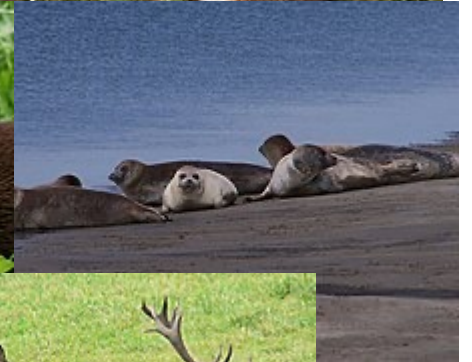


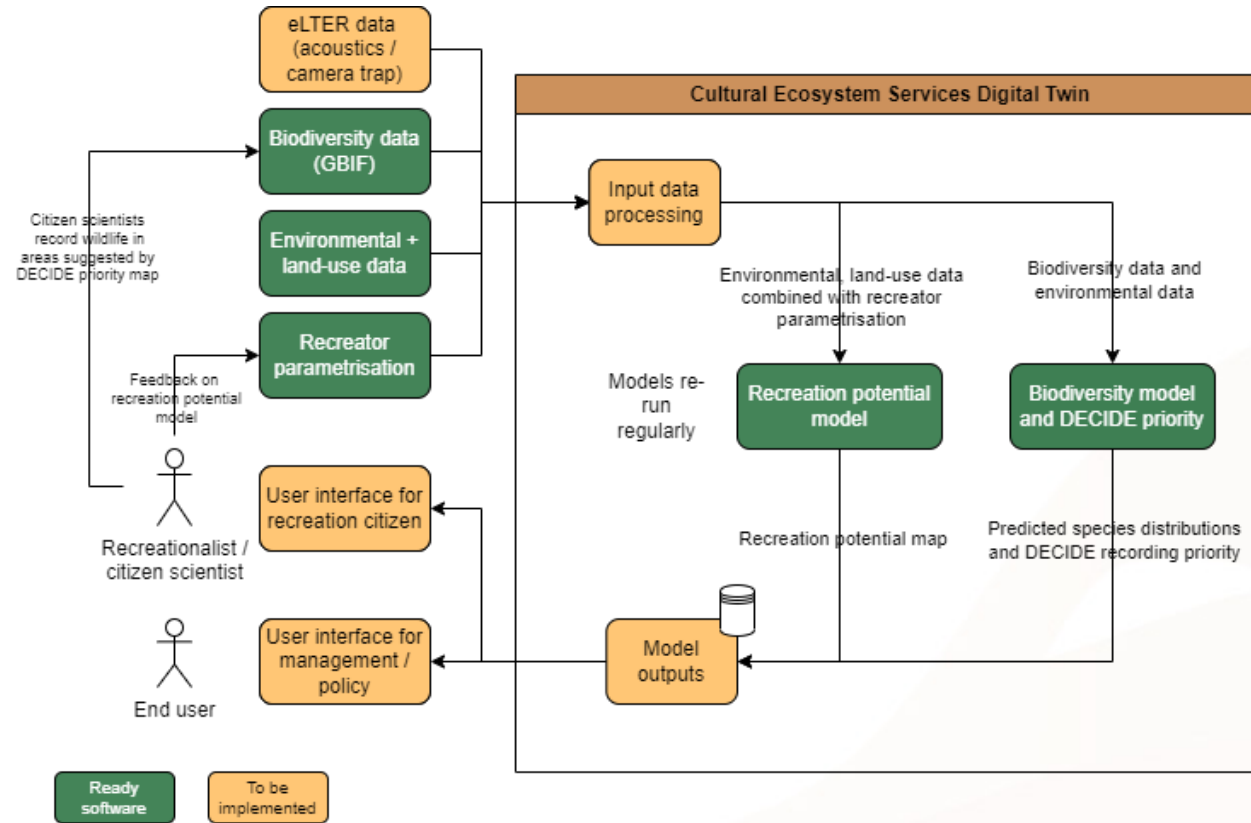


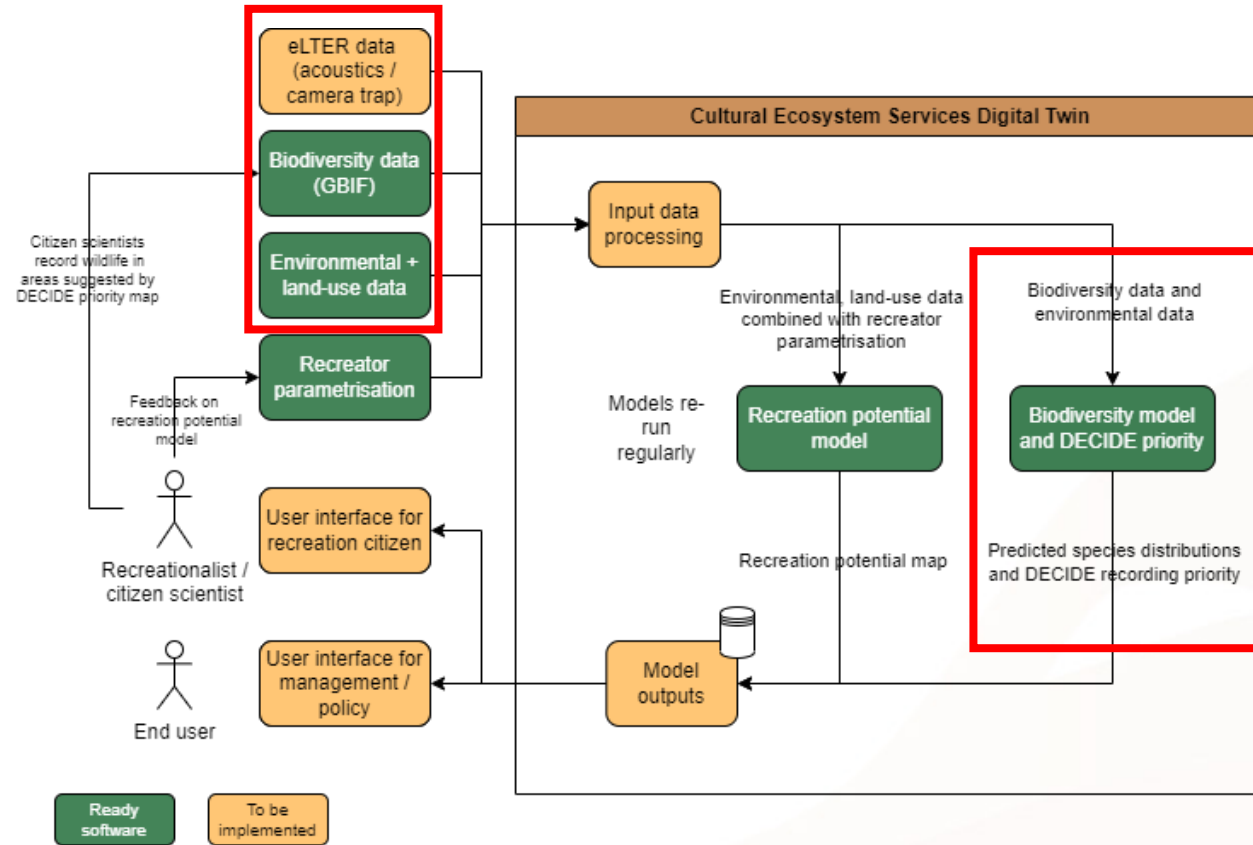
Ecosystem services – Biodiversity model

Simon Rolph

- 🔥 Key component of cultural ecosystem services
 - 🔥 Observing species of interest
 - 🔥 Keystone species of habitats
 - 🔥 Other sensory experiences such as bird song

