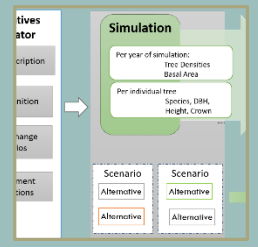
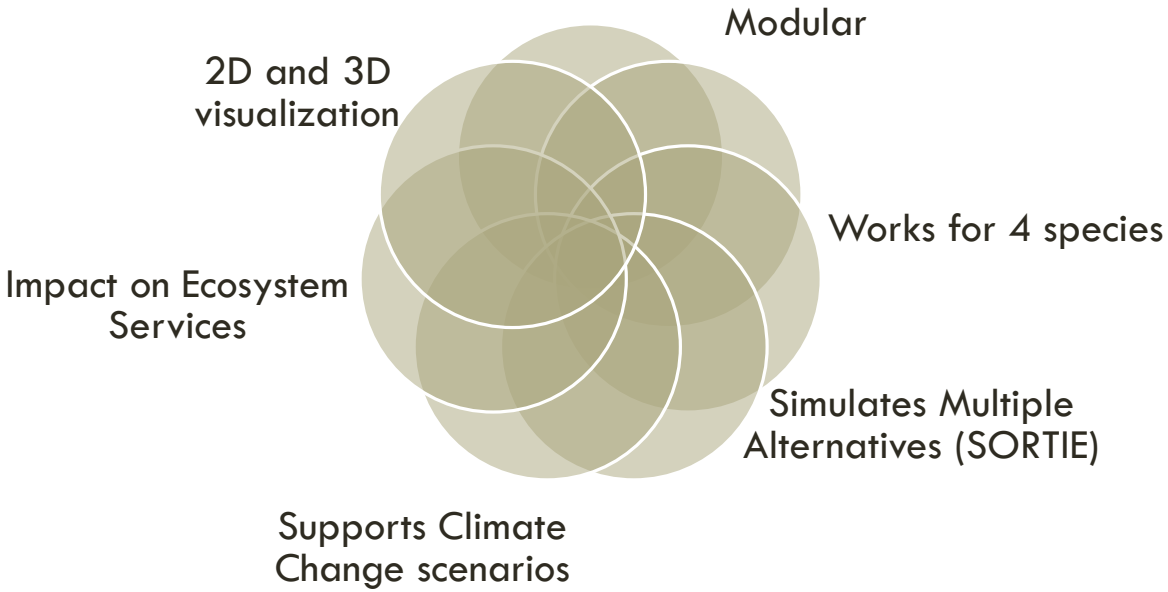
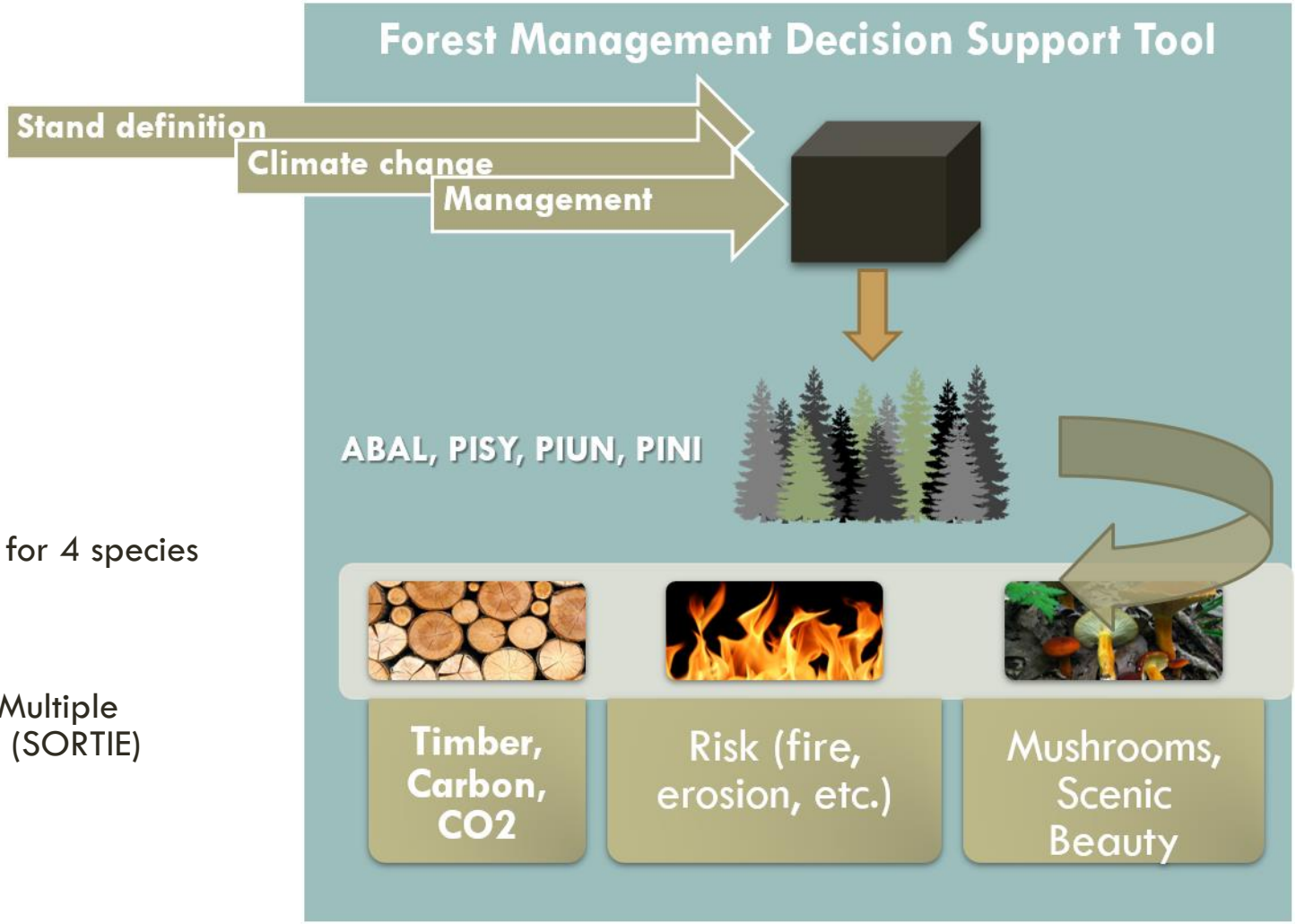


