Sawmill Industrial Implementation

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<u>Step 1 - Resource characterization – precision matters</u>:

- Log quality determines product opportunities (potential value), target markets, and process design attributes
- Log diameter distributions drive product opportunities (volumes), scale of mill, design and equipment selection
- Accurate volume per acre by diameter & quality; high level of confidence for developers and potential investors

Value opportunities in Ponderosa Pine range from lumber worth \$125/MBF to over \$2,000/MBF, in other conifers such as Douglas Fir & Southern Yellow Pine typical values range from \$125/MBF to \$750/MBF

<u>Step 2 - Market research – thoroughness matters</u>:

- Modeling of all relevant product opportunities from each log diameter by quality classification
- Presentation of modeled products (T x W x L x Grade) and projected quantities (volume) to Pine market(s)
- Market feedback determines true value potential, focuses product line and thus mill design & process attributes

<u>Step 3 – Mill Design – profitability matters</u>:

- Mill properly designed to take "characterized resource" into the highest value market(s) at the lowest cost of manufacturing ~ designed to be resilient to inevitable market fluctuations and remain profitable
- Profitable sawmills are the key economic engine to advance restoration efforts across a broader landscape
- Profitable sawmills require the support of companion wood products cluster businesses



Idaho – Utilization of Harvest of 1.131BBF







