding Options</b>	Capital		

Measure-6	Develop a catchment based approach to asset management
<p><b>Description</b></p>	<p>To ensure we are maximising multiple benefits, our asset management plans will move towards being catchment based. This will synchronise with our partner RMAs, their strategic planning and ways of working.</p> <p>We will still deliver a robust programme of asset management, and feed our data into a national database which informs the iterations of the flood maps, but we will focus our resources in those catchments at greatest risk or work on catchment scale projects and programmes with our strategic partners.</p> <p>As per <a href="#">Annex IV of the Grant Memorandum</a> and Measure 7 of the <a href="#">National Strategy for Flood and Coastal Erosion Risk Management in Wales</a>, we must (as the Lead Local Flood Authority) send up-to-date information to Natural Resources Wales when we:</p> <ul style="list-style-type: none"> <li>• Build a new flood scheme, or</li> <li>• Change, maintain or update an existing flood scheme, asset or group of assets.</li> </ul> <p>This data will be used to update the:</p> <ul style="list-style-type: none"> <li>• <a href="#">National Flood Asset Database and accompanying map</a></li> <li>• <a href="#">Flood Risk Assessment Wales (FRAW) map</a></li> <li>• <a href="#">Flood Map for Planning (FMfP)</a></li> </ul>
<p><b>Benefits</b></p>	<ul style="list-style-type: none"> <li>• This approach seeks to maximise multiple benefits.</li> <li>• Catchment based working is the future and a model used by most of our strategic partners and RMAs.</li> <li>• This approach will seek to facilitate greater partnership working.</li> <li>• Prioritising resources in areas of greatest risk</li> </ul>
<p><b>Time Scales</b></p>	<p>Reoccurring</p>
<p><b>Costs</b></p>	<p>Medium</p>
<p><b>National Strategy</b></p>	<p>A – Improve our understanding and communication of risk C – Prioritising investment in the most at risk communities</p>

<b>Local Strategy</b>	<p>Objective 1 – Modernise and develop a risk-based approach to flood and coastal risk management.</p> <p>Objective 4 – educate, advise and empower our communities to become more resilient.</p> <p>Objective 5 – Promote and support community adaptation and partnership working.</p>
<b>CCC Corporate Strategy 2022-27</b>	<p>WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion)</p> <p>WB Objective 4 – Our Council</p>
<b>Cabinet Vision Statement</b>	<p>Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.</p>
<b>RDB Areas</b>	<p>ALL</p>
<b>Funding Options</b>	<p>Revenue</p>

<b>Measure-7</b>		<b>Provide expert advice and counsel</b>	
<b>Description</b>	<p>We will continue to provide expert advice and counsel to both internal and external stakeholders while developing and growing that knowledge.</p> <p>Development will grow into new areas such as natural flood risk management and nature-based solutions.</p>		
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• We will develop skills and expertise in house to advise and guide thus reducing our reliance on external consultants.</li> <li>• We will develop our workforce for the future.</li> <li>• Provide service to Planning, Property and Elected Members.</li> <li>• Potential for commercialisation.</li> </ul>		
<b>Time Scales</b>	Reoccurring		
<b>Costs</b>	Medium		
<b>National Strategy</b>	<p>A – Improve our understanding and communication of risk</p> <p>B – Preparedness and building resilience</p>		
<b>Local Strategy</b>	<p>Objective 3 – Champion nature-based solutions and sustainable drainage.</p> <p>Objective 4 – Educate, advise and empower our communities to become more resilient.</p> <p>Objective 5 – Promote and support community adaptation and partnership working.</p>		
<b>CCC Corporate Strategy 2022-27</b>	<p>WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion)</p> <p>WB Objective 4 – Our Council</p>		
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.		
<b>RDB Areas</b>	ALL		
<b>Funding Options</b>	Revenue		

<b>Measure-8</b>		<b>Manage FCERM permitting and consenting</b>	
<b>Description</b>	<p>We will continue to determine sustainable drainage and flood defence consents, within the statutory period, and offer a customer experience in keeping with the fees and charges paid for the service.</p> <p>We will aim, where possible, to enhance the customer experience with a pre-application service and working in partnership with Planning colleagues to maximise our service and support development and sustainable development and regeneration in Carmarthenshire.</p>		
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Deliver statutory obligations.</li> <li>• Ensure multiple benefits including flood risk, water quality, biodiversity and conservation plus amenity and wellbeing.</li> <li>• We receive and store the data on all new FCERM and drainage assets.</li> </ul>		
<b>Time Scales</b>	Reoccurring		
<b>Costs</b>	Medium		
<b>National Strategy</b>	<p>A – Improve our understanding and communication of risk</p> <p>B – Preparedness and building resilience</p> <p>D – Preventing more people becoming exposed to risk</p>		
<b>Local Strategy</b>	<p>Objective 2 – Become data and information rich to facilitate better decision-making.</p> <p>Objective 3 – Champion nature-based solutions and sustainable drainage.</p>		
<b>CCC Corporate Strategy 2022-27</b>	<p>WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion)</p> <p>WB Objective 4 – Our Council</p>		
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.		
<b>RDB Areas</b>	ALL		
<b>Funding Options</b>	Fees and charges (cost neutral)		

