

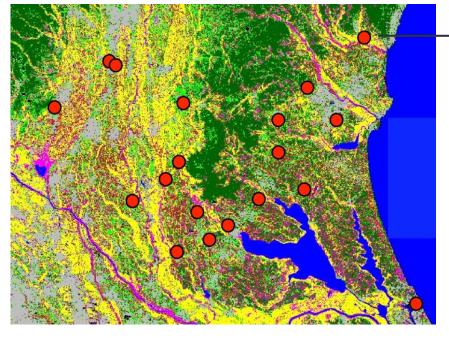
Luis Carrasco Tornero

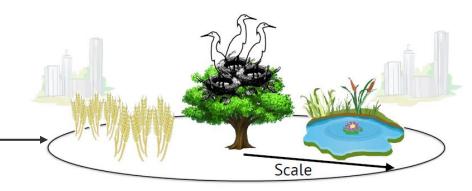
Remote Sensing and Spatial Ecologist NERC Centre for Ecology and Hydrology

PhD (University of Tsukuba, Japan) in Avian Ecology Distribution of Herons and Egrets Colonies in agricultural landscapes of central Japan

Predictive models of species distribution

Land cover maps + Animal distribution data





Machine learning algorithms (Random Forests / Neural Networks) Predictions of future distribution under changes

Japan JAXA Land Cover Map 2011 • Colonies

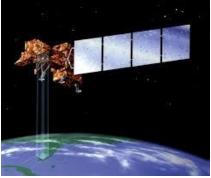
PhD Results: Scale of selection was a key feature; Fragmentation affected selection

Businesses will need accurate ecosystem services and biodiversity loss predictions

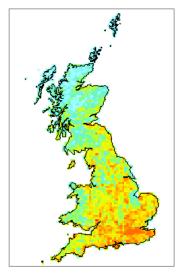
1) Remote sensing expertise:

Businesses need to know what can be obtained from satellite data

Accurate mapping adapted to necessities



landsat.gsfc.nasa.gov



2) Ecological prediction:

Predicting of **ecosystem services under** climate **change**, landscape changes

Business affecting landscapes? Fragmentation? How will this **affect biodiversity**?

UK Biodiversity richness score prediction (nhm.ac.uk)

Attending BIS: how to include business scenario into predictive ecosystem models

How nature affects business decisions? (economic importance of nature!)

Including ecosystems services (as a way to value nature) into my models (inputs/outputs)

Also... What are business interests on satellite data? (specialization?)

