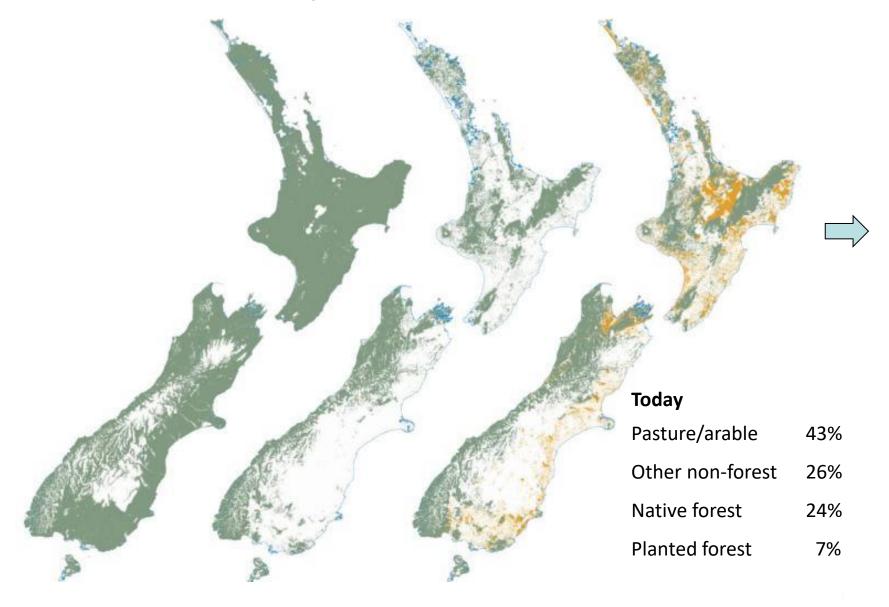


## Future forest systems- indicators for a changing world Tim Barnard and Tim Payn



## New Zealand's forest story ...



Meeting future aspirations and needs

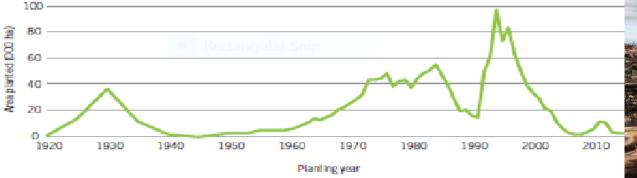
Pre-human

Existing Native Forest

Existing Total Forest Cover

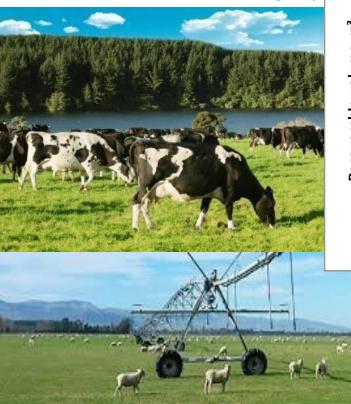
#### Figure 3 New forest plantings 1920-2016

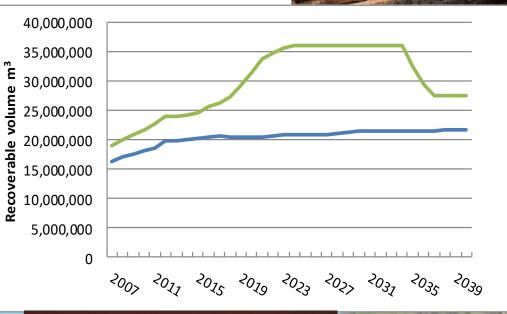




#### p Provisional

#### Source: National Exotic Forest Description,







Grazed ...

