

# Providing user-informed guidance to support adaptation

**EMS Annual Meeting  
Berlin, 13 September 2011**



# Outline

- **Introduction to the UK Climate Impacts Programme (UKCIP)**
- **Overview of UKCIP guidance and support**
- **Lessons learnt through working with users on:**
  - **the adaptation process**
  - **the provision of specific tools and resources**
- **Concluding perspectives**

# Origins of UKCIP

## The UK Climate Impacts Programme (UKCIP)

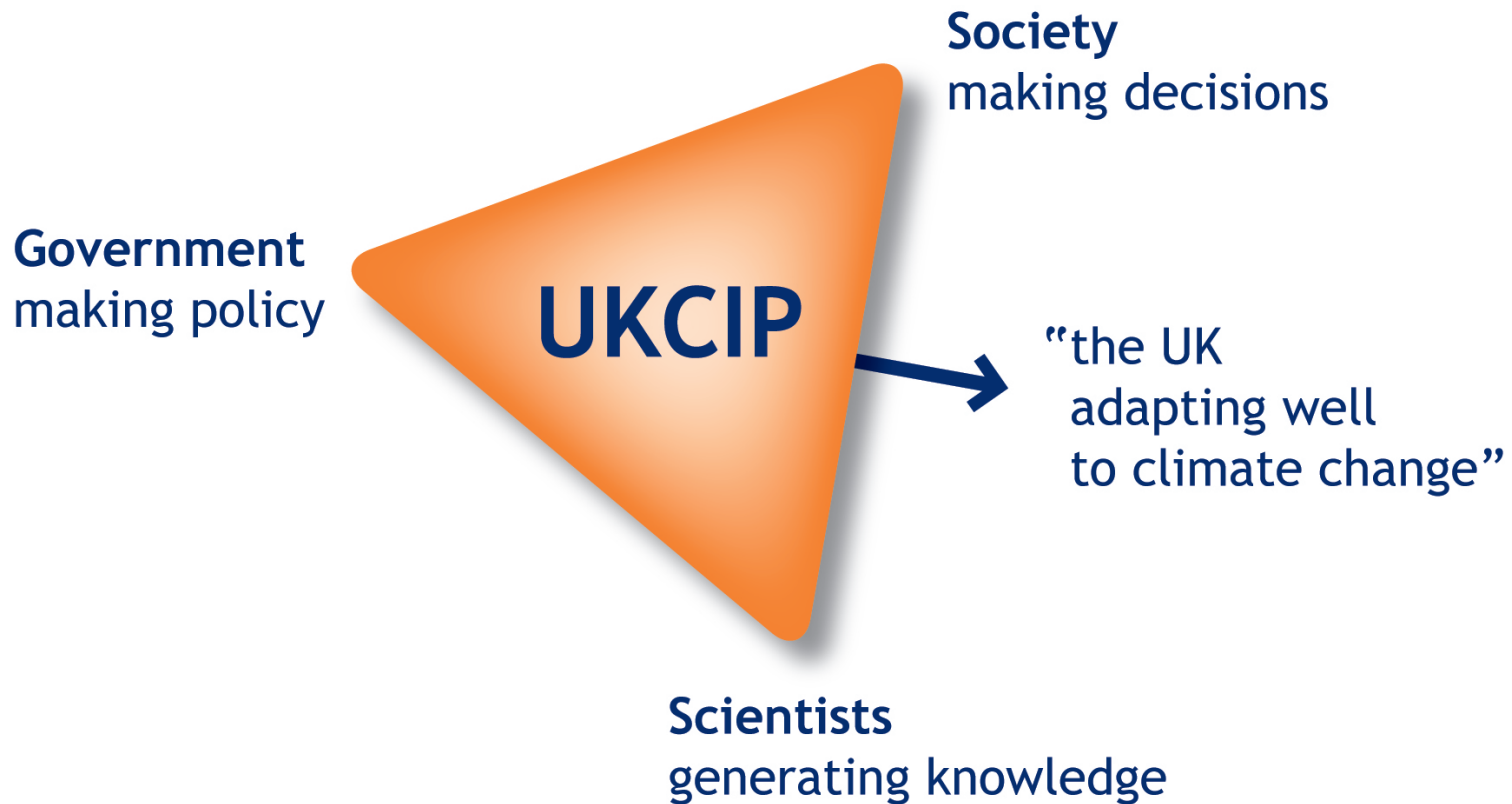
*“helps organisations adapt to inevitable climate change”.*

