SIMANFOR

Forest management simulator

Aitor Vázquez Veloso

February 2025

Instituto Universitario de Investigación iuFOR GESTIÓN FORESTAL SOSTENIBLE

- Harvest criteria and intensity
- Individual tree models harvests
  - Thinning from below, from above and systematic
  - Thinning with future trees
  - Thinning by species (mix stands)
- Stand models harvests
- Minimum and maximum harvest age

- Thinning criteria
  - Density (trees/ha)
  - Basal area (m^2/ha)
  - Volume (m^3/ha)

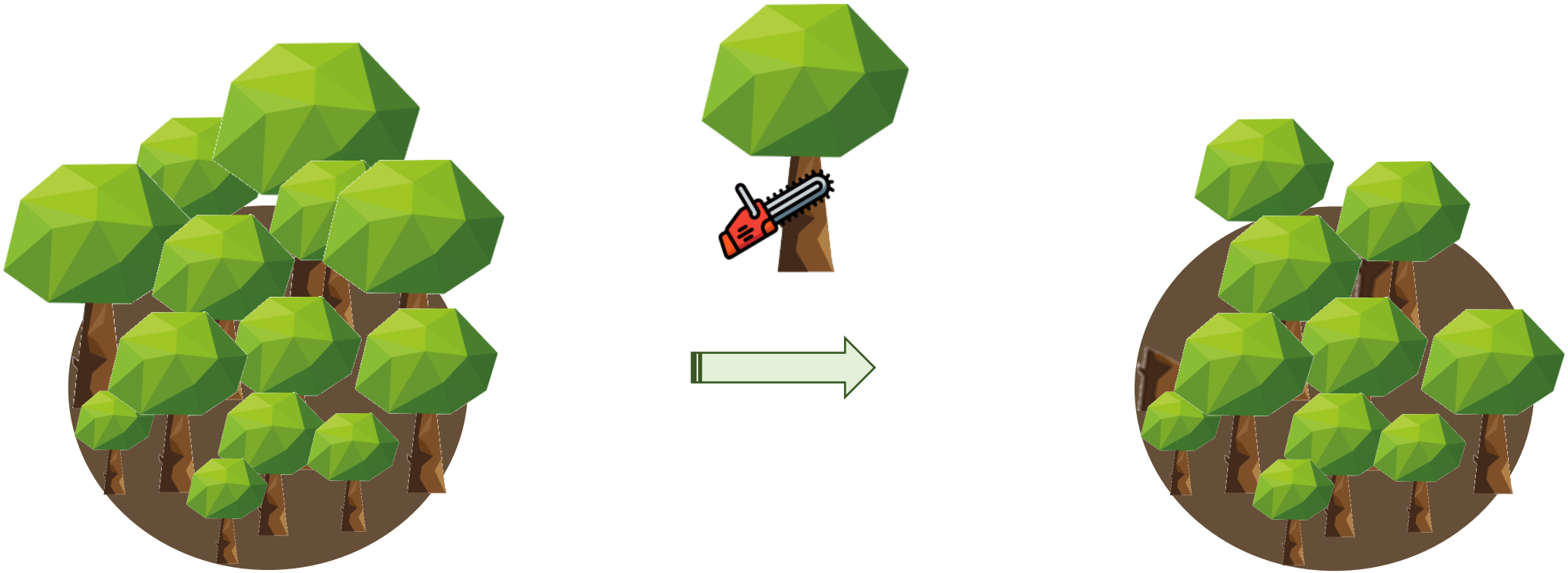
- Thinning intensity
  - % of the thinning criteria (from 0 to 100%)

