

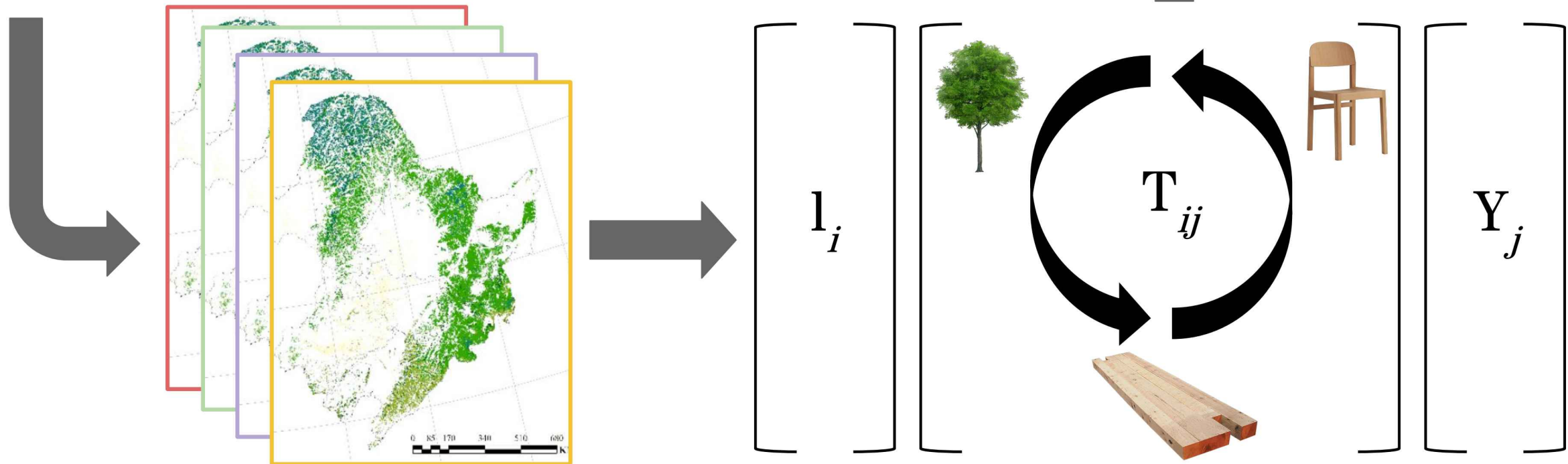
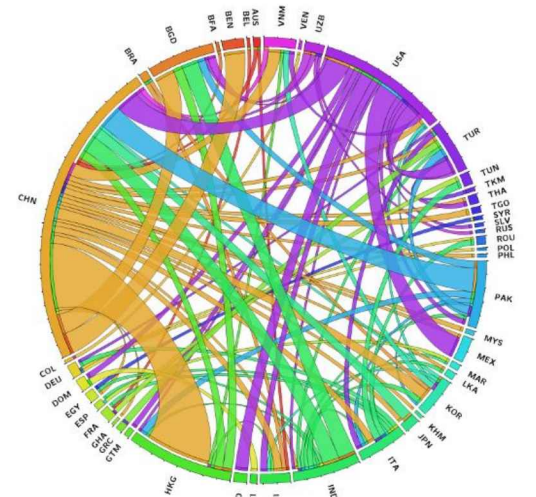
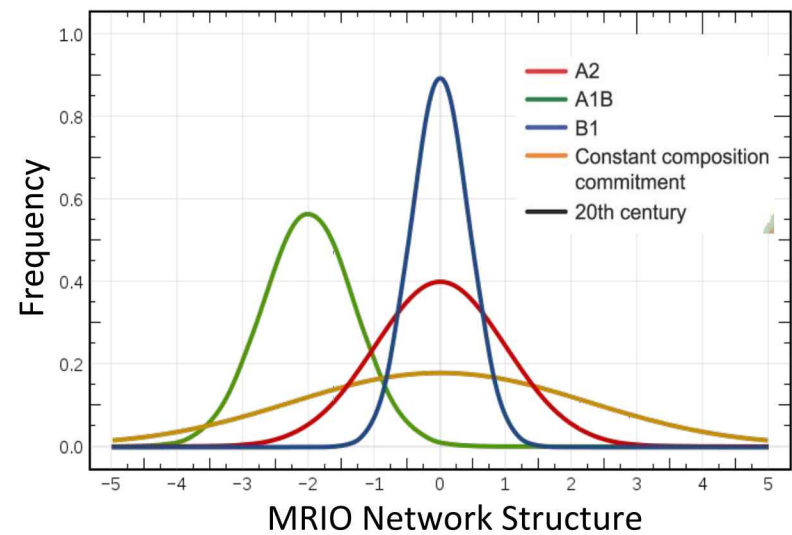
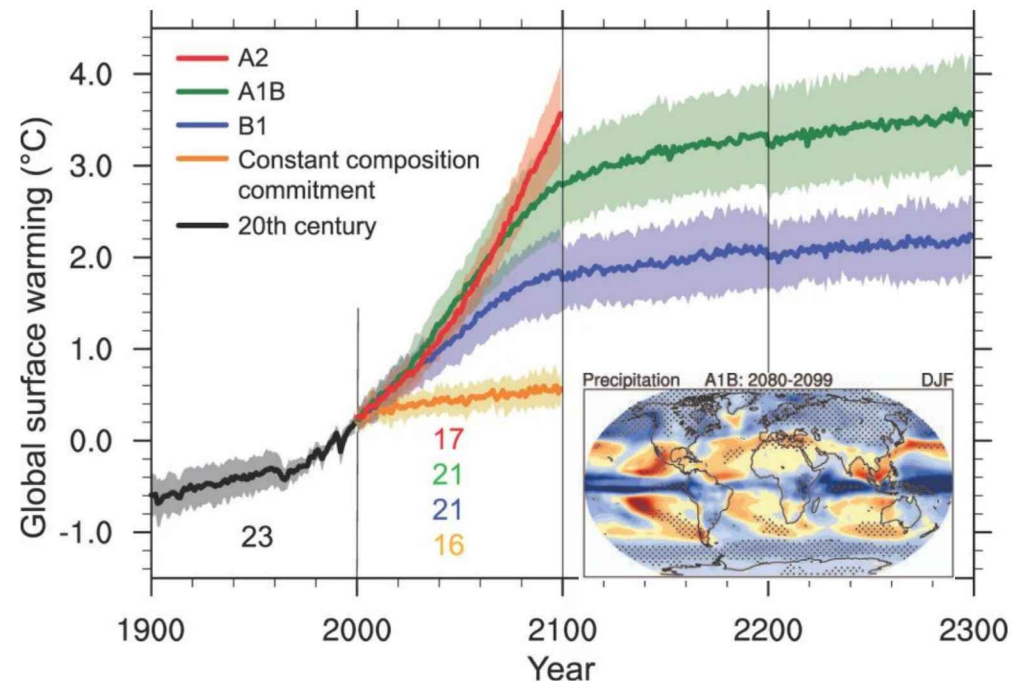
$$L_j = l_i \cdot T_{ij} \cdot Y_j$$

