

Developing a new mapping tool to assess beaver impacts: The Beaver Impact Assessment Toolkit (BIAT)

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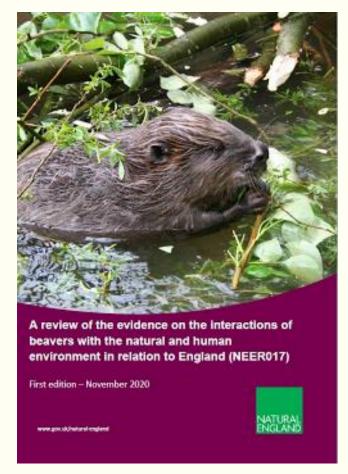
Purpose and Background



Purpose: The BIAT has been designed to help you identify possible considerations that beaver activity might impact across England and explore areas of habitat suitability.

- Natural England Evidence Review identified considerations that beavers might impact
- Data layers sourced for considerations
- Pulled into an AGOL tool to with initial assessments for areas of interest
- Assist in supporting beaver reintroductions across England

Use alongside local knowledge, expert judgement, and scientific literature.



Considerations

Designated sites	Habitats and Species Considerations	Hydrological Considerations	Infrastructure Considerations	Land Use Considerations
AONB	Orchards and Deciduous Woodlands	Reduction in Risk of Flooding from Rivers and Sea due to Defences	National Grid Infrastructure	Best Most Versatile Land
NNR	Ancient Woodland	Internal Drainage Districts	Channels and Culverts	Historic Landfill Sites
Ramsar	Chalk Rivers	Groundwater Recharge Potential	Water Control Structures	Urban Areas
SSSI	Salmonid Migratory Waterways	Modified and Artificial Water Bodies	Spatial Flood Defences	Mines and Quarries
SAC	Freshwater Pearl Mussel Catchments	Consented Discharges to Controlled Waters	Railways	
SPA		Nitrate Vulnerable Zones	Roads	
		Rivers	National Heritage Sites	
			Public Rights of Way	

Basemap

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Beaver Impact Assessment Tool (External)

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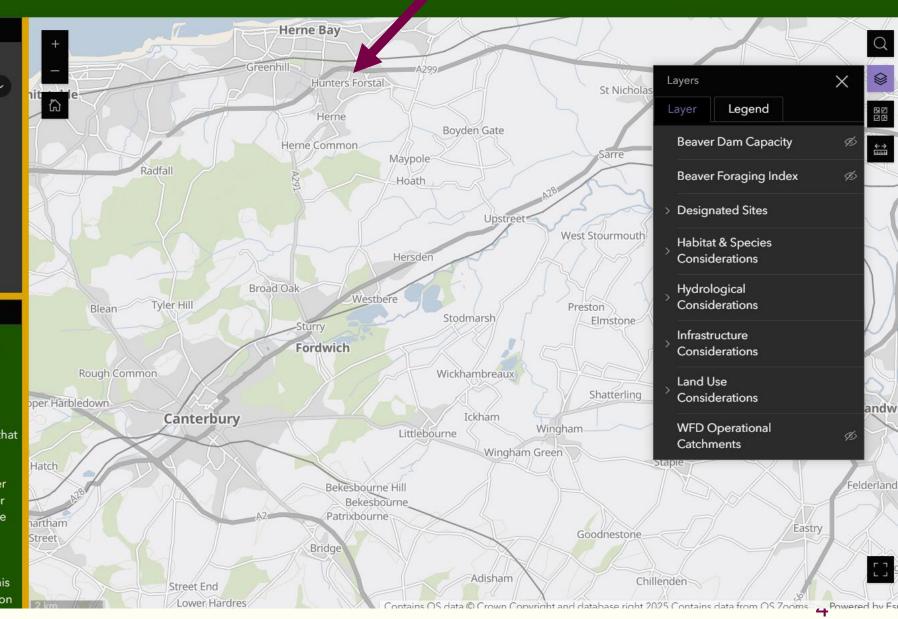


Outputs and screen sharing of this version of the tool can be safely shared externally. Other layers are available for NE and EA colleague that are not available in this external version of the tool for data sensitivity reasons.

The Beaver Impact Assessment Toolkit can be used to support the reintroduction of beavers. It can identify considerations across an area that may be affected by beaver damming and foraging activity.

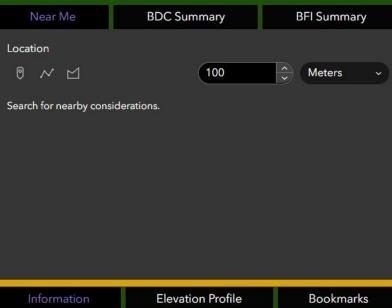
The toolkit presents the likelihood and frequency of damming as Beaver Dam Capacity and foraging suitability as Beaver Foraging Index. Further details on the University of Exeter modelling are openly available via the following reference: <u>Graham et al. (2020)</u>.

