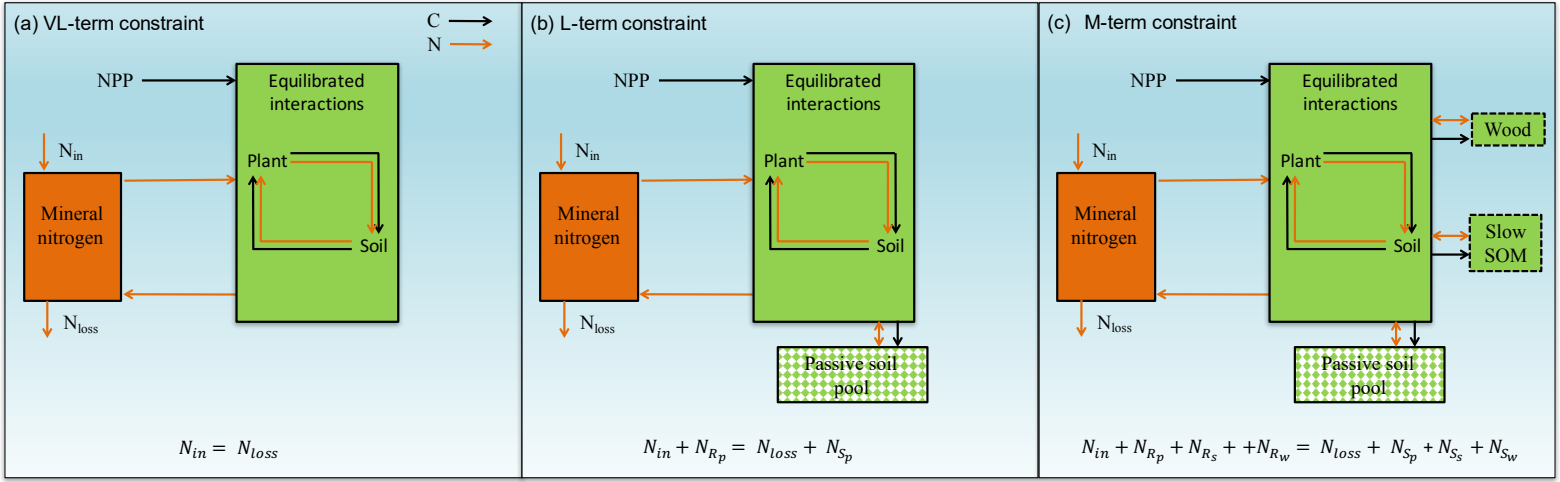
(a) VL-term constraint
C
N
NPP
Equilibrated interactions
Plant
Soil
N_{in}
Mineral nitrogen
N_{loss}
$N_{in} = N_{loss}$
(b) L-term constraint
NPP
Equilibrated interactions
Plant
Soil
N_{in}
Mineral nitrogen
N_{loss}
Passive soil pool
$N_{in} + N_{R_p} = N_{loss} + N_{S_p}$
(c) M-term constraint
NPP
Equilibrated interactions
Wood
Plant
Soil
Slow SOM
N_{in}
Mineral nitrogen
N_{loss}
Passive soil pool
$N_{in} + N_{R_p} + N_{R_s} + +N_{R_w} = N_{loss} + N_{S_p} + N_{S_s} + N_{S_w}$