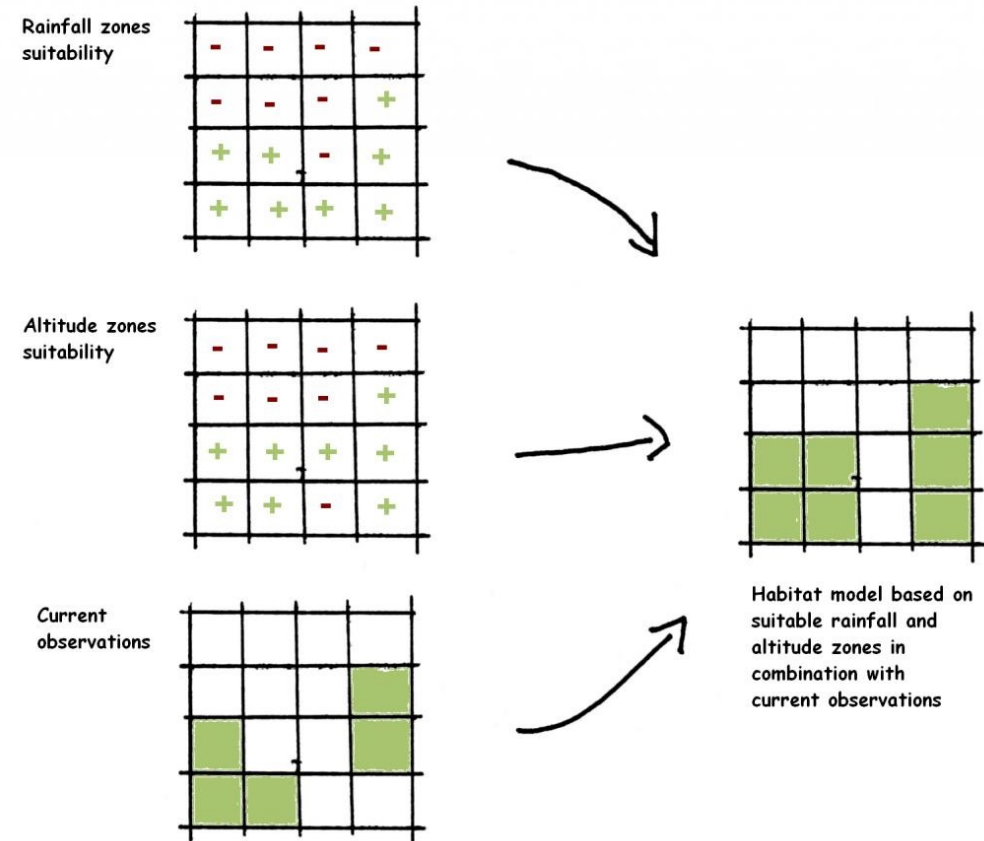




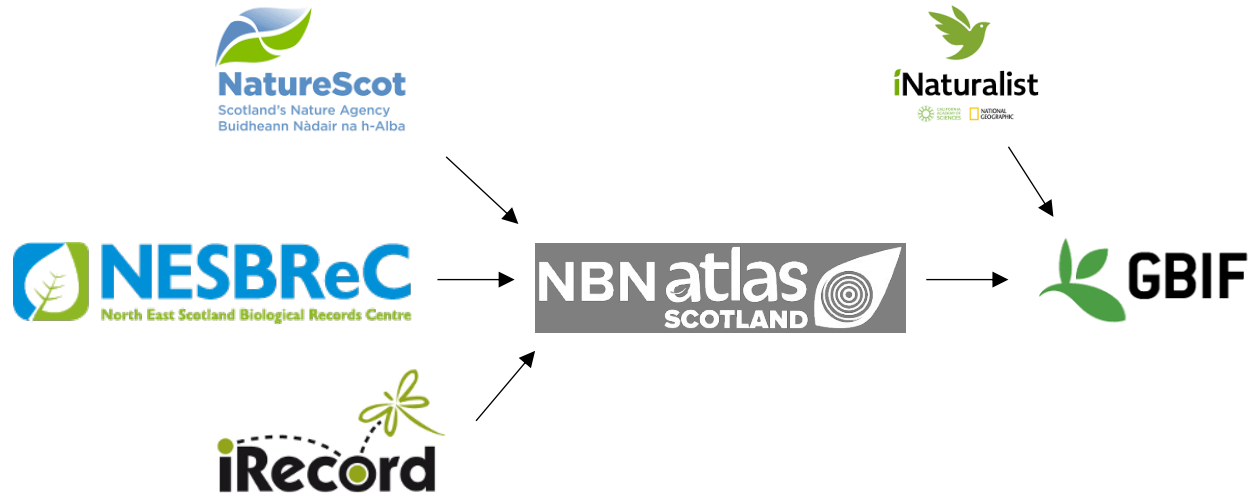


