RangeShiftR

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https://damariszurell.github.io

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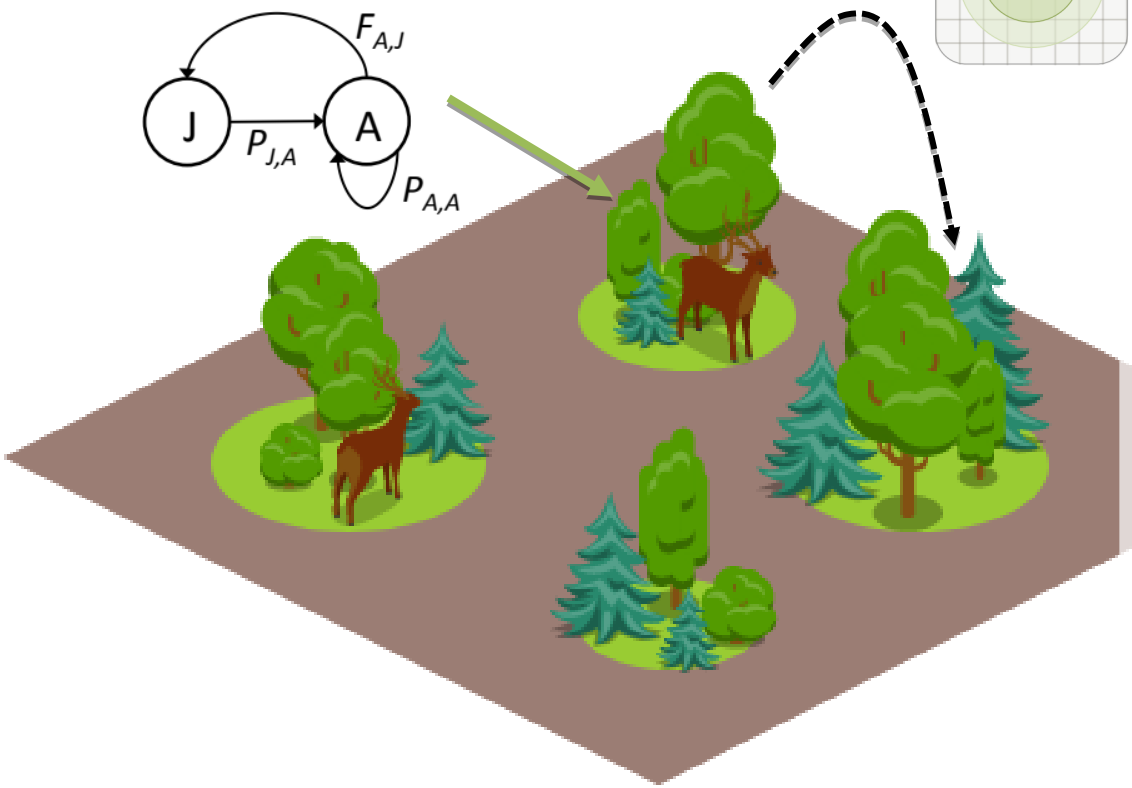
Pictures from www.undekade-biologischevielfalt.de

Spatially explicit population models

- Simulating local population dynamics and dispersal

Local population dynamics described by population model, e.g. logistic growth or matrix population model

