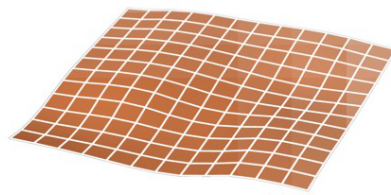


(a) Potential external drivers



Extreme temperature
Low spatial heterogeneity



Optimal temperature
High spatial heterogeneity

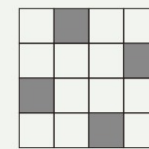
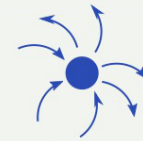
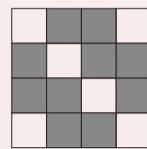
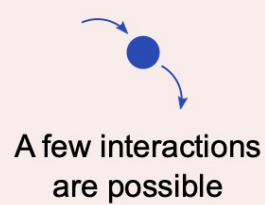
(b) Mechanism

Interaction capacity

$$2 \times \sum_{j=1}^S \sum_{i=1, j \neq i}^S |IS_{i \rightarrow j}| / S$$

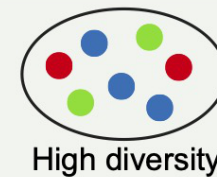
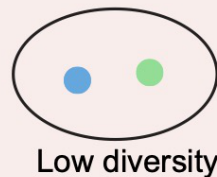
Connectance

$$\frac{N_{link}}{S^2}$$

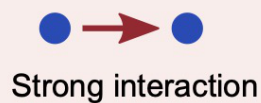


(c) Outcomes in ecological communities

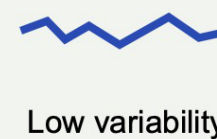
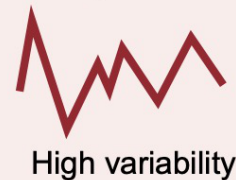
Community diversity



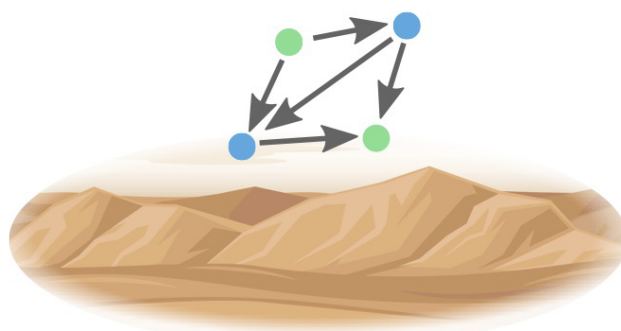
Interaction strength
per link



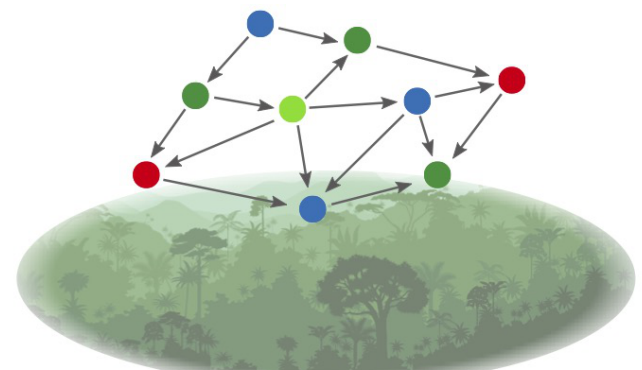
Temporal variability



(d) Example communities



e.g., Desert



e.g., Tropical forest