This app will allow you to view the Beaver Impact Assessment Toolkit, which is for internal use only. For a guide on how to get started using this tool, we have recorded two demonstration videos. For a quick orientation







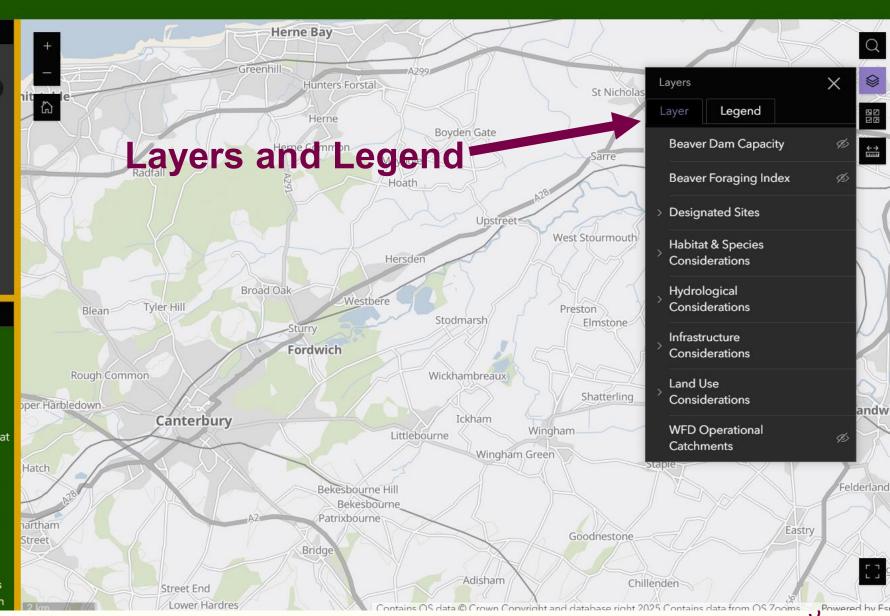


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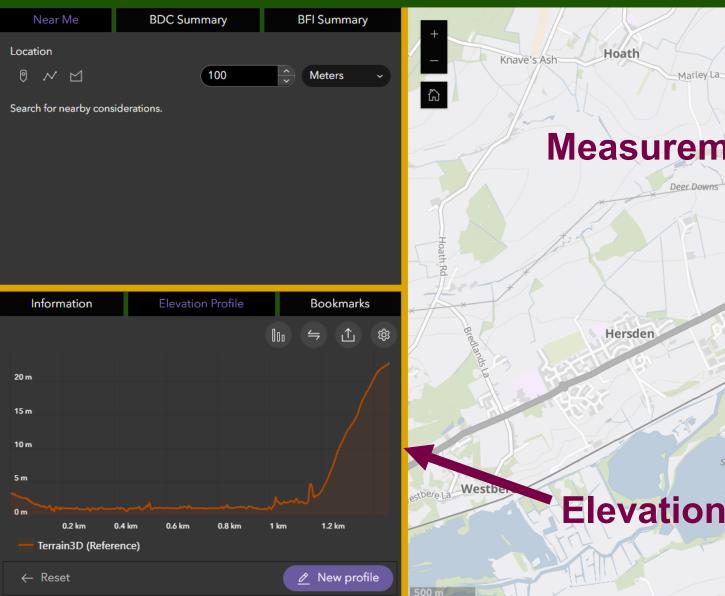
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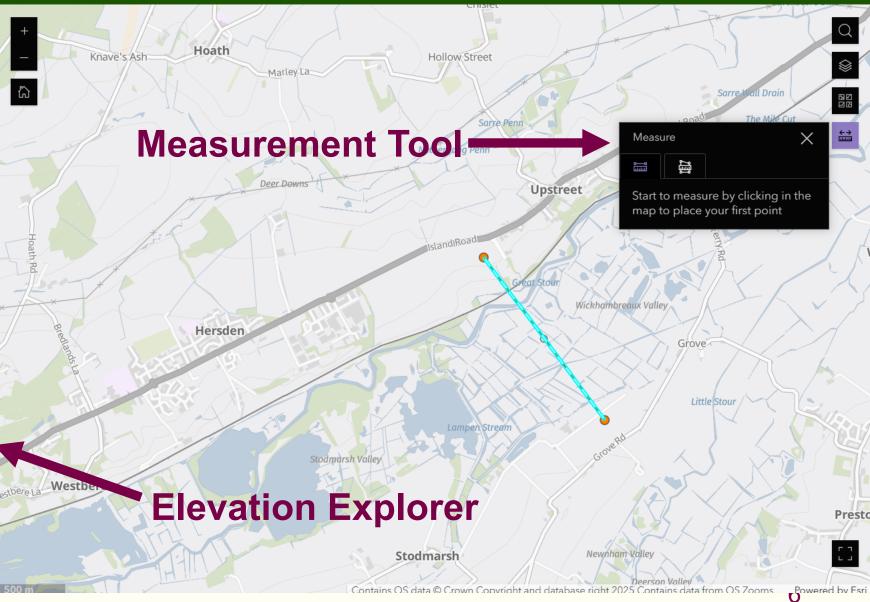
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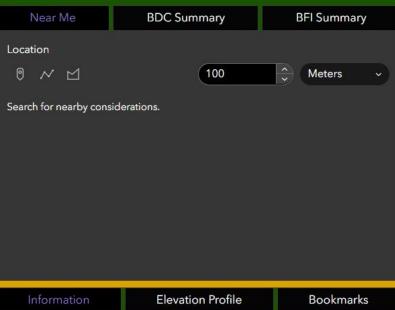










