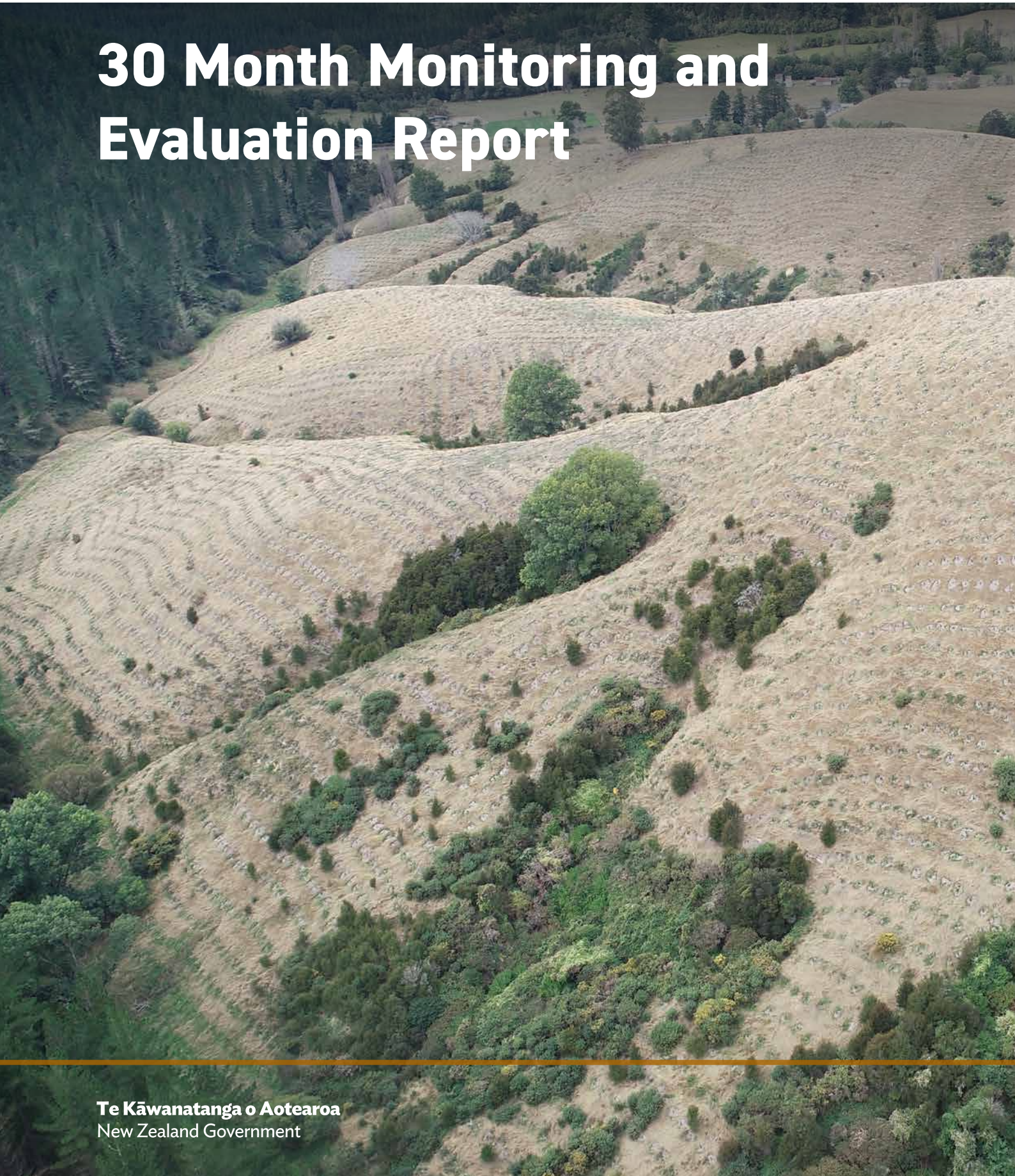
Te Uru Rākau New Zealand Forest Service

One Billion Trees Fund

30 Month Monitoring and Evaluation Report



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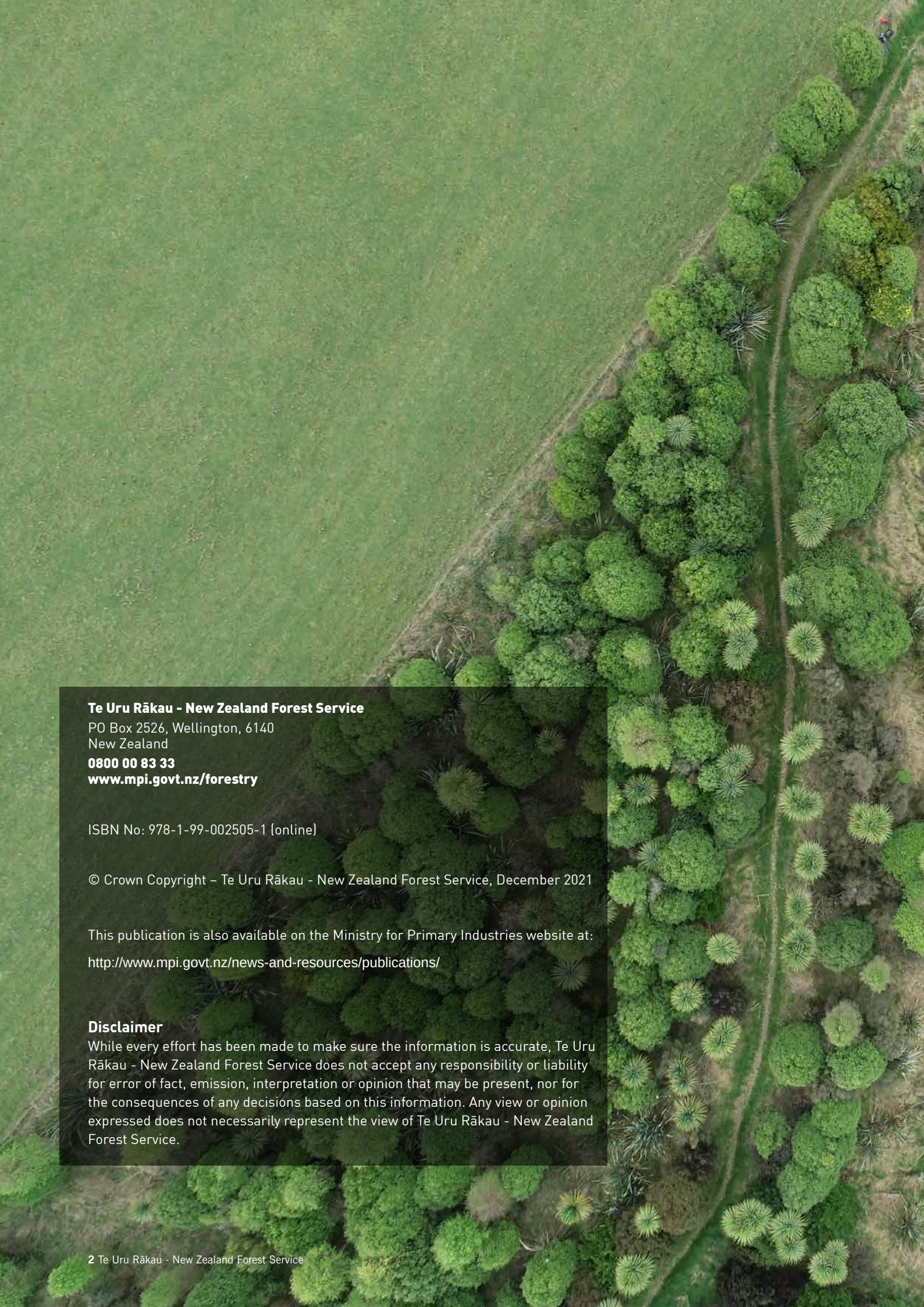

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1. Executive Summary

In 2018, the Government developed the One Billion Trees Programme to increase tree planting across New Zealand. The One Billion Trees Fund ("The Fund") was created to incentivise tree planting, and over the past three years has contributed to key environmental, economic, and social outcomes for New Zealand.

