Overview of the UK Climate Resilience Programme

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Climate risks
Characterising and quantifying climate-related risks to the UK

Climate adaptation
Managing climate-related risks through adaptation

Climate services
Working with partners to turn climate information and knowledge into action usable services

February 2019 to March 2023

£19m

UKRI

Met Office
UK Climate Resilience Programme - A Lasting Legacy

- **Enhanced capability and understanding of climate hazard and risk**
- **Step change in future climate change risk assessment capability**
- **Consistent set of UK socio-economic scenarios for national, regional and local risk planning and research**
- **Strengthened understanding of how people, organisations and policy are adapting**
- **Expanded community of interacting researchers, practitioners and policy-makers in climate resilience**
- **UK roadmap for the future development and implementation of climate services**
- **Synthesis of findings to provide updated national guidance standards, policy regulations and good practice**
Expanded community of researchers, practitioners and policy makers

- Newsletters, blogs, website, events, virtual fora, COP26, ongoing interactions with CCC and government
Producing a consistent set of socio-economic scenarios

Downscaled SSPs for the UK that is consistent with the global SSPs that underpin the sixth IPCC Assessment Report

Five different storylines to explain how the economy and society might evolve over the next 80 years
Strengthened understanding of how people, organisations and policy are adapting

Mobilising Adaptation: Governance of Infrastructure through Co-Production (MAGIC) Developing a community-led approach to reducing flood risk, whilst providing opportunities for flood-vulnerable urban residents to improve health and wellbeing, through better engagement with blue and green spaces.

Climacare: governing the climate adaptation of care settings
Understanding the human behaviour, organisational capacity and governance to enable the UK’s care provision to develop adaptation pathways to rising heat stress under climate change.
An enhanced capability and understanding of climate hazard and risk

Climate risk indicators: developed user relevant indicators of climate risk using UKCP18 to support risk assessments. The initial dataset includes metrics from sectors that include energy, transport, agriculture and health. Later work produced a web based delivery system for the results.

STORMY-WEATHER. This is using the latest climate projections from CMIP6 and UKCP18 to develop a new methodology to understand what drives changes in extreme rainfall and windstorms for different storm types. This is producing a set of physically plausible, high impact storm hazard storylines.
A step change in UK climate change risk assessment capability

Open Climate Impacts Modelling Framework (OpenCLIM): an advanced open modelling framework and nurturing a community of developers and users to ensure long term sustainability.

Applying catastrophe modelling approaches to climate risk assessment: Use of open source risk tools adapted for use with climate model data and event set sampling.
UK roadmap and tools for the future development and implementation of climate services

Climate service pilots

A standard for climate services

82 participants from 64 organisations across the UK

Towards a UK National Framework for Climate services