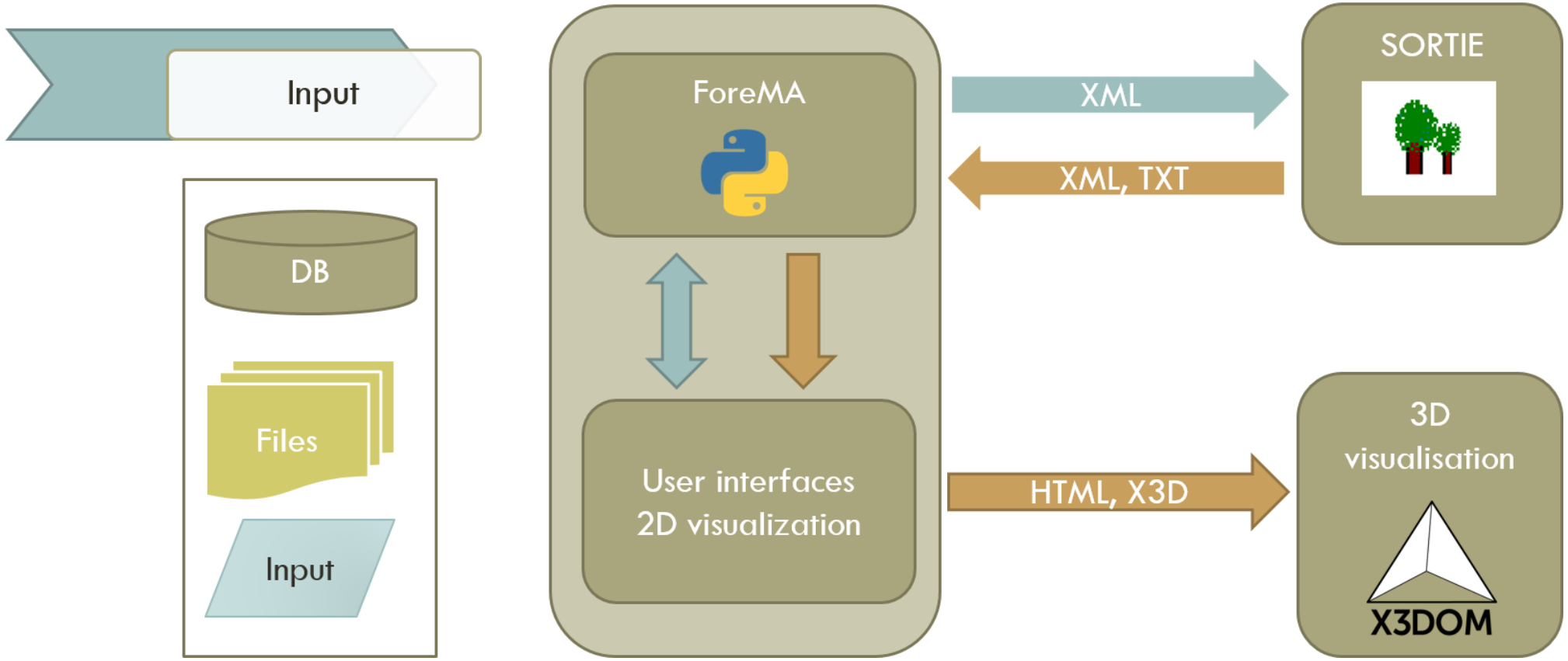
FOREMA QUICK START

WHAT IS FOREMA?

