

UK Resilience Lessons Digest

Learning to Adapt Webinar

Issue 4 | March 2024



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Welcome

Deborah Higgins
Head of Emergency Planning College



Introduction

Brigadier (Retd) David Russell-Parsons

Deputy Head of the Training and Exercising Team
Resilience Directorate



Climate Adaptation



A changing climate reality

- Recent weather impacts



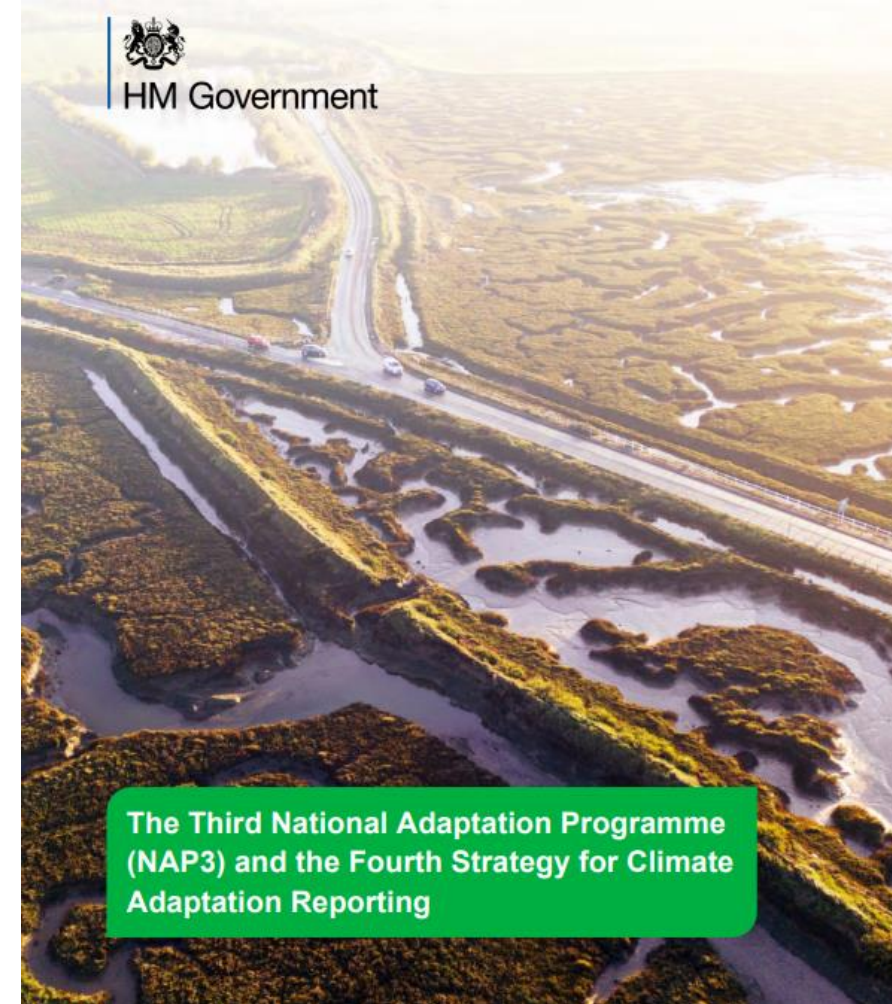
UK Resilience Framework

- shared understanding of risk
- whole of society approach
- prevention better than cure.



National climate adaptation

- Third National Adaptation Programme
- Climate governance



About the Digest

Lianna Roast

Head of Thought Leadership, Emergency Planning College



About the UK Resilience Lessons Digest

 HM Government

The UK Government
Resilience Framework

December 2022



Summarise transferable lessons and themes from a wide range of relevant sources



Share lessons across responder organisations and wider resilience partners



Coordinate knowledge to drive continual improvements in doctrine, standards, good practice, training and exercising



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Executive Summary



Lessons on Climate Adaptation

A review of 278 findings across 12 reports between 2015 and 2024



International Learning

Lessons from the work of Bournemouth University Disaster Management Centre in Sierra Leone, through the AFRICAB and EVALDIS projects

National Learning

The role of the Met Office in responding to extreme weather impacts associated with the climate emergency, and on-going adaptation action



Learning to in the Adapt UK

An overview of the national climate adaptation landscape

Academic Insight

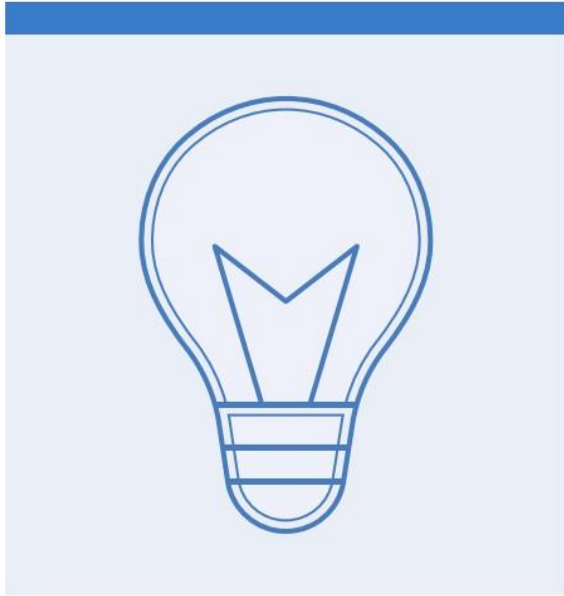
Adaptation, extreme weather and the events Industry