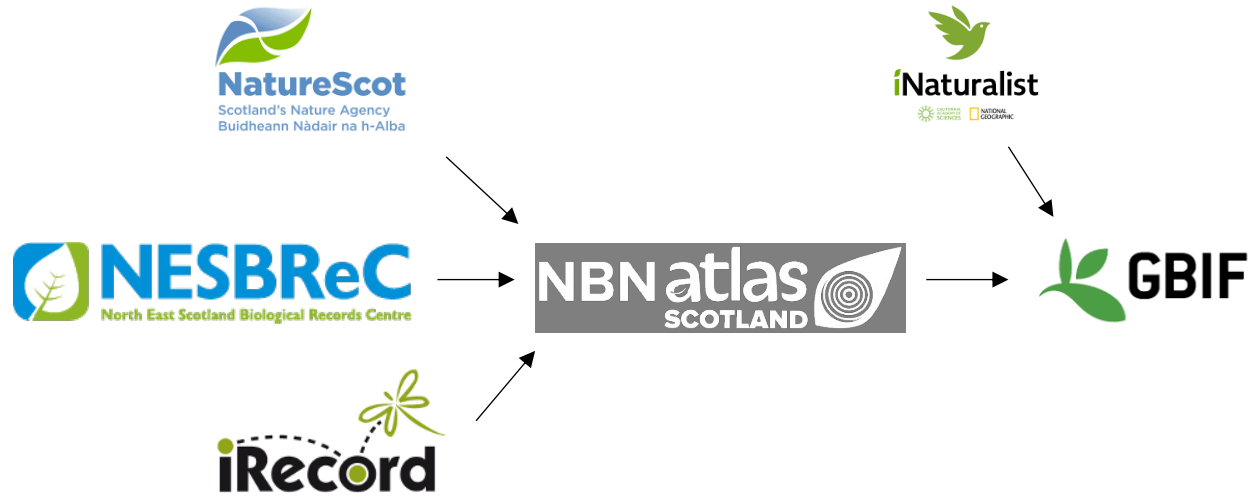
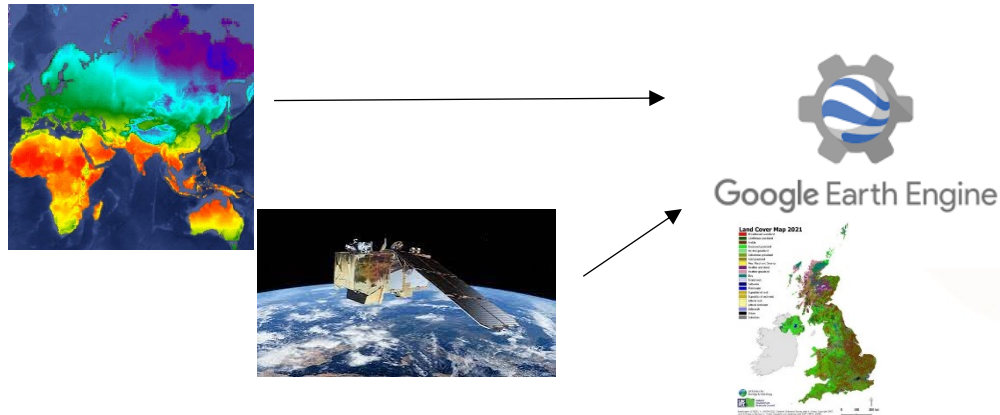
Species distribution models