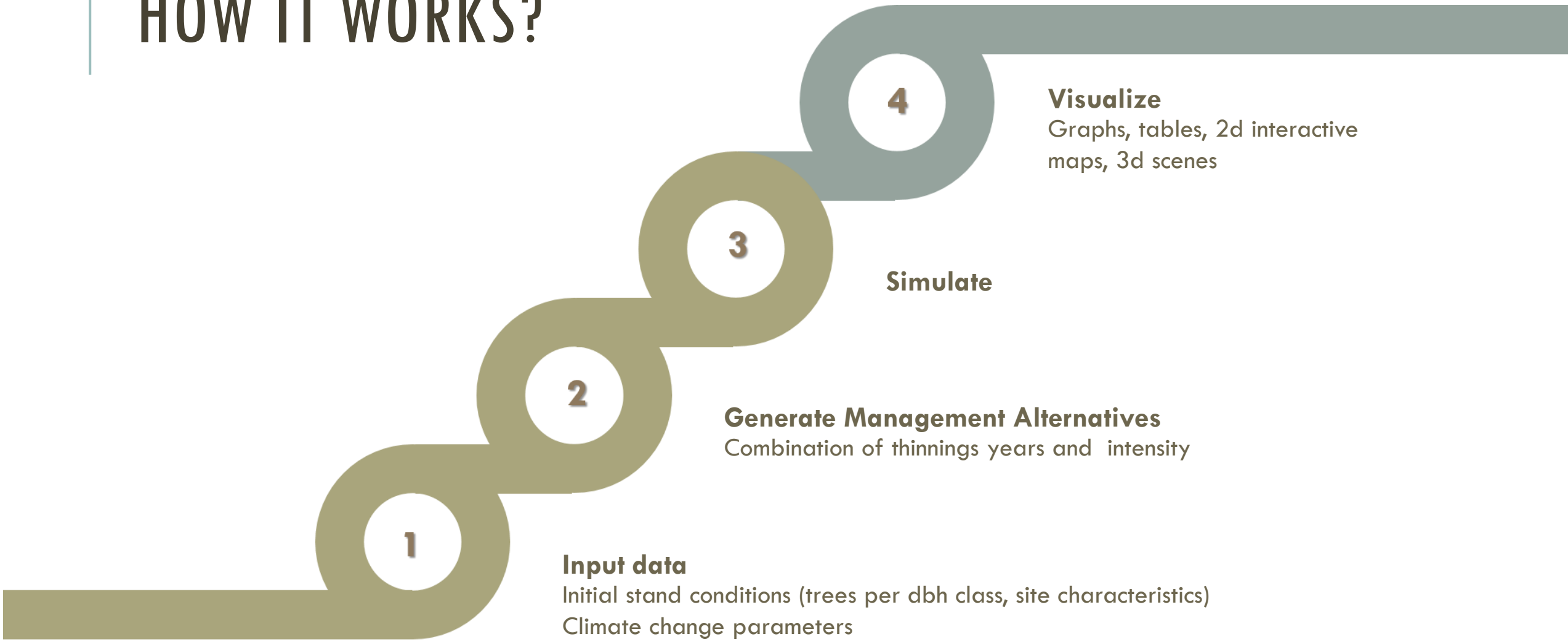




ARCHITECTURE



HOW IT WORKS?



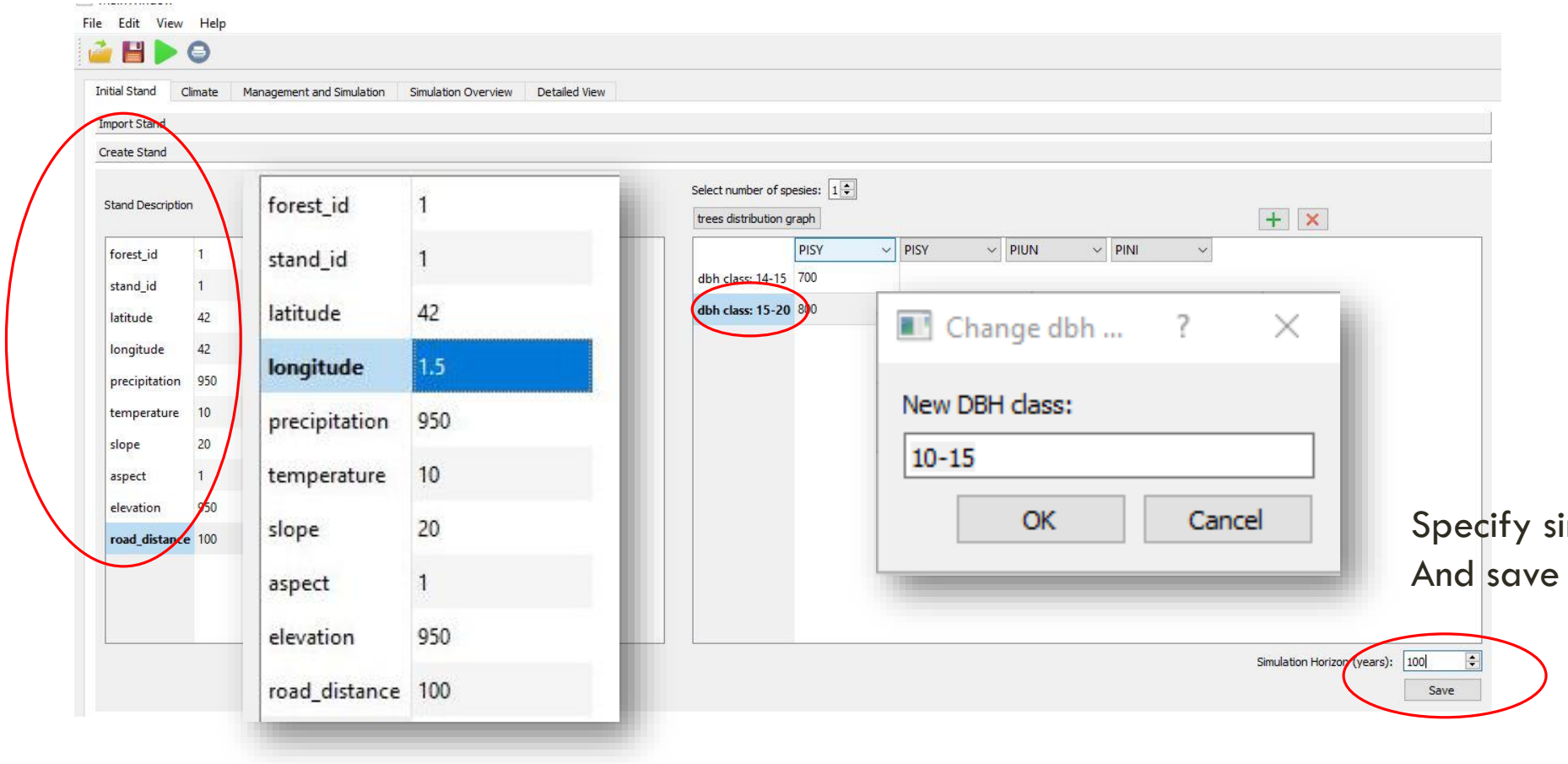
Visualize
Graphs, tables, 2d interactive maps, 3d scenes

Simulate

Generate Management Alternatives
Combination of thinnings years and intensity

Input data
Initial stand conditions (trees per dbh class, site characteristics)
Climate change parameters