Tools for Implementation

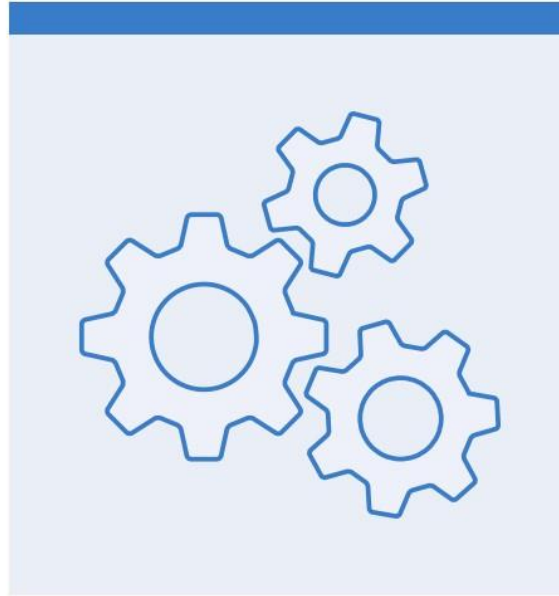
Local Partnerships and the Climate Adaptation Toolkit



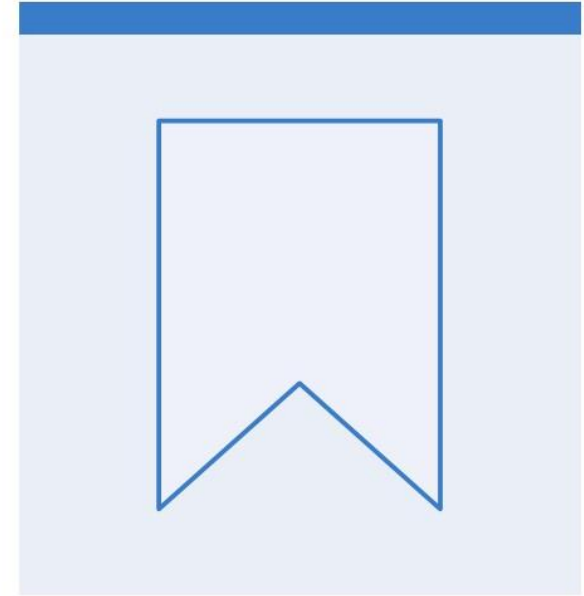
Putting the Digest into Action



Sidelights



Make it active



Resources



Climate Change in the UK

The role of the Met Office in responding to climate change

Elizabeth Fuller

Climate Science Communicator and Defra Seconded, Met Office

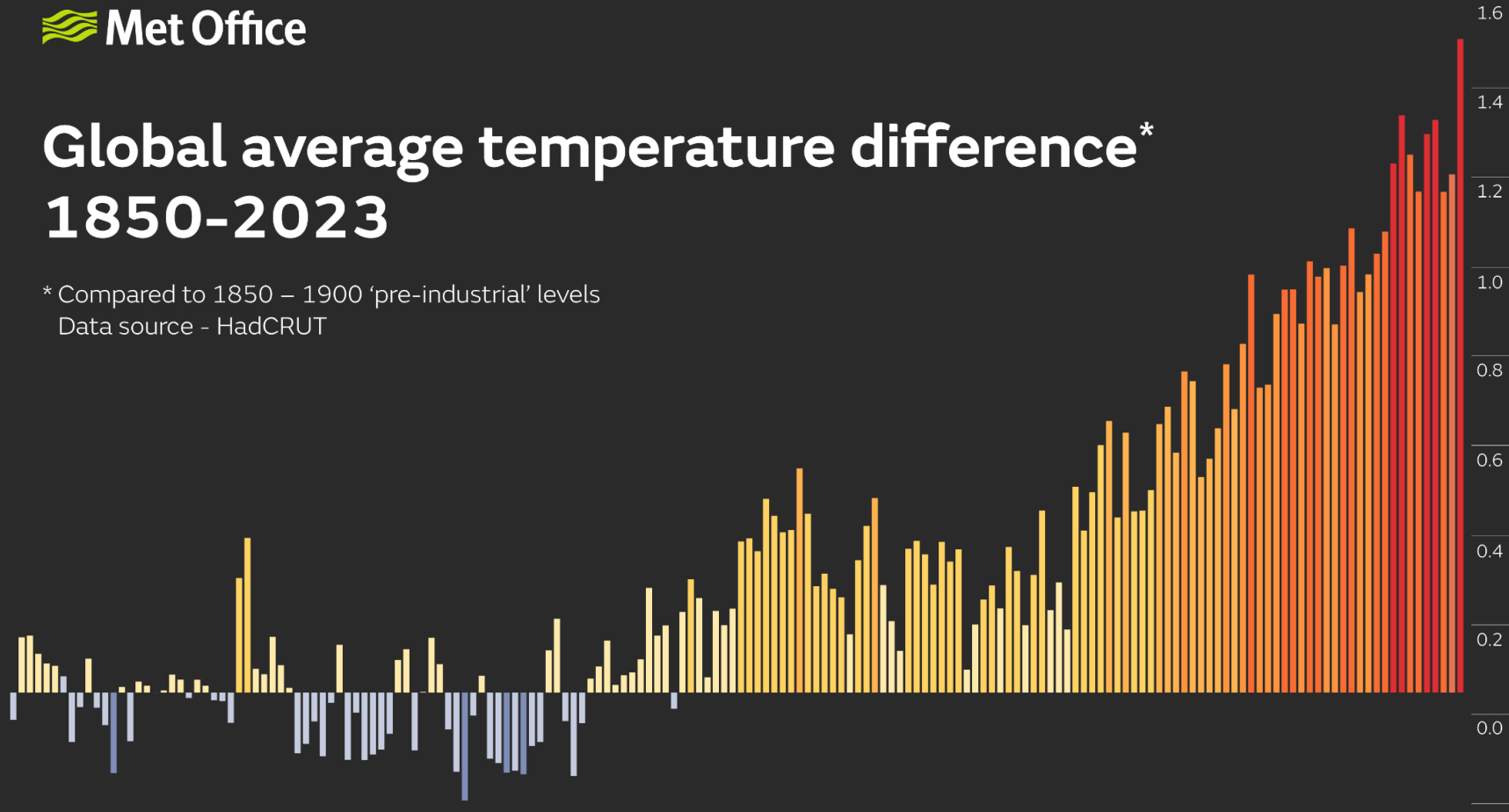


Climate Change is Already Here