The One Billion Trees Fund closed on 30th June 2021.

This 30-month report tells the story of how the Fund has helped to deliver a range of economic, environmental, and social benefits. It covers the period from 1st January 2021 to 30th June 2021.

This 30-month report continues with the revised focus on how the Fund contributes towards key outcomes as recommended by the Deloitte Audit 2020 and as set out in the 24-month report.

The 24-month report focused on specific examples of funded projects to demonstrate how One Billion Trees outcomes were being met. This report will also demonstrate the achievement of outcomes through an overview of the Fund as a whole.

When the One Billion Trees Fund was established, the intended outcomes were:

- to protect and improve our soil, water quality, and other natural resources;
- help New Zealand meet its international climate change commitments;
- increase biodiversity and enhance natural landscapes;
- assist Māori to maximise the potential of their land and exercise their Kaitiaki obligations;
- bolster employment and training opportunities in the forestry industry;
- contribute to sustainable regional economic growth.

Reporting on these outcomes and telling the story of how they are being realised, alongside the associated data, reflects positively on what the Fund has achieved. An overview of the Fund and its highlights will provide insight into the Fund's achievements.

As at 30th June 2021, the One Billion Trees Fund was fully allocated and closed. Earlier in the year, Cabinet made the decision that $23.5 million of the Fund would be reprioritised to establish an expanded Planning and Advisory Service within Te Uru Rākau - New Zealand Forest Service.

The One Billion Trees Fund directly funded the planting of 48,265,291 trees and has achieved its objective of funding two-thirds indigenous tree species. It is important to note most of the planting funded to date is expected to occur between 2020-2022.

Funded the planting of

48,265,291 trees

In 2020, $35 million dollars of One Billion Trees funding was redirected to the Jobs for Nature programme, funding 29 projects. The Jobs for Nature programme is providing jobs and economic support for people and communities across New Zealand to assist with the COVID-19 recovery, while ensuring environmental benefits.

With the closure of the One Billion Trees Fund, Te Uru Rākau – New Zealand Forest Service will continue to monitor and support existing funded projects to ensure they are successful, while also shifting its focus to establishing a planing and advisory service.

Te Uru Rākau – New Zealand Forest Service will work with tangata whenua, landowners, the forestry and wood processing sector to make the most of our forest's contribution to Aotearoa New Zealand's social, cultural, environmental, and economic wellbeing.

New Zealand is committed to transitioning to a productive, sustainable, inclusive, and resilient low-emissions economy by 2050. As described in Fit for a Better World and the Climate Commission's final advice (presented 31st May 2021), the forestry and wood processing sector is uniquely positioned to contribute to this goal. Supporting the Government's response to that final advice will be a core part of the Te Uru Rākau – New Zealand Forest Service role.

Te Uru Rākau – New Zealand Forest Service will report on the Fund's ongoing achievement of outcomes for the duration of funded contracts. An independent Evaluation report of the Fund is also expected in January 2022.

2. Overview of this report

Background to the One Billion Trees Programme and Fund

The Programme's goal is to double the current planting rate to reach one billion additional trees by 2028. Although the Fund has now closed, its recipients will continue to deliver on the projected benefits for New Zealand's environment, communities, and economy for years to come.

The Fund is one part of the wider One Billion Trees Programme. On 13th August 2018, Cabinet agreed in principle to establish the Fund comprising the following two parts:

1. A new tree planting Grants scheme (operating over three years and targeting approximately two-thirds of planting in indigenous species); and
2. A Partnership fund (operating over three years to provide financial support for key activities that enable planting) [CAB-18-Min-0379.01].

The Programme and the Fund focus on making it easier to plant the right tree, in the right place, for the right purpose. Furthermore integrating trees into the landscape to complement and diversify existing land uses have always been a priority.