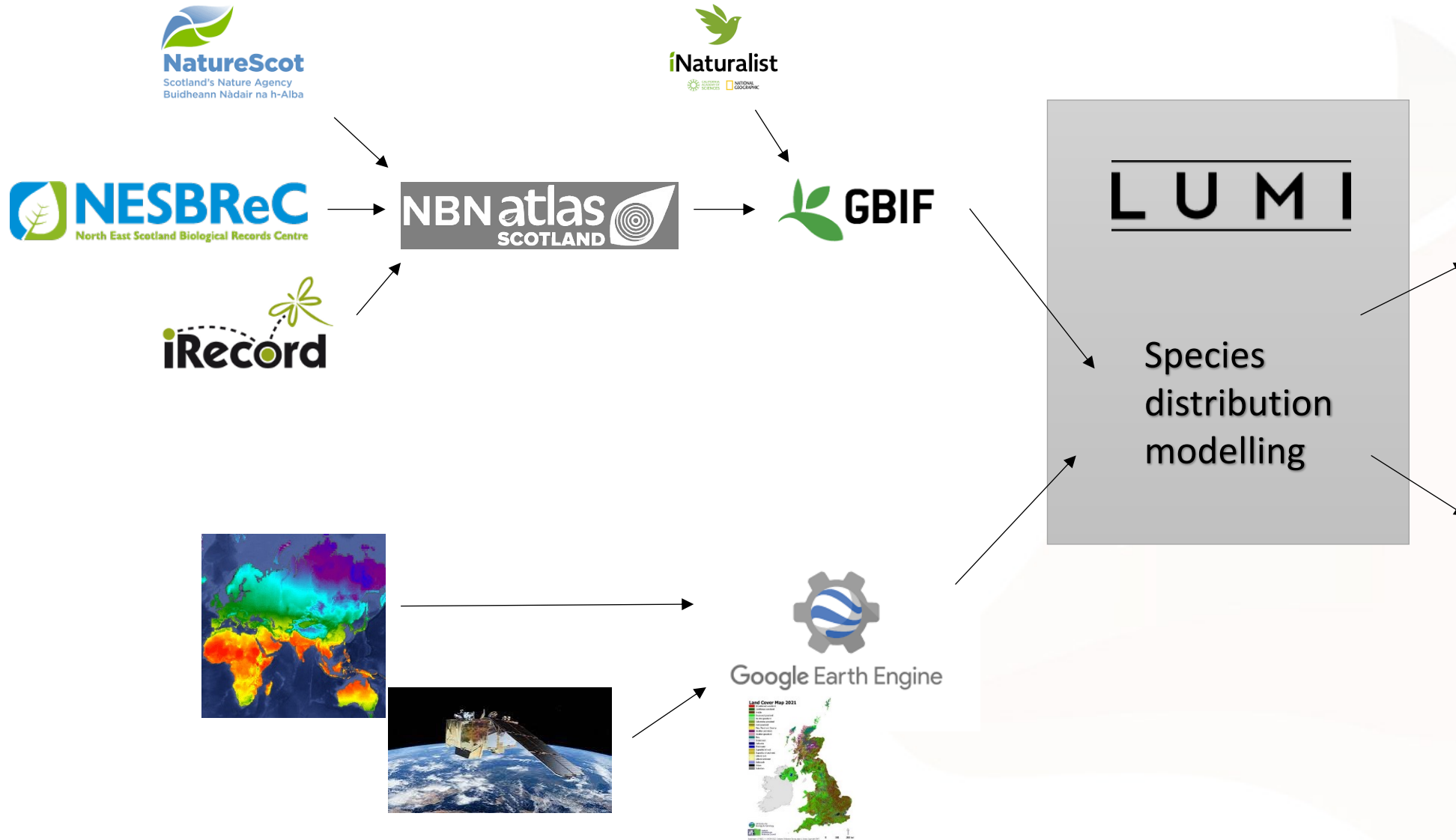
- Definition: Predict species distribution from environmental data.
- Purpose: Understand, predict, and manage species habitats.
- Components:
 - Environmental data
 - Species data
 - Models
 - Predictions

