## NEW ZEALAND INSTITUTE OF FORESTRY –

EMERGING STRONGER: STRENGTHENING FORESTS, INFRASTRUCTURE AND COMMUNITY POST-CYCLONE



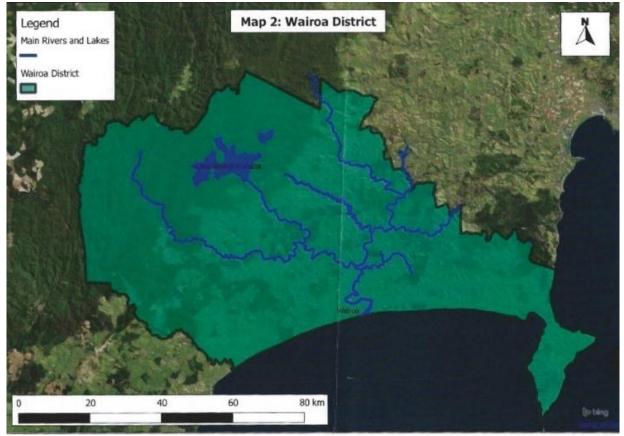






#### **OUR PLACE**











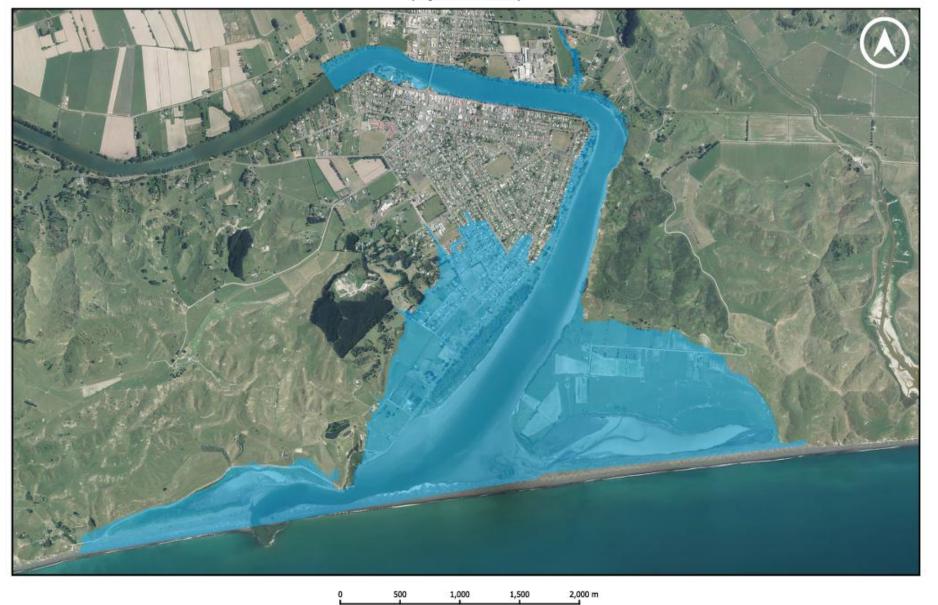






#### June 2024 Weather Event - Flood Extent

(using HBRC flood extent data)





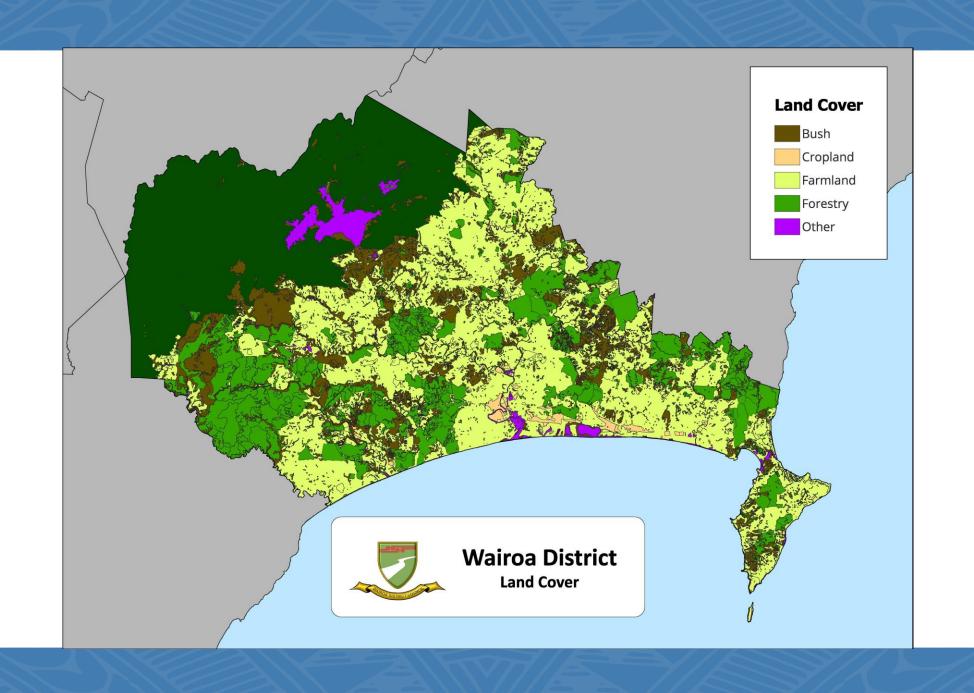


#### FLOOD MITIGATION













### OUR DOOR IS OPEN, LET'S WORK TOGETHER





# Cyclone Gabrielle – Cost to the communities and cost to to the individuals

#### **Topics and Discussion**

- Cyclone Gabrielle recap
- What It Was Like for Communities
- The Financial Toll
- Lived Realities Financial and Emotional Fallout
- Mental Health Impacts:
- Impacts on Agriculture
- Impact on Horticulture
- Wilding Trees
- Who Pays
- Communities need a seat at the table
- Summary
- A Challenge to the Sector
- Questions & Discussion

