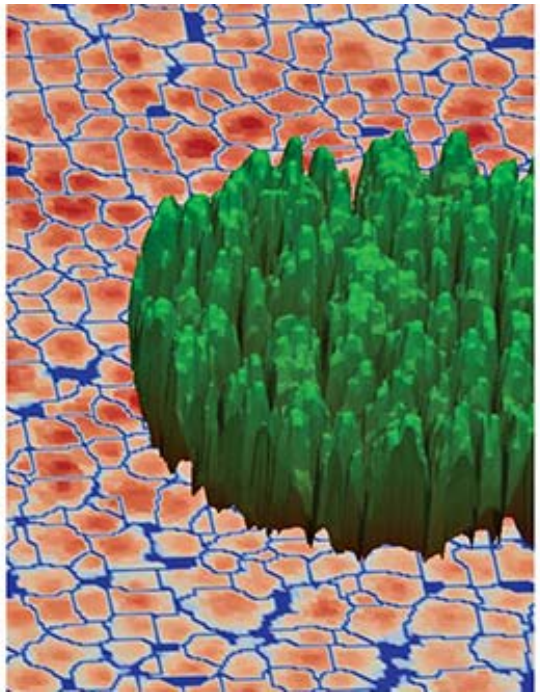
Growing confidence in forestry's future Research Programme

SCION
FORESTS ▪ PRODUCTS ▪ INNOVATION

Our progress towards a system approach to precision forestry

Peter Clinton 29th Of March 2017, Dunedin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FOREST OWNERS ASSOCIATION

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- Uses a systems approach to:
  - Maximise the benefits from the existing forest resource
  - Build a more productive forest resource for the future
  - Ensure that future intensification is sustainable and does not jeopardise industry's licence to operate

- Goal is to build more productive, resource-efficient forests that provide the raw material base for added-value processing
- Achieved through shifting forest management to a "precision forestry" basis by integrating latest advances in:
  - Sensor technology
  - Tree physiology, wood formation
  - Genetics, microbial and molecular ecology

Previous meetings

- Programme launch in Rotorua, 2014
- The first glimpses in Christchurch, 2015
- Management of Risk in Forestry, Auckland, 2016

Dunedin 2017

- Productivity challenges and opportunities in Southern forests

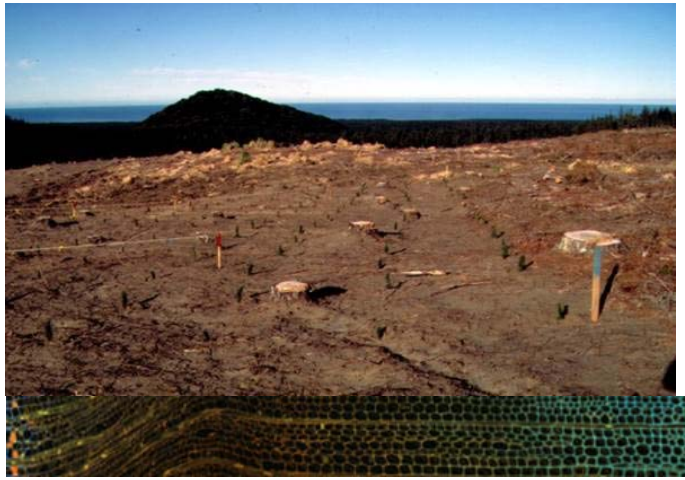
What will you take away with you from this short and intense visit to the south?

Goal of today is to provide an overview of some of the projects that are providing some of the building blocks for our vision of shifting forest management to a “precision forestry” through a systems approach

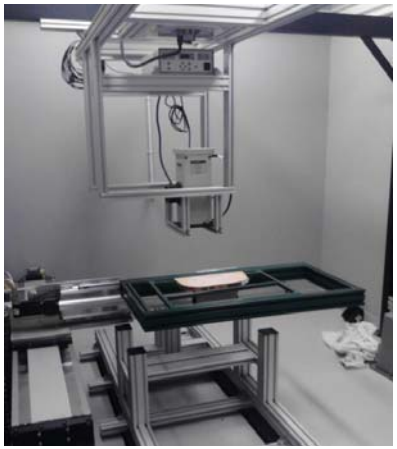
- Topics covered will highlight latest advances in:
  - Tree nutrition research
  - Tree physiology
  - Wood formation
  - Sensor technology,
  - Nursery management
  - Microbial and molecular ecology
  - Risk management

