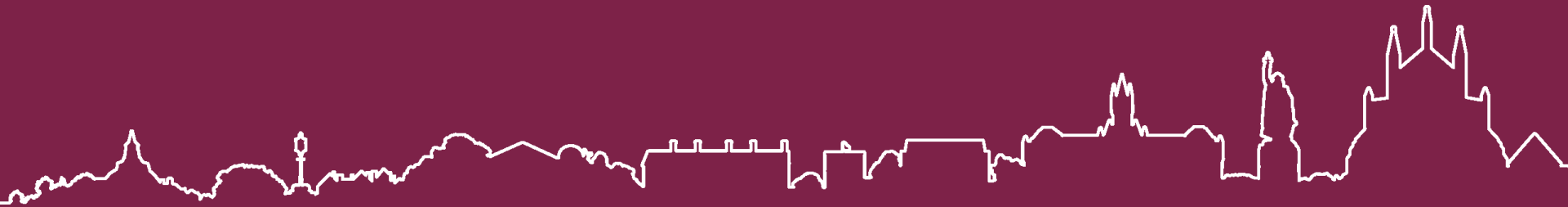


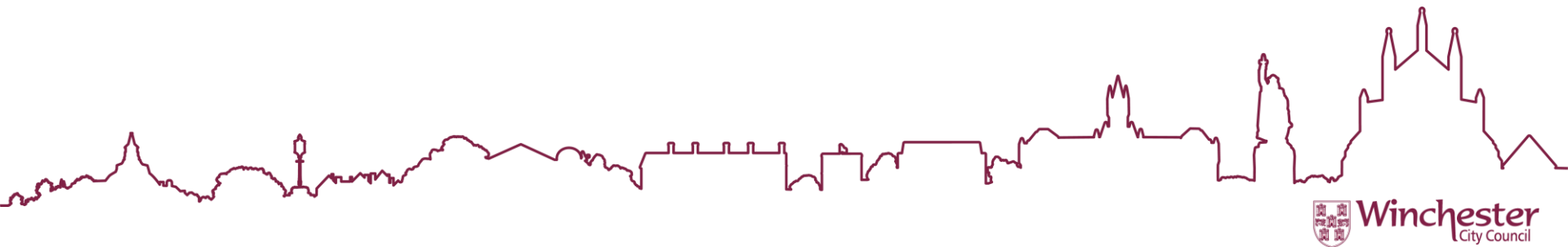
Climate Adaptation

**HEP Committee
2 December 2025**

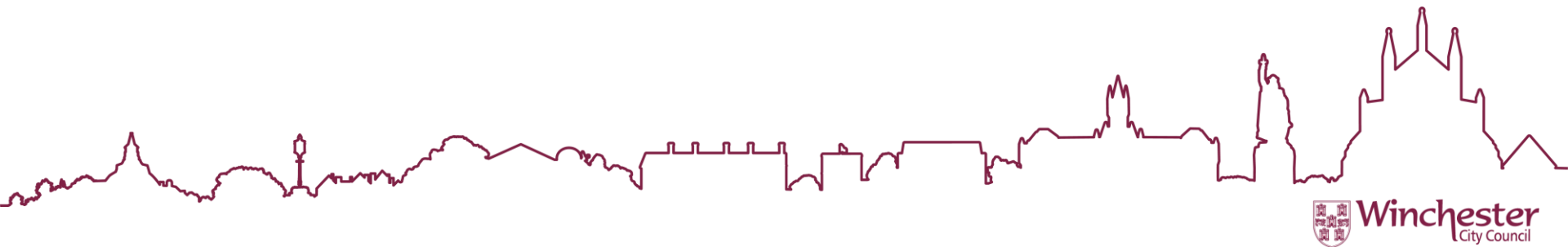


CONTENTS

1. Introduction to Climate Adaptation
2. Climate Risk and Vulnerability Assessment (CRVA)
3. Input from HEP Committee



1. Introduction to Climate Adaptation



WHAT IS CLIMATE ADAPTATION?

