## CLIMATE INNOVATION LAB: Forest Finance Instruments

VGHO





## **Climate Innovation Lab**

- Objective:
  - to mobilise and redirect capital investment into measurable, additional and climate-aligned projects and activities.

#### • Outcomes:

- to galvanise and accelerate the local conversation about opportunities for climate finance innovation;
- to bring climate finance concepts to market by ideation, selection, development, approval and execution.

## An Entrepreneurial Approach

#### Commercial entrepreneurship

- Bringing products to market to meet demand for climate alignment
- Policy entrepreneurship
  - Creating tools for policy makers to grab during 'windows of opportunity'

#### Encouraging intrapreneurship

• A neutral platform for public/private sector intrapreneurs to innovate

# PARTNERS

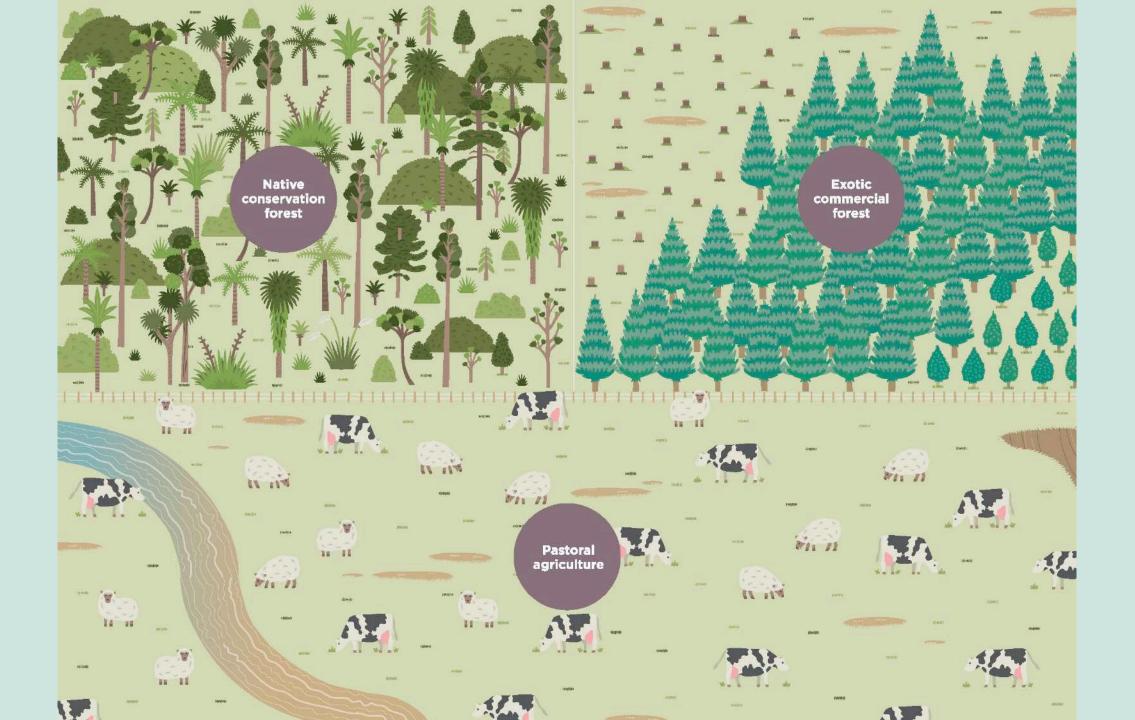
Principals







## Forest Finance: THE LANDSCAPE





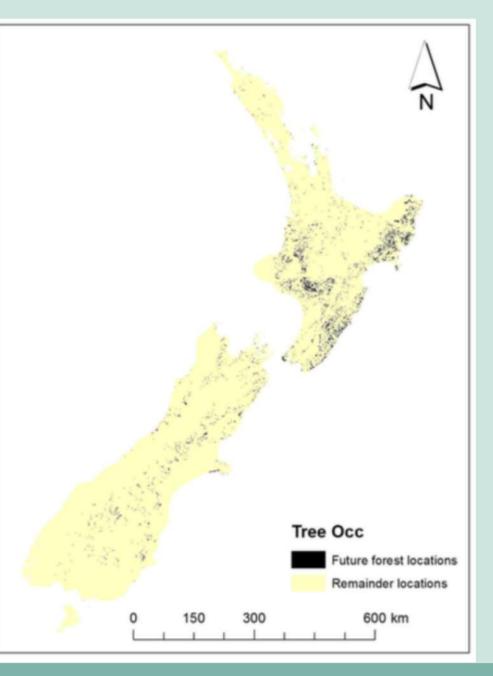
## Forest Finance: INSTRUMENTS

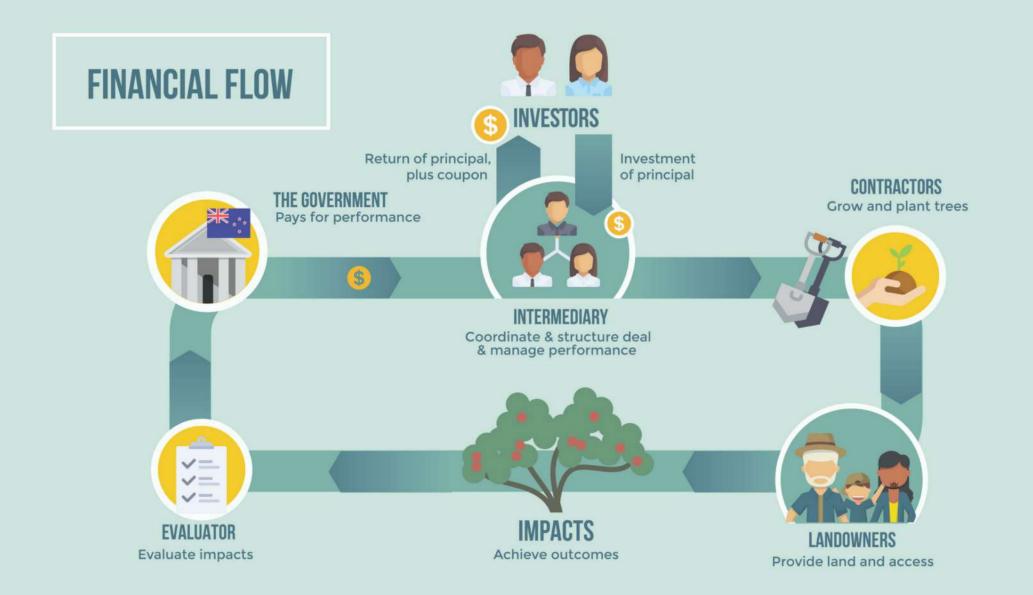
# ENVIRONMENTAL IMPACT BOND

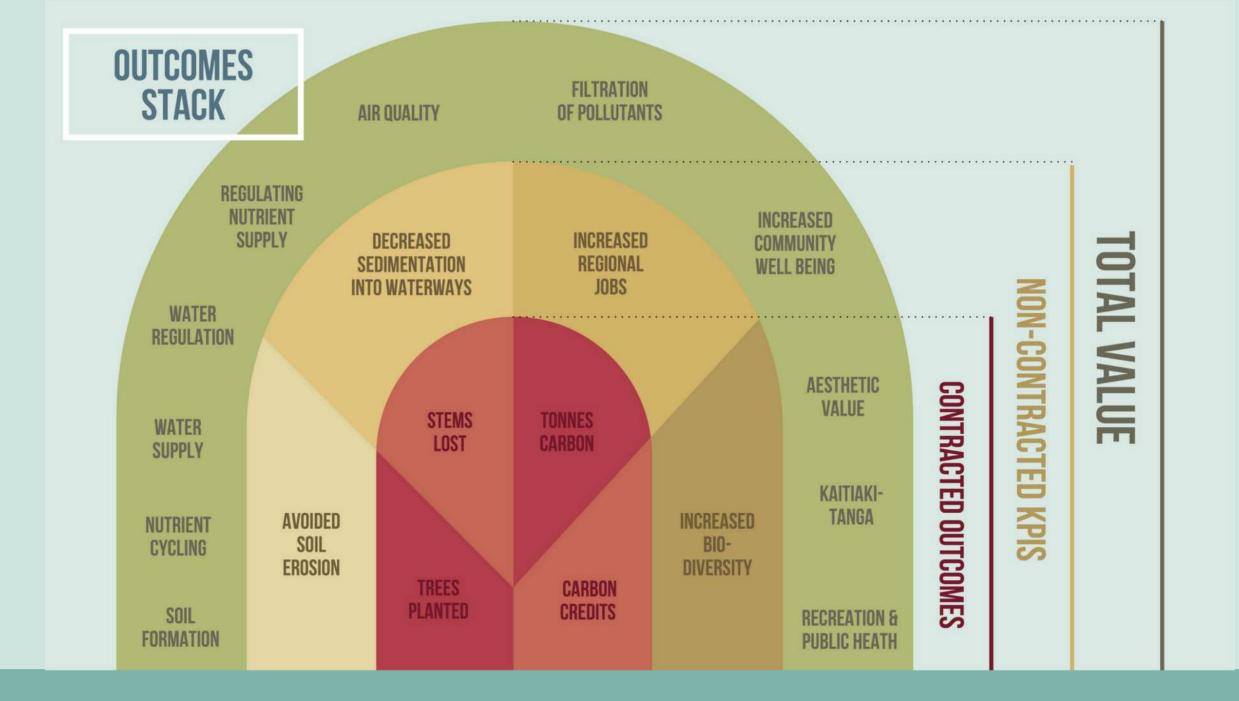
#### Table 1: Updated afforestation scenarios from Watt et al. (2011)