The Fund has achieved this by supporting innovation, research, and sector development, to improve the way we plant and grow trees. Te Uru Rākau – New Zealand Forest Service will continue to support this direction even though the One Billion Trees Fund closed on 30th June 2021.

The One Billion Trees Fund established a cross-agency Advisory Panel. This included representation from Department of Conservation, Ministry for Environment, Ministry of Business, Innovation and Development and Te Puni Kokiri.

The role of the Advisory Panel was to assess and make recommendations on applications presented to them for Partnership's funding or Grant applications that were:

- more than $500,000 in value;
- more than 300ha in size;
- were more complex or seeking flexibility outside the standard grant eligibility parameters.

As the One Billion Trees Fund has come to end, we acknowledge the work of the Advisory Panel and thank them for their contribution.

Cabinet agreed to establish a tagged contingency of $234 million for the Fund. Cabinet authorised delegated Ministers to draw down the contingency once the operational design had been agreed upon. Specifically, these were the Ministers for Forestry, Finance, the Environment, and Climate Change.

In 2019, $21 million was redirected to the Wilding Conifer Control Programme and in July 2020 a further $11.6 million was redirected to the Industry Transformation Programme (ITP). A total of $1.3 million has been paid towards the Hill Country Erosion Fund to support regional native regeneration and riparian fencing work, leaving $200.2 million for the funding of Grants and Partnerships.

In March 2021, Cabinet agreed in principle to reprioritise $23.5 million from the One Billion Trees Fund to establish a new forestry planning and advisory service [CAB-21-MIN-0084.01].

Therefore a total of $176.7 million funding was available for allocation.

On 29th June 2021, Ministers of Forestry, Finance, Conservation and Climate Change approved the high-level design of Te Uru Rākau – New Zealand Forest Service Planning and Advisory Service [briefing B21-0421]. The intent of the Planning and Advisory Service is to enhance existing services within Te Uru Rākau – New Zealand Forest Service and to provide more on-the-ground support across the full length of the supply chain in the forestry and wood processing sector.

The purpose of this report

This report summarises the performance of the Fund which closed on 30th June 2021.

Continuing with the approach of the 24-month report, this report will focus on key outcomes through use of metrics and examples of funded projects.

Section 3 provides Fund metrics reporting an overview of the following:

- Landowner grants, covering funds spent and trees planted, and a breakdown by region, tree type, and types of planting;
- Partnerships projects, covering funds spent, types of projects approved, and the number of trees planted;
- Estimates of direct jobs and training positions created through partnership projects;
- Māori participation in the Fund, covering Māori landowners and partnerships granted funding, as well as hectares of Māori land to be planted;
- The Fund's contribution to carbon sequestration to date;
- The Fund's ongoing support towards New Zealand's post-COVID-19 socio-economic goals in relation to the forestry sector.

Section 4 provides examples of funded projects and how these are contributing towards realising the Fund's six key outcomes:

- Protection and improvement of our soil, water quality, and other natural resources.
- Helping New Zealand meet its international climate change commitments.
- Increased biodiversity and enhanced natural landscapes.
- Māori maximising the potential of their land and exercising their Kaitiaki obligations.
- Employment and training opportunities within the forestry industry.
- Sustainable regional economic growth.

Section 5 provides a comprehensive summary of the Fund and looks to the next steps Te Uru Rākau – New Zealand Forest Service will take to build on the foundations achieved by the Fund.

Throughout this report the commentary demonstrates the Fund's contribution towards the New Zealand Government's wider forestry, environmental, economic, and social goals.

Key contributions to Fund outcomes

Overall, the Fund has performed well

Overall, the Fund has positively contributed to key outcomes for New Zealand. A total of $176.7 million of the Fund has been allocated (over three-quarters of the total funding originally available). This has supported 604 Direct Landowner Grants and established 127 Partnerships of a wide variety, which are driving the achievement of the Funds outcomes. Below are summaries of achieved outcomes, which are detailed further in Section 4.

