

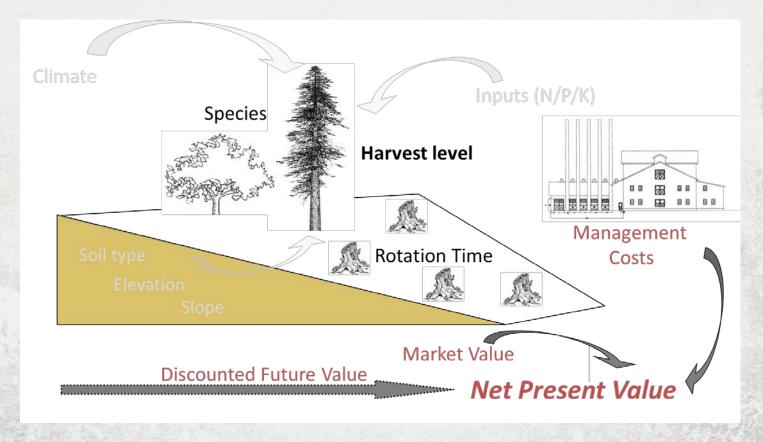
Invest timber PRODUCTION MODEL

- Estimates the amount of legally harvested timber from managed plantations or natural forests.
- Provides optional economic valuation of timber.
- Helps explore the net benefit of timber production and its tradeoff with other forest ecosystem services.



INVEST TIMBER PRODUCTION

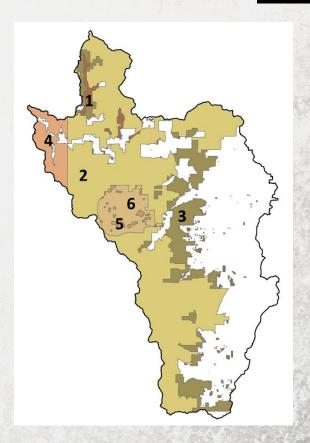




MODEL INPUTS

natural capital

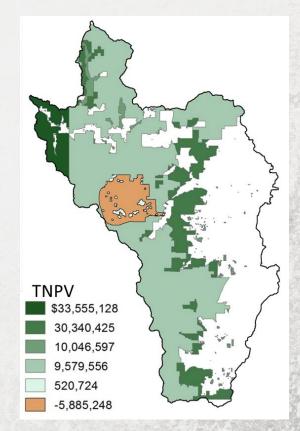
- Timber management zones (GIS vectors)
- Production parameters for each zone:
 - Total area (ha)
 - Proportion of area harvested (%)
 - Frequency of harvest (yr)
 - Mass of wood harvested (weight/ha)
 - Marketplace value (currency/weight)
 - Biomass conversion and expansion factor
 - Number of years modeled
- Economic parameters [optional for valuation]:
 - Annualized maintenance cost (currency/ha)
 - Harvest cost (currency/weight)
 - Market discount rate



MODEL OUTPUTS



- For each timber management zone:
 - Total net present value of timber production (currency)
 - Total biomass of harvested wood (metric ton)
 - Total volume of harvested wood (m³)



LIMITATIONS



- Not a profit maximization tool
- Assumes inputs remain constant over user-defined time period:
 - Percentage of forest harvested
 - Mass of timber harvested
 - Frequency of harvest
 - Harvest-related prices and costs
 - Discount rate