STAND DEFINITION

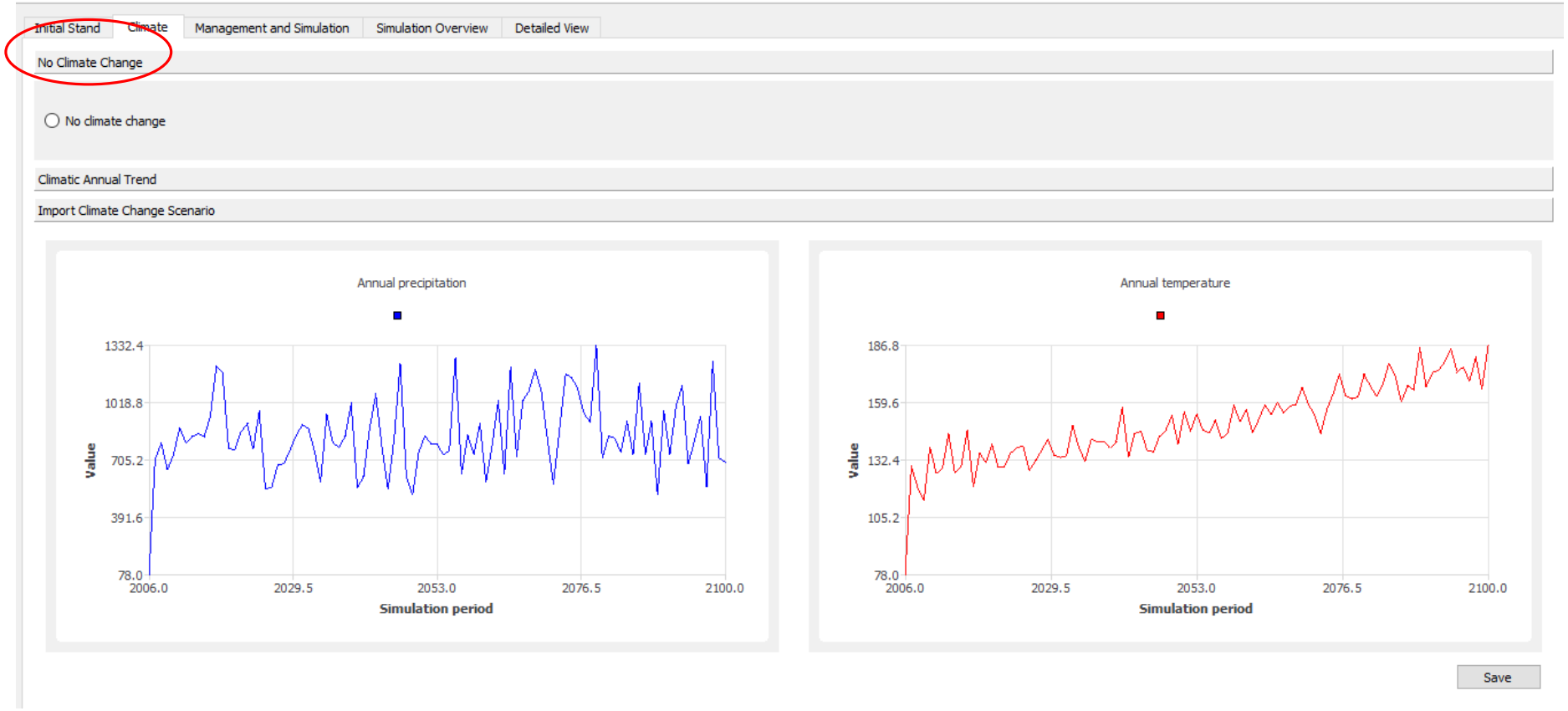


Specify simulation horizon
And save

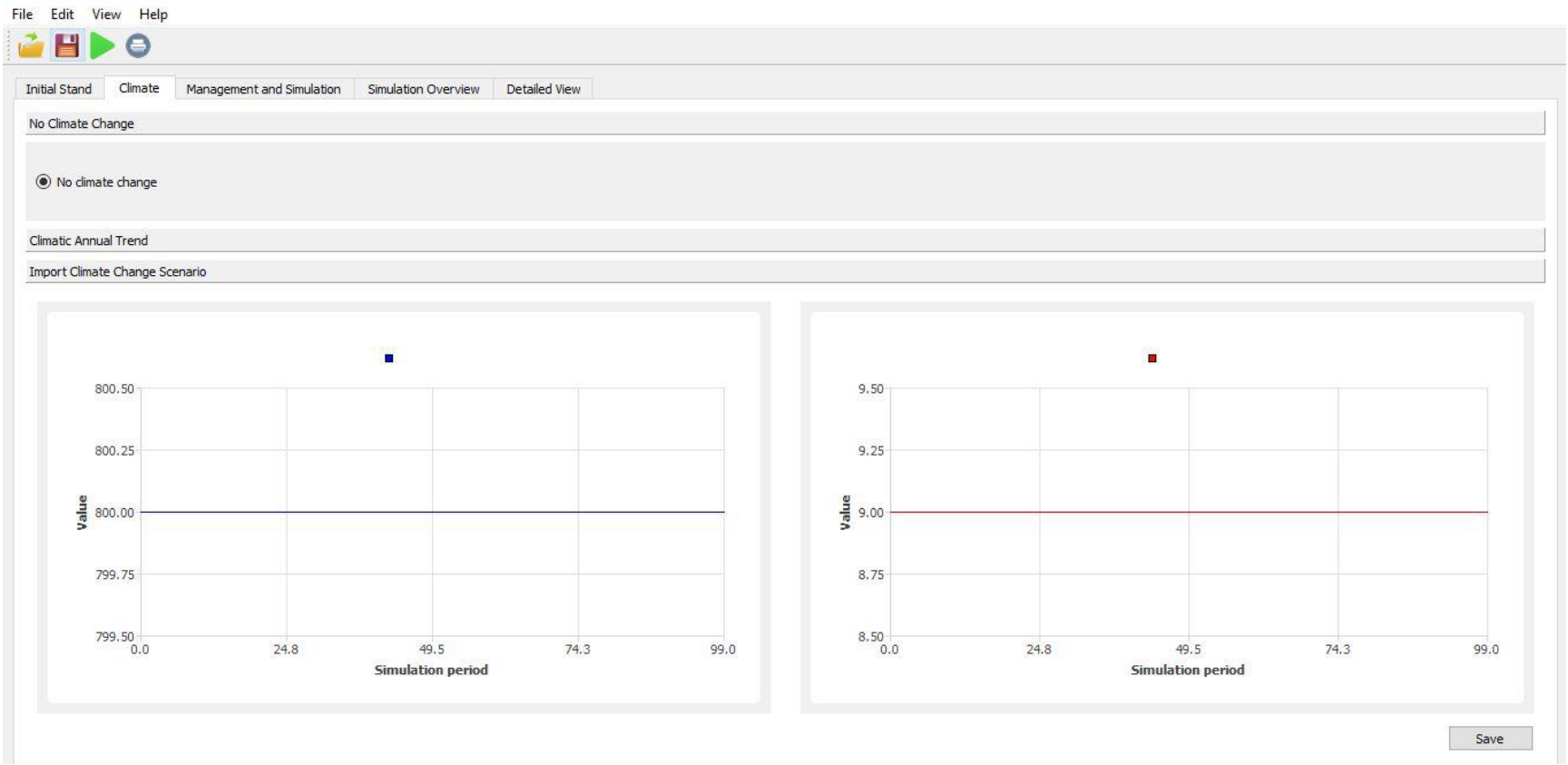
CLIMATE TAB

1. No Climate Change (precipitation and temperature will remain constant during the simulation)
2. Climatic trend (climate is altering each year based on specified coefficients)