#### Cyclone Gabrielle recap

- One of the largest floods ever recorded in NZ with a return period of 1000 years
- 1,700 properties flood affected
- > 326 properties classified as Category 3 (Category 3 refers to the areas where it is no longer safe for people to live due to an intolerable risk to life in any future flooding event that cannot be mitigated)
- Financial losses in excess of \$5.0 billon
- Horticulture loss \$1.4 billon in 2023 together with thousands of hectares covered in silt
- Commercial and Industrial premises affected Awatoto industrial, Pan Pac,
   Packhouses etc
- > 5.3km of stop bank breaches, 6 major road and rail bridges gone, major damage to state highways, district roading network, and infrastructure.

Best overview slide of what happened on Tutaekur

and Ngaruroro Rivers

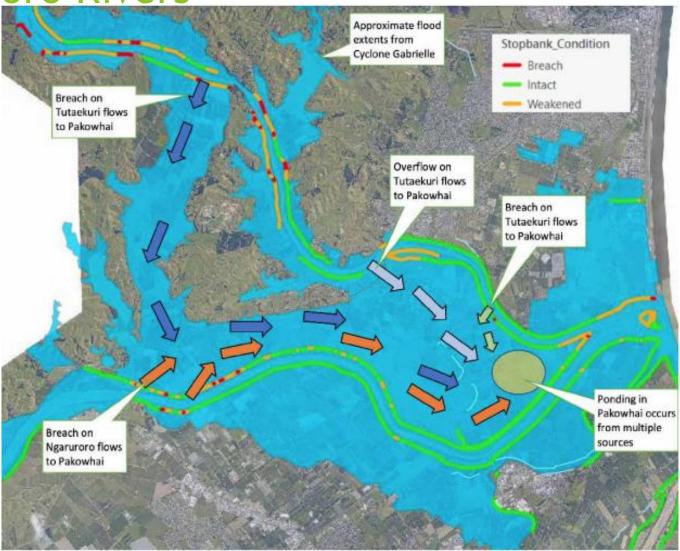
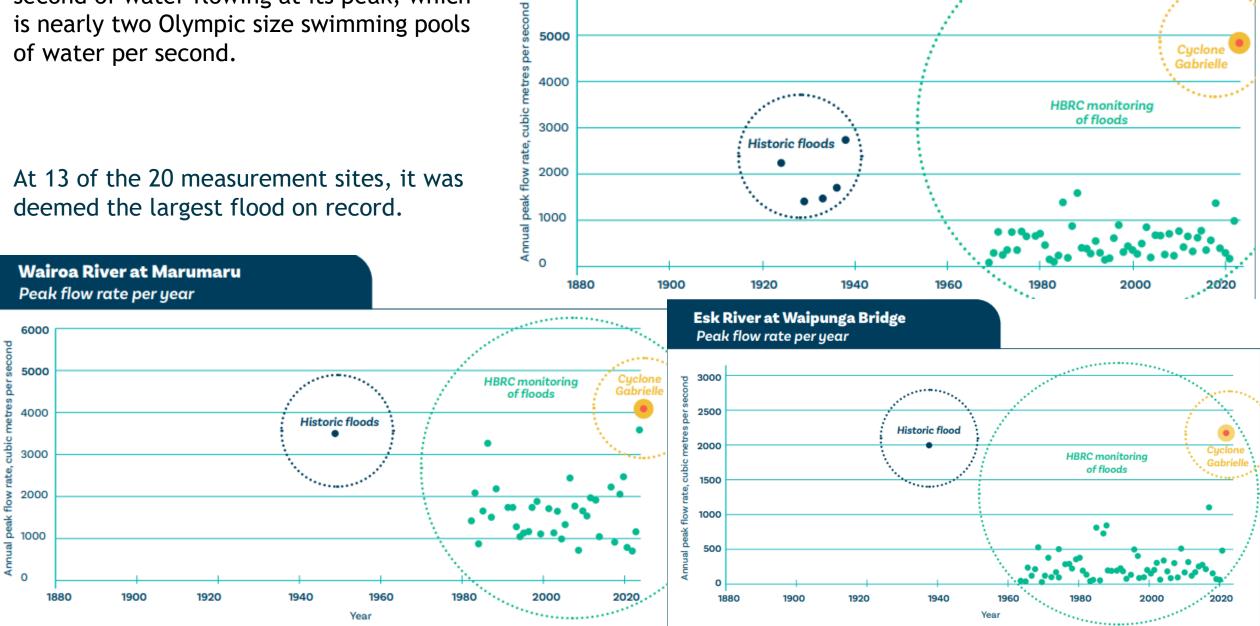




Figure D8 Breaches/Overflows Inundation Heretaunga Plains

During cyclone Gabrielle, the Tūtaekurī river at Puketapu had 4,800 cubic metres a second of water flowing at its peak, which is nearly two Olympic size swimming pools of water per second.



