Research Review of Climate Change and Heritage

Historic England and JBA Consulting

www.jbaconsulting.com   Emily.Prtak@jbaconsulting.com   24.01.2024

THANK YOU TO ALL THOSE WHO HAVE MADE VALUABLE CONTRIBUTIONS TO THIS PROJECT THROUGH THE SURVEYS AND INTERVIEWS.

Aims and scope

1 Research developing models and assessing long-term impacts of climate change on heritage

2 Research on the impact on heritage of flooding and coastal erosion and our responses to these

3 Research on climate change and its potential impact on intangible heritage

4 Research to inform best practice methods of maintenance, repair and adaptation (and maladaptation) of the historic building stock, including retrofit and energy performance, to meet challenges of climate change

5 Research on heritage, embodied carbon comparative carbon accounting in relation to historic assets

6 Research on the role of historic land- and sea-scapes in carbon sequestration and offsetting

Photo taken during JBA Quinquennial survey of Linney Head Camp, Castlemartin, Pembrokeshire

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This project will contribute to HE's priority no 4 from the Corporate Plan on Climate Action. HE will respond to this priority by "Commission, undertake and share research to **improve adaptation options**, and to better **understand the threats and risks to heritage from climate change and responses to it**".

This project will work to identify and review ongoing/recent/planned research that relates to this **so that HE can prioritise its research focus over the next 2 years and make sure commissioned work/research is complementary to the current research landscape**. **The 6 HE research areas (on slide) will be used to categorise identified research.** The aim is to identify strengths and gaps within the research landscape, as well as who is undertaking and funding this work.
Scope: research by public bodies, research institutions and charitable organisations across the UK. Started within the last 5 years or completed/published within the last 5 years.

Desk-based research
       Identify potentially relevant organisations
       Targeted searches of key organisation websites
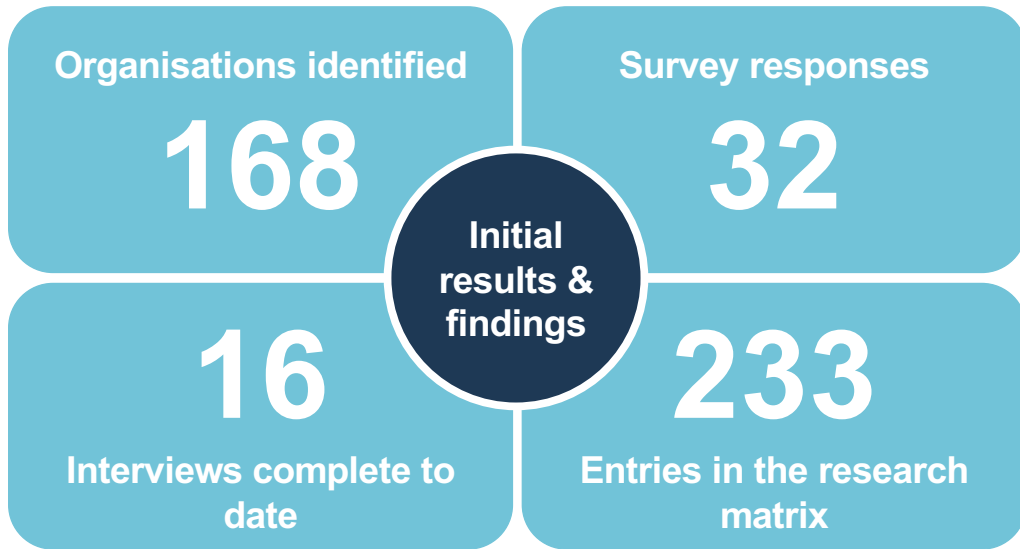   UKRI database review – using coding and key word search terms to identify relevant research
       Review of research funded through non-UKRI organisations
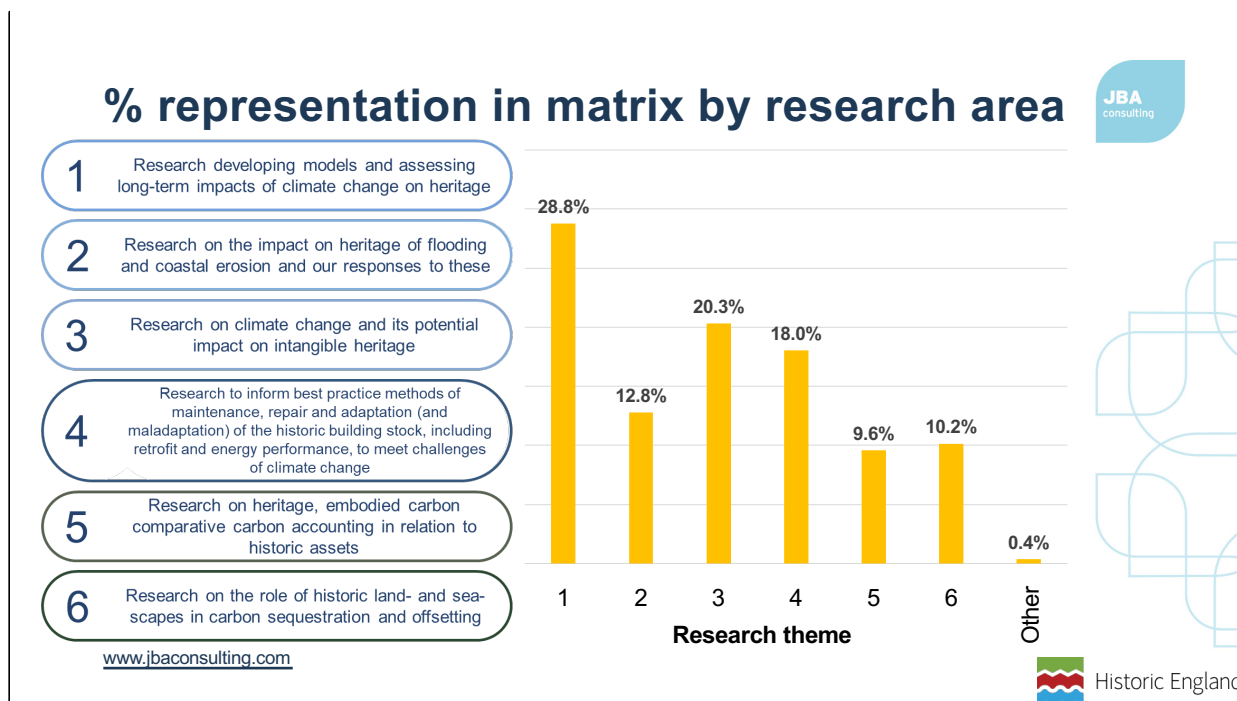Online survey tailored to the matrix
Targeted telephone interviews
Creation of research matrix
Final report to be published in the HE Research Reports series, including case studies for each theme.