3. Climatic Scenario files Import

EDIT CLIMATE



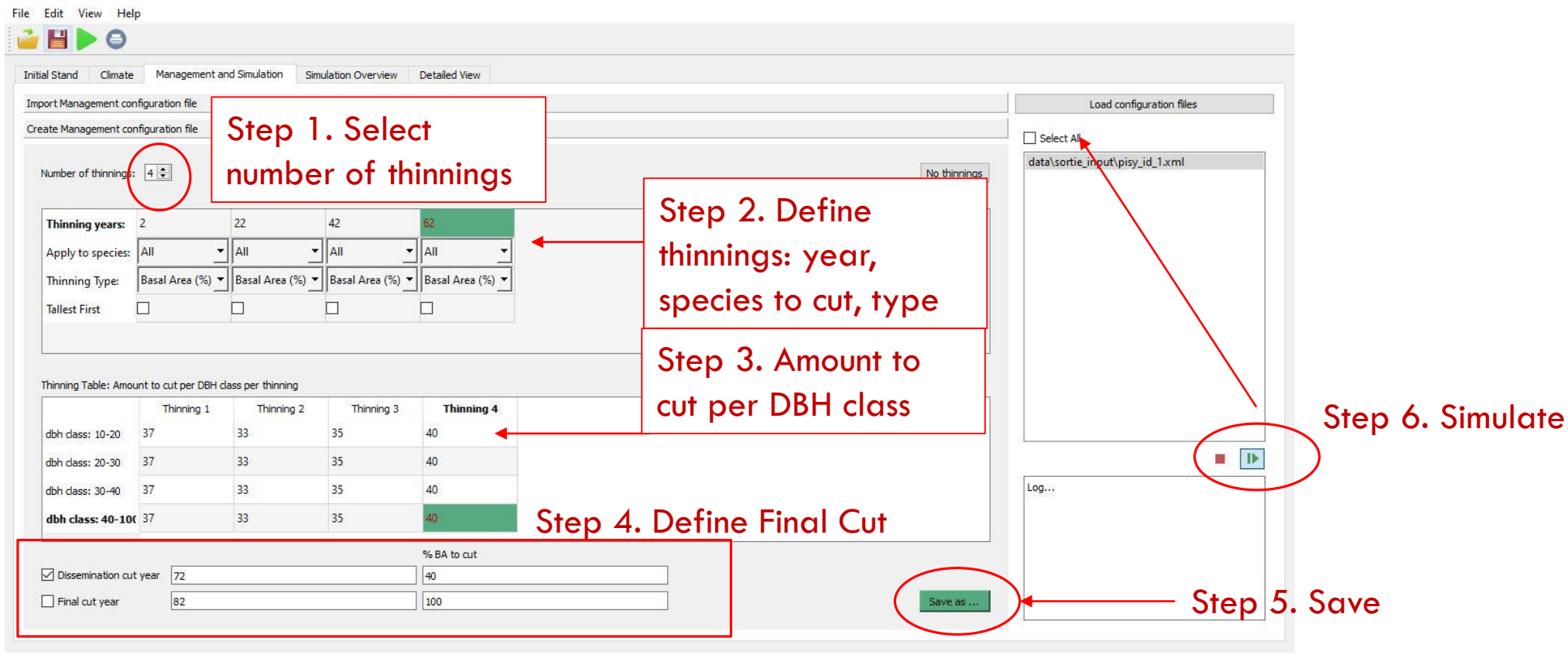
CLIMATE TAB – NO CLIMATE CHANGE



MANAGEMENT

1. Number of thinnings
2. Thinning Years
3. Thinning Type (Percent of Density or Percent of Basal Area)
4. Apply to which species
5. Amount to cut per each thinning (can be different for each DBH class)

