

Outcome logic for STUMP to PUMP Programme

4th Nov 2013

Significant benefits to NZ:

Socio-economic
Highly skilled job opportunities.
Regional community development

Environmental
Reduced greenhouse gas emissions.
Increased renewable energy, reduced carbon footprint

Economic
Additional revenue, improved balance of payments, increased GDP.

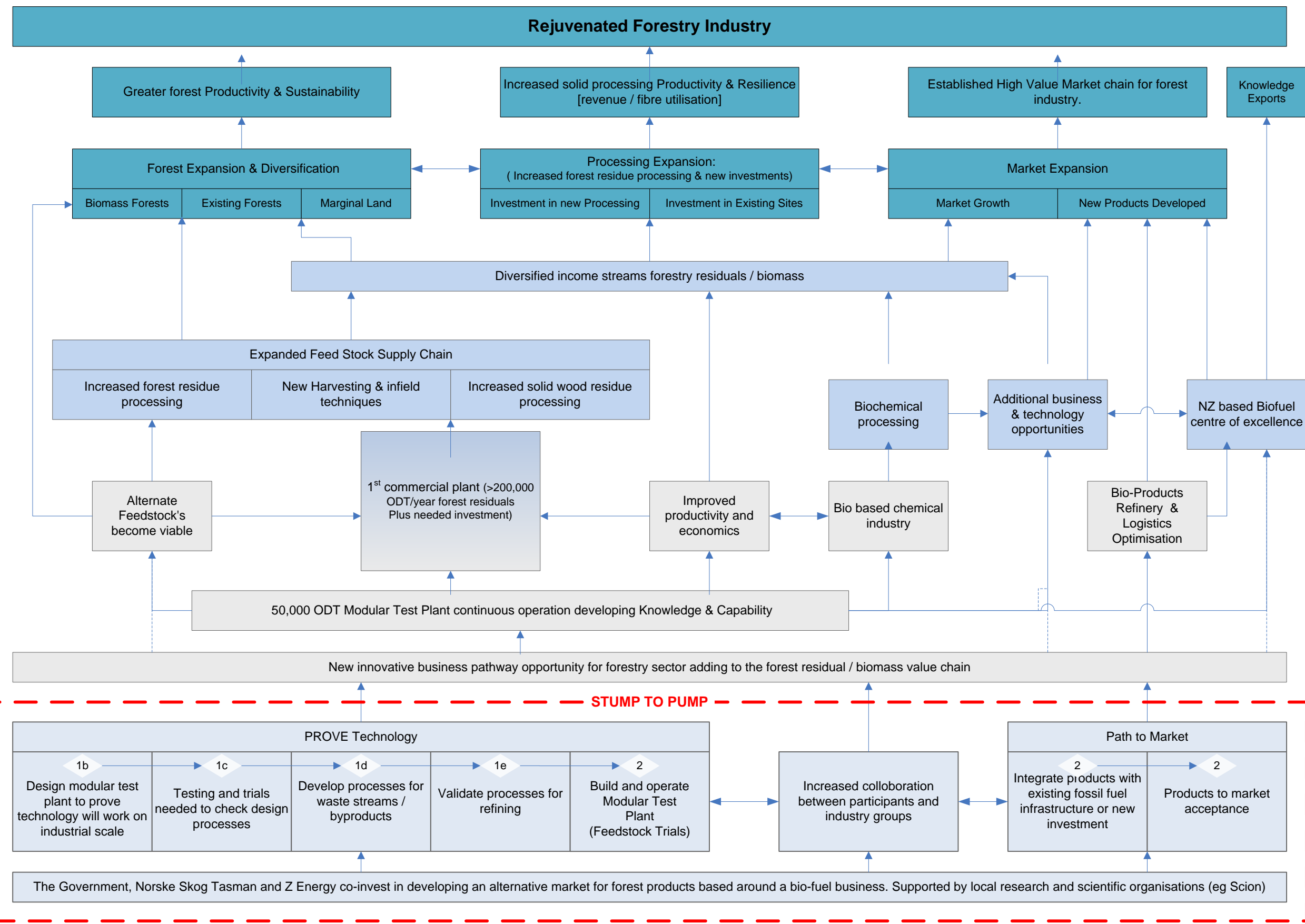
Technology, Research & Development
Proven conversion technologies, new R&D capability, development of new bio-based chemical industry.

Long-term outcomes
2030

Effects of activities (medium term outcomes)
2020

Effects of Activities (short term outcomes)
2015

Enablers: Inputs, Activities & Outputs



Economic impacts:
>\$1.1billion GDP

NZ Reputation
100% Pure
Green Miles
• Exports
• Air Travel
Global leadership in alternative fuels
Improved fuel stocks position
Public Approval
Security of Supply

1st Commercial Plant Economic impacts:
Investment, Employment, Revenue

NZ Economics
Increased skilled employment (provincial areas)
Carbon Position
Improved balance of payments
Potential export of technologies
Construction Activity

Problem Definition

New Zealand is not extracting the full value of its forests by only using a limited percentage of the harvest and wood processing residuals and not adding value to export logs.

There are limited growth opportunities for traditional wood processing options such as sawn timber and pulp and paper products due to narrow and shrinking export markets, international competition, and a saturated domestic construction sector.

NZ Forest & Wood Products Strategic Plan highlights \$5.9 billion opportunity.