

Release notes

Version 1.0

2020

Functionality

- 1 Create a New Zealand webmap with Baseline map, e.g. OpenStreetMap
- 2 Add the layers that can be toggled on and off, e.g.,
 - a. NZ aerial imagery from LINZ
 - b. Infrastructure – Street Address, Roads, Waterways, Railways, Powerlines, Metal Quarries, log export ports, wood processing locations
 - c. Cadastral – property legal boundaries
- 3 Search for an address and zoom to it
- 4 Select "Drawing" tool, and draw woodlot boundary – and save
- 5 Select "Roading" Click to start drawing access road polyline manually.
- 6 set one costing option from drop down list with "Trucking" or "Forwarder"
- 7 Highlight road slope (in different colours) that exceed tables of slope maximum criteria, e.g. ≤ 7 degrees for "Trucking"
- 8 Click on road line and move to improve location or slope and recalculate slope/costs by manually clicking calculate button.
- 9 Select "Skid location" tool – a point drawing tool
- 10 Click center point of skid with point drawing tool
- 11 Show skid outline on map to scale – e.g. 50m x 50m
- 12 Hard coded 50m buffer from point, and then converted to square buffer only for visual display on map
- 13 Select "Harvest Options" dropdown selection for Item 14
- 14 Set access road level from drop down list provided. E.g Forwarder, Truckr
- 15 Select "Inputs", provide forms for users to input forest details, prices and costs in table format. Provide starting defaults from lookup tables.
- 16 Implement simple cost algorithms such as:
 - i. Harvest system costs calculated from variables derived/dropdown selection
 - ii. Skid costs will be calculated based variables derived from map and look up tables provided.

- 17 Calculate final total woodlot harvest costs based on the inputs with a formula provided
- 18 Show printable map (just basic print "what you see is what you print" as a png)
- 19 Provide print function with results table with user enters reference name or address/identifier.

Version 2.0

2021

- 1 Migrate to production server and set up
- 2 Show woodlot ground slope as coloured map
- 3 Enable multiple road lines to be tested in one session
- 4 Enable multiple (woodlot) polygons to be digitised in same session
- 5 Add layer (or access web service) for Erosion Susceptibility Classification- NES_FP
- 6 Analysis of road line slope from elevation to improve accuracy
- 7 Add new 5 species layers of productivity and use to estimate wood yield from Look up tables (two regimes and five stand ages)
- 8 Show all powerlines (currently have 110kv Transmission) data from LINZ or other data sources
- 9 Develop prototype afforestation addition to interface called "Tree Planting"
- 10 Develop User Manual document
- 11 Develop Tutorial video

Version 3.0

2022

- 1 Extend functionality of drawing Access Road polyline by allowing branch roads to attached to existing roads
- 2 Project management: End User can then name 'Project" and "Save"
The following data will be saved
 - Area of interest "Polygon", Road "Lines". Skid 'Points"
 - Data will be saved into the End Users local PC file system
 - Project details
 - Input criteria
- 3 Set up and manage "User Group"
- 4 Update User Manual and Tutorial video