- Set up by UK Government in 1997
- Funded primarily by Defra
- Based at Environmental Change Institute, University of Oxford

## Why established?

- **Top-down research was not delivering information to facilitate decision-making on adaptation**
- **Previous research not integrated:** hard to draw conclusions about vulnerability of UK to climate change and set adaptation priorities

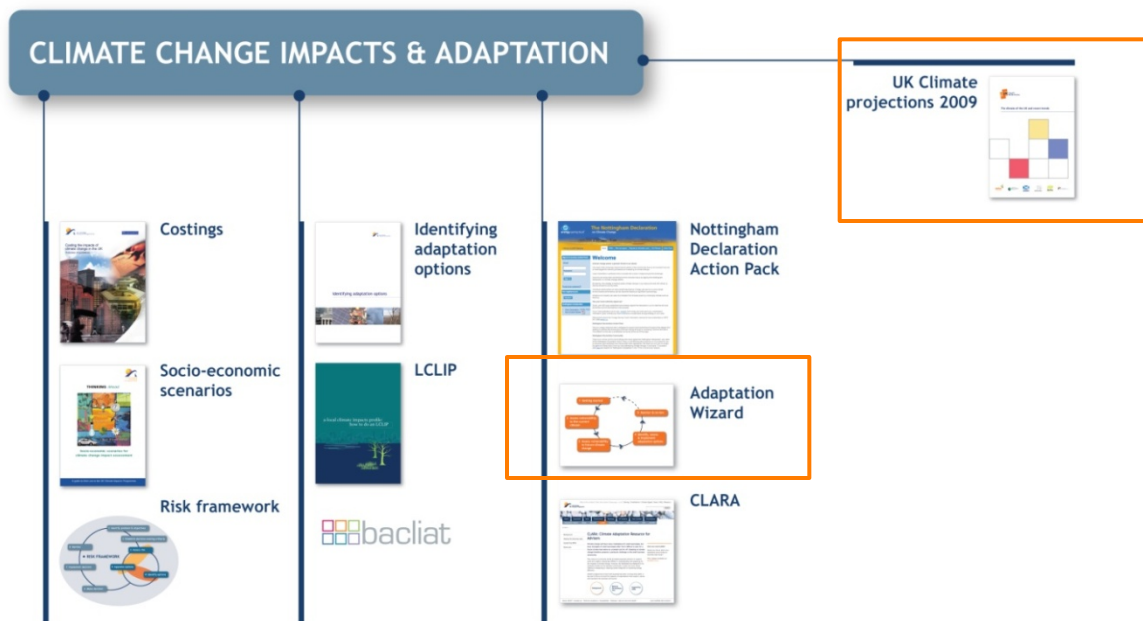
# UKCIP as a boundary organisation



# What support does UKCIP offer?

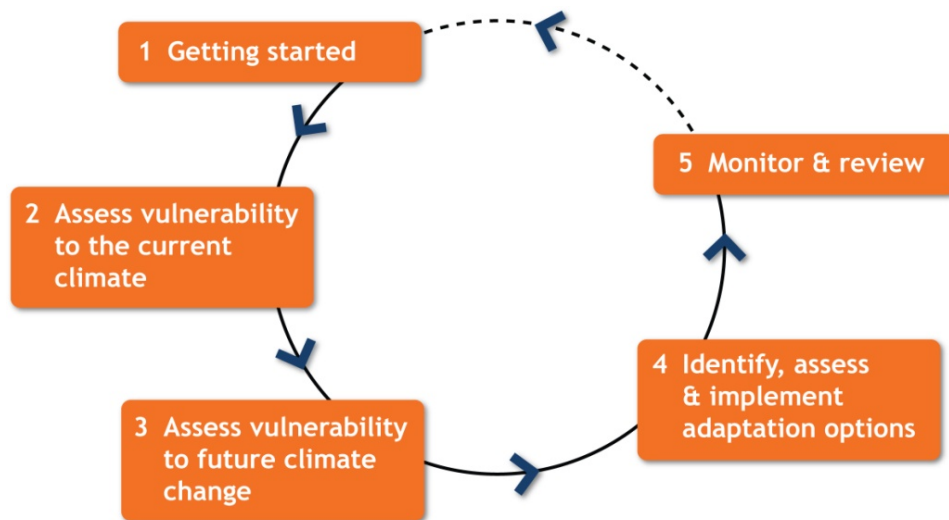
## UKCIP :

- Established stakeholder-led projects across sectors and regions
- Provides common tools, guidance and advice to support adaptation assessments
- Supports ongoing climate adaptation partnerships
- Builds capacity
- Communicates and disseminates findings



# What is the Wizard?

- An on-line tool to help organisations adapt to climate change
- Based on established risk assessment methods (Willows and Connell, 2003)
- Key features:
  - o Accessible language and presentation
  - o Practical: addresses **how** and **why** not just **what** to do (information, tasks, templates)
  - o Strong intellectual basis
  - o Interactive and participative
  - o Flexible, generic