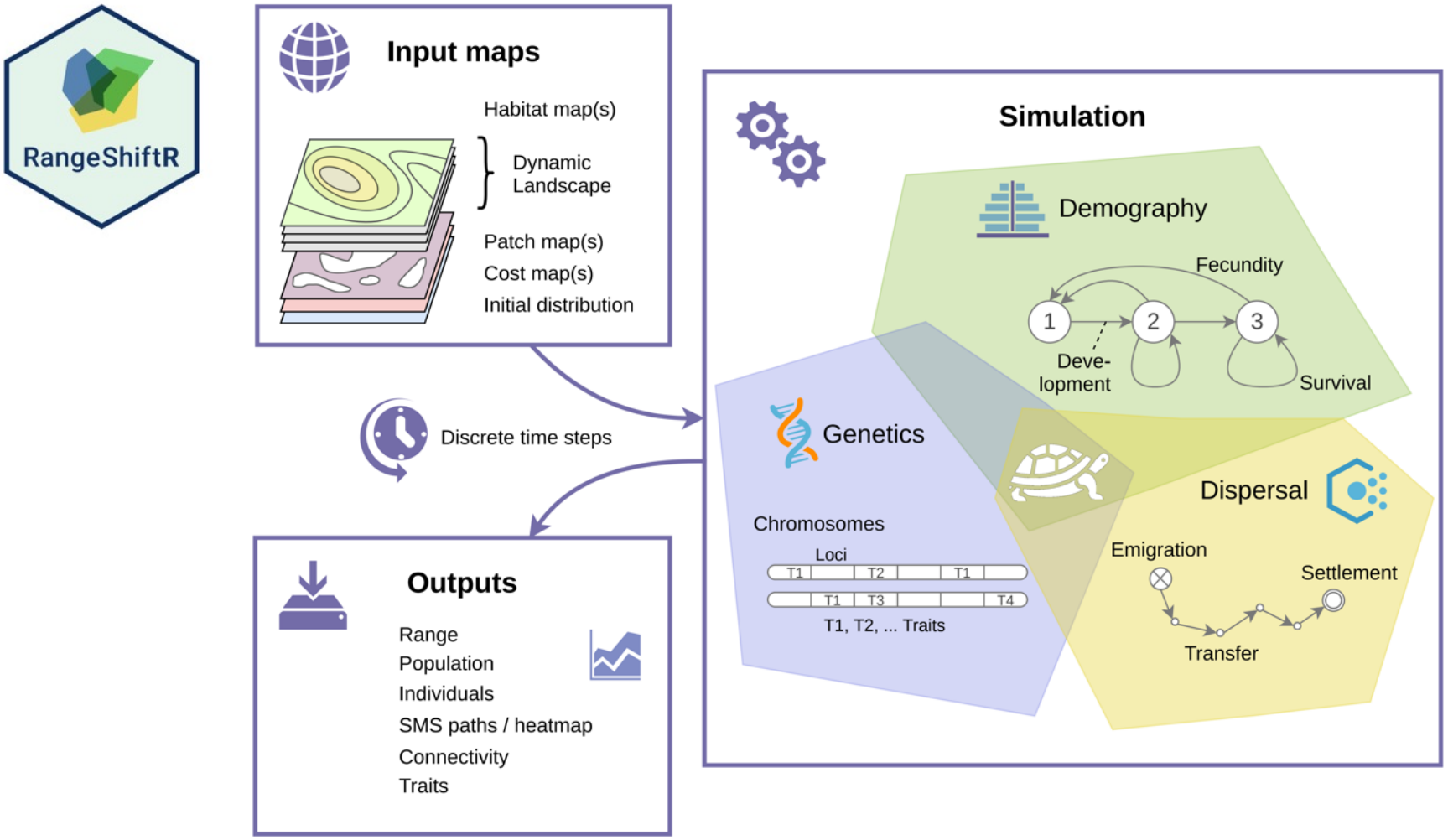


Dispersal described by dispersal kernel or movement simulator

Landscape can be described as:

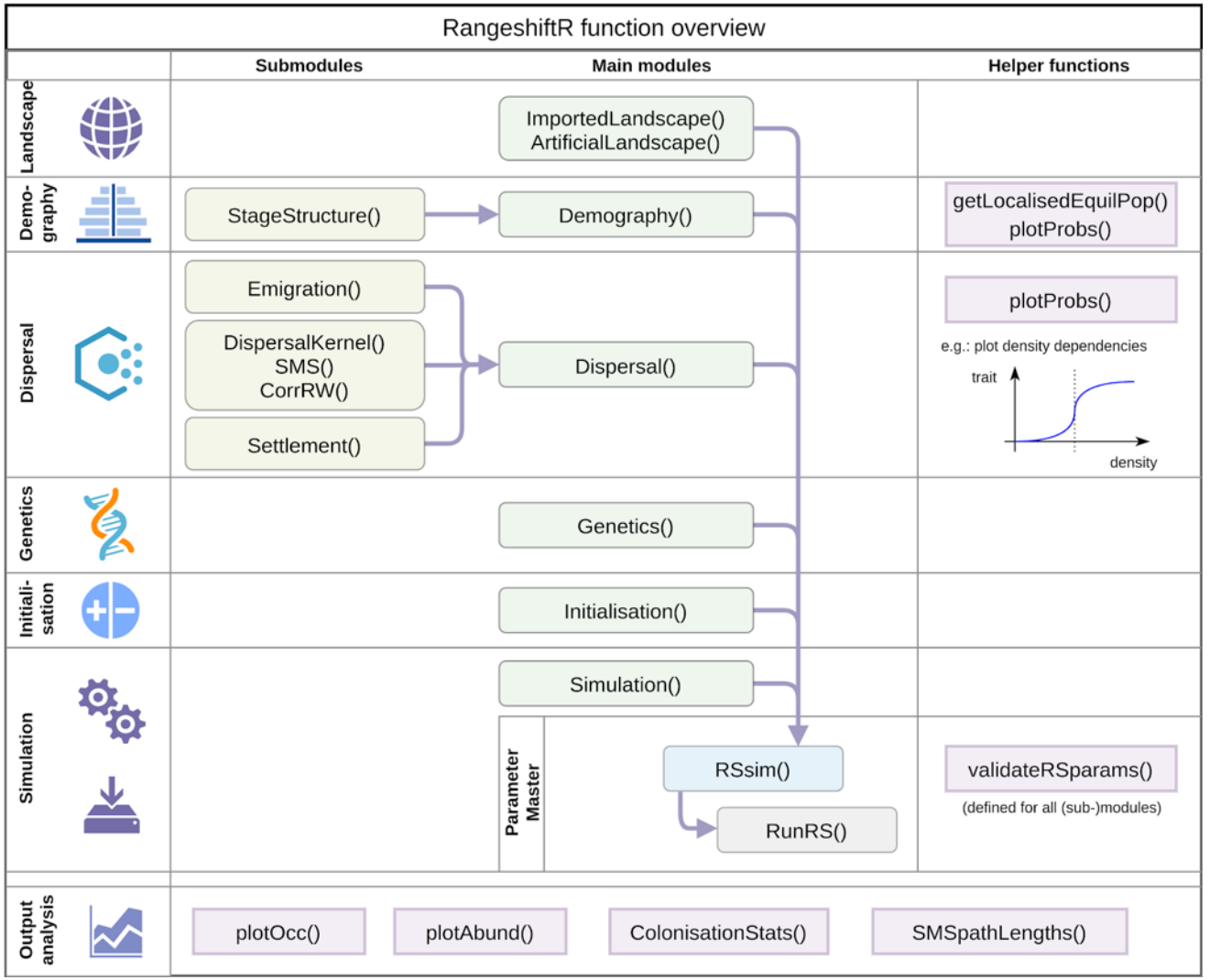
- patch-matrix landscapes
- patch types of different quality
- grid cells of different quality