Individual tree models harvests

Thinning from below

Individual tree models harvests

Thinning from above



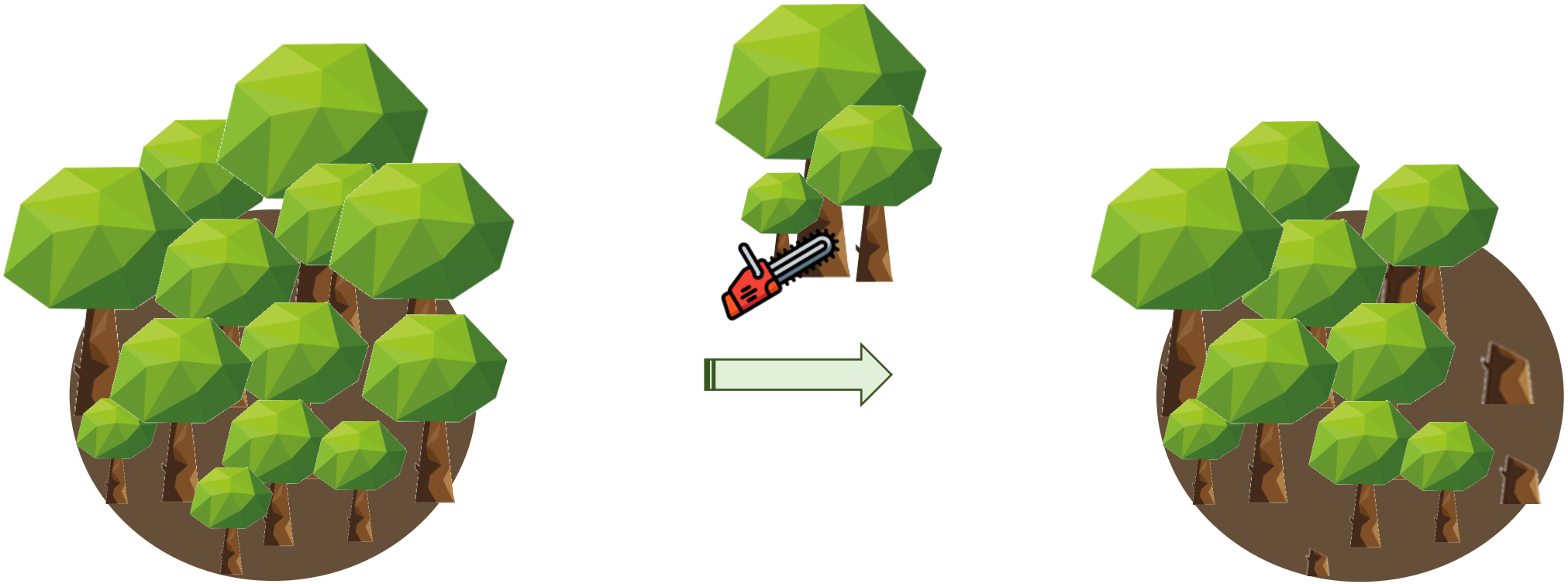
Individual tree models harvests

Thinning (from above) with future trees

- *preserve_trees:* % of larger trees on which no action is to be taken

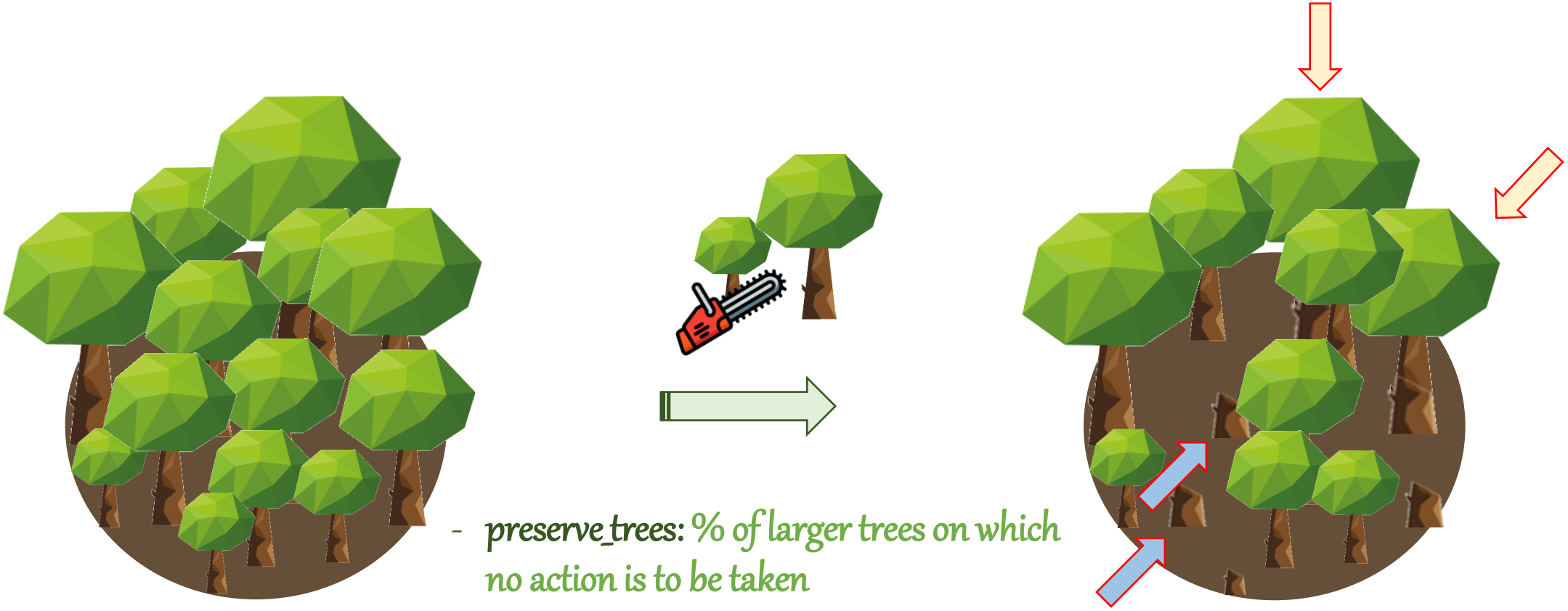
Individual tree models harvests

Systematic thinning