Climate action is approached in two main ways:
Mitigation and Adaptation



MITIGATION ACTIONS

AIM TO:

reduce the severity of
climate change

HOW?

reducing greenhouse gas
emissions

VS.

ADAPTATION ACTIONS

AIM TO:

prepare for the impacts of
climate change

HOW?

understand how you are at
risk and make a plan



Winchester
City Council

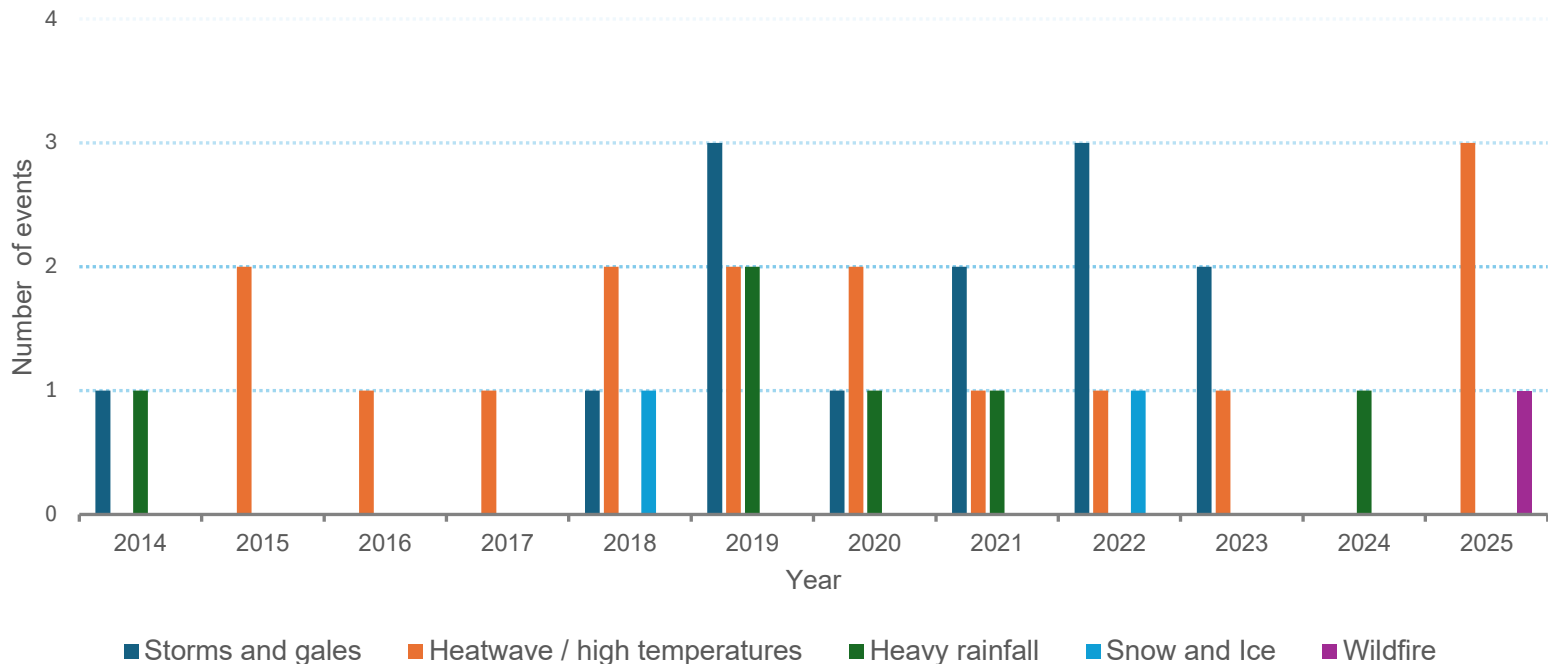
PAST EXTREME WEATHER EVENTS IN WINCHESTER

How has the climate changed in Southern England?