MANAGEMENT INTERFACE

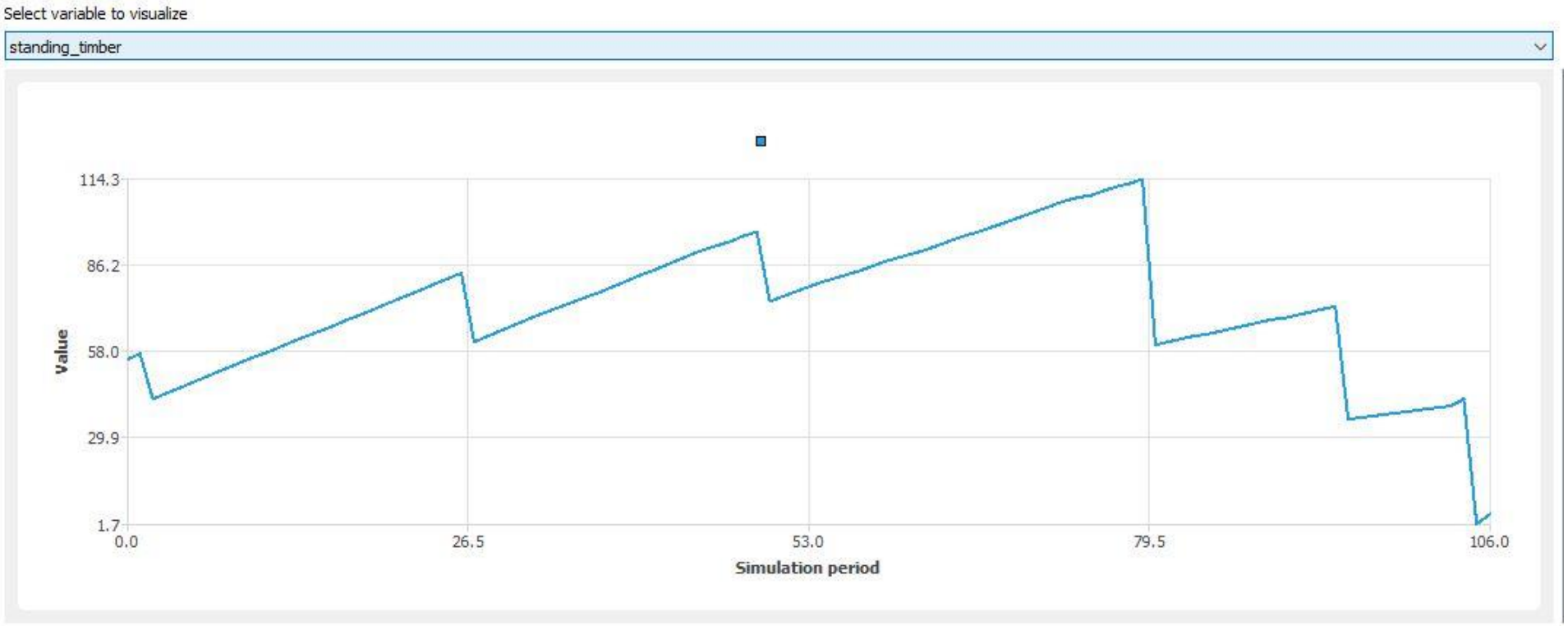


VISUALIZATION

Simulation Overview

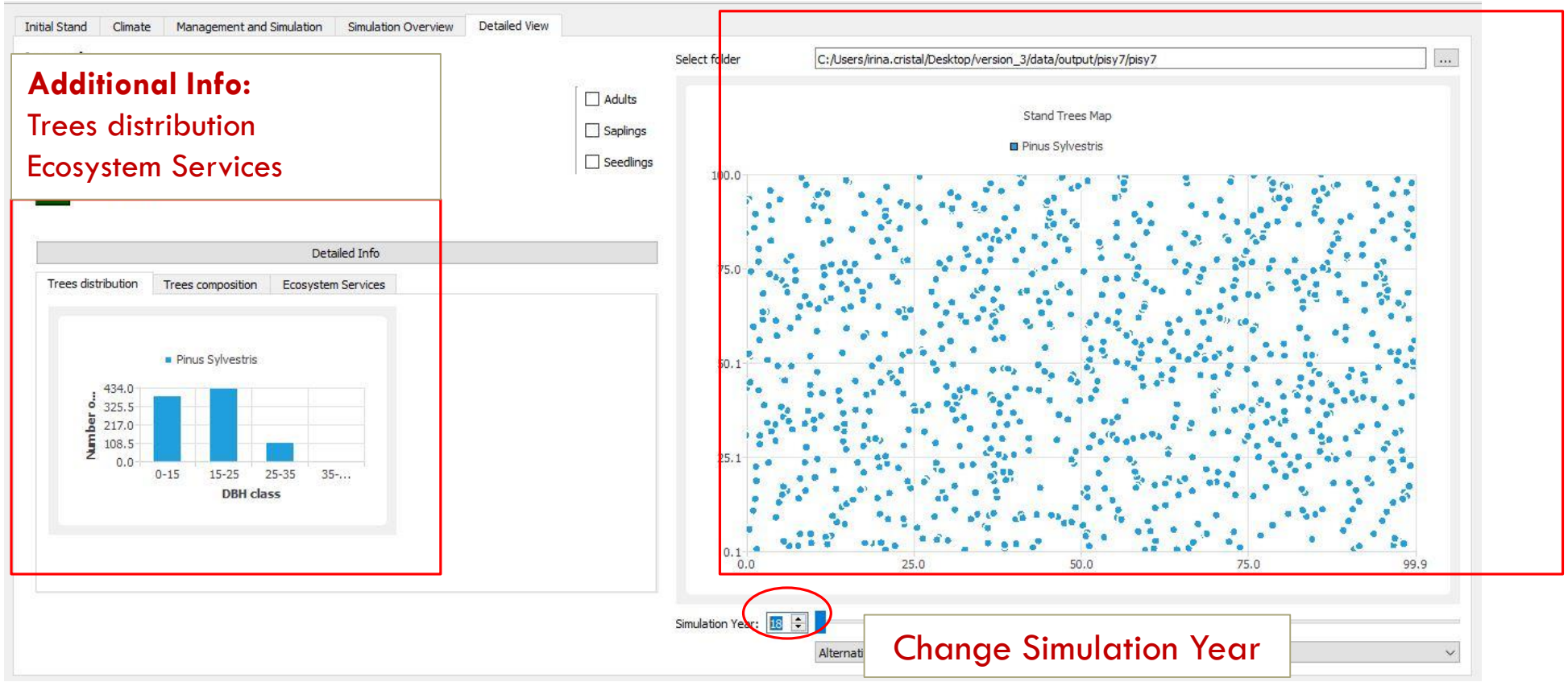
Detailed View of the stand per each simulated year

