Precision Silviculture Partnership

MACHINE THINNING & MORE

Presenter: Don Scott

Meeting Date: 7/9/2022



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BACKGROUND

- The problem to solve.
 - Steep slope mechanised thinning solutions with options for biomass extraction.
 - Also provide a solution to apply pruning mechanisms, and other attachments.
 - Address future economic, health, safety and environmental realities.
 - Attract staff.

APPROACH

- High-level summary of the approach taken.
 - Scan technologies for waste and extraction thinning in NZ and overseas. Analyse for applicability.
 - Identify technologies to meet needs not covered by existing systems.
 - Develop concepts around these technologies.
 - Use small workshops to evaluate and progress the technologies.

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PROJECT HIGHLIGHTS TO DATE

- Conclusions from technology scan we can do better.
- Limitation of existing technologies for NZ context steep, broken land, fragile soils, aggressive throughput requirements, high costs.
- Improving existing technologies. Multitool and attachments, minimachine and attachments.
- Novel tech eg: UAV

WHERE TO FROM HERE?

- The project is ongoing. Next steps.
- Detail concepts so they are clearly understood.
 Analyse the output of detailed 3D models.
- Work with industry though workshops and refine.
 Desktop evaluate potential against solution requirements.
- Consider further developing, plans for testing, adoption, and high level timelines.

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Implications for industry

- A fresh look at a potential and increasing wider problem.
- The wider problem is industry credibility and profitability.
- The potential to move towards addressing that problem.

INVOLVEMENT FROM INDUSTRY

- Support to tease through the credibility of presented technologies.
- What support do you need from industry partners.

I have a number of heads of industry who have supported my work in mature harvesting aspirations.

Acknowledge support from industry partners to date.

I would like to thank them for that support.

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