Winchester is located within the Southern England climate region, where temperatures have increased (1884-2023), with many of the hottest years occurring in the last few decades

Number of extreme weather events in Winchester District



PAST EXTREME WEATHER EVENTS



2014 – Park Avenue in
Winchester flooded



August 2020
Winchester High street
Flash flooding



July 2025
Hursley wildfire



FUTURE CLIMATE CHANGE IN THE UK



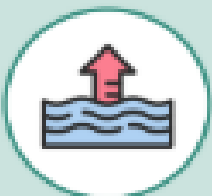
There is an increased chance of **warmer, wetter winters and hotter, drier summers.**



Hot summers are expected to become more common. By 2050, every other summer may be as hot as the record breaking summer of 2018.



Although the trend is for drier summers in the future, there may be increases in the intensity of heavy summer rainfall events.



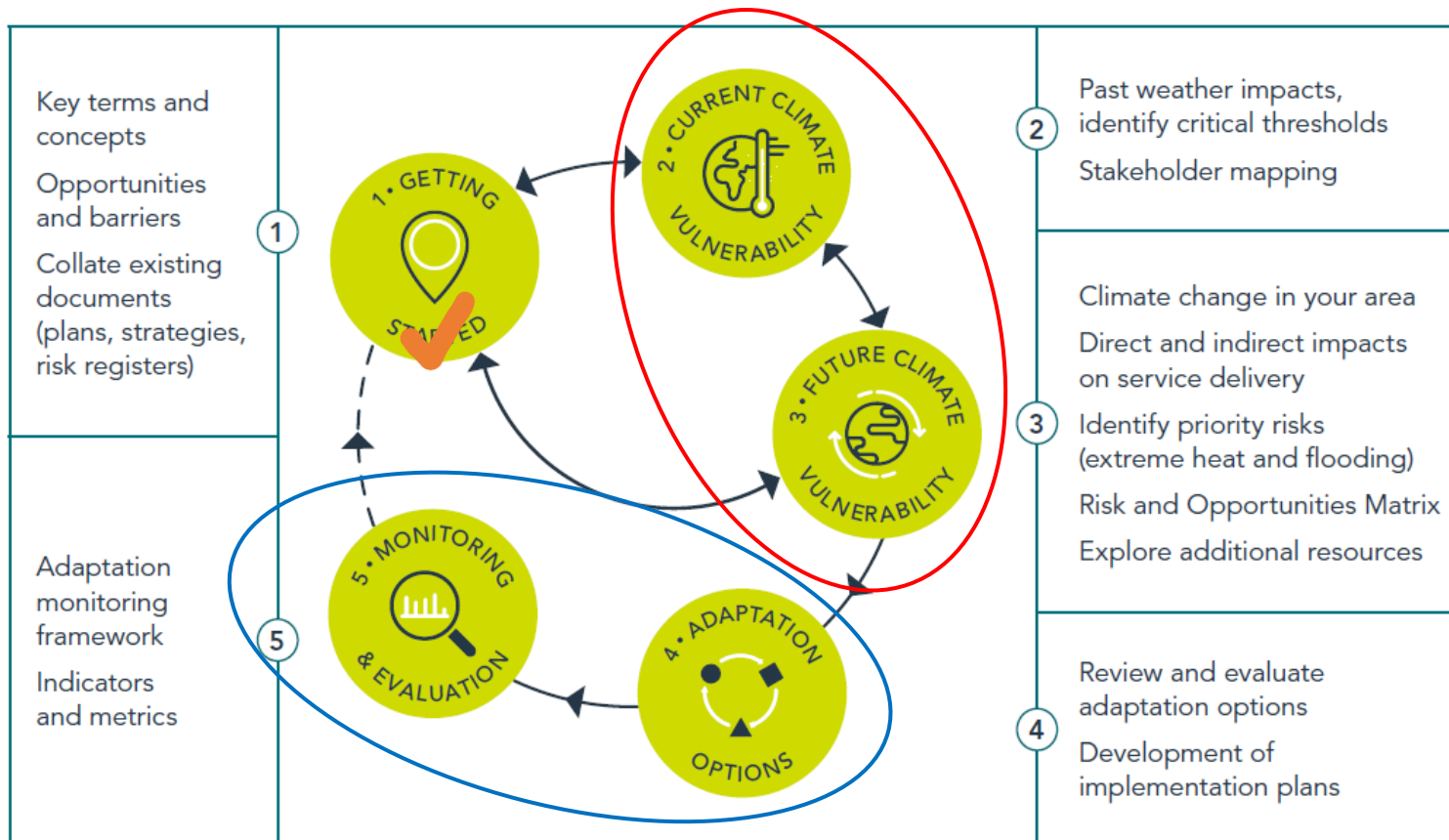
Sea level will continue to rise in the 21st century even if greenhouse gas emissions are reduced rapidly.