Individual tree models harvests

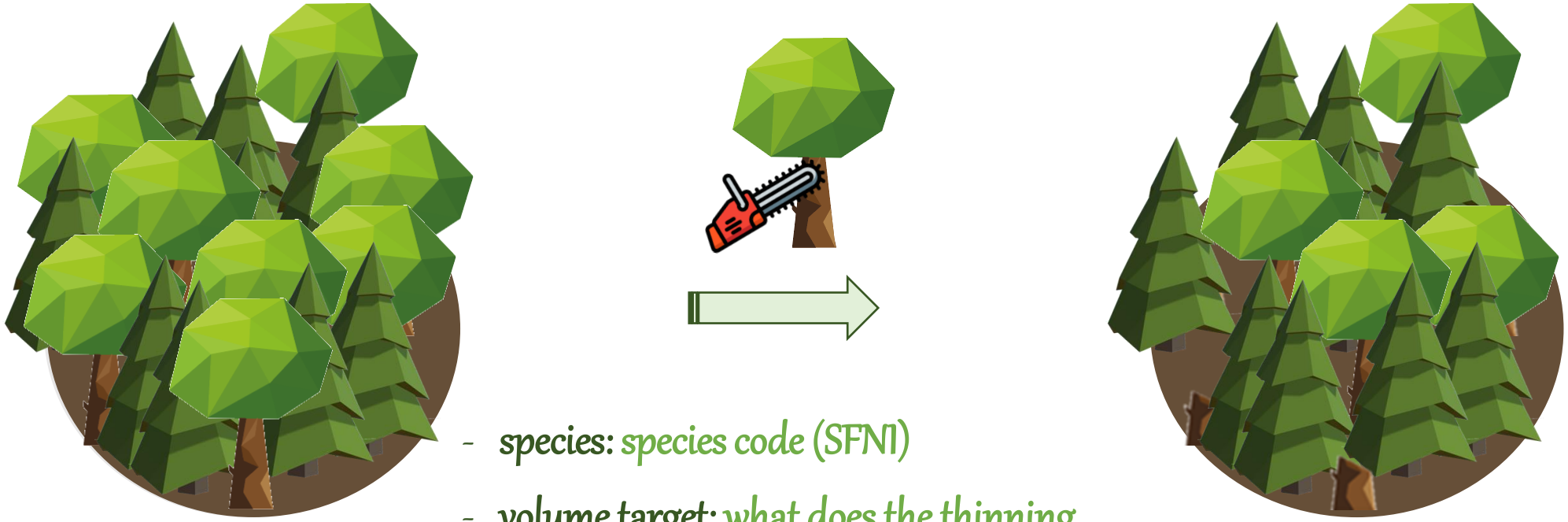
Systematic thinning with future trees



- *preserve_trees:* % of larger trees on which no action is to be taken

Individual tree models harvests

Thinning by species



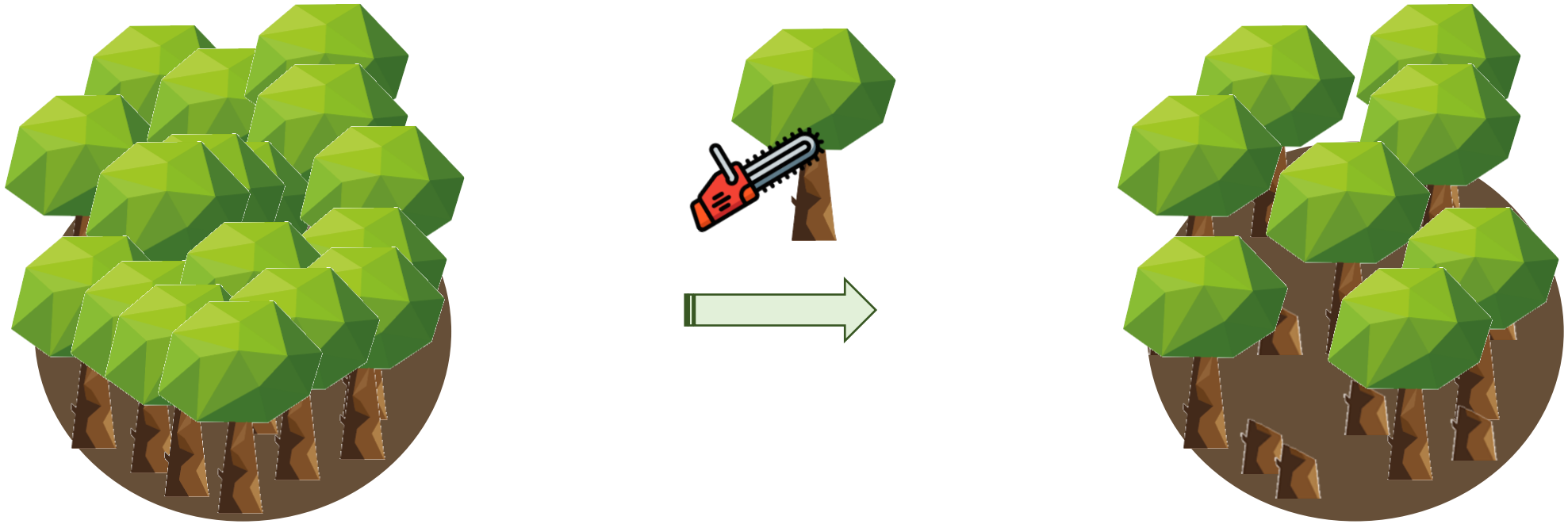
- **species:** species code (SFNI)
- **volume_target:** what does the thinning intensity apply to?
  - Plot
  - Species

Individual tree models harvests

Thinning by species

- **species:** species code (SFNI)
- **volume_target:** what does the thinning intensity apply to?
  - Plot
  - Species

Stand models harvests



Minimum and maximum harvest age

- **min_age:** minimum age of the stand to be cut/projected (years)
- **max_age:** maximum age of the stand to be cut/projected (years)