Land area used by
region j

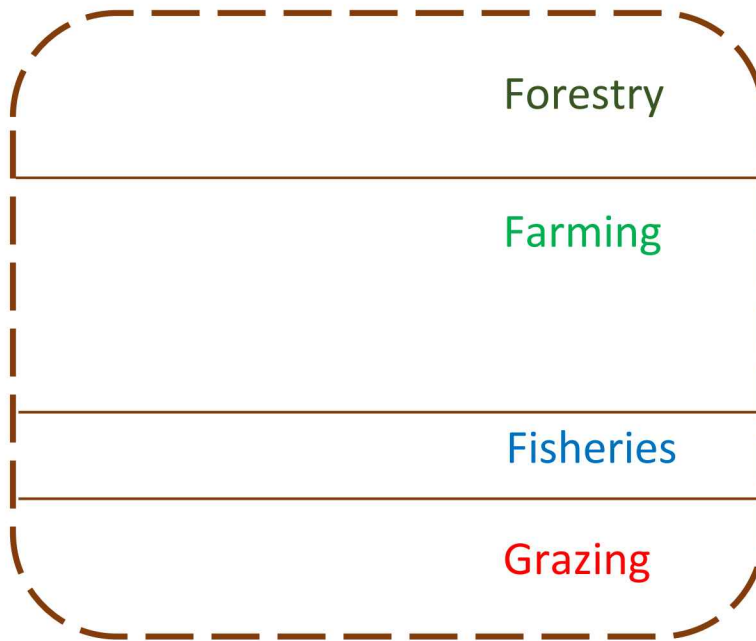
Total area used for
one monetary unit
for a sector

