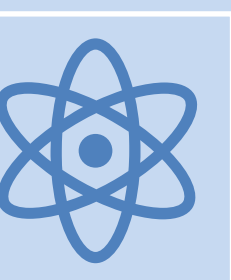


Developing a participatory future-proofing framework for resilient water governance in Scotland

1. Background

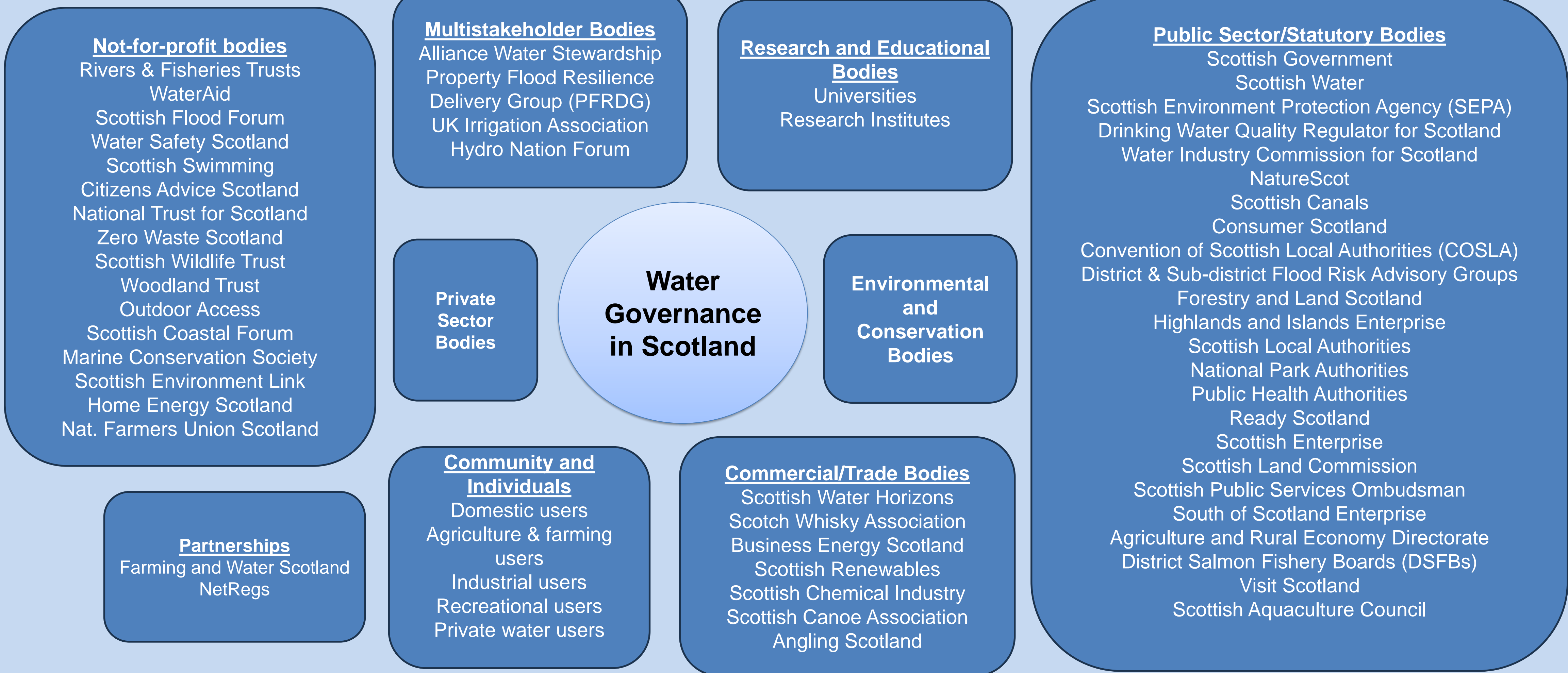
Water Governance:  
A Wicked Problem

 **Complexity**

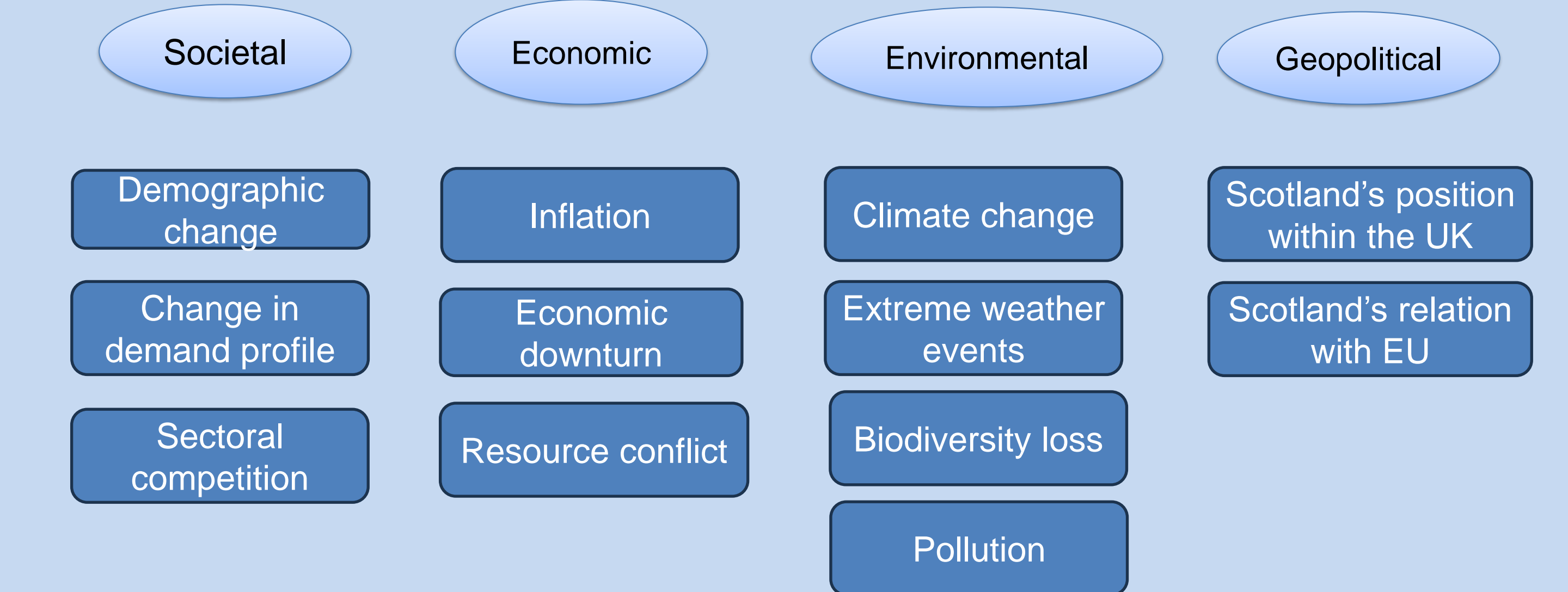
 **Diversity**

 **Uncertainty**

2. Water Governance Stakeholders



3. Uncertainties & Risk Factors



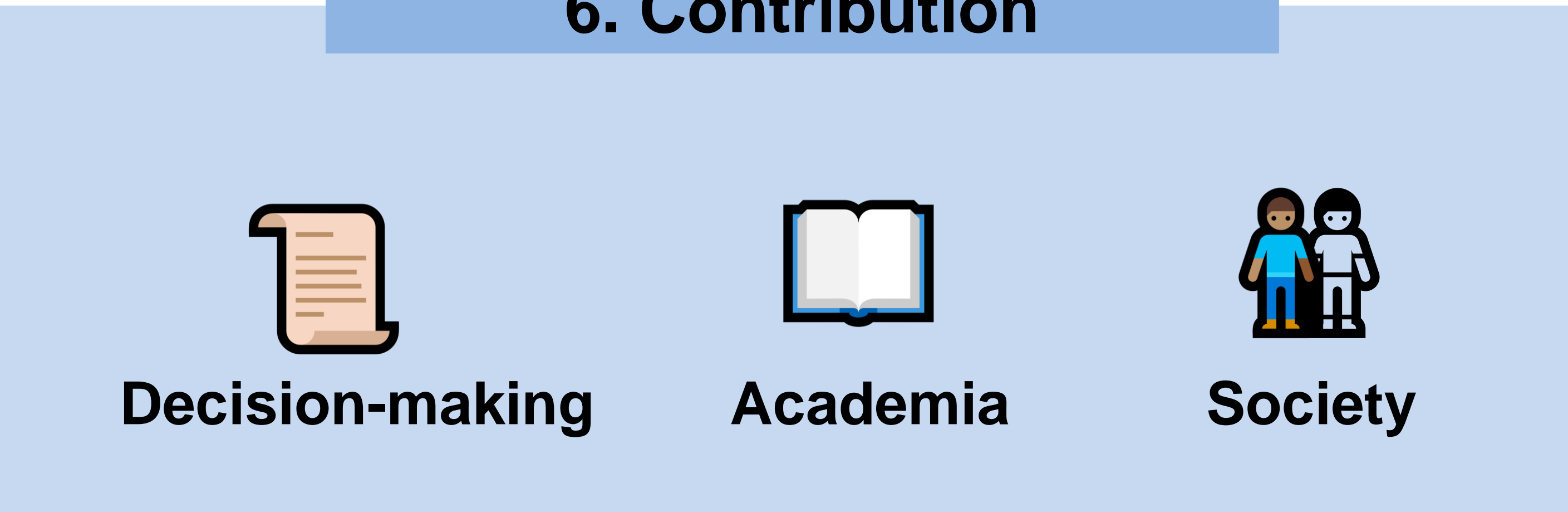
4. Objectives

- Define and analyse the water governance components for Scotland
- Map key stakeholders and interrelationships
- Co-develop plausible future scenarios informed by socio-economic, environmental & geopolitical trajectories—with potential risks
- Assess the resilience and robustness of the system
- Devise strategies to make the system adaptive to shocks & uncertainties.

5. Project Plan

Framework Development	Stakeholder Analysis	Scenario Building	Stress-testing
Defining the system Identifying the elements and their interconnectedness	Interest-influence matrix Actor-linkage matrix	Exploratory Scenario Planning <ul style="list-style-type: none"><li>• <i>Business as usual</i></li><li>• <i>Changes with low disturbance</i></li><li>• <i>Changes with high disturbance</i></li><li>• <i>Massive and abrupt changes</i></li></ul>	Assessing the resilience and robustness of the system
Literature review Expert interviews	Semi-structured interviews Content analysis & WCM Stakeholder workshop	DELPHI Historical data analysis Scenario workshop	Data analysis Strategy workshop

6. Contribution



7. References

- ❑ Brown, I. et al. (2015) 'Identifying robust response options to manage environmental change using an ecosystem approach: a stress-testing case study for the UK', *Environmental Science and Policy*, 52, pp. 74-88.
- ❑ Kramer, K. et al. (2022) 'Roadmap to develop a stress test for forest ecosystem services supply', *One Earth*, 5(1), pp. 25-34.
- ❑ White, C. et al. (2017) 'Developing and piloting a UK Natural Capital Stress Test: Final Report', AECOM and Cambridge Econometrics for WWF-UK.