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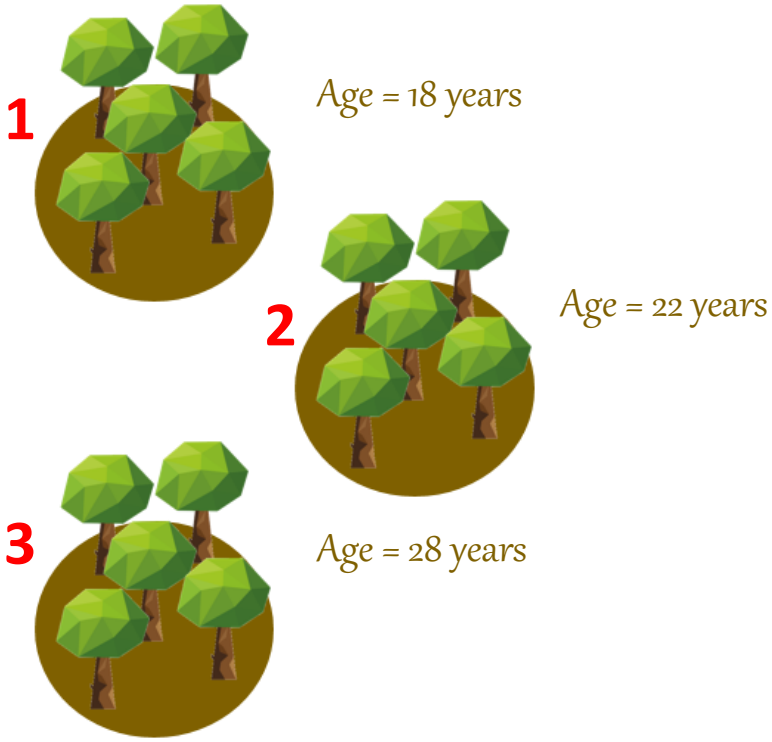
Minimum and maximum harvest age



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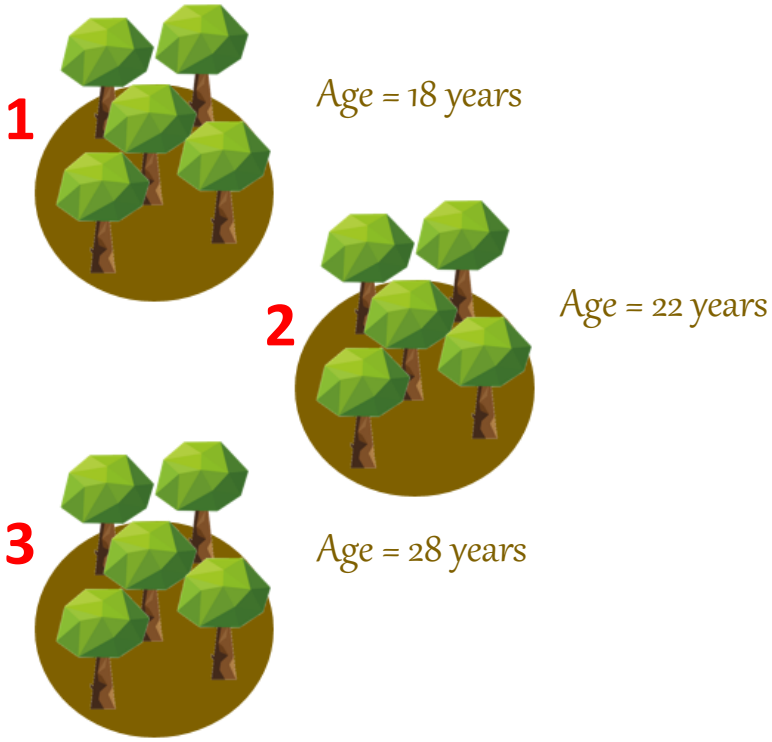
Minimum and maximum harvest age



Min_age = 20 years

Max_age = 25 years

- **min_age:** minimum age of the stand to be cut/projected (years)
- **max_age:** maximum age of the stand to be cut/projected (years)

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