Protection and improvement of our soil, water quality and other natural resources

Funding is bringing communities together to protect and regenerate their land, water, and soil, through tree planting. This has targeted and empowered both new and existing projects. Catchment groups, the Hill Country Erosion (HCE) Programme and large-scale planting projects, are just some of the funded programmes which contributed to the direct funding of 48,265,291 trees (70% indigenous and 30% exotic), all of which improve and protect the natural resources of Aotearoa.

Helping New Zealand meet its international climate change commitments

Forestry is a major part of the economy and plays a significant part towards meeting emission reduction commitments. The Climate Change Commission's final recommendations to the Government emphasised the key role of forestry to help New Zealand meet its climate change goals. Government programmes are estimated to contribute around 72 million tonnes Co_2 removal or around 80%, with the One Billion Trees Fund representing approximately 7 million tonnes Co_2 removal. The One Billion Trees funding has helped many New Zealanders to personally contribute to our national and global carbon reduction goals.

Increased biodiversity and enhanced natural landscapes

Over 70% (34,566,271) of trees funded by One Billion Trees are indigenous (e.g. tōtara, mānuka, kahikatea, coprosma).

Less than 30% (13,699,020 trees) of funding was for exotic trees (e.g. Radiata pine, Douglas fir, eucalyptus and redwoods species).

Both indigenous and exotic planting deliver a range of positive benefits to farms and landowners, particularly those wishing to diversify their land use and reduce erosion.

Māori maximising the potential of their land and exercising their kaitiaki obligations

There has been a strong focus on funding forestry education and training for Māori, and on providing relevant professional advice to Māori landowners on the benefits of tree planting.

This supports Māori landowners to exercise their Kaitiakitanga and rangatiratanga responsibilities on their land with their whānau, hapu, iwi, and communities. It also creates higher engagement and participation in the forestry and wider taiao (natural) environment and sector.

Funding was allocated to entities, such as Whenua Oho, to provide Māori landowners with education and access to networks relevant to their aspirations.

Relationships were placed at the centre of funding interactions, in recognition of the value Māori place on people.

This approach increased Māori Partnership involvement in the fund, with the greatest increase in Direct Landowner Grants where 43 grants have been approved and funded. This is a 6% increase in funding since the 24-month report.

Employment and training opportunities within the forestry industry

At the peak of the Covid-19 crisis in 2020, the Government refocused some funding to shovel ready projects, with a special emphasis on boosting the capacity and capability of the nursery sector to help large scale planting and restoration initiatives over the next decade.

The Fund has helped create over 1,839 full-time jobs. This includes 29 Jobs for Nature projects aimed at creating employment opportunities through the Covid-19 recovery package.

Sustainable regional economic growth

Post-Covid-19 in 2020, the Provincial Growth Fund (PGF) released funding to support the recovery of regional economies. One of these was the Fencing of Waterways fund which supports farmers to fence and plant riparian areas.

Te Uru Rākau – New Zealand Forest Service supported MBIE Fencing of Waterways funding by promoting and allocating funds to projects that met both One Billion Trees and Fencing of Waterways funding criteria.

Photo above: One Billion Trees planting in Marlborough

3. One Billion Trees Fund – Metrics

The Fund was established to plant trees or remove barriers to tree planting, to deliver a wide range of benefits to New Zealanders.

As of 30 June 2021; $175.1 million (99% of available funding) has been approved, over 95% of projects in the fund have been contracted, with $63.8 million paid out.

This section details the proportion of projects that contribute to the One Billion Trees Fund outcomes.

The below visualisation sets out the Fund's expected contribution to outcomes to date.