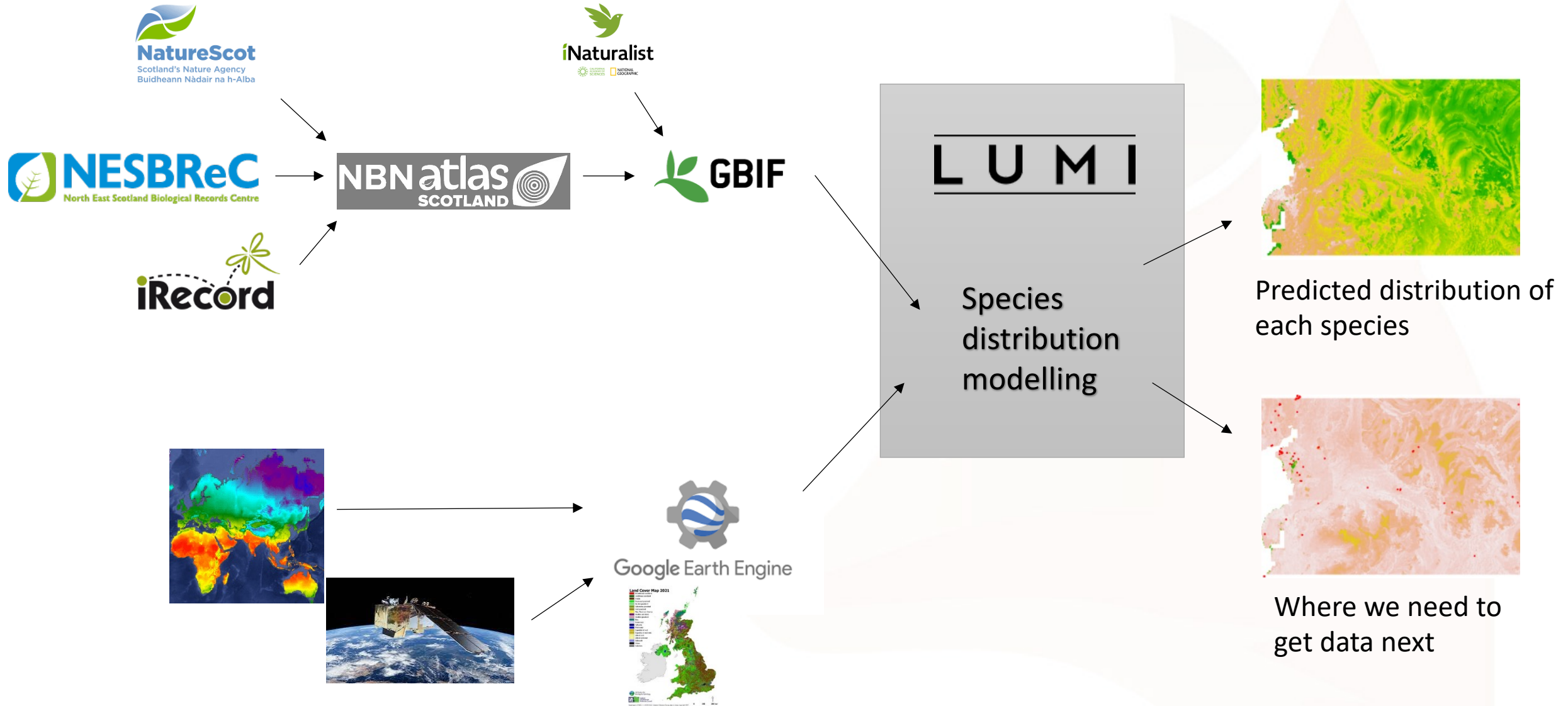


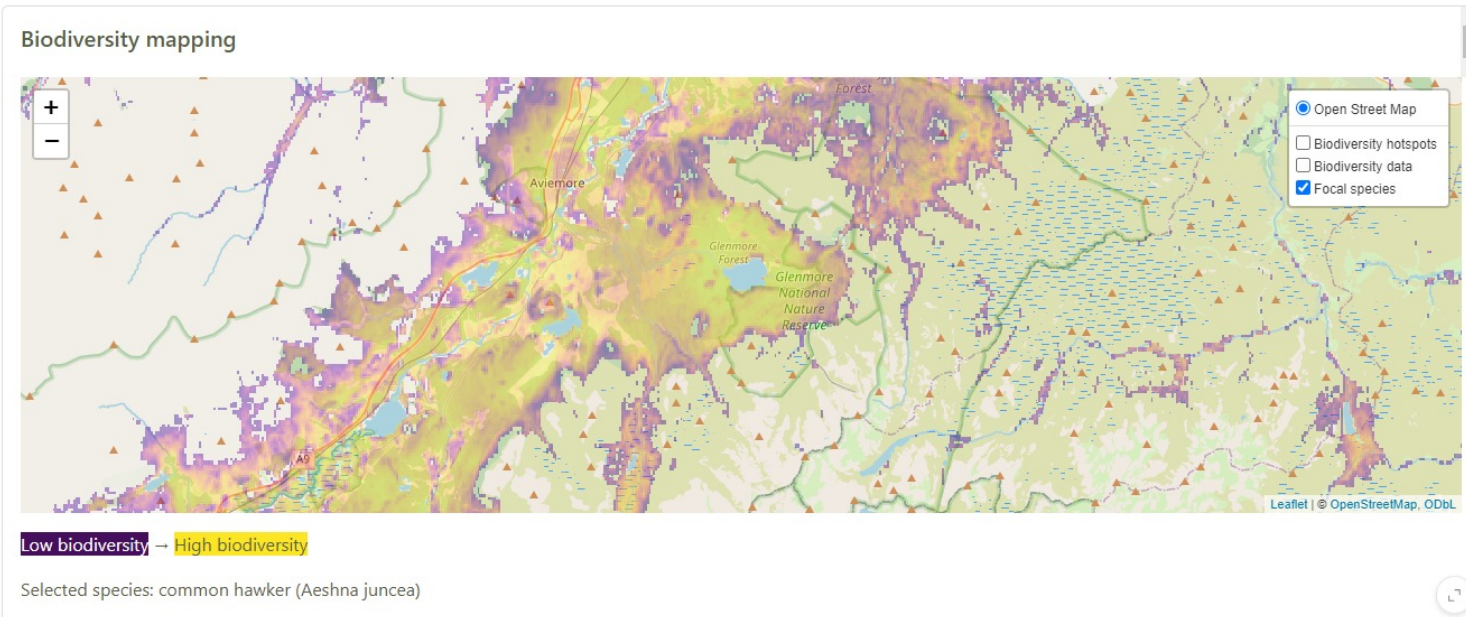
[Ragnvald](#)











Species list

Click on a species in the species list to show its distribution on the map

Show entries

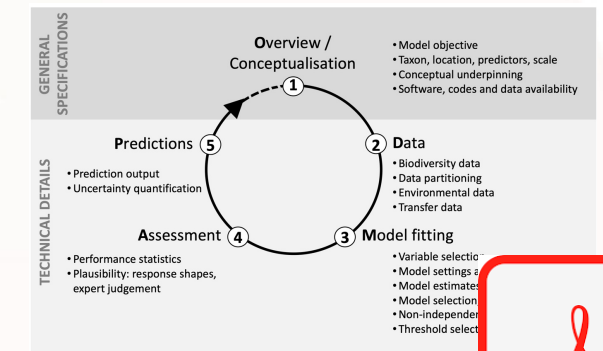
Search:

