Example

Abstraction X(t) = S(X,t) - C(X,t)X(t)Nonlinear kinetics $X(t) = BU(t) - A\xi(t)KX(t)$ Globally Fixed **←** value Static vegetation distribution Fixed value with vegetation type

Detail

Level of complexity

- Mass balance, rate heterogeneity time-dependent drivers
- Plant allocation, environmental modifier, donor pool-controlled transfer
- Mortality rate varies with plant functional type (PFT)
- Mortality rate varies with dynamic vegetation (DV), such as ED, PPA, FATES
- Connecting plant and microbial traits to rate of mortality or decomposition