Organisations identified
168

Survey responses
32

Initial results & findings

16
Interviews complete to date

233
Entries in the research matrix

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Where are the strengths? Where are the gaps?

Area 2 underrepresented compared to 1, although lots of research relevant to 2 may be carried out under theme 1 as part of wider programs.
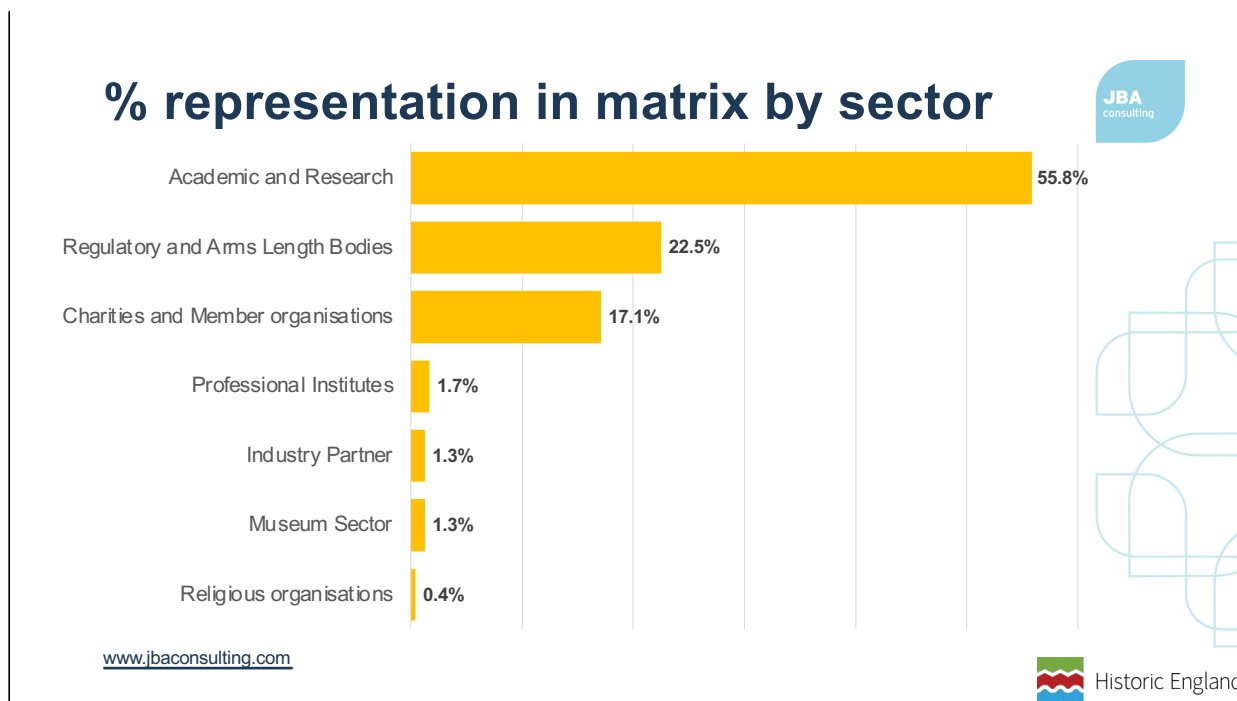
Area 3 is surprisingly high – due to research that is looking to engage communities and community memory within increasing climate resilience. There isn't much work explicitly on loss of intangible heritage that we have found.