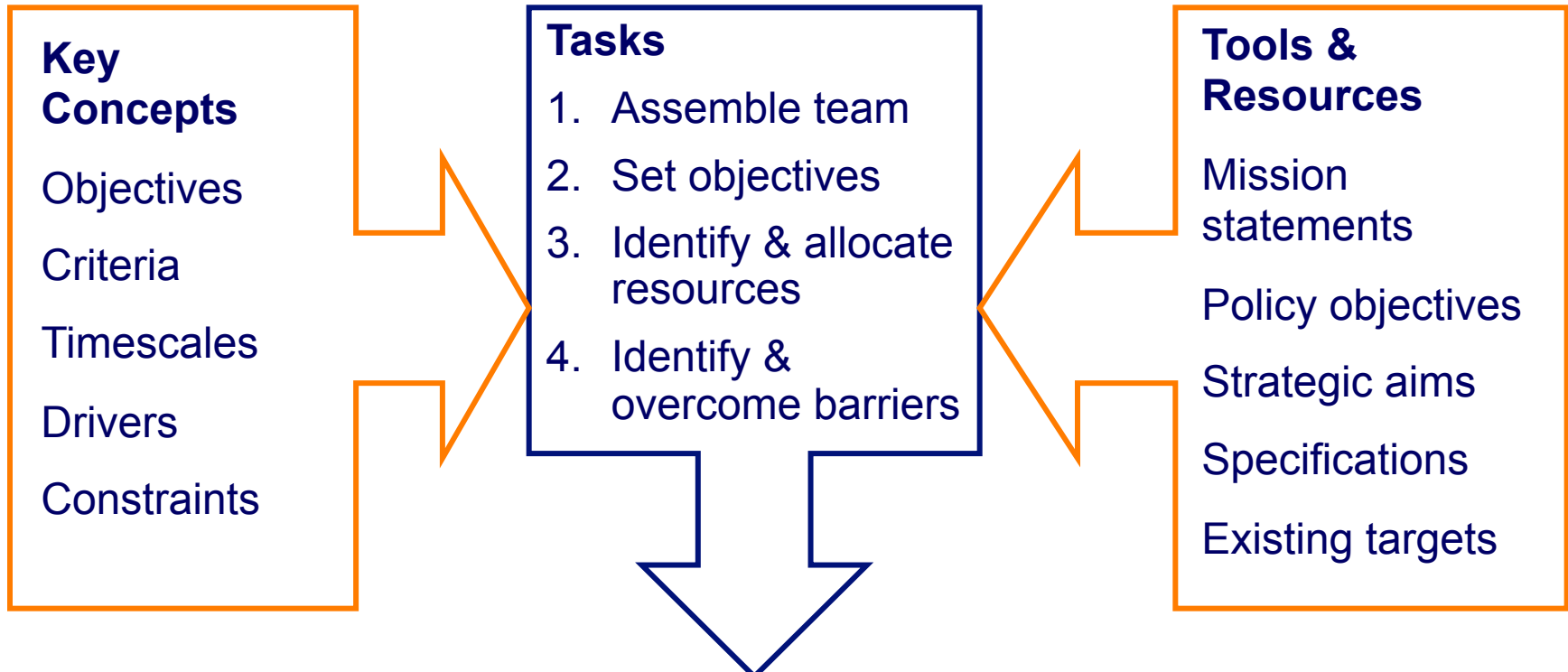


# Lessons learnt on adaptation process (1)

- **Climate risk assessments must be linked to a particular decision-making event or question** to result in practical actions on adaptation
- **Don't underestimate the importance of "Getting started"**
- **Scope the problem and set objectives:**
  - o what it is you really wish to achieve?
  - o what are your desired outcomes?
  - o eg: *"achieving my organisations key objectives in the face of changing weather and climate."*

# Step 1: Getting Started

*Step 1 helps you put in place all that is needed to work through the Adaptation Wizard and start helping your organisation to adapt.*