	Option 1	Option 2	Option 3
LUC 6 erosion assumptions	Severe to extreme	Moderate to extreme	Slight to extreme
North Island Area ('000 ha)	531	756	1,640
South Island Area ('000 ha)	138	375	1,283
Total Area ('000 ha)	670	1,131	2,923









# LEVERAGED CARBON FUND

### Leveraged Carbon Fund

- **Objective:** to upscale conventional forestry systems
- Outcome: improved access to capital for forestry
- Structure:
  - Acquire forests through freeholdings and forestry rights
  - Sell NZUs via off-take agreements with large emitters
  - Use proceeds to service a loan facility that prudently leverages the fund's assets
  - At end of holding period, sell upscaled assets to institutional buyer

## **GREEN COVERED BOND**

### **Green Covered Fund**

- Objective: to improve issuer's access to capital
- Outcome: investment into sustainable and impact-oriented forestry
- Structure:
  - Create a cover pool within issuing bank of low-risk assets, such as certified sustainable forests
  - Use cover pool as collateral for bond to attract long-term funding
  - Cover pool provides investors with dual recourse against the issuer and the collateral

# CONTINUOUS COVER FORESTRY FUND

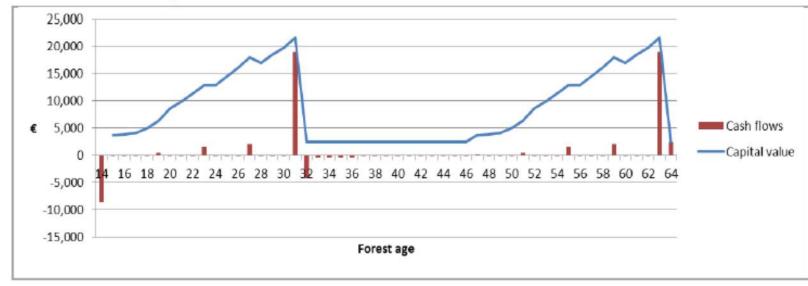
### **Continuous Cover Forestry Fund**

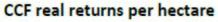
- **Objective:** to upscale continuous cover forestry (CCF) systems
- **Outcome:** to overcome transition barriers by using a vertically integrated fund that pools silvicultural expertise

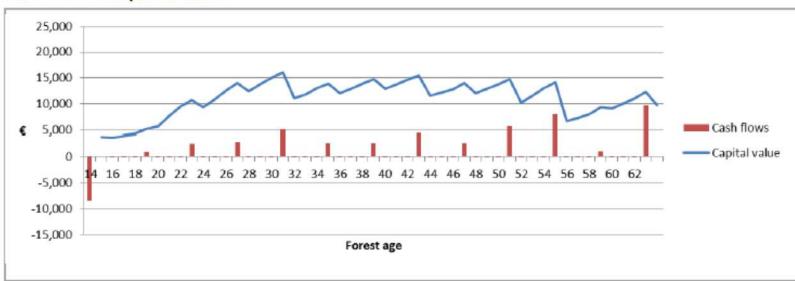
#### • Structure:

- Acquire forests for CCF conversion and establish new uneven-aged forests
- Use blended finance to capture wider public benefits of CCF and manage transition risks

#### Clearfell real returns per hectare



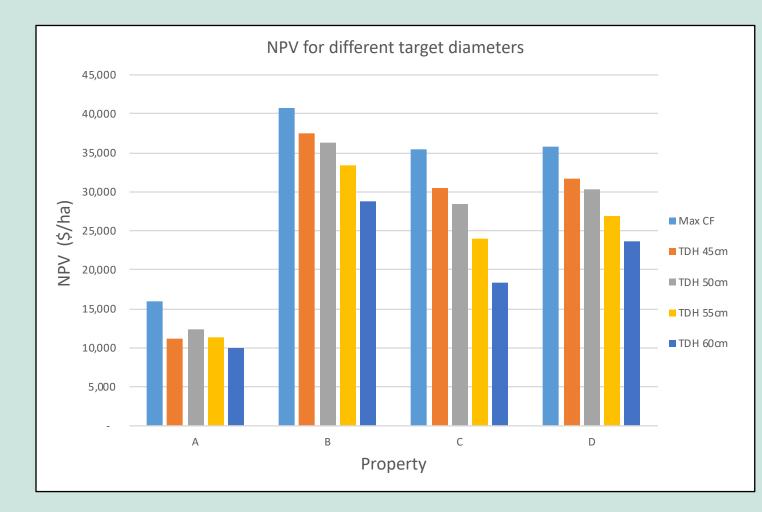




—Investment logic for €12.5
million investment into CCF in
Ireland by the European
Investment Bank (EIB) through
its natural capital finance
facility (NCFC).