Area 4 is lower than when we first undertook this analysis – likely due to the addition of the UKRI results.

Areas 5 and 6 are lacking – likely a problem of the scope of the themes? There is a lot of research ongoing in peatland/native woodland carbon sequestration but not explicitly 'tagged' as heritage relevant research.

Things to consider:
- Lots of research ongoing that is relevant to climate change and heritage that may be relevant but isn't identified as such

% representation in matrix by sector

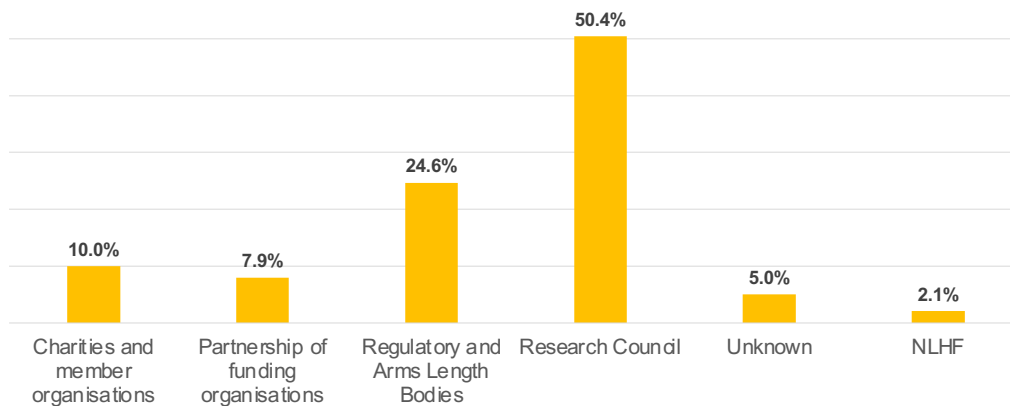| Sector	%
Academic and Research	55.8%
Regulatory and Arms Length Bodies	22.5%
Charities and Member organisations	17.1%
Professional Institutes	1.7%
Industry Partner	1.3%
Museum Sector	1.3%
Religious organisations	0.4%

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Limitations of data collection – UKRI dataset will skew results, but that is a finding in itself – finding/collecting research funded through research councils is easier.

We know that regulatory and arms length bodies are likely doing lots of work on this, but their research and outputs are often harder to find in comparison to research funded through research councils. Same goes for charity and member organisations (National trust falls in this category).

Other sectors such as museums may be underrepresented due to the nature of the research they're doing. Doesn't capture research by much smaller organisations looking at a smaller scale such as museums looking at impacts on their specific building/asset, that is applicable to other assets. How do we capture that? Are museum groups capturing it?

% representation in matrix by funding body

Charities and member organisations	Partnership of funding organisations	Regulatory and Arms Length Bodies	Research Council	Unknown	NLHF
10.0%	7.9%	24.6%	50.4%	5.0%	2.1%

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Bear in mind 50% of matrix is from UKRI data. Again, highlights the limitations of the method, **although is also a finding in itself**.

- ad hoc research not captured: Not all research is funded and a lot of it is piecemeal and ad-hoc it is done because it has to be (to avoid heritage loss) and is therefore difficult to identify. E.g. National Trust does a lot of property level work.

- UKRI data bias: 50% of matrix is from UKRI data.

- doesn't capture ad hoc research by much smaller organisations or by those working within government/arms length bodies who do this research on top of their required role

Thoughts and questions

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There is a lot of research relevant to climate change and heritage that isn't identified as such.

There is a lot of research ongoing that is unfunded or not within a formal research project.

? How do we capture ad-hoc research and research that isn't explicitly "tagged"?

Lots of analysis still to do – is there a difference in which sectors fund which research themes?

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Final things to think about:

How do we capture this research?

How do we avoid duplicating effort?

How do we strike a balance between making sure we're aware of the research but also focusing effort on filling gaps and doing new research?

Lots of analysis still to do – is there a difference in which sectors fund which research themes?

Thank you

Emily Prtak

Emily.Prtak@jbaconsulting.com

Heritage and Climate Change:
Ongoing Research Questionnaire

www.jbaconsulting.com

Emily.Prtak@jbaconsulting.com