PREDATOR FREE NZ Un-grazed

## Native forests toolay

#### Table 1.3: Indigenous forest area and percentage by forest class (1999-2003)

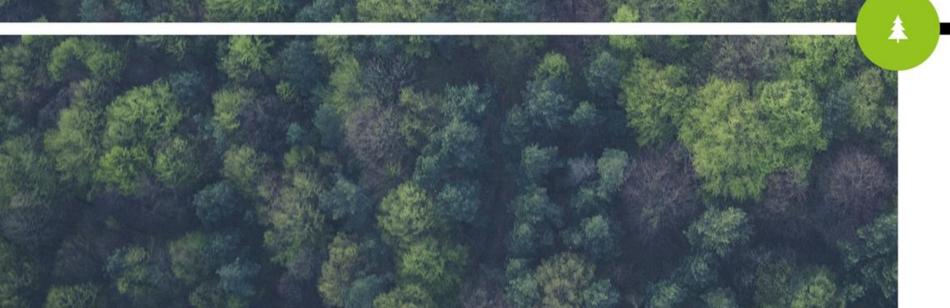
Kall to berast its mate knort nel

Indigenous forest class	Area (000 ha)	% total indigenous forest area
Podocarp	65.2	1.0
Broadleaved	348.3	5.3
Beech	2 184.4	33.3
Podocarp-broadleaved	1 246.5	19.0
Beech/broadleaved	98.1	1.5
Podocarp-broadleaved/beech	1 831.8	27.9
Kauri	91.6	1.4
Coastal	5.2	0.1
Unspecified indigenous	501.0	7.6
Subalpine scrub	193.1	2.9
TOTAL	6 565.2	100.0

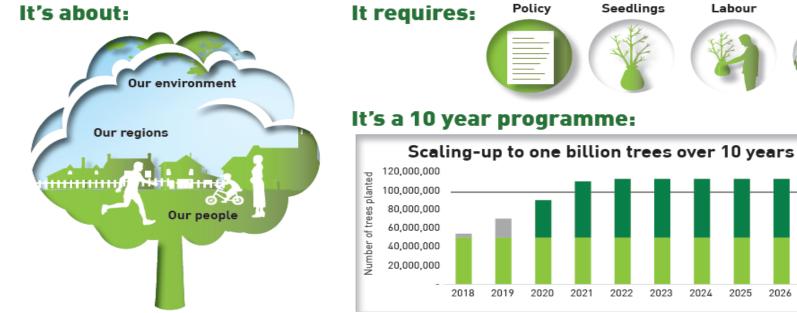
Source: Shepherd et al, 2005.

# 1 BILLION TREES PROGRAMME





## **One billion trees** – Reclaiming our forest heritage together



### We'll do it together:

Commercial sector Base planting of 50 million/ year projected Plant nurseries



Department of Conservation Private landowners





Coalitions

together

Skills and training

Government departments,

Māori and NGOs working



2021

2022

2020

Policy

Seedlings

Labour

Land



2023

2024

2025

2026

2027

....

**Regional Councils** Catchment assessments Infrastructure Funding and partnership initiatives Riparian and gully planting



Processing/Products

- Additional planting the programme will need to deliver, approach for delivering the planting yet to be confirmed
- Baseline forecast of trees to be planted (including replanting)
- Average annual planting over 10 years

