STIMBR

PROGRESS UPDATE

18th October 2017
Don Hammond
Chairman

Background

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2010 EPA re-assessment of MBr required fumigations to be subject to recapture from October 2020.

Reminder

Note: This is <u>not</u> a ban on the use of methyl bromide.

Obligations to Global Community and the atmosphere

Outcomes Sought

Continued ability to trade

Supported by science

Cost effective

Socially responsible

Practical at scale

- **Waste creation/disposal**
- **Power supplies**
- **Transport infrastructure**
- **Storage**

The Landscape

	2016	2021
Harvest	30.7 m tonnes	Est 34m tonnes
Export	16.6 m tonnes	Est 20m tonnes

- **Phytosanitary issues will increase**
- **Potential non tariff barrier**
- **Changing markets and import requirements**
- **Changing community expectations**

The Landscape – export logs

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Phosphine only accepted by China

- **In transit, cheap**

Debarking also only accepted by China

India only accepts MBr treatment

MBr cannot be used in transit

Logs generally a low value product

Progress to Date

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Comprehensive literature review

Need a tool box of solutions – there is no one size fits all

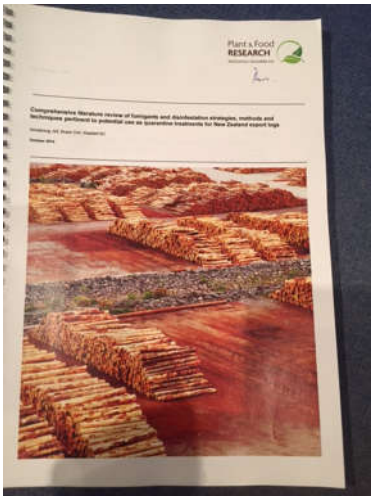
EDN the only potential alternative fumigant

Risk free periods

Joule Heating

Debarking

MBr Progress



Progress - EDN

EDN
- **Registration underway**
- **Efficacy data sets**
- **Socialisation and agreement with trading partners**

Benefits
- **Non GHG**
- **Non ozone depleter**
- **Drop in alternative to MBr**

Progress – Risk Free Periods

Ecological approach to understanding risk

>1 million insects trapped across NZ

4 year programme

Risks:
- **New introduction**
- **Climate change**
- **Quantifying efficacy**
- **Must have wings**

Progress – Joule Heating

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Physical destruction of pests

Proven to work in lab

Can it be scaled?

Costs?

Space?

Future proofing

Progress – Debarking

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Not a phyto treatment, risk reduction

Only accepted by China

Assessed:
- **Costs**
- **Processors**
- **Static debarkers**

Issues:
- **Costs**
- **Waste disposal**
- **Future proofing**

Progress – methyl bromide

Lower application rates confirmed

Recapture

Globally still not achieved at scale

Several systems assessed

- **Nordiko system**
- **Genera system**
- **Bletchley**

Summary

MBr remains vital to log exports ($2b)

Difficult to recapture or destroy MBr

EDN Possible alternative

Ecological approach has limitations

Joule heating has potential

Need time and support including from trading partners