	Vernacular name	Scientific name	Observation probability	Recording priority	
1	Bilberry Humble-bee	<i>Bombus monticola</i>	Unlikely	Very high	
2	common hawker	<i>Aeshna juncea</i>	Very unlikely	Very high	
3	Small Earth Humble-bee	<i>Bombus lucorum</i>	Very unlikely	High	

Export raster maps



Metadata: ODMAP protocol



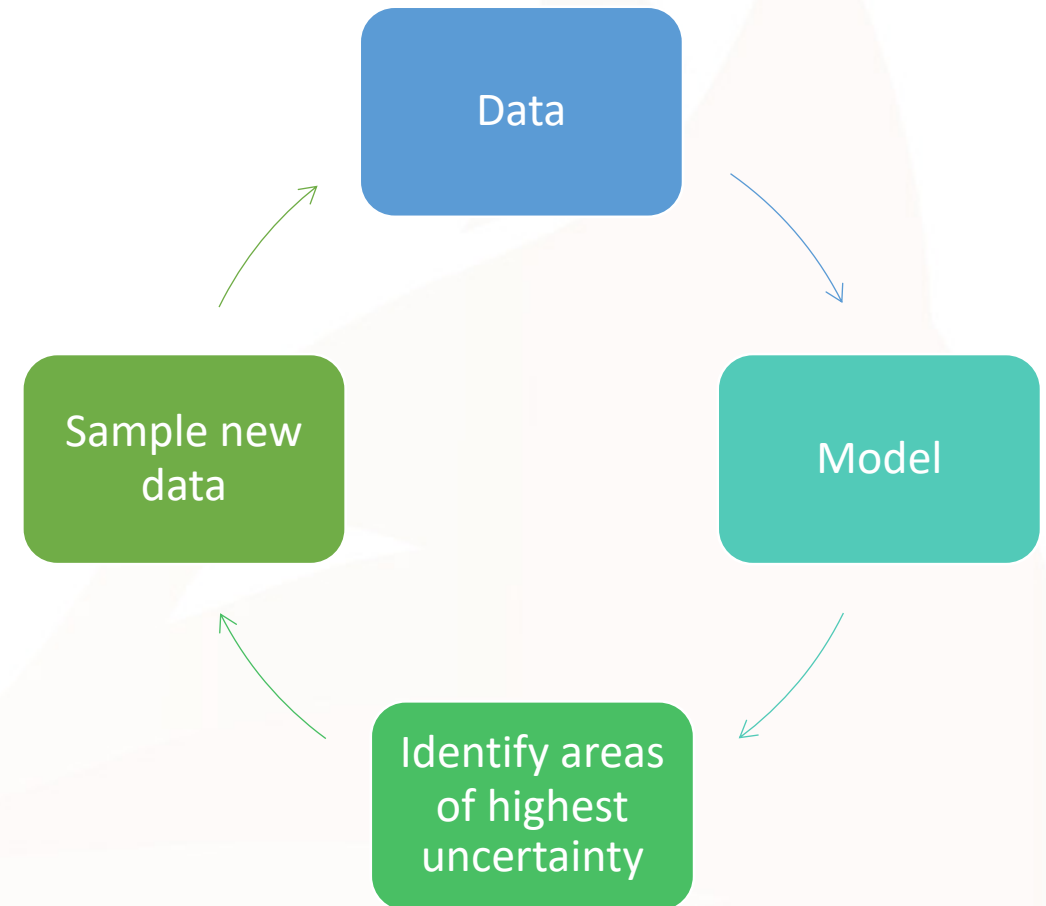
🔥 SDM workflow → Digital Twin

🔥 **Synchronicity:**

🔥 Maintaining real-time alignment between the virtual model and its physical counterpart for decision-making

🔥 Key question:

- 🔥 What is the required synchronicity?
- 🔥 Temporal
- 🔥 Seasonal





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