Infrastructure

#### Ministry for Primary Industries schemes

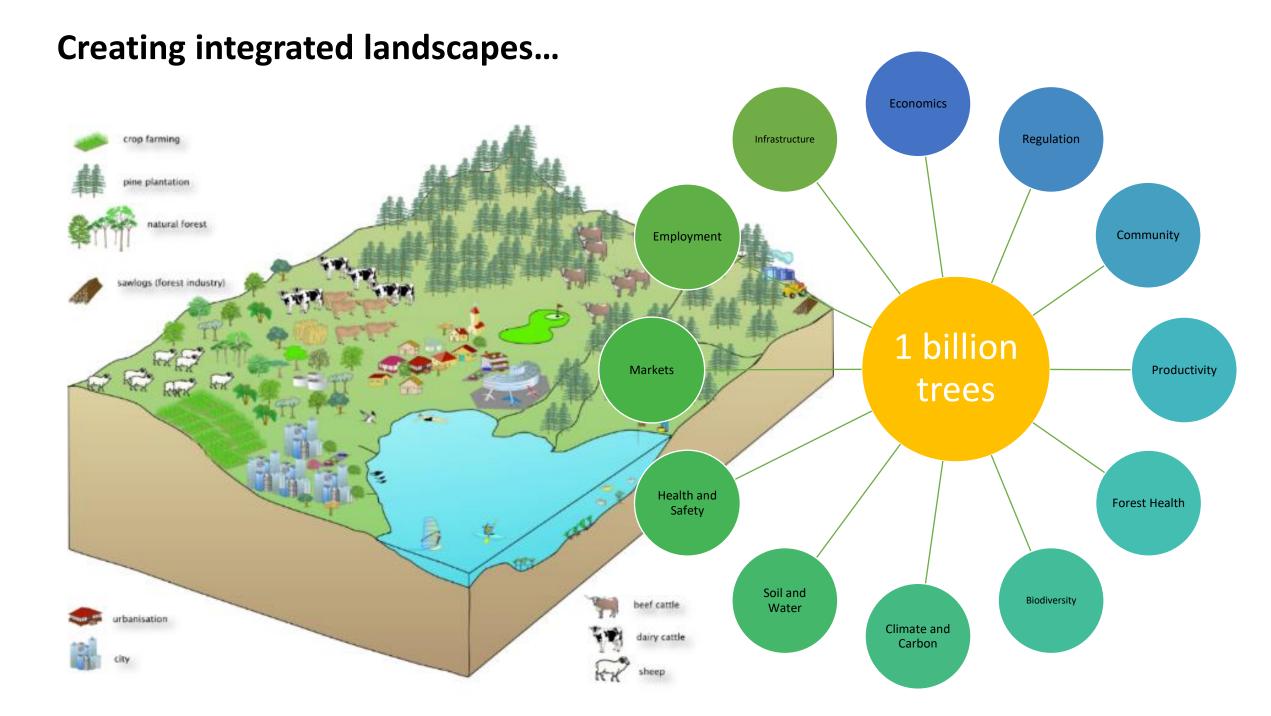
Afforestation Grant Scheme Erosion control funding programme Hill country erosion programme New grant mechanisms Emissions Trading Scheme

**Community participation** Schools, plant nurseries and farmers

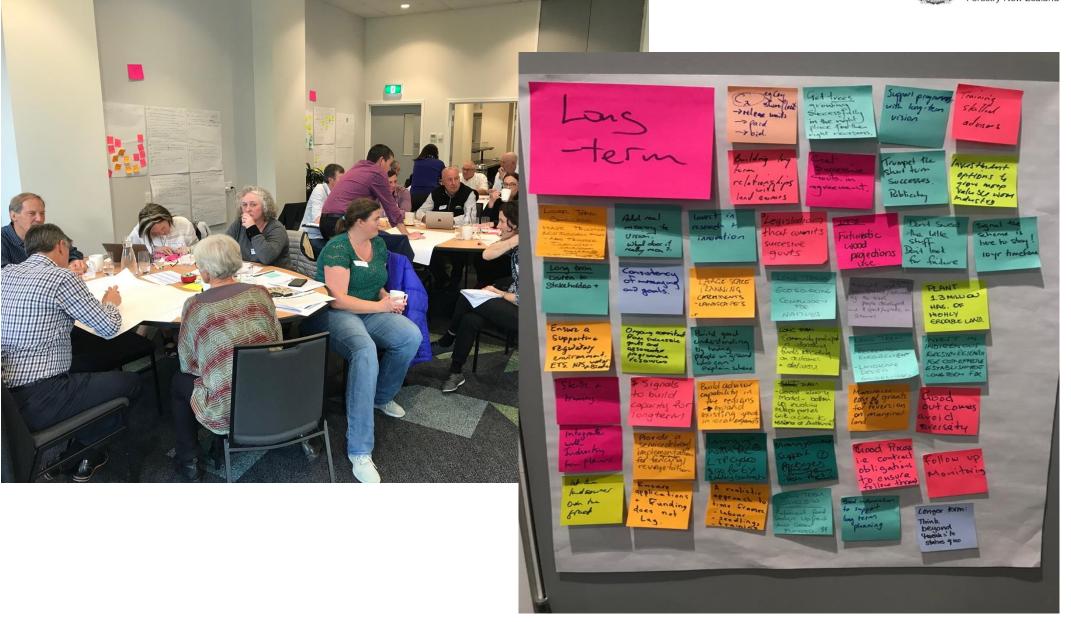


Natives and exotics in traditional and innovative locations

March 2018









### **Montreal Process Criteria and Indicators**