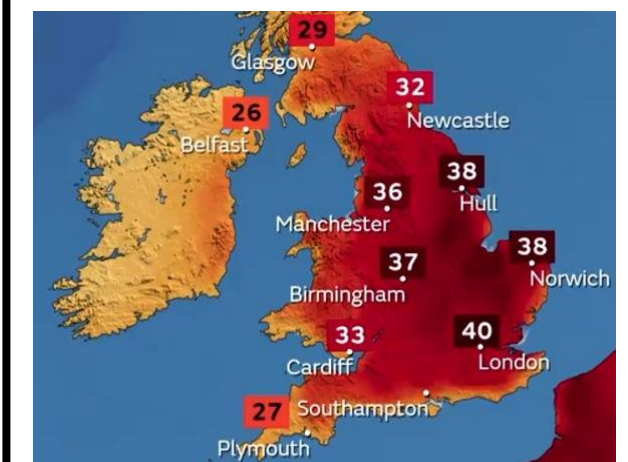


Global average temperature difference* 1850-2023

* Compared to 1850 – 1900 'pre-industrial' levels
Data source - HadCRUT



[Climate Dashboard
\(metoffice.cloud\)](https://metoffice.cloud)



Increasing Resilience - Responding to Extreme Weather



[UK weather warnings - Met Office](#)

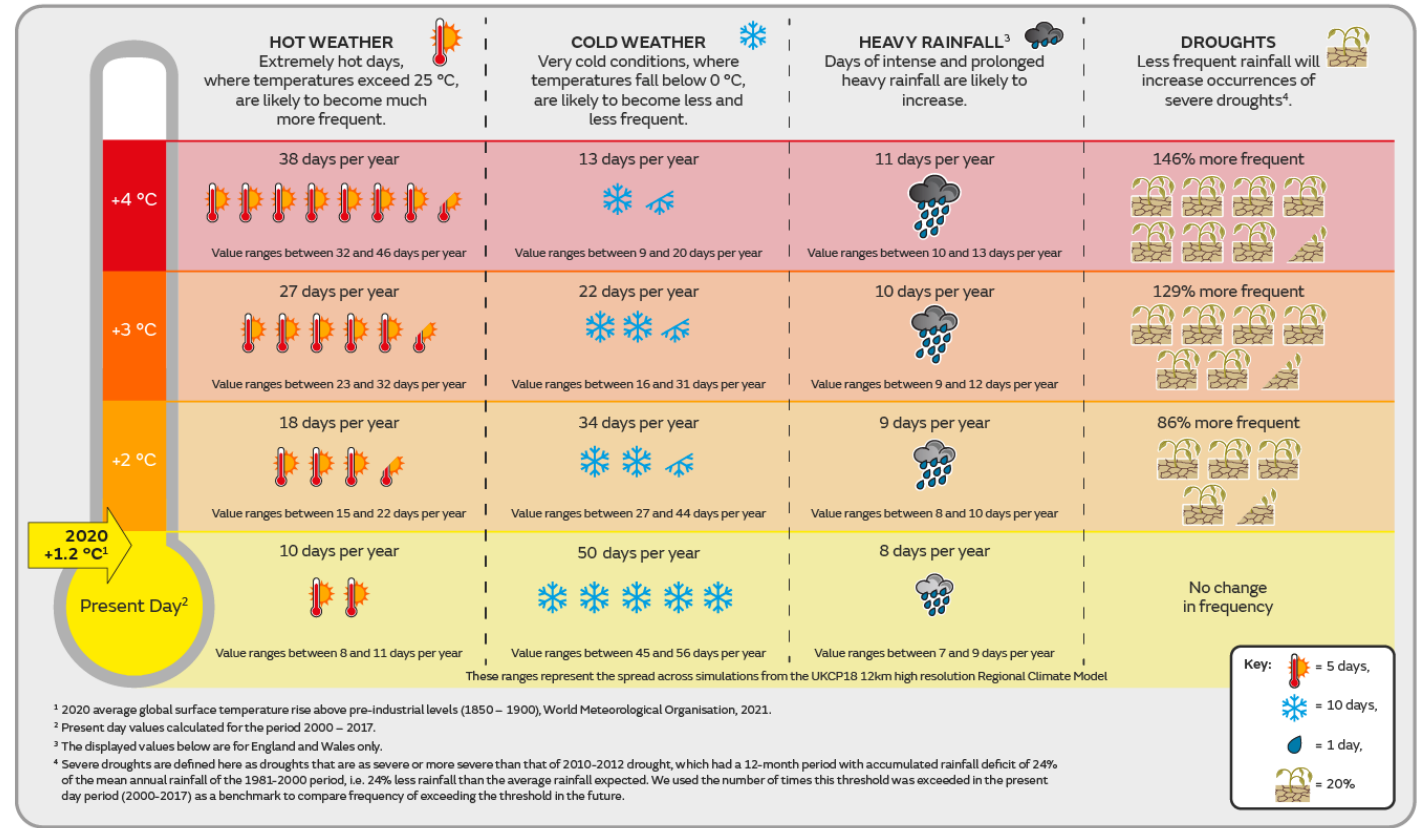


Climate Science and Services – Informing Adaptation

[The Met Office climate data portal](#)