Tütaekurī River at Puketapu

Peak flow rate per year

6000















#### What It Was Like for Communities

- Personalised impact: families stranded, farmland unrecognisable
  - ▶ Losses to Stock, Crops, Infrastructure, Staff, Land, Income, Neighbours, Community
- First response came from neighbours, then Communities, then emergency services
- Neighbours not directly impacted by flooding could act immediately to save lives. Quick thinking and quick action.
- Farming communities well resourced for no access, power, communications. Lifestyle communities not so much.

#### The Financial Toll

- > 990+ farms hit \$336–\$385M in sheep/beef damage
- ► Horticulture losses >\$1.4B
- ► Emotional burden: trauma, isolation, exhaustion
- Many land owners were under insured for full loss
- Land owners own clean-up costs are not accounted for
- Intergenerational debt now for many businesses

### Lived Realities – Financial and Emotional Fallout

- Frustration with lack of warning
- Community support was vital to survival
- Bureaucracy often hindered emergency action
- Surprise at low death toll and gratitude to responders
- Deep disappointment in looting, which still occurs

- Significant economic loss: livelihoods destroyed or severely impaired
- Retirement plans upended for many
- Psychological trauma is widespread
- Anger, especially toward insurance and bureaucracy
- Difficulty navigating funding and support systems

#### **Mental Health Impacts:**

- Trauma from near-death experiences and communication blackouts
- Mishandled bereavement notifications by authorities
- Survivor's guilt, pet loss, livelihood loss
- Long-term housing uncertainty

- Exhausting and overwhelming cleanup
- Repeated retraumatisation through insurance, buy-out, and council processes
- Ongoing uncertainty (e.g., stop banks being imposed post-rebuild on Category 1 properties)

#### Impacts on Agriculture

- Estimate that 990 farms on the East Coast, Tararua, Hawke's Bay and the Wairarapa were affected and suffered damage.
- Isolation issues
- Livestock Welfare
- Infrastructure Damage (Fences, tracks, access across property, dams, culverts, bridges and water reticulation).
- Land management and financial stability
- Estimate impact on sheep and beef farms across the East Coast and Hawkes Bay is a range of \$336 \$385 million.







#### Impact on Horticulture

- 47% of crops have been affected and broken down into three categories
- Category 1 orchards that have been destroyed and need complete redevelopment
- Category 2 completely submerged and have deep silt through them which has significant tree depth
- These two categories are about 25% of all planted area in HB or around 2100 hectares. (not saveable)
- Category 3 workable, have been water logged but a lot of trees are salvageable. Around 1800 hectares.
- All up affected is about 3900 hectares with the other 4400 hectares not affected.
- Cost \$250,000 to replace 1 hectare orchard.





### Wilding Trees - Dartmoor Road

Scale of timber in flood zone



Wilding Trees - What Happens When We Don't Prepare



## Wilding Trees

- On our 6 hectare orchard we had 100 tonnes of trees dumped on there -77% pine of which 70% had root balls — rest willows, poplar, kanuka, and other natives.
- Trees blocked bridges, caused dams, and then wave surges as they blew
- No flood protection infrastructure can cope with that
- ▶ I estimate 33% of wilding pines gone 66% waiting for next event.

## Who Pays?

- Government funded buyouts; local ratepayers still stretched
- Cost shifting: forestry impacts paid for by others
- Forestry Companies paying for clean-up whether responsible or not.
- ➤ The cost of recovery for the Hastings District Council alone is \$1.1 billion dollars, including \$800m to repair the transport network.
- > There is a long way to go yet, with seven to ten years to fully repair and restore the area's transport network.

## Communities Need a Seat at the Table

- They've lived the risk and paid the price
- Must be included in mitigation discussions from day one
- Forestry must act as a responsible neighbour

## Summary

These are not just financial figures or environmental statistics. This is a human crisis. As foresters and policymakers, our work must reflect this reality. Community involvement isn't optional; it's foundational.

## A Challenge to the Sector

- Are your forests protecting or threatening people downstream?
- ► Are you building trust, or shifting burdens?
- Good forestry includes people, place, and partnership

## Questions & Discussion

- ► What would co-designed resilience plans look like?
- ► How can forestry lead in true sustainability?
- ► Open Q&A



Phone 06 835 3682

Email greg@morice.co.nz

Thanks to Kirstin Speers who has interviewed many Cyclone Gabrielle impacted people as part of a book she is writing.



Ingka Investments NZ Forestland



# Kelvin Meredith

Forestland Country Manager Ingka Investments NZ



## Agenda

- / An introduction to Ingka Investments
- / Our forestland portfolio
- / Responsible Forest Management
- / Case study Huiarua Afforestation
- / Questions

# Investing with impact An introduction to Ingka Investments

## **Ingka Group**

#### **IKEA Retail**

Bringing the IKEA brand to 31 markets

#### **Ingka Investments**

Purposeful investments for long-term growth

#### **Ingka Centres**

Meeting places together with IKEA



#### Financial Markets Investments



**Circular Investments** 



**Real Estate Investments** 



## Investing for the long term Our forestland portfolio

#### Mandate

Ingka Investments invests in forestland for the long term to ensure this vital resource is managed responsibly, so that they remain forests forever. Our forestland portfolio is not directly linked to the IKEA value chain. This is to ensure competitive returns and encourage a bigger market for sustainable timber from responsibly managed forests.





