

Scion's vision for Ecosystem Services Research

Peter Clinton, Science Leader, Forest Systems, Scion Forest Ecosystem Services work shop, Christchurch, 2 September 2019



National forest ecosystem services forum goals

- Facilitate National debate on role of planted forests
- Increase awareness of forest ecosystem services
- New Zealand Research in international context
- Exchange ideas and create networks
- Bench mark progress (policy, provision and markets for FES)

Forest Ecosystem Services forums

- 2012 Opportunities, risk and challenges associated with realizing the value of Forest Ecosystem Services
- 2013 Integrating Forest Ecosystem services in to policy
- 2014 Protecting and enhancing New Zealand's freshwater through forestry
- 2015 Integrating forestry in the landscape with other primary sectors
- 2016 Current perspectives on FES: Issues and pathways to implementation
- 2017 Implementation of Forest Ecosystem Services in Policy and Decision Making in Oceania
- 2017 Connections matter: Interactions between forests and the neighbouring marine environment
- 2018 Integrating forests' broader values in decision making processes

Growing forest ecosystem services

Important Government policies

- Billion trees
- Paris agreement 2030
- Zero carbon 2050
- Human health and well being

Key Words

 Natural capital, bioeconomy, circular economy, more for less, forest ecosystems, ecosystem services, land use change,

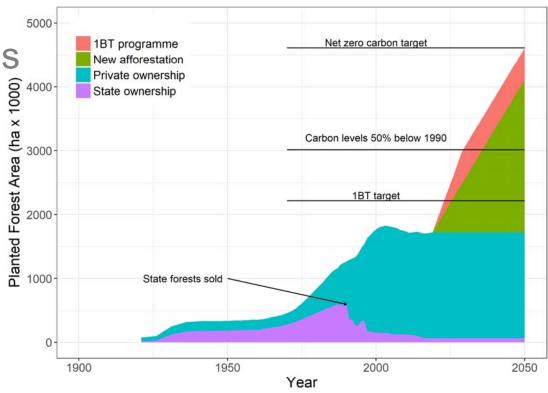
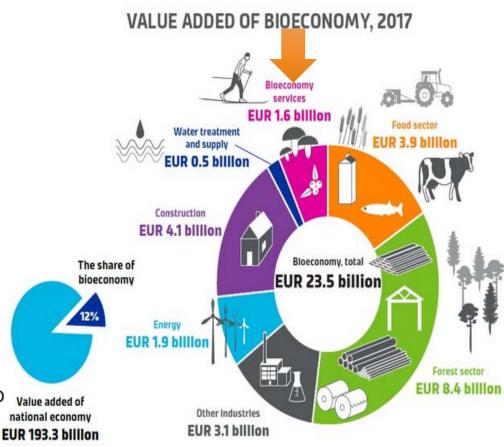


Figure 2: Expansion of New Zealand's planted forest estate over time and the additional afforestation required to meet the country's conservative and net zero 2050 emissions targets.



What is possible?

- Quantifying the win win (biodiversity, water, soil, carbon, regional development, mental health)
- Carbon security
- Resilient forests
- Urban forestry
- Mapping ecosystem services to Human wellbeing
- Improving landscape outcomes
- Achieving progress towards the SDG's
- What is the contribution of ecosystem services to the New Zealand bioeconomy?



Todays workshop

- Advances in recognising and accounting for ecosystem services in policy and decision making
- What are the gaps and challenges and how these lessons can influence current and future polices (e.g. afforestation, restoration, climate change adaption, etc)
- Explore the needs of stakeholders and what future research opportunities will enhance human well-being and the environment



www.scionresearch.com



Prosperity from trees Mai i te ngahere oranga

Scion is the trading name of the New Zealand Forest Research Institute Limited