[Climate change shifting UK's high-impact weather - Met Office](#)

Global warming and future high-impact weather in the UK

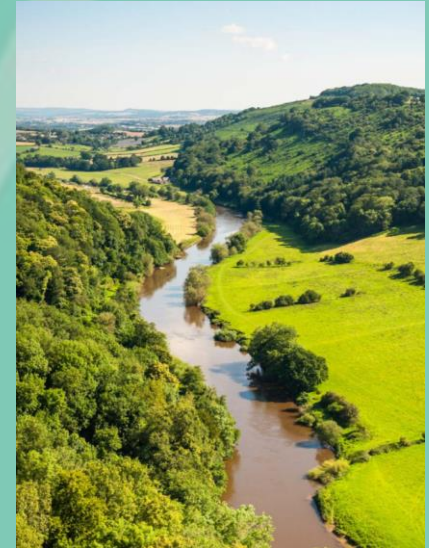


Learning to Adapt

Lessons on Climate Adaptation

Lianna Roast

Head of Thought Leadership, Emergency Planning College



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Why Climate Adaptation?

Climate emergency	<ul style="list-style-type: none">• Dynamic risk profile: chronic and acute aspects (NRR)• Dual response: mitigation (effects) and adaptation (impacts) in• Dual challenge: responding to impacts while working to reduce effects
Challenging narratives	<ul style="list-style-type: none">• Discussion: adaptation as an unequal partner in climate change dialogues• Measurement: inputs, outputs, outcomes and impacts
Current challenges	<ul style="list-style-type: none">• Reasonable worst-case scenarios: Storm Arwen, Digest 1• Review: real-time, systems-based, resilience thinking, Digest 1, 2 and 3
Community benefits	<ul style="list-style-type: none">• Benefits: local adaptation action connected to the wider national resilience and global climate change agendas



Learning Analysis



Rapid Review: Reports voluminous and technical and the learning more difficult to quantify and articulate



Multi-level learning: A global challenge with equally distributed impacts. This impressed the importance of international learning from areas with higher levels of social, economic, geographical and climate change vulnerability



Updated scope: Lessons were relatively 'new' in comparison with other thematic focuses. They were often embedded in rich stories of resilience or highly contextualised case studies, offering a wealth of learning experiences. This added additional variables into the analysis



1000 Lessons Later...

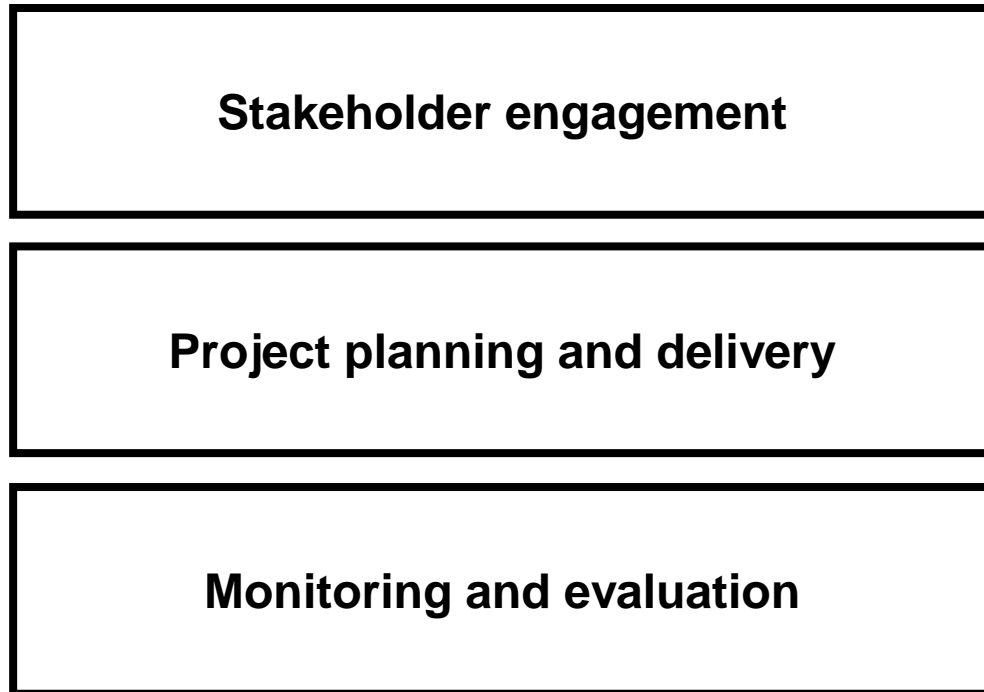
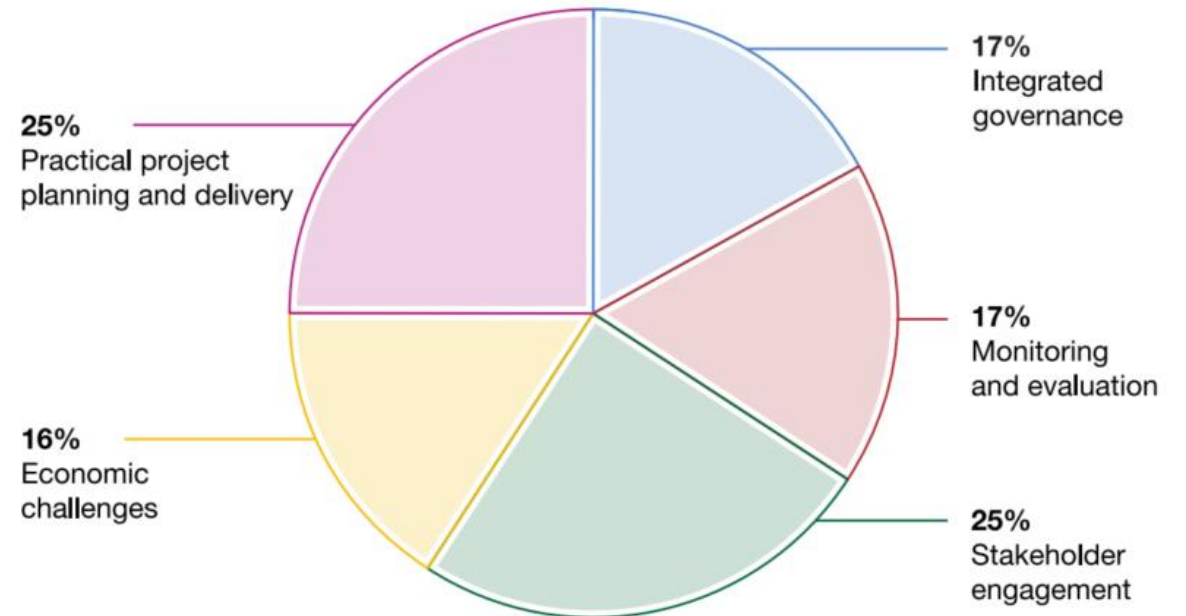