P. McMahon, D. Sarshar, and P. Purser, 2016. *Investing in Continuous Cover Forestry*. Report prepared by SLM Partners.

#### Targeted Diameter Harvesting (TDH) system



Based on the Wardle Family's
forest, Woodside, near Oxford.
Modelled for sites in the southern
North Island.

Mark Bloomberg, Eric Cairns, Denny Du, Harriet Palmer and Chris Perry, 2019. 'Alternatives to clearfelling for harvesting of radiata pine plantations on erosion-susceptible land', New Zealand Journal of Forestry 64(3), pp.33–39.



# NGĀ MIHI NUI Thank you

David Hall: david@mohio.co Sam Lindsay: sam@mohio.co

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A Careful Revolution

Towards a Low-Emissions Future

#### EDITED BY DAVID HALL

THERE CAN BE LITTLE DOUBT THAT THIS WILL BE A REVOLUTION, THE CHOICE, REALLY, IS ABOUT HOW WE BRING IT UPON OURSELVES.

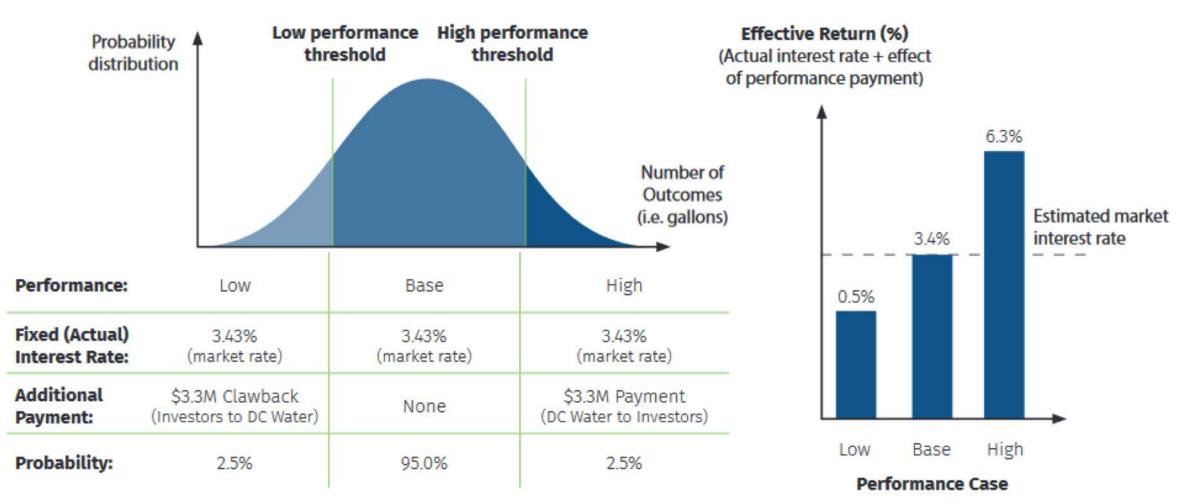
**BWB** Texts



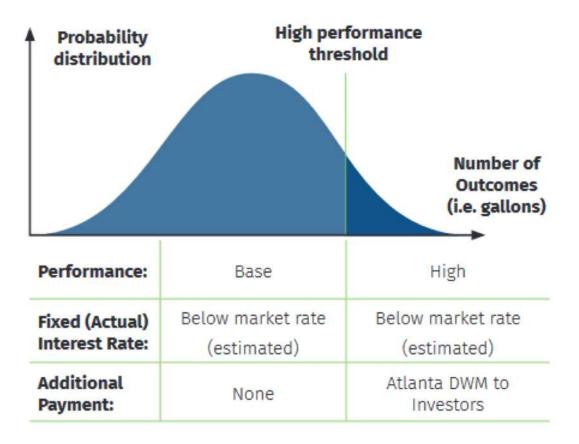


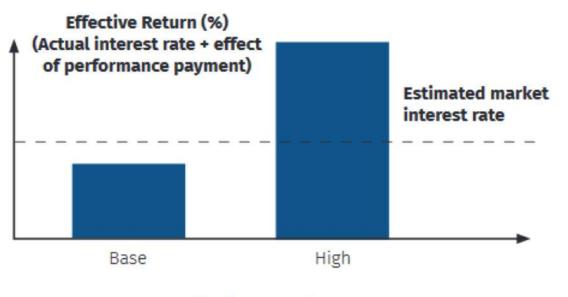


#### **DC Water EIB Performance Structure**



#### **Atlanta EIB Performance Structure**





Performance Case