Wood is an essential part of the IKEA identity

- "Our forests are mankind's greatest assets"
- Ingvar Kamprad, 1996

## Forestland portfolio (FY24)



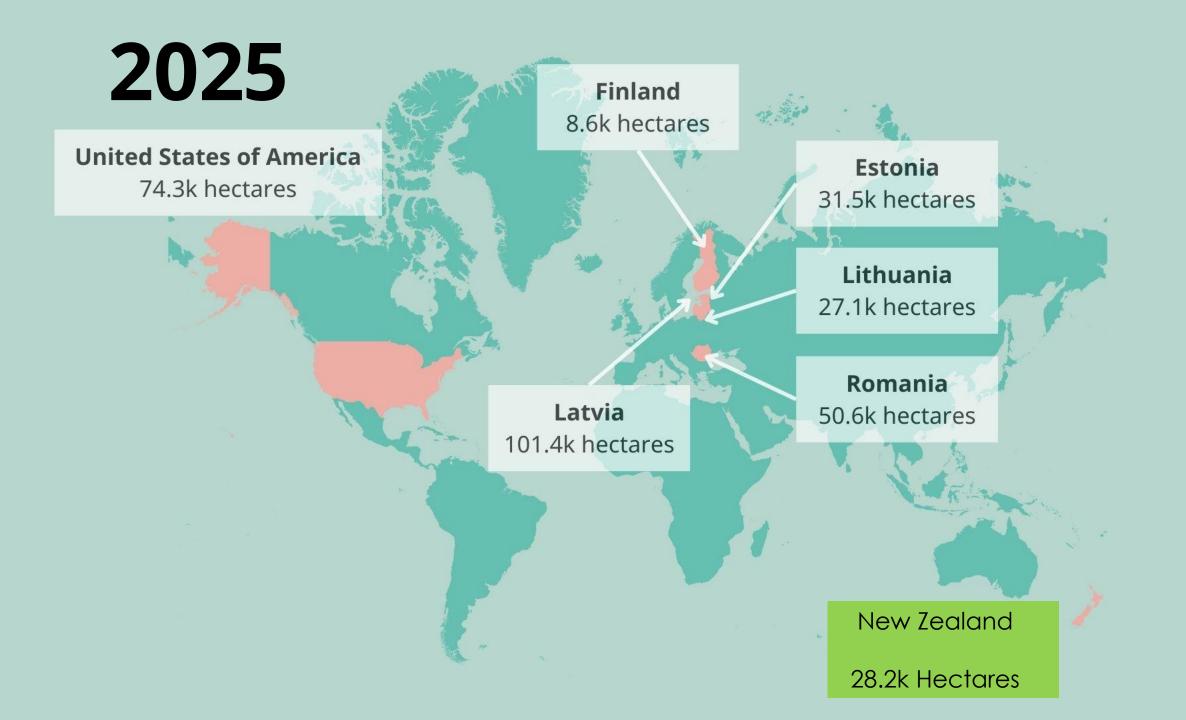
320,000+ hectares in 7 countries, all **FSC certified** (or in the process)



**13.5 million** seedlings planted, **10,000 hectares** regenerated and afforested



**1,5 million cubic meters** harvested









# Preserving our forests forever Responsible Forest Management

## More trees





Better forest manager and better neighbor We carefully plan to ensure that the right species are planted in the right places, maximising both ecological and economic benefits while creating new habitats for wildlife.





We hope to create a shared sense of responsibility and stewardship, enhancing the social and economic well-being of these communities, and leading to better forest management practices.













Setting aside forest areas 16,500 ha for CTN study



Using data for environmental protection Water and biodiversity monitoring



Prioritising
habitat
conservation
15-20%
setasides



Going beyond FSC









824 likes • 850 followers

**Save Huiarua Station** 



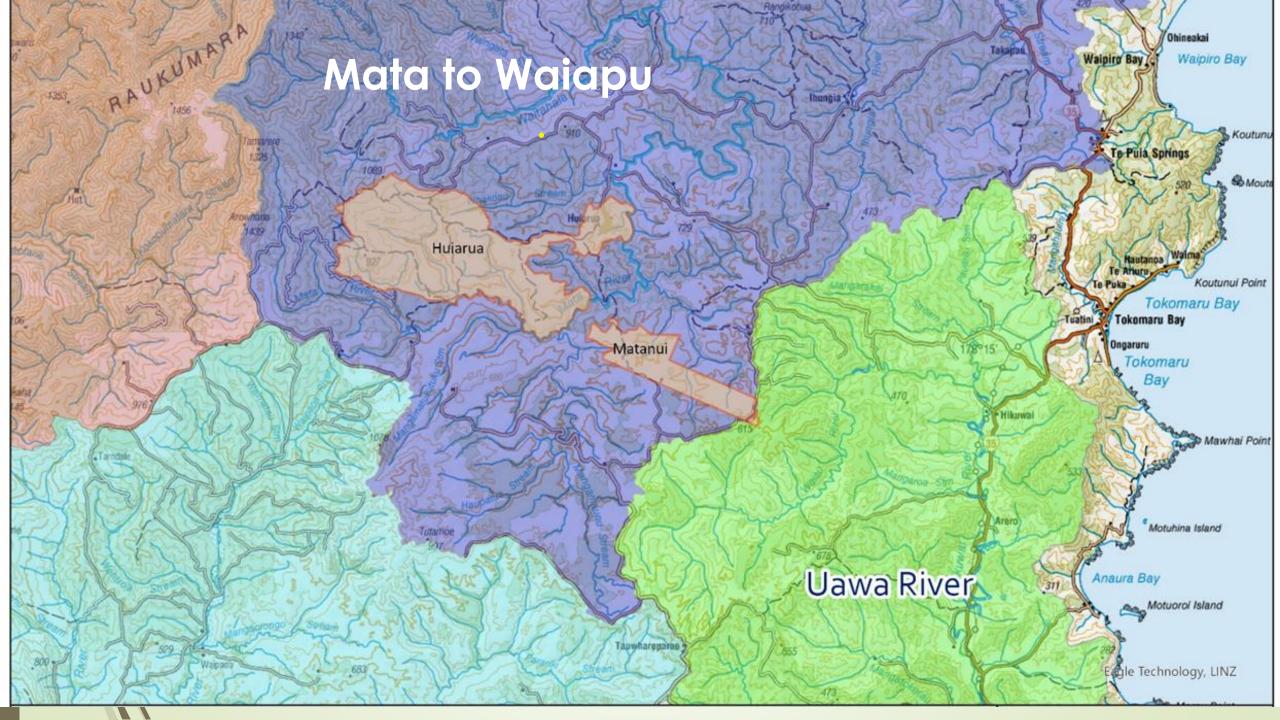
#### 5000 Hectare Huiarua Station Sale Invites Patagonia Fires To East Coast