Figure 1: Prominent learning themes on climate adaptation



Spotlight on Sierra Leone

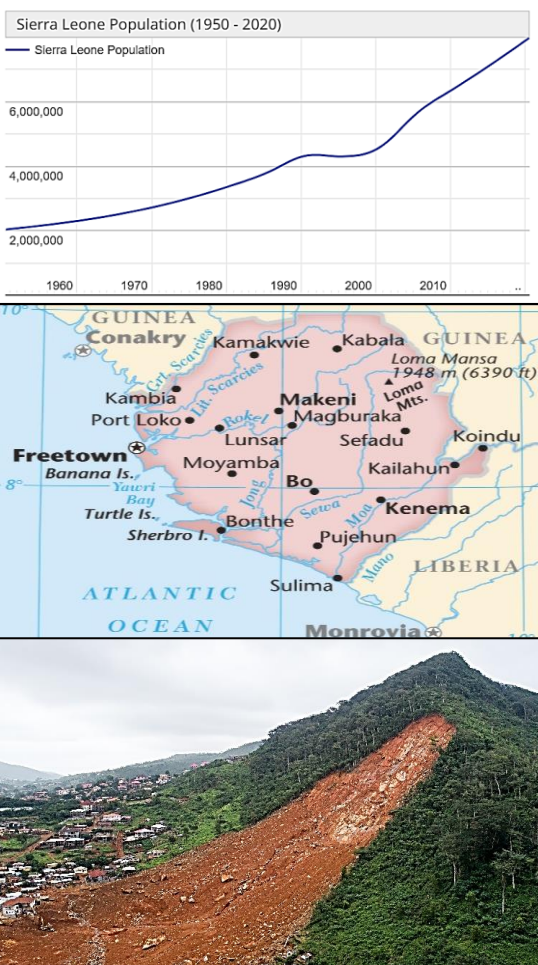
Lessons from the AFRICAB and EVALDIS projects

Professor Lee Miles PhD

Professor of Crisis and Disaster Management
Bournemouth University Disaster Management Centre

