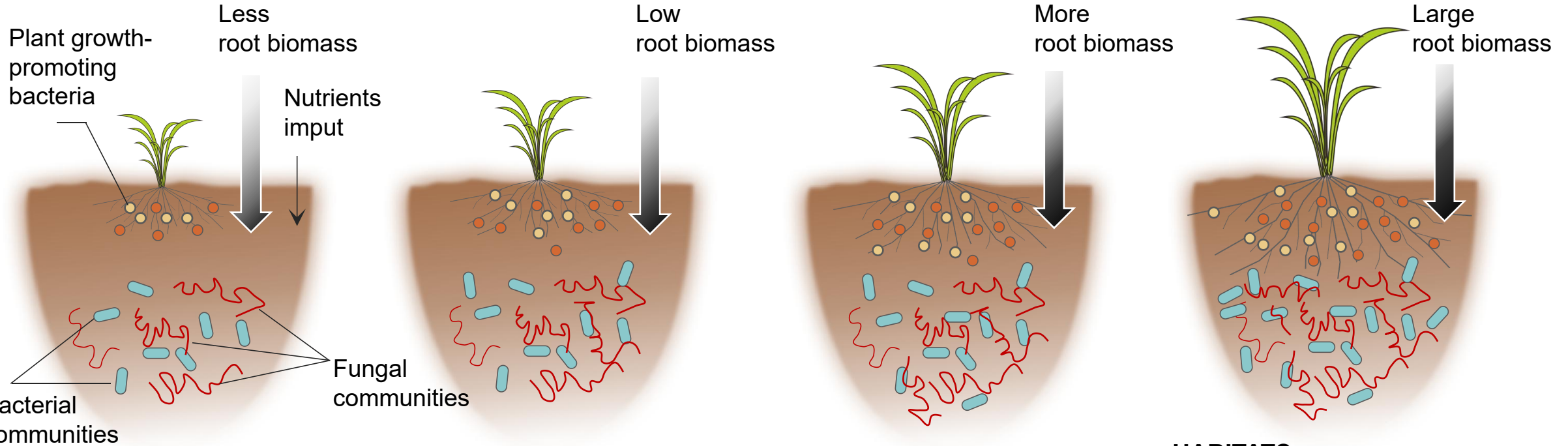


1 year

Grassland restoration

30 year



HABITATS

Years since grassland restoration

HABITATS

Mainly annual plants
Small root system
Low soil nutrients
Low soil extracellular enzymes
Slow decomposition and nutrient mineralization
Low microbial diversity and biomass
Simple microbial networks
High K:r ratio, G+:G- ratio, and F:B ratio
Low 16S rRNA operon copy numbers
Low SOM formation
High recalcitrant C gens
Low labile C genes

Oligotrophic behavior

K-strategy species

r-strategy species

Acidobacteria
Planctomycetes
Chloroflexi

Actinobacteria
Proteobacteria
Bacteroidetes

Basidiomycota

Ascomycota

Mainly perennial plants
Large root system
High soil nutrients
High soil extracellular enzymes
Fast decomposition and nutrient mineralization
High microbial diversity and biomass
Complicated microbial networks
Low K:r ratio, G+:G- ratio, and F:B ratio
High 16S rRNA operon copy numbers
High SOM formation
Low recalcitrant C gens
High labile C genes

Copiotrophic behavior