



Inclusion of a prey model in forecasts of a specialised predator

A case study of the Iberian Lynx

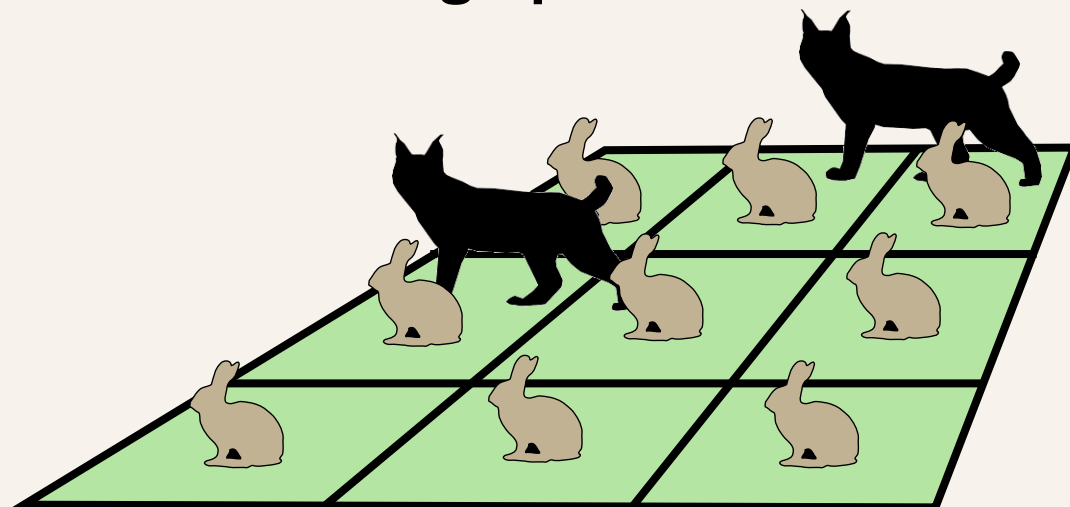
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Literature and Expert Knowledge



Demographic model



Aims

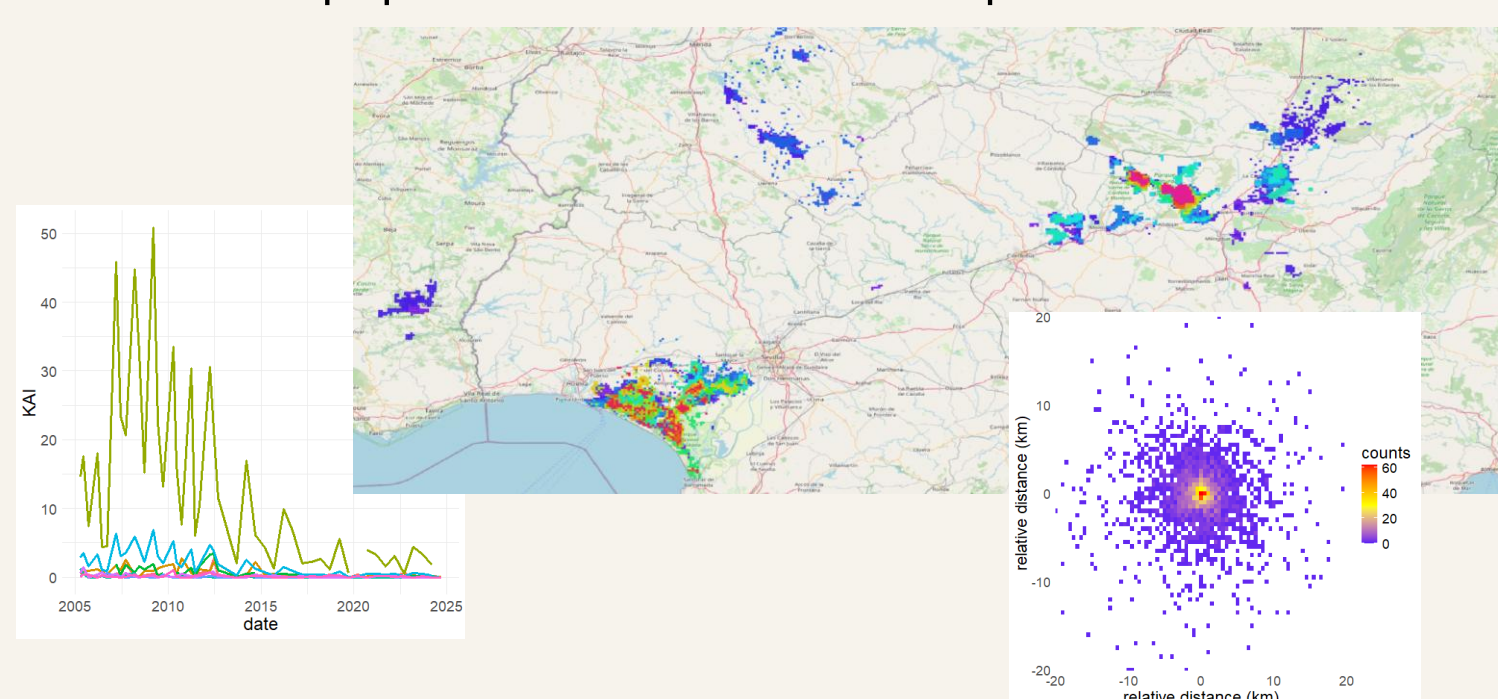
- Use IBMs to forecast complex systems
- Create useful and interpretable models for conservation agencies
- Quantify species interactions
- Identify data gaps