SIMULATION OVERVIEW – BASAL AREA



DETAILED VIEW

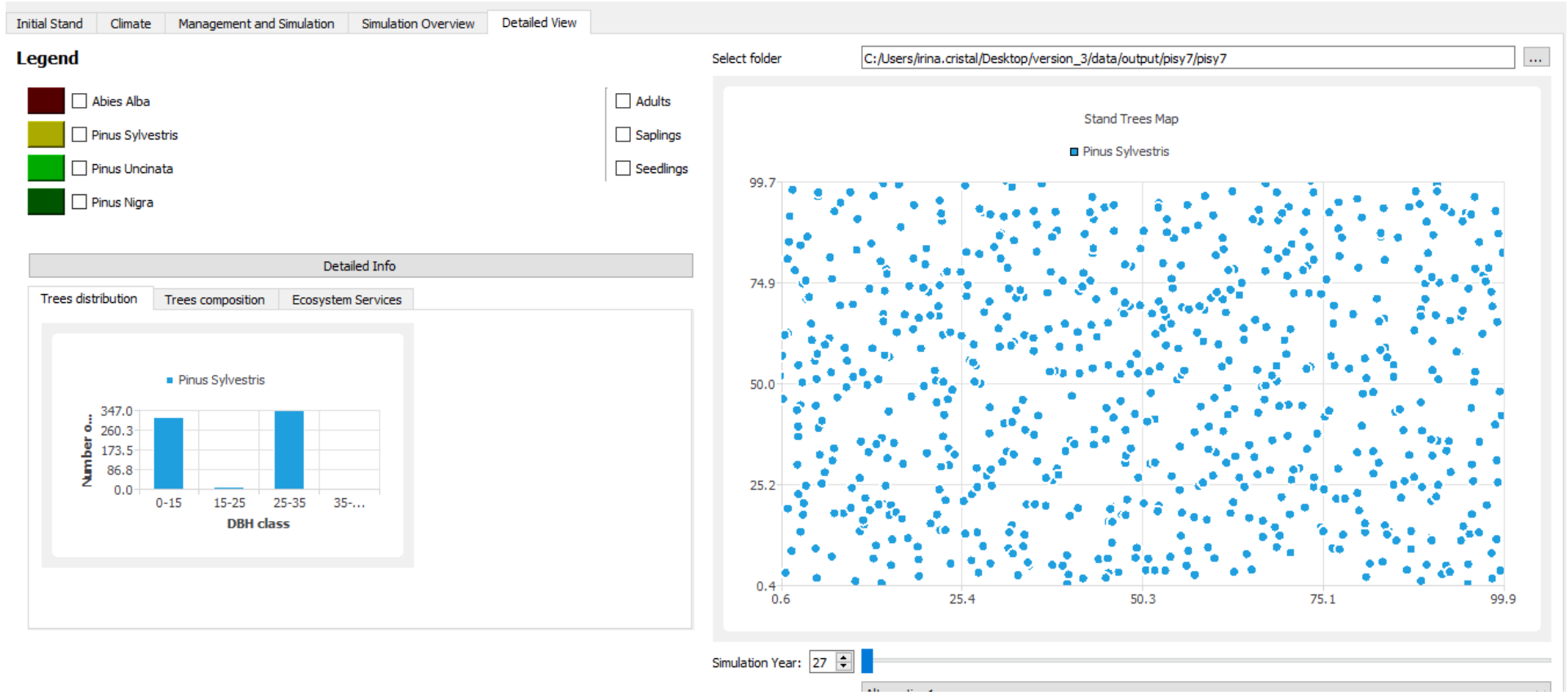
Tree Map



Additional Info:
Trees distribution
Ecosystem Services

Change Simulation Year

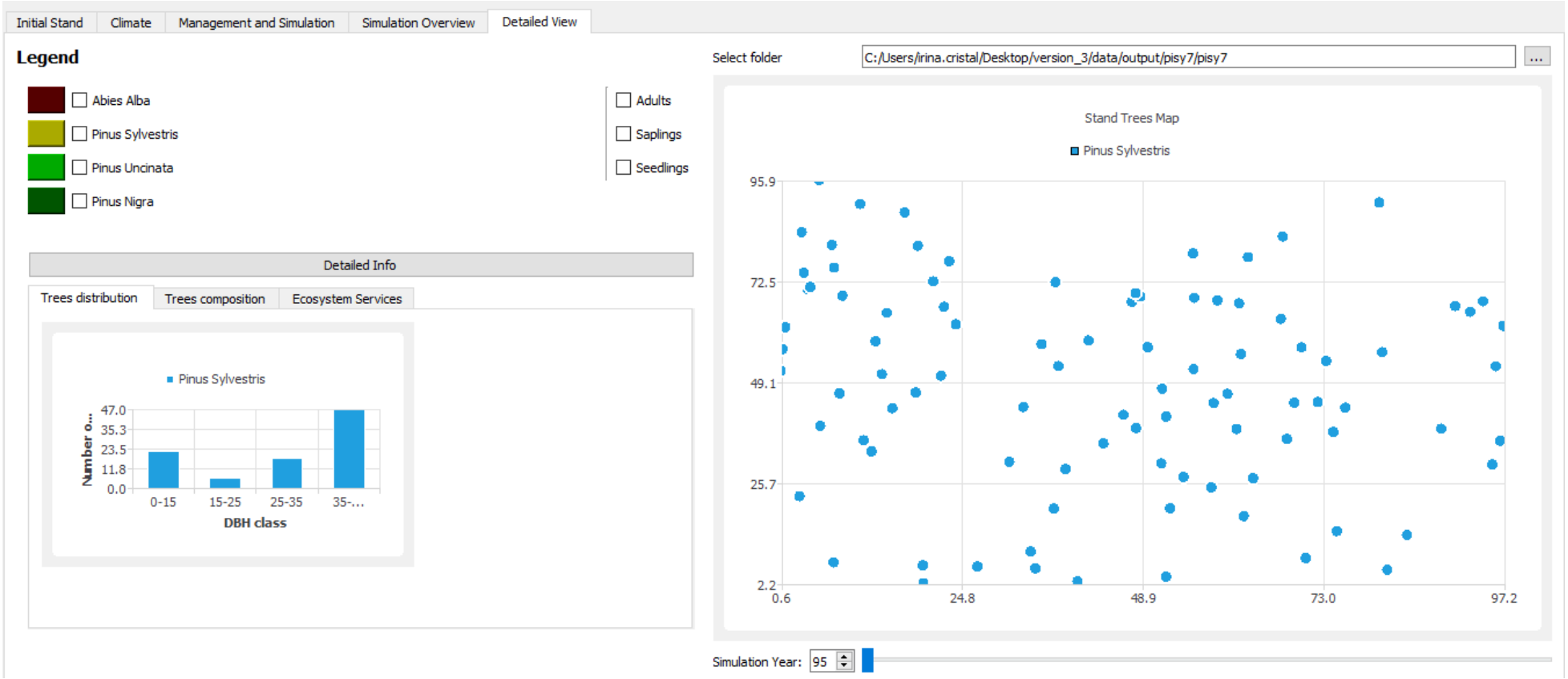
DETAILED VIEW: 2ND THINNING (YEAR 27)