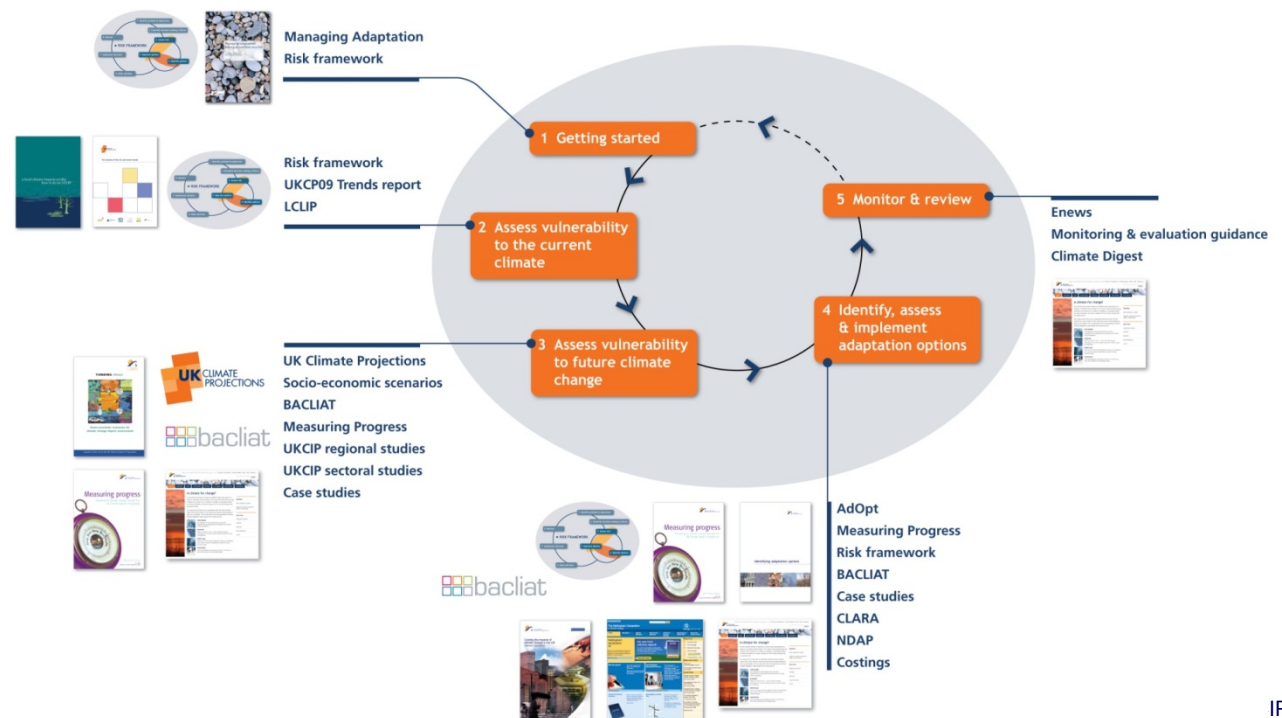


**Outcomes:** An effective team, an idea of what you want to achieve, resources to complete the process and means of overcoming barriers.



# Lessons learnt on adaptation process (2)

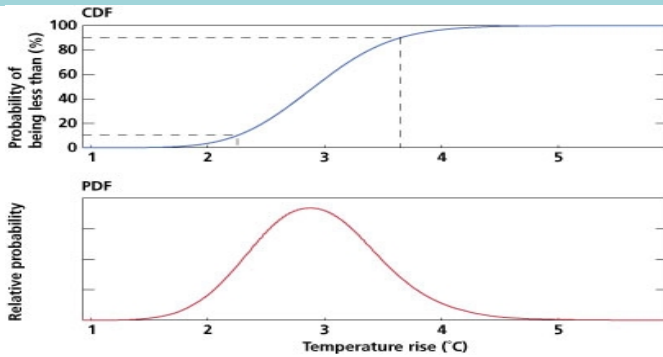
- **Anchor assessments in an understanding of your current vulnerability:** more tangible, helps assess current adaptive capacity
- **Do not start with the climate projections:** the climate science can be a major barrier to making progress on adaptation
- **Adaptation is iterative:** learn, monitor, evaluate



# UKCP09 (UK Climate Projections 2009)

- **Fifth generation of future climate information for UK**
- **Development and delivery closely informed by the user community**
- **Produced by a consortium led by the UK Met Office and funded by UK Government Department for the Environment, Food and Rural Affairs (Defra)**

# Development: responding to users requests



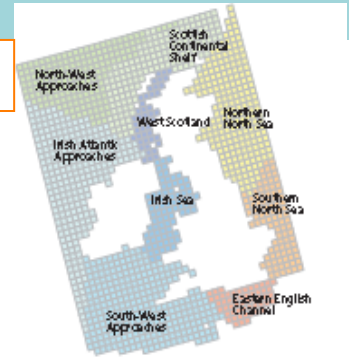
## Variables

Variable	Unit	Change	Temporal averaging
Mean daily temperature	°C	°C	Month, season, year
Mean daily maximum temperature	°C	°C	Month, season, year
Mean daily minimum temperature	°C	°C	Month, season, year
99th percentile of daily maximum temperature	°C	°C	Season
1st percentile of daily maximum temperature	°C	°C	Season
99th percentile of daily minimum temperature	°C	°C	Season
1st percentile of daily minimum temperature	°C	°C	Season
Precipitation rate	mm/day	%	Month, season, year
99th percentile of daily precipitation rate	mm/day	%	Season
Specific humidity	g/kg	%	Month, season, year
Relative humidity	%	% (of %)	Month, season, year
Total cloud	fraction	%	Month, season, year
Net surface long wave flux	W/m <sup>2</sup>	W/m <sup>2</sup>	Month, season, year
Net surface short wave flux	W/m <sup>2</sup>	W/m <sup>2</sup>	Month, season, year
Total downward short wave flux	W/m <sup>2</sup>	W/m <sup>2</sup>	Month, season, year
Mean sea level pressure	hPa	hPa	Month, season, year