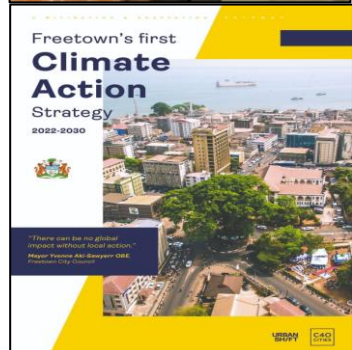
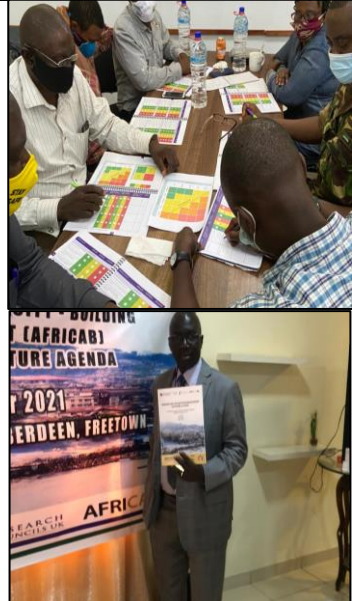
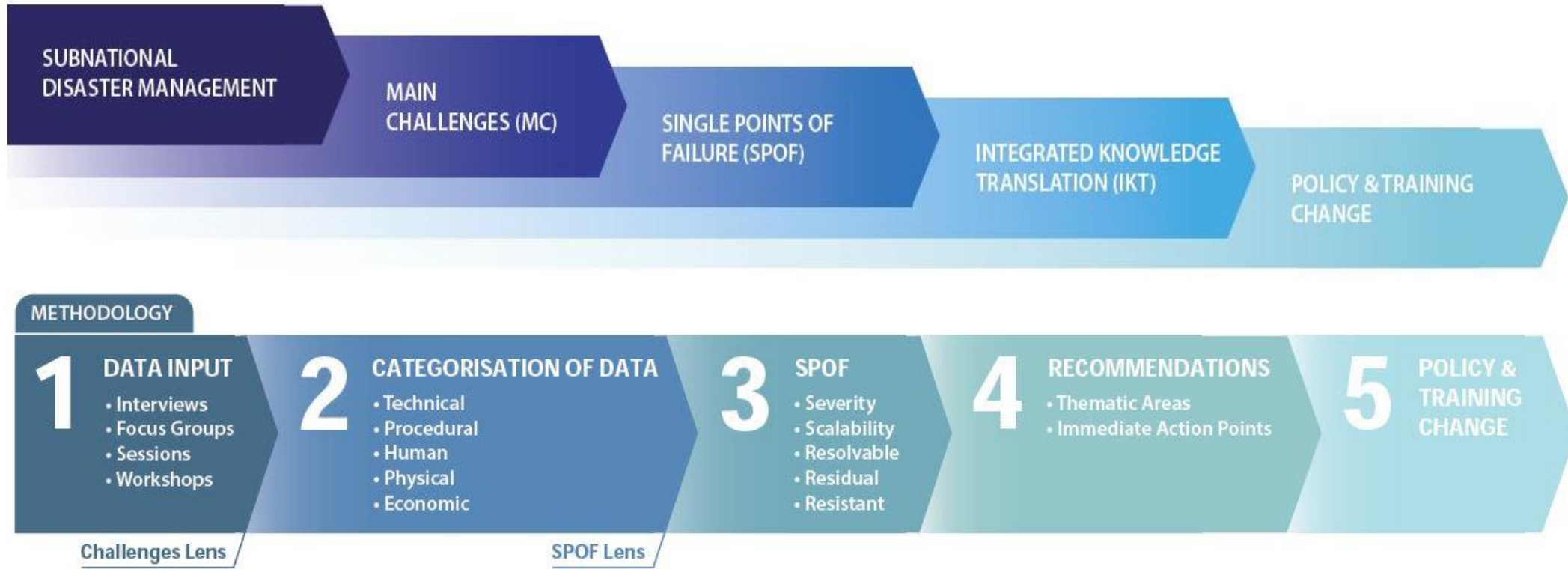


Spotlight on Sierra Leone



Population	Official current population of Sierra Leone in 2023 was 8,422,902, according to UN data.
Vulnerability	Sierra Leone ranked 181 out of 195 countries in the Human Development Index (HDI, 2021) according to United Nations Development Programme (UNDP)
Disaster prevalence	The NDMA's 2022 Annual Report catalogued official responses to <u>291 disasters/major incidents</u> between January 2021 and January 2022. Almost one a day!
Disaster profile	Many internationally profiled, for example 2014-16 Ebola Outbreak and 2017 Landslide.

Introducing AFRICAB and EVALDIS



Combined Project Outcomes



SIERRA LEONE INSTITUTE OF GEOSCIENTISTS (SLIG)

MONTHLY TECHNICAL PRESENTATION

TOPIC
THE USE OF SINGLE POINT OF FAILURE METHODOLOGY IN DISASTER MANAGEMENT IN SIERRA LEONE

PANELISTS
ABUBAKARR BANGURA
THOMAS LEBBIE
MOHAMED BAH

Friday 31st March 2023
Time- 4:00PM

VENUE
Conference Room, Ministry of Mines and Mineral Resources
5th floor Youyi Building Brookfields

JOHN V. ROGERS
Main Speaker

Meeting ID: 91392793308
Passcode: 209945

+23276335122

www.sligeo.org



NDMA Sierra Leone @ndmasierraleone

Professor Lee Miles of Bournemouth Uni. on 6 Jan. 2022 engaged @SierraLeone's Chief Minister @jj_saffa & @ndmasierraleone via Zoom & presented a research document which identified 12 critical challenges in the management of disaster in Sierra Leone. @bournemouthuni @PresidentBio




2023 Innovations That Inspire


BU
Bournemouth University


Building African Capacity to Manage Disasters

The Facilitator's Guide to Disaster Management and Single Points of Failure (SPOF), developed by Bournemouth University's Disaster Management Centre, helps African disaster managers identify, prioritise, and enhance governance of disaster risk, and manage disasters effectively.