Measure-9	Adopt and designate drainage systems and FCERM features
<p><b>Description</b></p>	<p>In parallel with the ethos of schedule 3 of the Flood and Water Management Act 2010 (FWMA) and to ensure that the ownership of all new drainage systems is clear and transparent now and in perpetuity, we will seek to adopt all new drainage systems as per <a href="#">The Sustainable Drainage (Approval and Adoption Procedure) (Wales) Regulations 2018</a>.</p> <p>In addition, and where appropriate, we will use the legal powers are set out in Schedule 1 of the FWMA and <a href="#">designate land and/or structures</a> which are intended to address and mitigate the risk of the alteration or removal of a structure or feature that is situated on private land and which contributes to flood or coastal erosion risk management.</p> <p>As per <a href="#">Annex IV of the Grant Memorandum</a> and Measure 7 of the <a href="#">National Strategy for Flood and Coastal Erosion Risk Management in Wales</a>, we must (as the Lead Local Flood Authority) send up-to-date information to Natural Resources Wales when we:</p> <ul style="list-style-type: none"> <li>• Build a new flood scheme, or</li> <li>• Change, maintain or update and existing flood scheme, asset or group of assets.</li> </ul> <p>This data will be used to update the:</p> <ul style="list-style-type: none"> <li>• <a href="#">National Flood Asset Database and accompanying map</a></li> <li>• <a href="#">Flood Risk Assessment Wales (FRAW) map</a></li> <li>• <a href="#">Flood Map for Planning (FMfP)</a></li> </ul>
<p><b>Benefits</b></p>	<ul style="list-style-type: none"> <li>• A robust asset management and maintenance regime will be funded by a commuted sum and delivered by CCC.</li> <li>• Inhouse management should ensure accurate records and transparent ownership and responsibilities throughout the lifetime of the development.</li> </ul>
<p><b>Time Scales</b></p>	<p>Reoccurring</p>

<b>Costs</b>	Low
<b>National Strategy</b>	A – Improve our understanding and communication of risk B – Preparedness and building resilience D – Preventing more people becoming exposed to risk
<b>Local Strategy</b>	Objective 1 – Modernise and develop a risk-based approach to flood and coastal risk management. Objective 2 – Become data and information rich to facilitate better decision-making. Objective 3 – Champion nature-based solutions and sustainable drainage. Objective 4 – Educate, advise and empower our communities to become more resilient. Objective 5 – Promote and support community adaptation and partnership working.
<b>CCC Corporate Strategy 2022-27</b>	WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion) WB Objective 4 – Our Council
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.
<b>RDB Areas</b>	ALL
<b>Funding Options</b>	Fees and charges (cost neutrality)

<b>Measure-10</b>		<b>Undertake enforcement</b>	
<b>Description</b>	We will use our enforcement powers to uphold the integrity of all FCERM permitting and consenting processes but also, where applicable and appropriate, ensure that watercourses are managed and maintained.		
<b>Benefits</b>	<ul style="list-style-type: none"> <li>• Ensure the integrity of the FCERM permitting and consenting systems;</li> <li>• Potential for collaborative working either internally with Planning Enforcement or regionally with the SW Wales Flood Risk Management Group.</li> </ul>		
<b>Time Scales</b>	Reoccurring		
<b>Costs</b>	Low		
<b>National Strategy</b>	A – Improve our understanding and communication of risk D – Preventing more people becoming exposed to risk		
<b>Local Strategy</b>	Objective 1 – Modernise and develop a risk-based approach to flood and coastal risk management.		
<b>CCC Corporate Strategy 2022-27</b>	WB Objective 3 – Prosperous Communities (Thematic Priority: Community Safety, Resilience and Cohesion) WB Objective 4 – Our Council		
<b>Cabinet Vision Statement</b>	Ensure effective services in terms of managing and maintaining key infrastructure assets that include highway, drainage, street scene and local amenity assets.		
<b>RDB Areas</b>	ALL		
<b>Funding Options</b>	Revenue		