2. Climate Risk and Vulnerability Assessment (CRVA)



5-STEP FRAMEWORK

CLIMATE RISK & VULNERABILITY ASSESSMENT



Local Partnerships' Climate Adaptation Toolkit Risk and Opportunities Matrix

ACTION PLAN

IDENTIFYING AND ASSESSING RISKS

 **61 risks** identified in UK's Third Climate Change Risk Assessment (CCRA3):


 Business and Industry (7)

 Health, Communities and the Built Environment (13)

 Infrastructure (13)

 **International Dimensions (scoped out) (10)**

 Natural Environment and Assets (14)

 CRVA assesses ways in which **council** may be affected by climate risks and impacts, as well as **residents, communities, businesses, and infrastructure** beyond the council's control.

STEP 1/2: CLIMATE RISK SCREENING

Screening process

Risk Type	Risk ID	Risk / Opportunity	Scoped in / out of CRVA	Reason for scoping out
Business and Industry	B01	Risks to businesses from flooding	In	N/A
	B02	Risks to businesses and infrastructure from coastal change from erosion, flooding and extreme weather events	Out	Not applicable to Winchester
	B03	Risks to business from water scarcity	In	N/A
	B04	Risks to finance, investment and insurance including access to capital for businesses	In	N/A
	B05	Risks to business from reduced employee productivity due to infrastructure disruption and higher temperatures in working environments	In	N/A
	B06	Risks to business from disruption to supply chains and distribution networks	In	N/A
	B07	Opportunities for business from changes in demand for goods and services	In	N/A

Shortlisted risks to be reviewed during validation session(s)

STEP 3: DETAILED CRVA

Use **council's risk matrix**, to assess likelihood and impact of risks

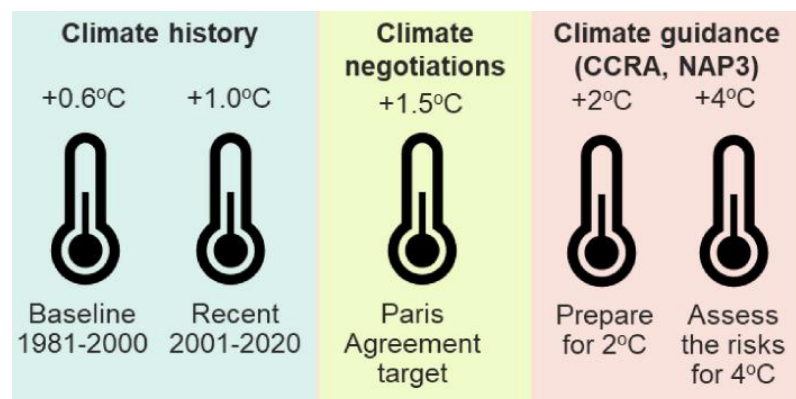
Use existing data (geospatial, quantitative, qualitative) and tools to assess the likelihood/impacts of risks:

[Met Office Local Authority Climate Service \(LACS\)](#) - access to climate data from UK Climate Projections 2018 (CP18) at the local level

[Local Climate Adaptation Tool \(LCAT\)](#) - how local climates will change; what health and community impacts may occur as a result; and who will be most vulnerable and why