RangeShifter - An individual-based eco-evolutionary modelling platform



Malchow et al. (2021) Ecography. DOI: 10.1111/ecog.05689 .
Building on Bocedi et al. (2014) Methods Ecol Evol 5: 388-396. & Bocedi et al. (2021) Ecography. DOI: 10.1111/ecog.05687.

R-package: RangeShiftR



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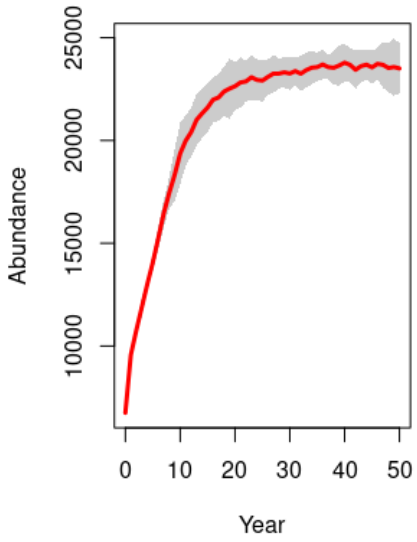
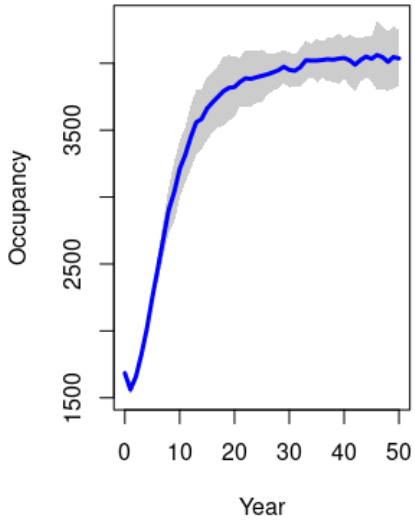
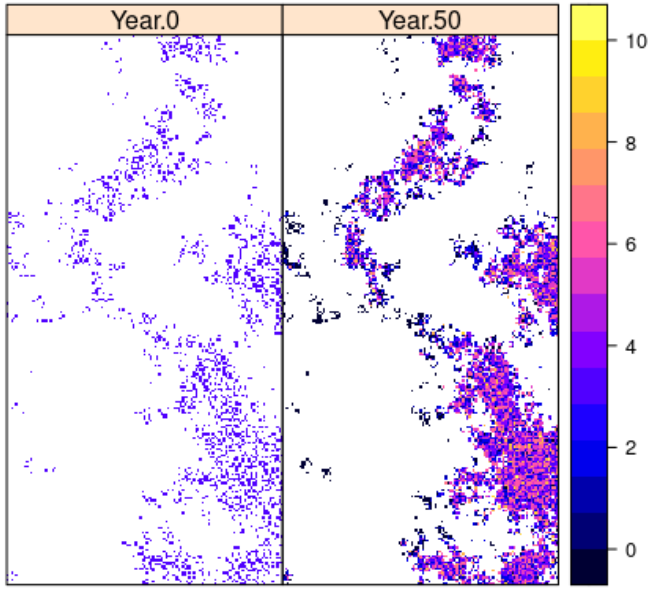
Practical 1: Getting started with RangeShiftR

- Break-out rooms of 4-5 participants per group
- Time: 15 mins
- Script:
  - IBS2022_RS_workshop/code/Prac1_RangeShiftR_GettingStarted.R







Break: 15 mins