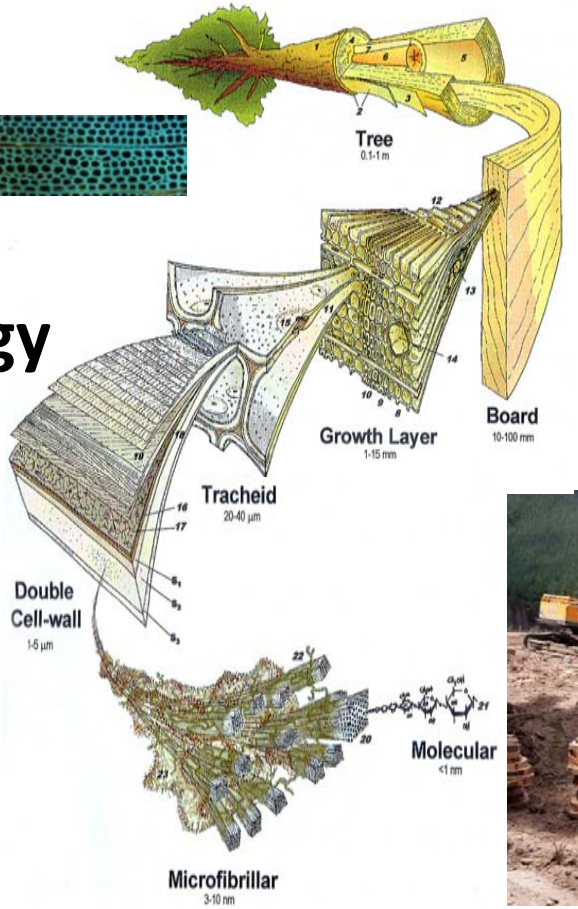
Tomorrow’s field trip provides first hand opportunity to see some of the productivity challenges and opportunities in Southern forests

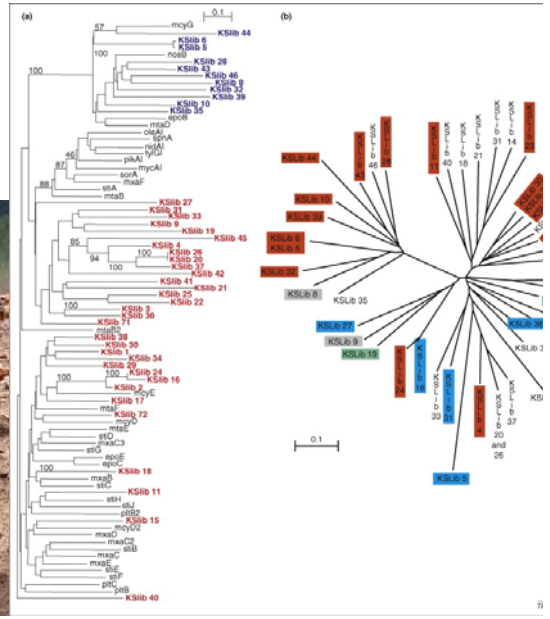
How long does it take?



Investment in long term trials, technology and skills







Todays talks

- Five new presenters, highlighting new recruits to Scion plus students who are working with us

- More than one genome in the forest. Our gut function is maybe more closer to that of soils than you dare to think

- GCFF contributing to other programmes e.g. Forest heaith, Forest genetics, value chain

New investment in the GCFF programme (current FY)

Assessment of 17 additional silvicultural breeds trials	$250,000
Fast tracking new foliar spray treatments	$305,000
Extension and further development of the phenotyping platform	$162,000
NuBALM in precision nutrient management	$250,000
Site Specific Nursery management	$45,000
Nursery management optimisation	$20,000
	$1,032,000

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Peter Clinton
Science leader Forest Systems
Peter.Clinton@scionresearch.com

http://research.nzfoa.org.nz
www.scionresearch.com
www.gcff.nz

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