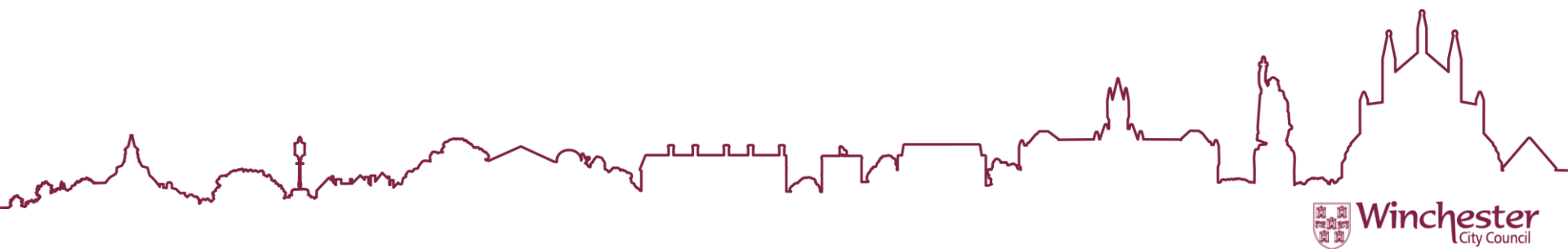
CRVA considers both present-day and future climate impacts considering two future scenarios (2°C/4°C)

		IMPACT			
		Low (1)	Moderate (2)	Major (3)	Significant (4)
LIKELIHOOD	Highly Likely (4)				
	Likely (3)				
	Unlikely (2)				
	Highly Unlikely (1)				