Input from one sector
used for one unit output
of a sector

Final consumption (not used to
create additional products)



Agricultural Area

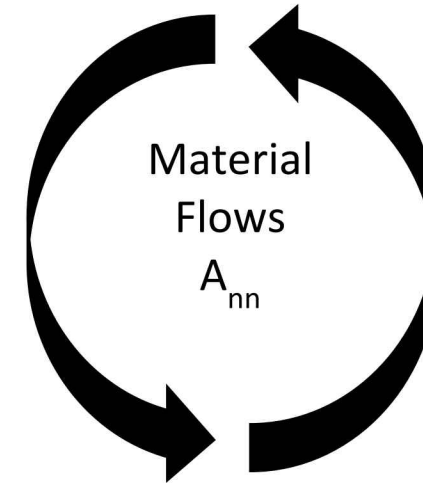
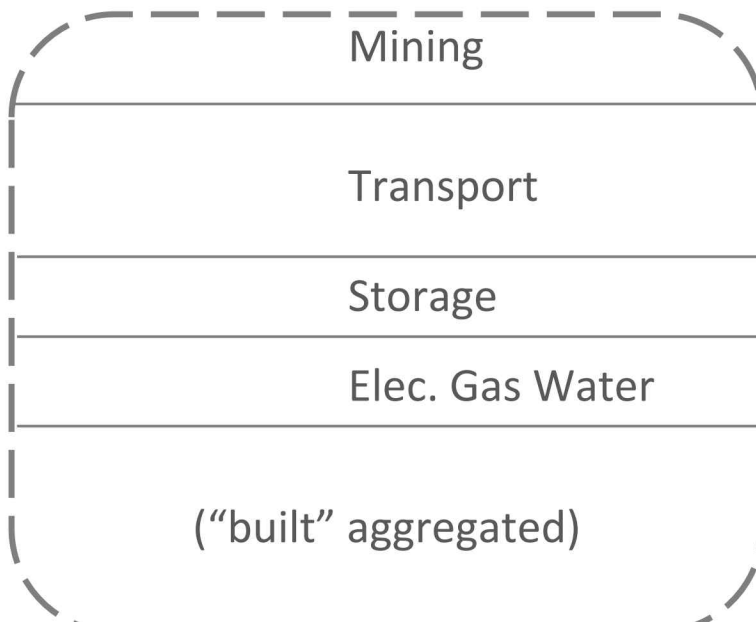