## Uncertainty

## Marine

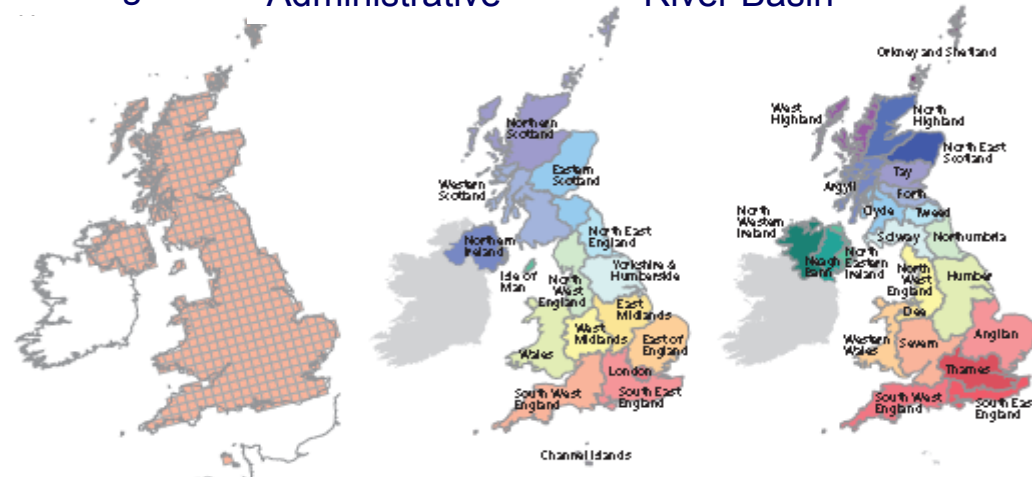
## Spatial resolution



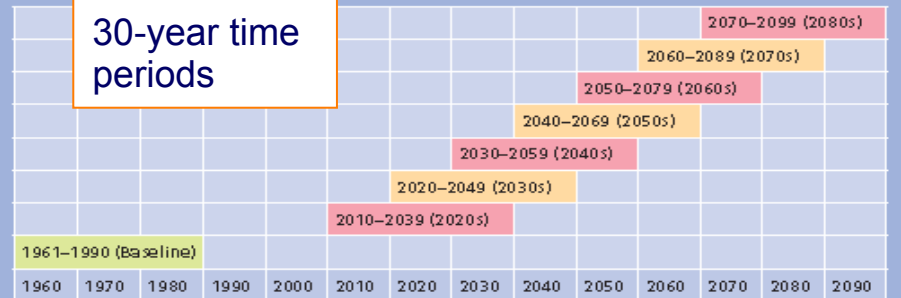
## 25 km grid

## Administrative

## River Basin

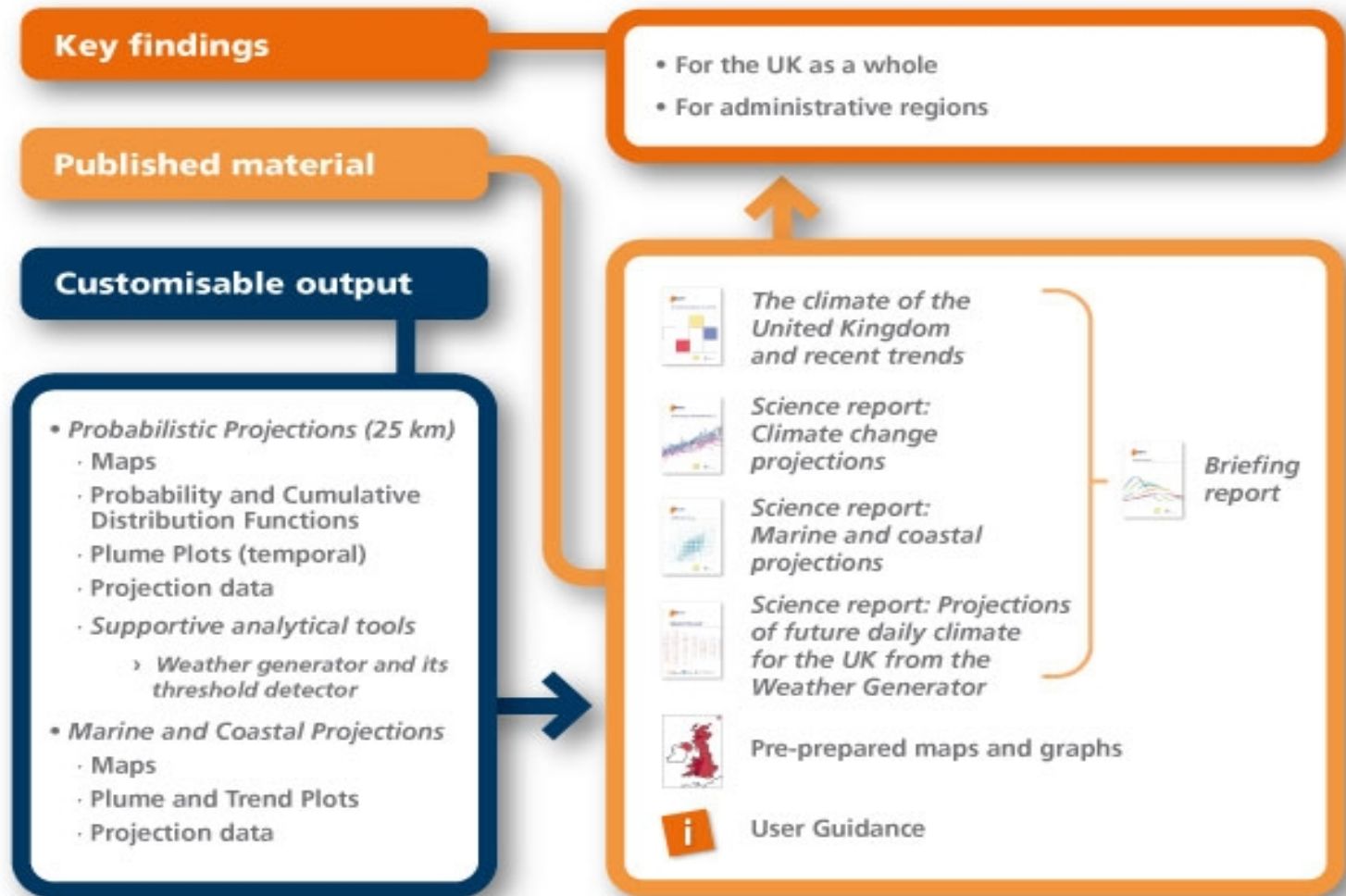


## 30-year time periods



## Temporal resolution

# Delivery: responding to users requests



# Ongoing support for UKCP09

**Delivery of the tool (or product) is just the start** – ongoing dialogue and collaboration is needed to ensure users needs are met

## **UKCP09 supported by.....**

- **User guidance:** address sections that users find complex, FAQs and how not to use
- **Case studies of use:** in response to demand
- **Helpdesk:** phone and email enquiries answered
- **Online Forum:** helps connect users working on similar issues
- **Training:** e-learning, webinars, training workshops
- **Users workshops:** feedback on advantages and limitations of UKCP09 to feed into further development of user guidance

# Concluding perspectives

- **Information alone does not lead to action**
- **Know your users and their evolving requirements:** varied, relevant, simple
- **Engage users from the outset and throughout**
- **Manage the tension between accessibility and completeness:** understand trade-offs and make appropriate choices
- **Even the simplest tools require support:** advice, guidance, training and case studies all facilitate engagement and use of tools
- **There is no ‘one size fits all’ :** tailoring is essential – generic v specific
- **Match information and methods to the problem at hand**

**Decision-relevant guidance and support cannot be developed without close collaboration with users**



# [www.ukcip.org.uk](http://www.ukcip.org.uk)