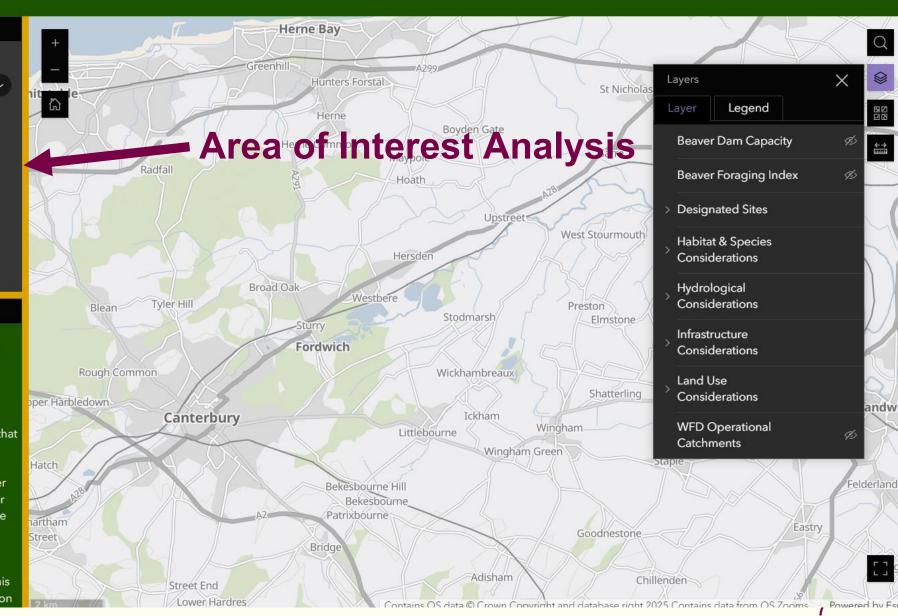


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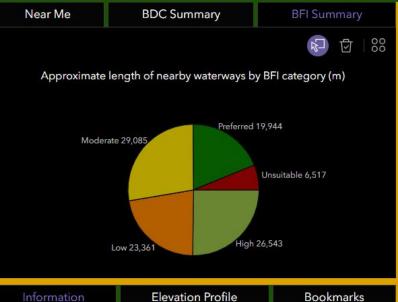
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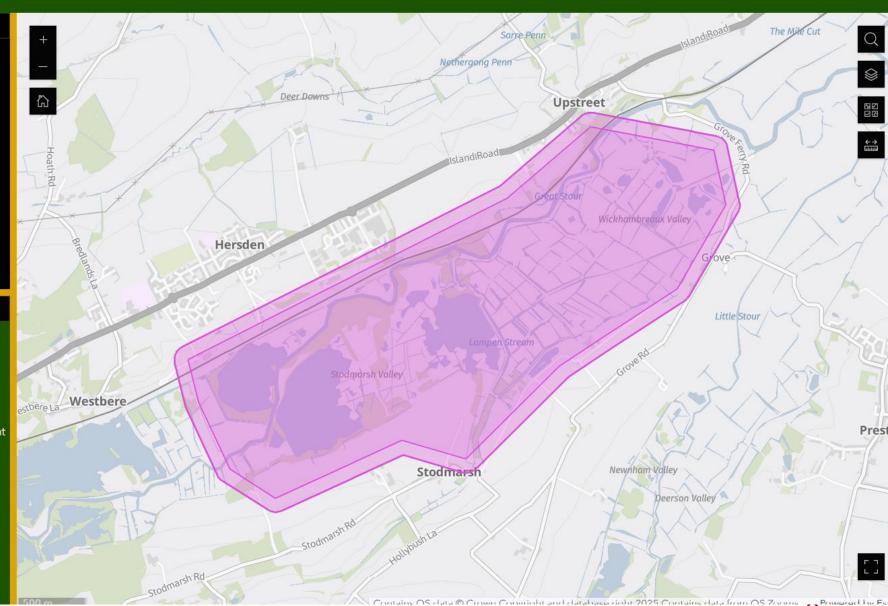


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Availability of the BIAT

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- Currently only available internal to NE and EA
- Working with Beaver Trust for external launch
- Launching in Autumn 2025



Thank you for listening!

Thank you to all our collaborators!