I_k

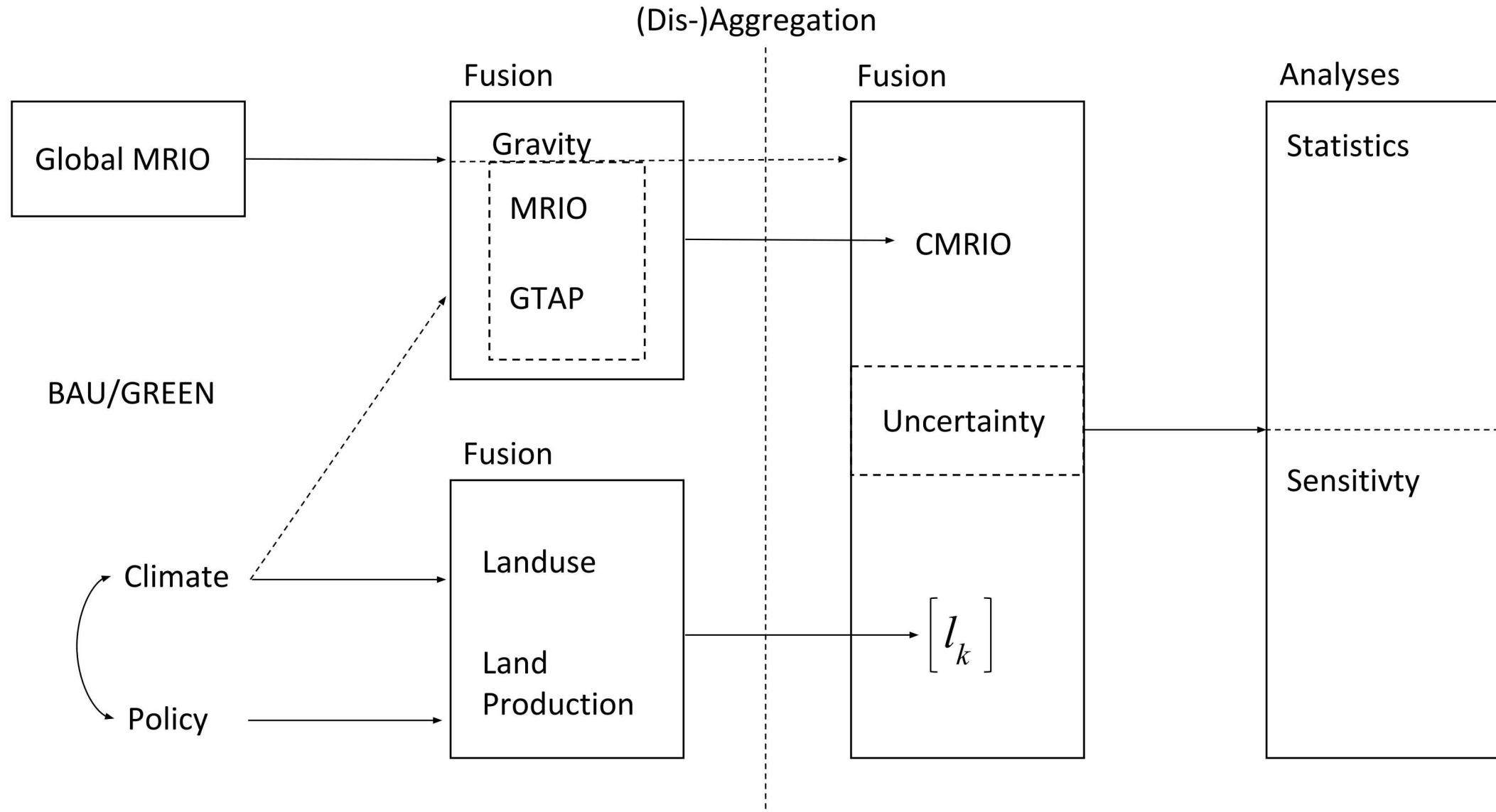
Sector_{1...n}

Region_{1...r}

Built Area



Pipeline Schematic



Uncertainty Parameterization

Land-use Coefficients Land-use Rate Direct Input Coefficients Final Demand (Consumption + Export)

$$L_k = l_k (I - A)^{-1} Y$$

Total area used for k in each region Area used for one monetary unit for a sector Amount of input from one sector used for one unit output of a sector Sector output not used to create additional outputs

l_k { Land use area (Min. Nat. Res. + For. Inv. + RESD.cn)
Land use output (China Stat. Yearbook + RESD.cn)
Disaggregation (Chen *et al.* 2019)

$(I-A)^{-1} Y$ { MRIO (Chinese Stat. Yearbook + Mi *et al.* 2018)
International (GTAP.org + Exiobase)
Aggregation (Chen *et al.* 2019)

$\log_{10}(1 + r_x) = a \ln(x) + b$ { Uncertainty
Pseudo-randomness seeds