Sponsored by:
AACSB ILLINOIS TECH





IMPROVING SUBNATIONAL DISASTER MANAGEMENT IN SIERRA LEONE

Evaluating Local Disaster Management in Sierra Leone (EVALDIS) Final Report 2023 No. 1

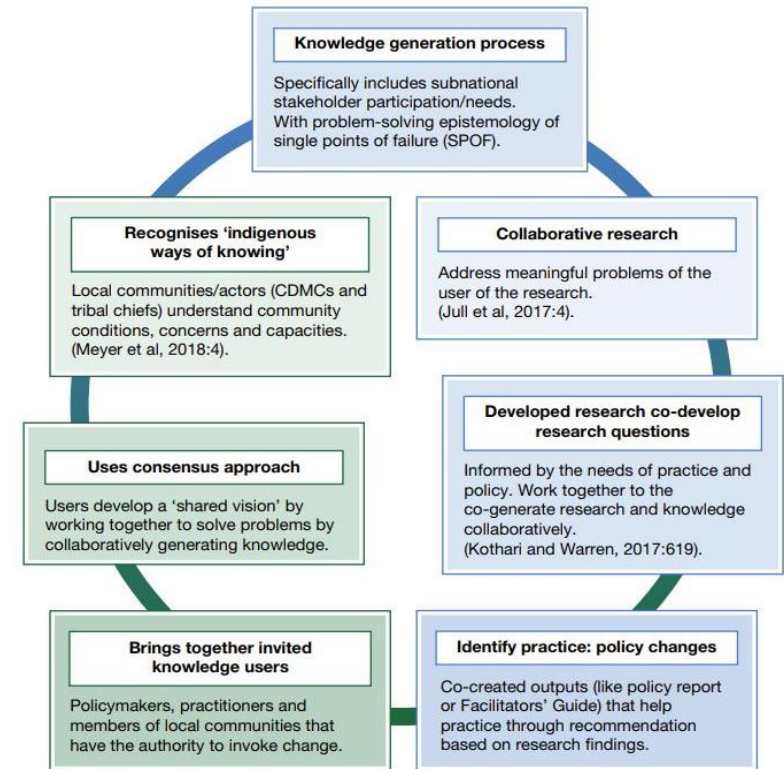
Lee Miles
Isatu Joy-Carew Sesay
John Miles
Jamie Martin
Martin Travers



Lessons Identified

Transferable learning for the UK

1	Meet pressing local need for evidence to shape and make policy.
2	Focus on specific actions within scarce resources to leverage sizeable and scalable enhancements.
3	Co-creation with national actors and engagement with local stakeholders are highly influential in providing evidence that has greater immediacy for policy transfers.
4	Many informal solutions/approaches on the ground reduce propensities for SPOF in climate resilience.



For in-diagram references, please see source document:
Miles et al., 2023. Evaluating Local Disaster Management in Sierra Leone (EVALDIS) Final Report 2023 No.1.

Practical Academic Insights

Adaptation, extreme weather and the events industry

Ben Crabb

Resilience Capability Lead, Emergency Planning College



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A Challenge for the Events Industry



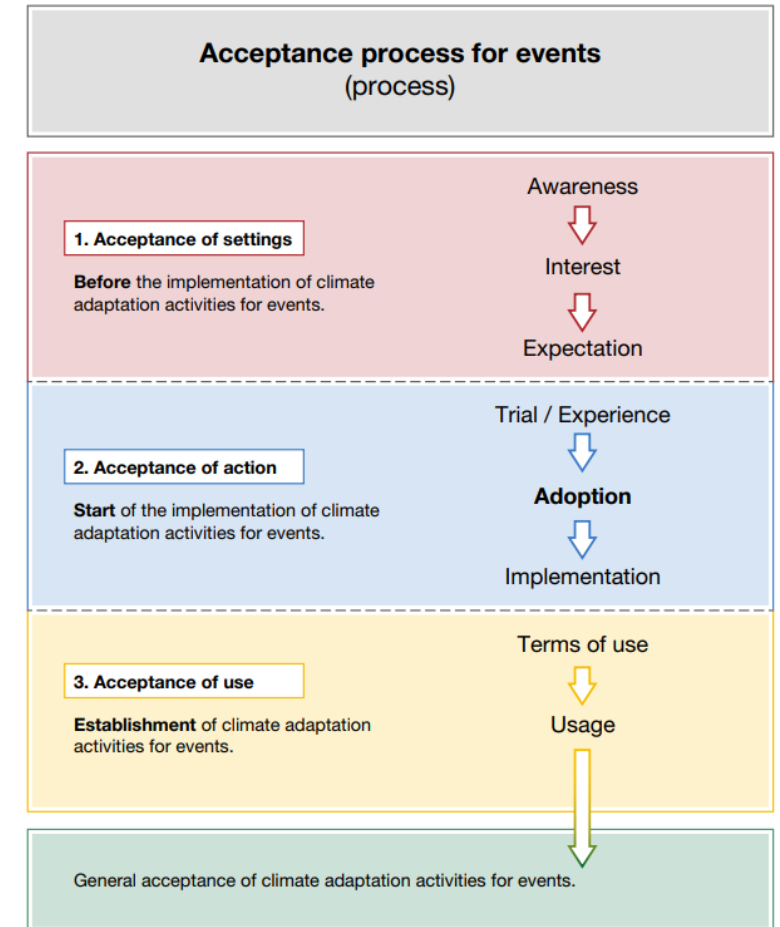
Academic Insight

Acceptance Process for Events

Acceptance of settings

Acceptance of action

Acceptance of use



Practical Tools and Levers



Make it active

- Consider risks to health in the event risk assessment e.g., heat (heat stroke/ exhaustion) or cold (hypothermia) and ways to mitigate and manage these. For example, provide adequate drinking water throughout and plan how you would increase shaded areas
- Check your local authority website for specific advice to event organisers
- Use and adapt the 'Acceptance process for events' – settings, action, acceptance to develop adaptation actions and build climate resilience
- Use advice from local authorities and government departments regarding adverse and extreme weather, incorporating them into your event safety management plans.
- Use fans views and data regarding their perception of climate change, alongside requirements for event risk management processes, to help motivate and progress adaptation action