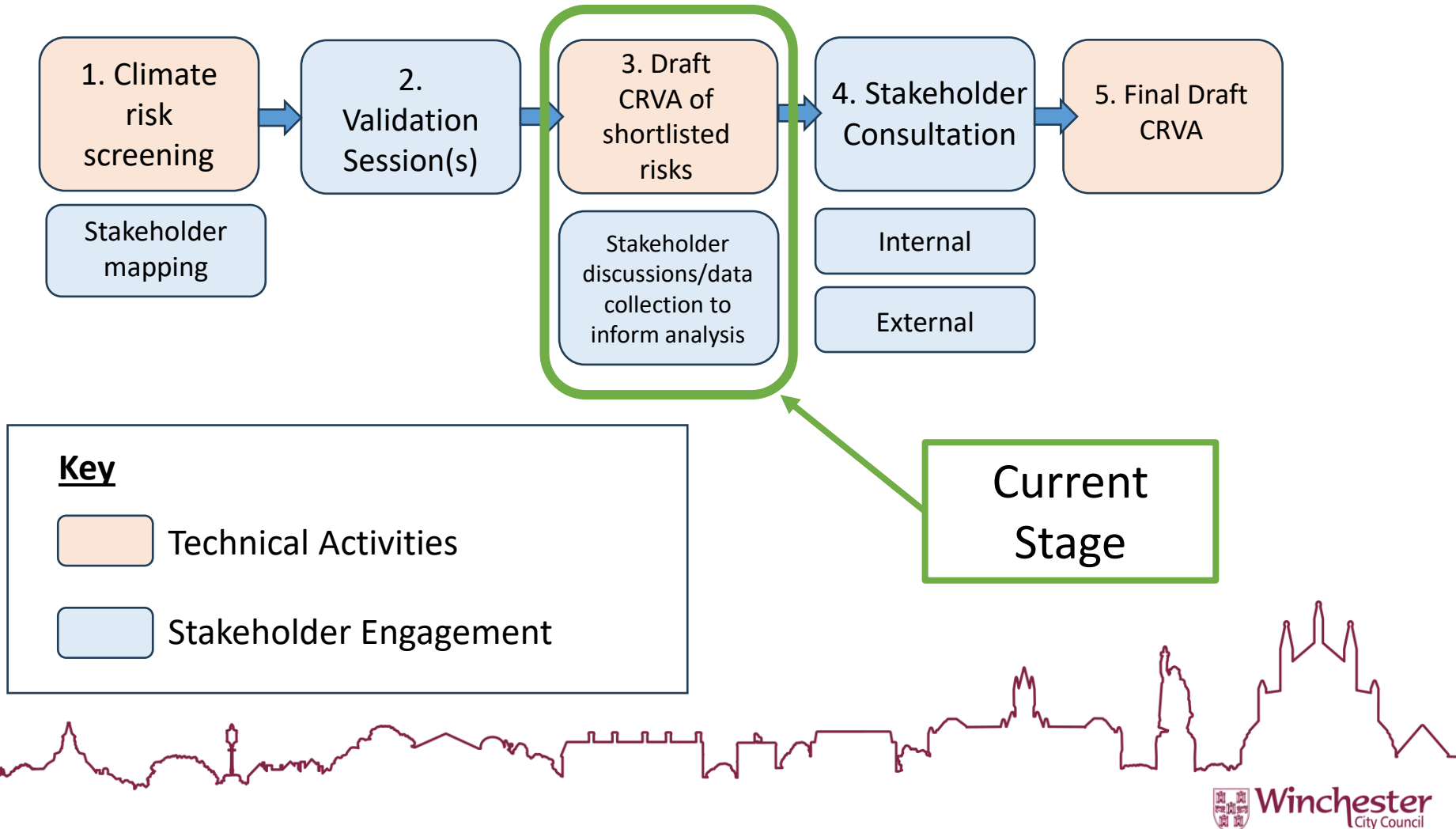
EXAMPLE OF CVRA RISK ASSESSMENT FOR WINCHESTER

				Present day risk score 2025	Future risk score (2050s)		Future risk score (2080s)	
Category	Risk ID	Risk / Opportunity	Climate variable	Based on council risk matrix	2C	4C	2C	4C
Business and Industry	B01	Risks to businesses from flooding	Ground water flooding	4	8	12	12	16
			Flooding from rivers and the sea	3	6	8	9	12
			Surface water flooding	8	9	12	12	16

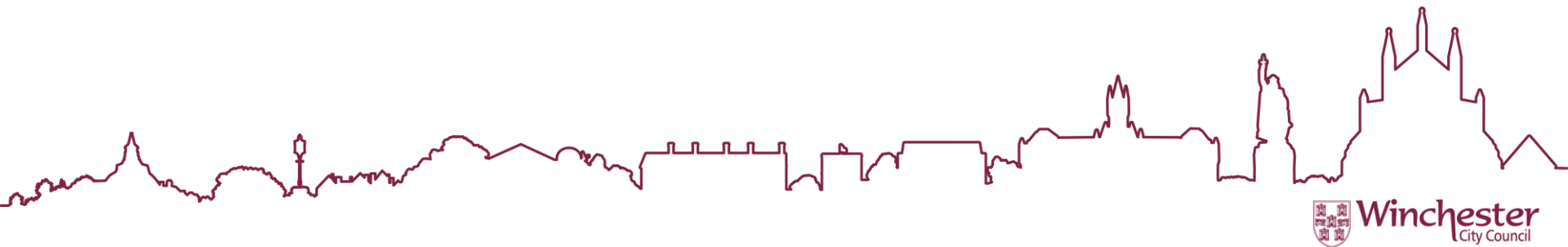


CLIMATE RISK & VULNERABILITY ASSESSMENT (CRVA) APPROACH

The CRVA will follow a five-stage approach:



3. Input from HEP Committee



INPUT FROM HEP COMMITTEE

The HEP Committee are asked to provide feedback on the following areas which will help to inform and shape the CRVA:

1. Which climate risks do you believe will have the greatest impact on the Winchester district?
2. Which council services do you believe will be most impacted by climate change in the future?
3. Which residents, communities and businesses are most vulnerable to climate hazards such as flooding, heatwaves etc.?
4. Are there any other key external stakeholders that we should engage with to inform the assessment?