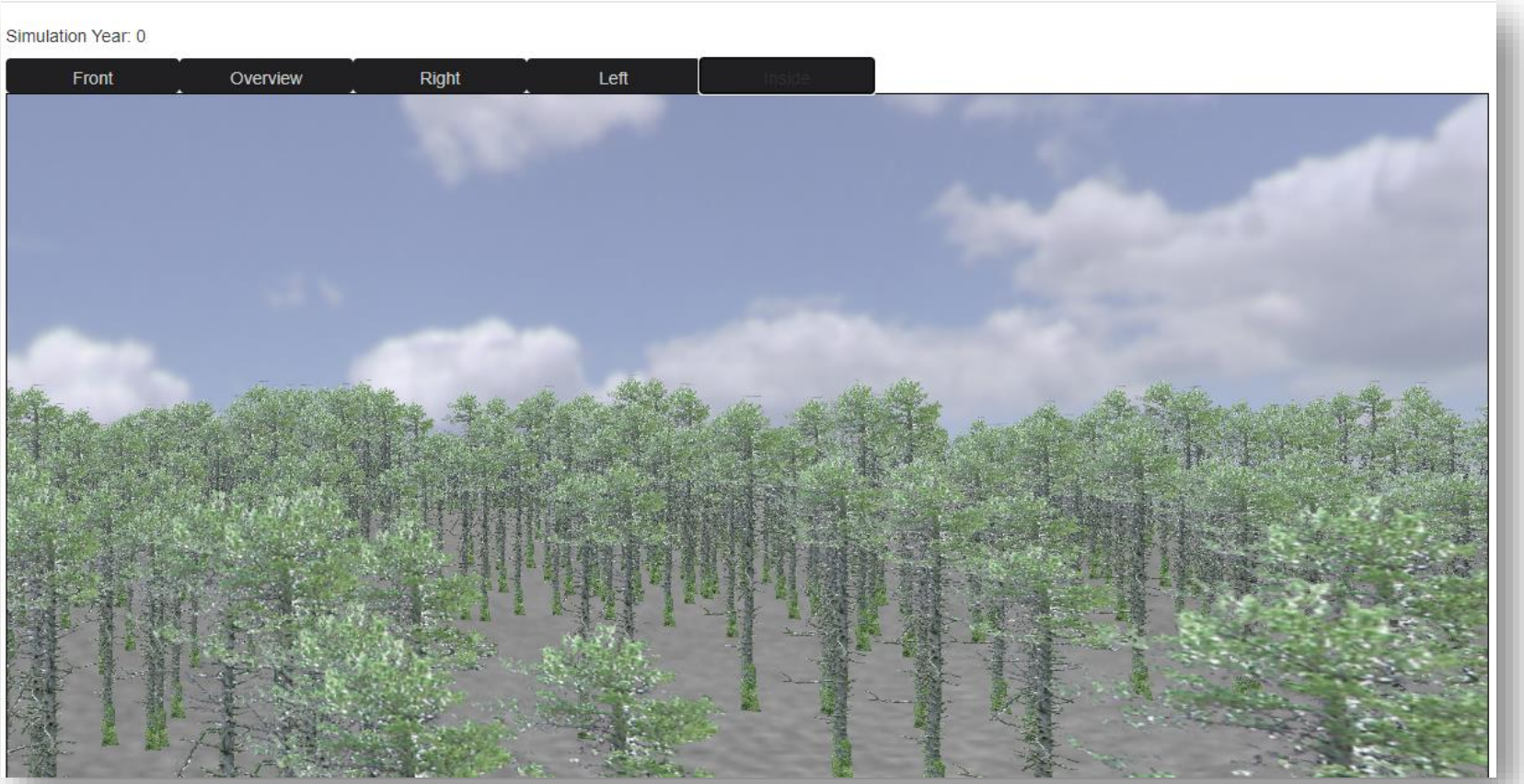
DETAILED VIEW: 3RD THINNING (YEAR 50)

DETAILED VIEW: 4TH THINNING (YEAR 80)

DETAILED VIEW: DISSEMINATION (YEAR 95)



3D VIEW



ADDITIONAL INFO

Publication:

Cristal, I.; Ameztegui, A.; González-Olabarria, J.R.; Garcia-Gonzalo, J. A Decision Support Tool for Assessing the Impact of Climate Change on Multiple Ecosystem Services. *Forests* **2019**, *10*, 440.

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