Future Steps

- Integration with Doñana Digital Twin NDVI and vegetation
- PVA analysis for the Iberian Lynx

Model Calibration:

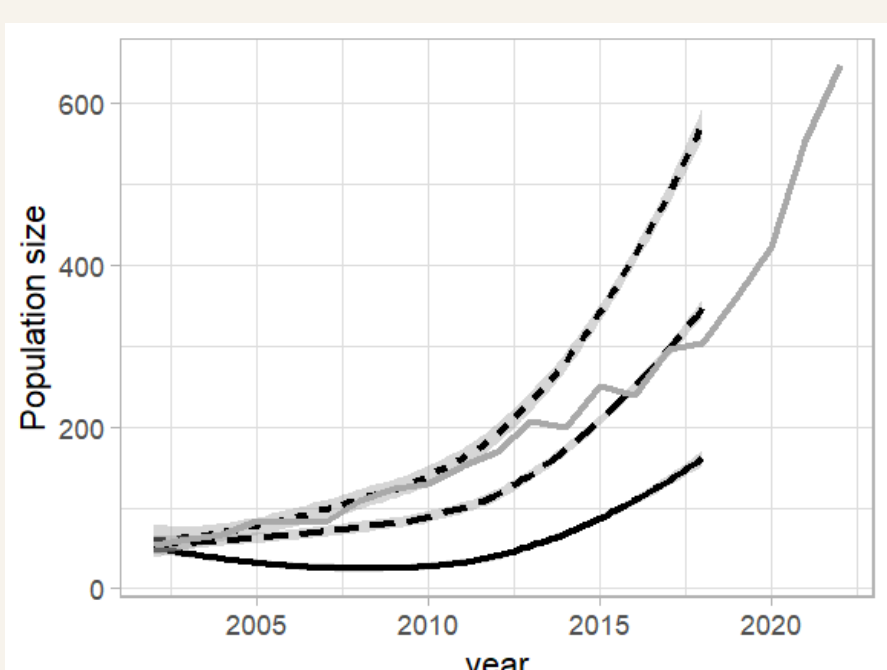
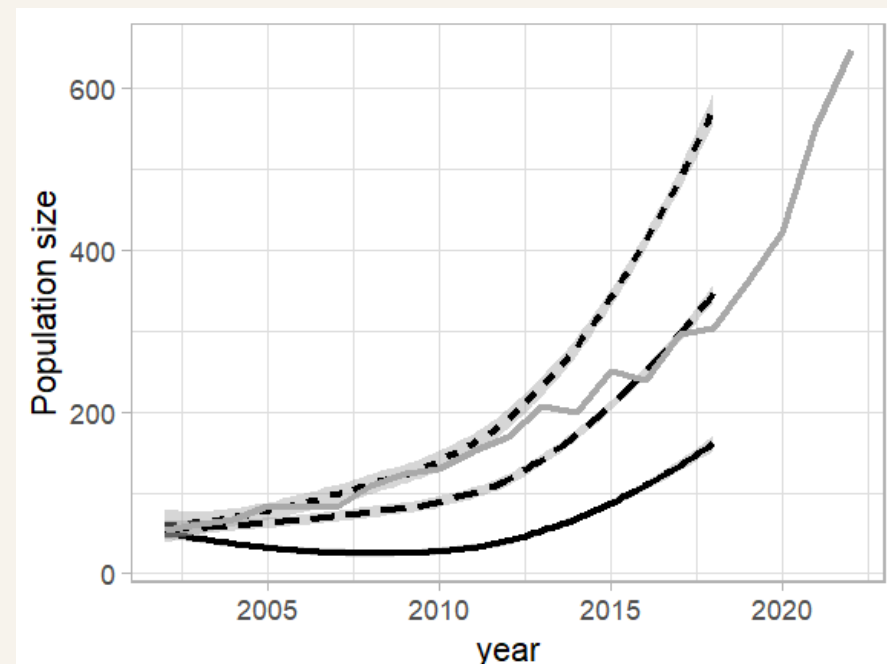
Estimate unknown model parameters using population information and spatial data



Final model:

- Use best estimates for parameters
- Understand uncertainty and forecasting time of model

Changes in Lynx forecasts under different rabbit dependencies



Lynx population forecasts 2022-2049