Friday, 14 January 2022, 12:13 pm Press Release: Social Credit

Social Credit is calling on the government to step in and stop the sale of Huiarua Station on New Zealand's East Coast.

If the sale to foreign buyers gets overseas investment office approval, the 5000 hectare farm will be turned into pine trees, inviting the kind of future devastation that raged through Patagonia less than 12 months ago when fire burnt through more than 22,000 hectares in just a few days.





# RESTORING THE WAIAPU CATCHMENT

"Healthy land, healthy rivers, healthy people."









Waiapu koka huhua – Waiapu, mother of many



#### TREATMENT IMPACT

#### **GULLY EROSION FOCUS**

Gullies are incised, linear to amphitheatre-like erosion features formed by running water. While erosion is a natural process, human activities have increased



erosion is occurring. Excessive erosion causes problems such as sedimentation of waterways, decreases in agricultural productivity due to land degradation and ecological collapse due to loss of the nutrient rich upper soil layers.

#### UNTREATED GULLY EROSION

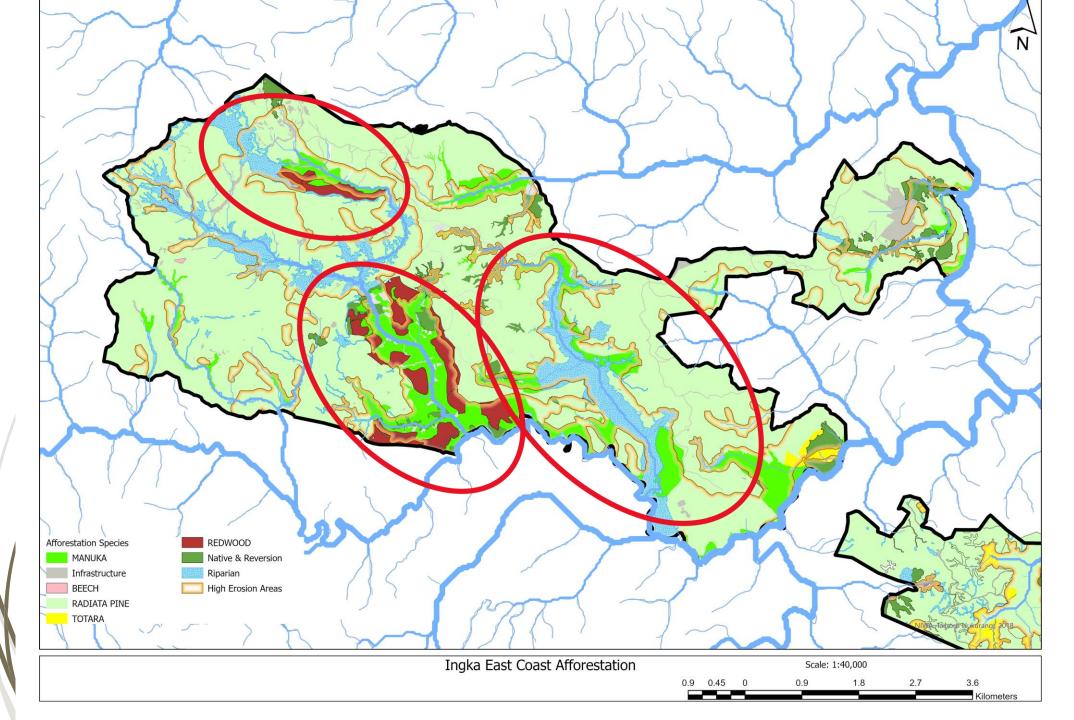


#### TREATED GULLY EROSION

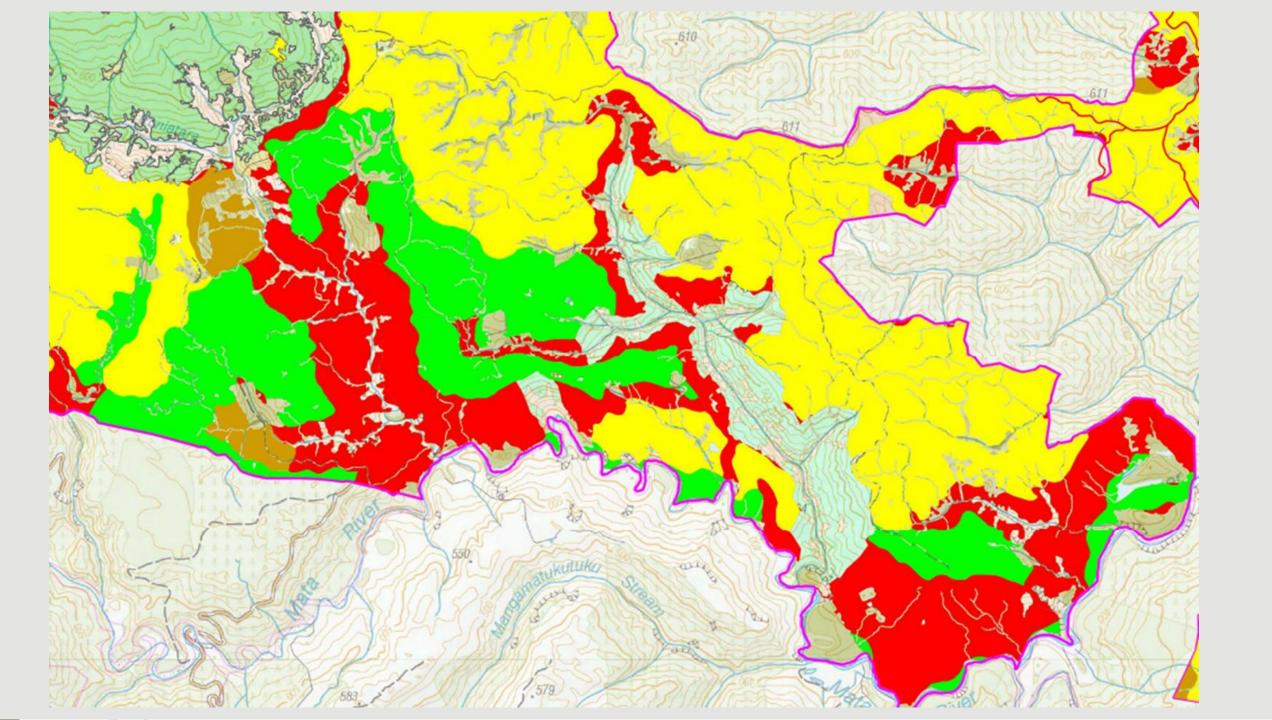


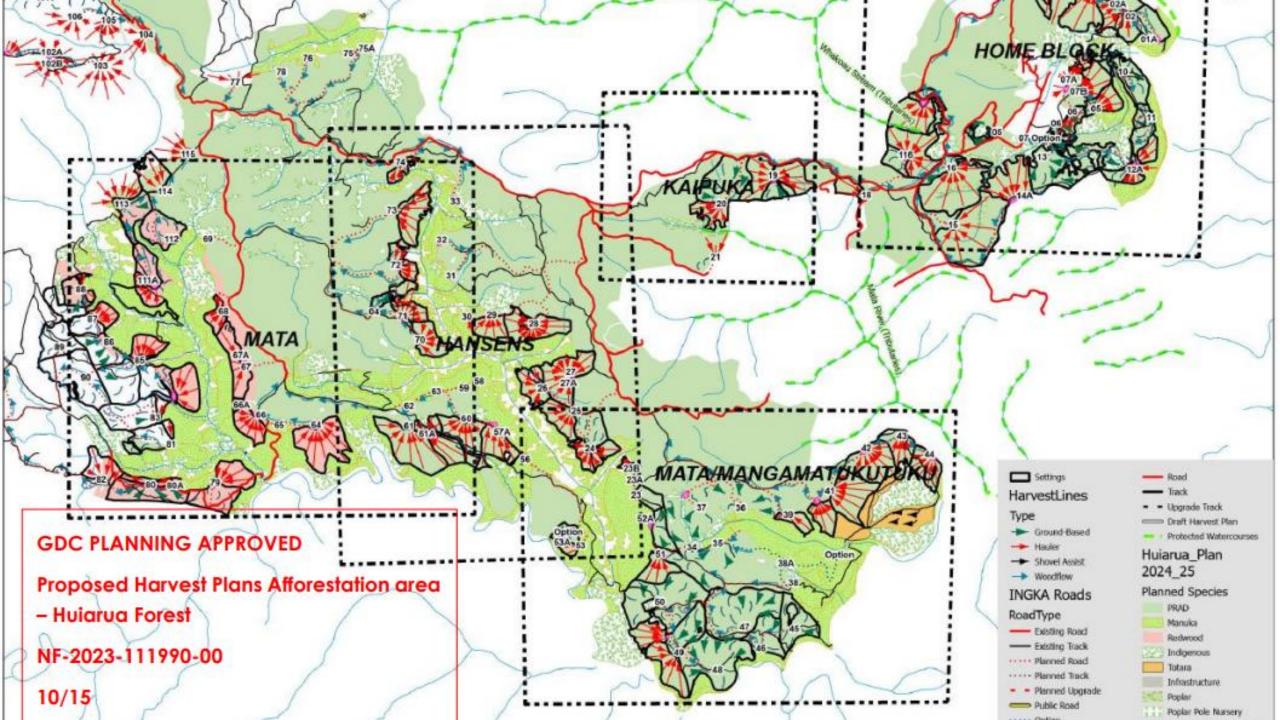










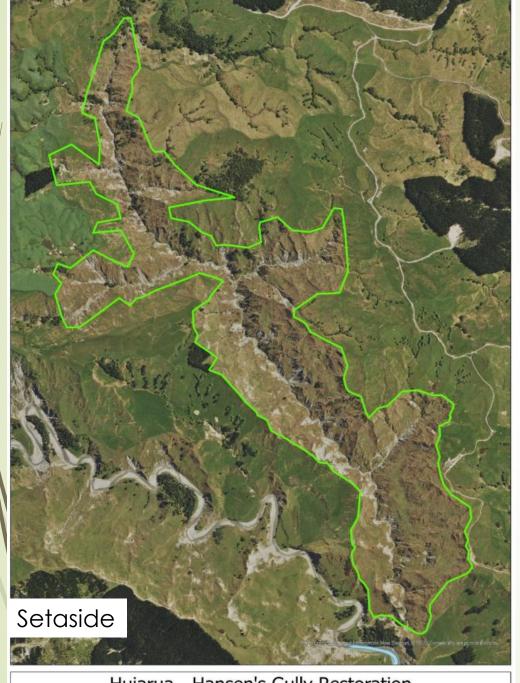




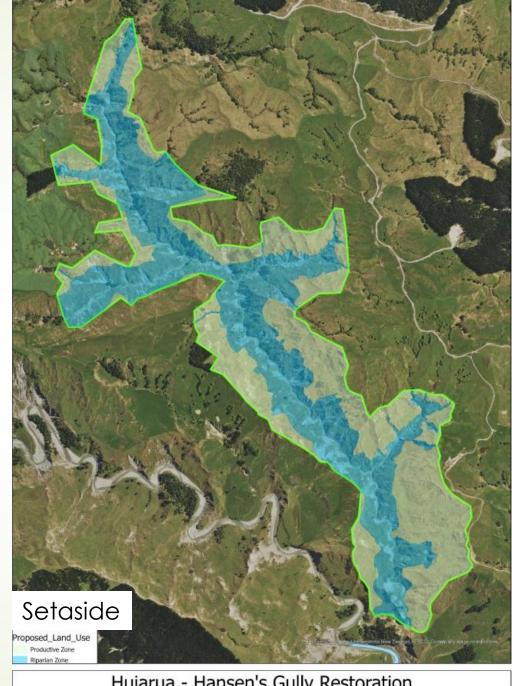






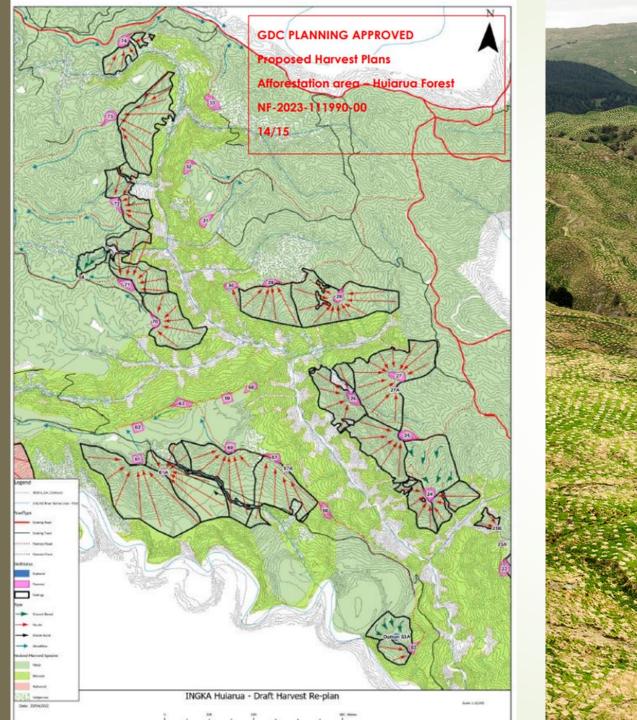


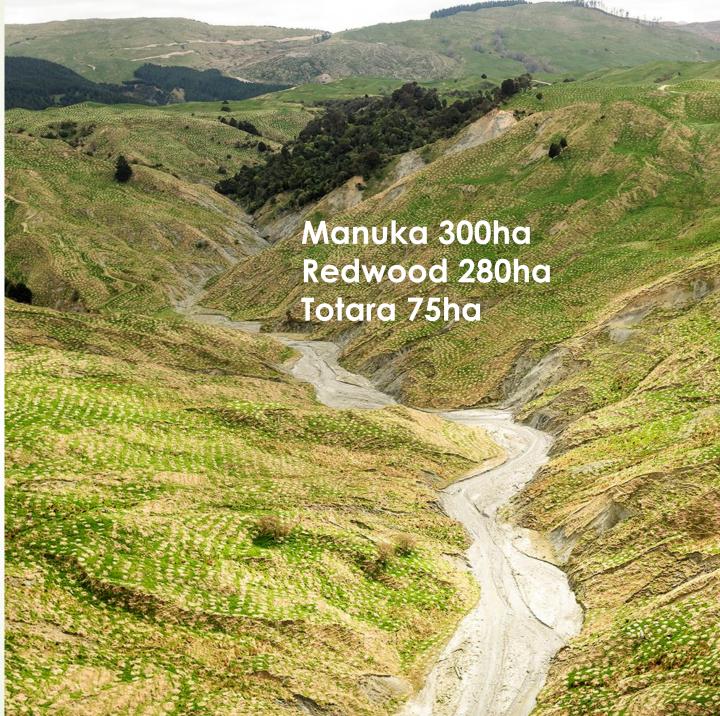
Huiarua - Hansen's Gully Restoration

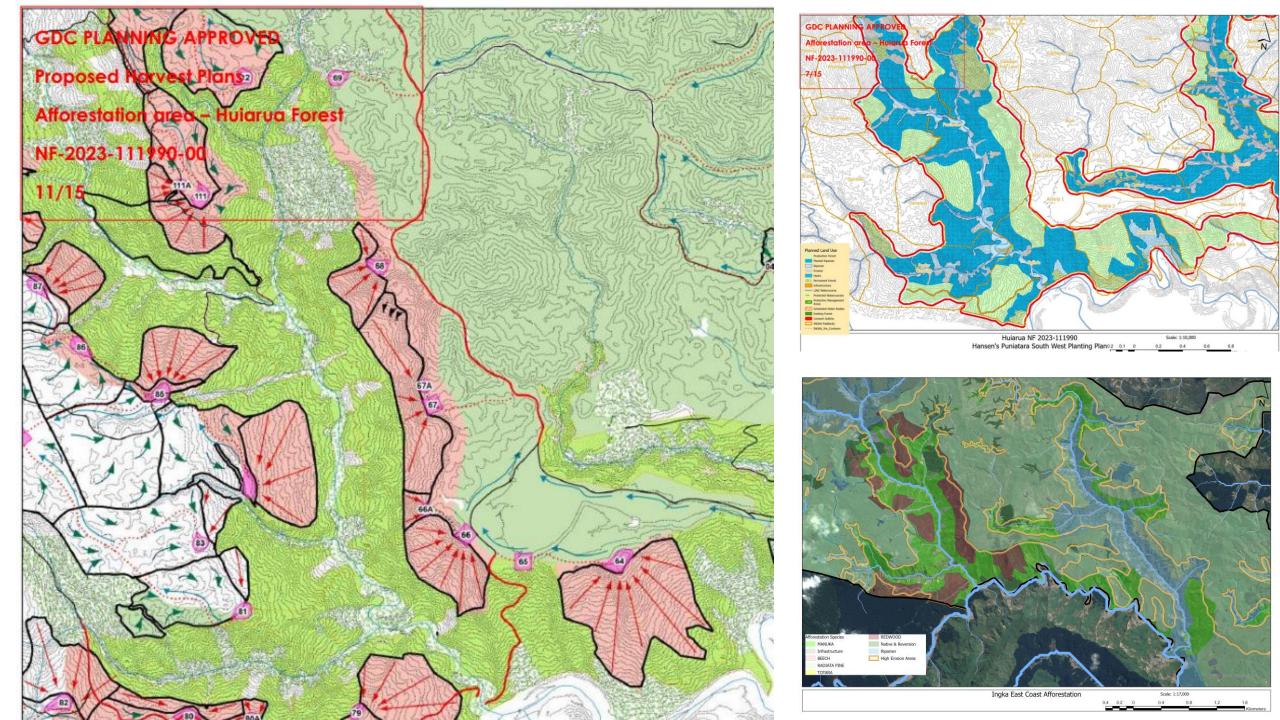


Huiarua - Hansen's Gully Restoration

INGKA INVESTMENTS











More generally, recent research shows the We are leaning into some headwinds!!

treatment of high country erosion by plantation forestry in Tairawhiti is largely a failed experiment and The present area of Huiarua Station which is in does not lessen erosion from high rainfall events.

The areas of pasture on Huiarua Station were not greatly affected by erosion in cyclone Gabrielle

Regardless, therefore, of any <u>supposed</u> trade-off between benefits and adverse effects of afforestation, the effects of fallen trees and slash (slash largely from the eventual harvest) mobilized in floodwaters will be a new effect from the land which is currently in pasture.