Tools for Implementation

The Adaptation Toolkit from Local Partnerships

Rachel Toresen-Owuor

Senior Director – Climate, Local Partnerships



Local Partnerships



JOINTLY OWNED BY



HM Treasury



[Local Partnerships Website](#)



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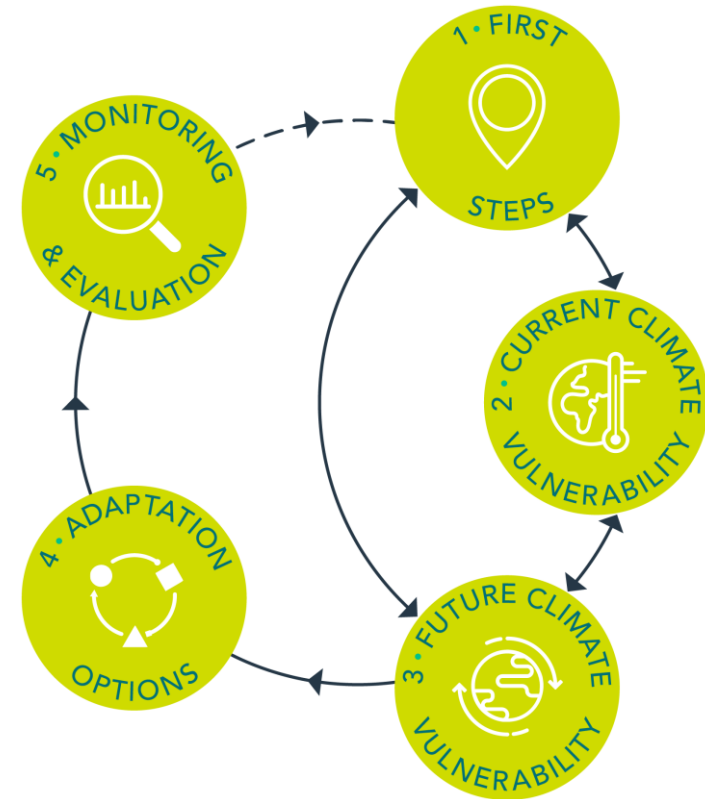
What are Local Councils Adapting to?

- Changes to weather and climate will impact the Council over the short, medium & long term
- The impacts pose varying levels of risk to services and assets across the Council
- Mitigating these risks requires changes to how the Council operates and makes decisions





The Climate Adaptation Toolkit

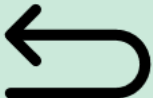




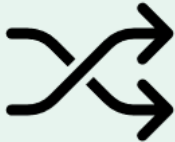




[Climate adaptation toolkit and risk generator \(localpartnerships.gov.uk\)](https://localpartnerships.gov.uk)





People and Place Examples

<p>Diverting attention and resources away from other issues</p> 	<p>Lack of funding to respond appropriately to climate related events</p> 	<p>Additional energy consumption required to both heat up and cool down</p> 	<p>Potential inability to access important services and buildings</p> 
<p>Additional costs</p> 	<p>Changing and/or redistribution of priorities</p> 	<p>Water shortages and supply issues</p> 	<p>Decrease in staff morale</p> 

Closure of courts due to extreme weather impacts vulnerable children (e.g., a child cannot be removed from a home without a court order)

Personal carers visits to homes – accessibility issues during extreme weather, increases visiting times, potential to recruit more staff, costs more money





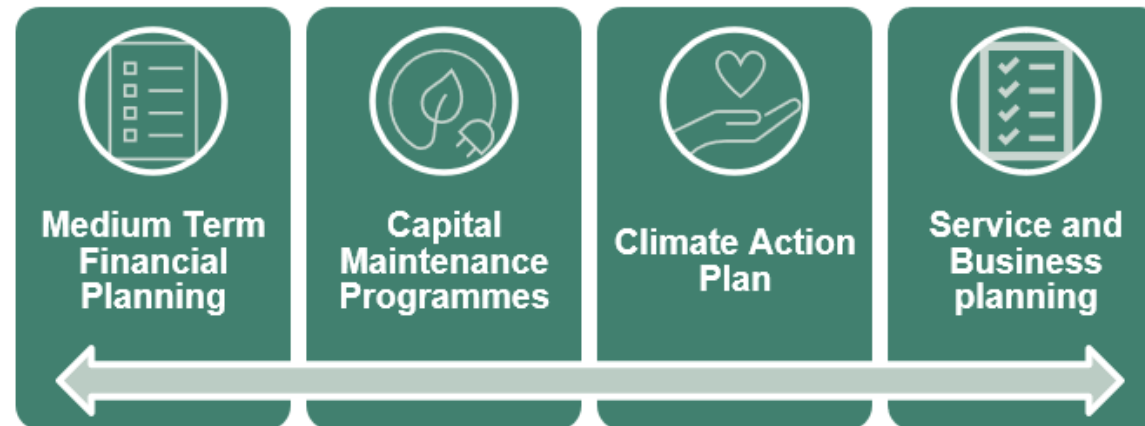
Types of Adaptation Strategy

Building Adaptive Capacity

- Gathering & sharing data and information
- Develop plans, policies and strategies

Delivering Adaptation Actions

- Accepting the impacts and bearing losses
- Avoid/reduce exposure (flood defences, change location, increase shade cover)



Q&A Panel

Contact us



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