Aviva Scholar: Indicator species modelling



Team members



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Project aims

- 1. Create models of indicator lichen species
- 2. Explore lichen dispersal from existing rainforest sites to newly created woodland
 - Case study Aviva sites
- Knowledge gap: critical factors determining success
 - How quickly do indicator species colonise new areas?
 - What is the existing connectivity?
 - How can we maximise connectivity of newly planted woodlands?
- Importance: key restoration indicator, likely poor dispersal

Methods

- Individual-based model: RangeShifter
 - Parameters: experts, literature
 - Tracks individuals through movement and survival
 - Real landscapes which change over time



Outputs

- Robust models of lichen species
- Case studies of Aviva sites: when and how they may be colonised by lichens
- Website/magazine article for the Wildlife Trusts
- Interactive web tool (ShinyApp) to allow intuitive exploration of results
- Journal publication