"Indicator 6.7.20 does not allow for afforestation in very highrisk erosion areas with species that require clear felling.

The request to add this forest to the FSC Scope has been rejected, this decision has been done by SGS NZ with the support of SGS Global.

This decision was based on stakeholder consultation and the risk assessment, at this stage the FSC STD section 6.7.20 is not in compliance. In NZ clear-felling species refers directly to Radiata Pine, if we include these areas under your scope LFS will have a Major CAR and will need to be closed in 3 months. To close this you are not able to plant Pine in any high risk area, we can't allow to add an area that has such a controversy with FSC due the impact in the Gisborne community due to poor management.

The present area of Huiarua Station which is in pasture is subject to erosion and sediment loss to streams and the Mata River. The pasture area, however, does not contribute fallen trees or slash to these waterbodies. Trees and slash would greatly increase the erosive potential of floodwaters and associated damage to riparian areas,

There is no evidence that other, present effects of erosion and sediment loss will be much reduced. The types of major erosion found on Huiarua Station may not be improved by afforestation

Your web sites state that "While all our forests are FSC certified (or in the process of certification),"

Our concern is that this statement may not be correct and the public are receiving incorrect information.

This disgusting practice is tantamount to eco-terrorism and we have to live with the carnage

## Leading the way The future





- Back to basics an approach closer to nature productive active margins of set-asides
- Planting legacy species 60-100 – 300 years podocarps, hardwoods
- On-the-ground management
   developing a deeper
   understanding and
   connection
- Partner with those who share our vision – reward them well
- A shared responsibility collaboration is key