Key outcomes achieved through the Fund

4% projects contributing to sustainable regional development

70% projects contributing to enhanced environmental sustainability

14% projects contributing to increased productivity

47% projects contributing to increased employment

13% projects contributing to improved support of Māori aspirations

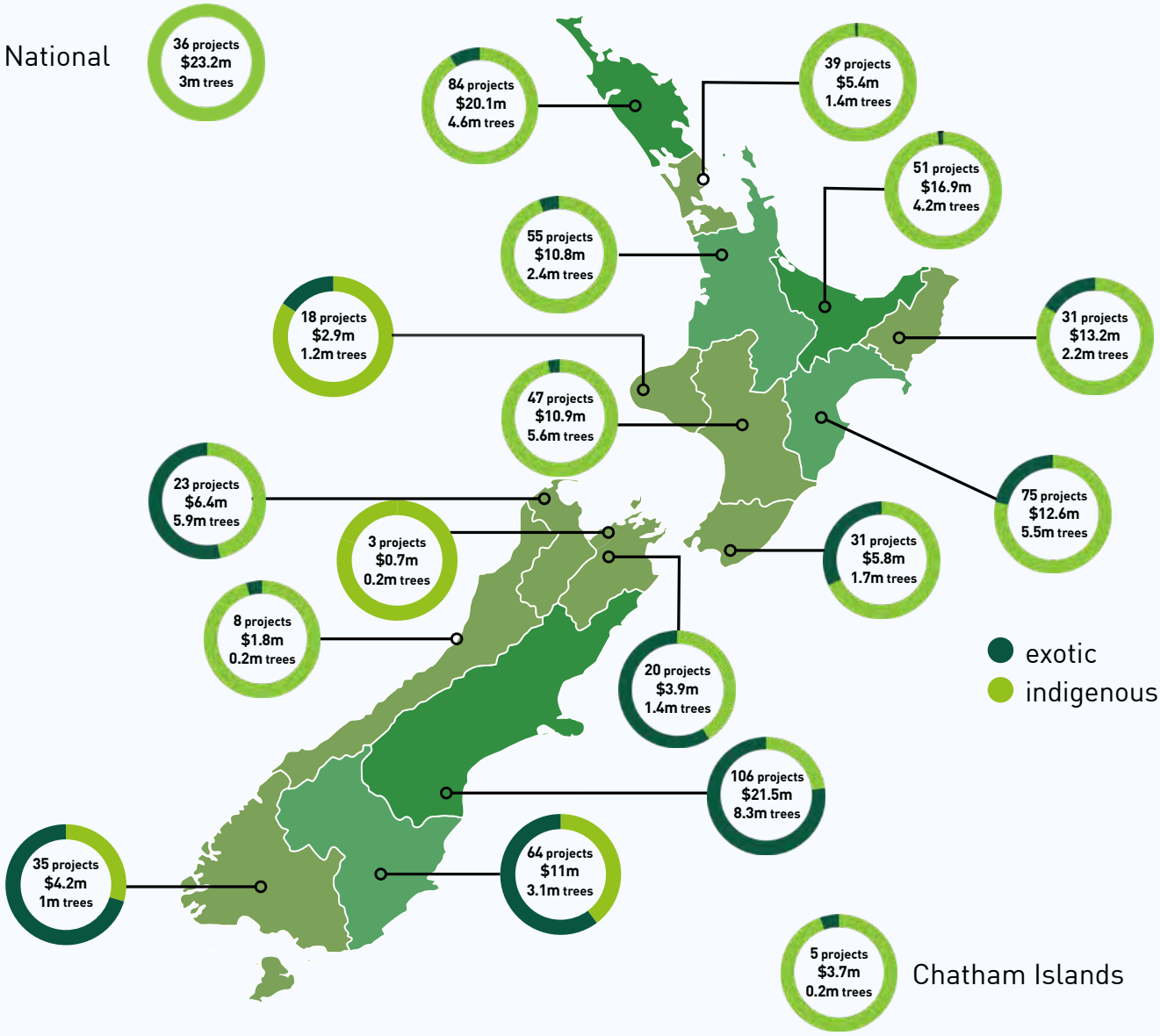
*projects can contribute to more than one outcome

Table 1: Breakdown of One Billion Trees Funding allocation

One Billion Trees Funding	Budget ($m)	Approved ($m)	Contracted ($m)	Paid ($m)
One Billion Trees Grants	92.7	76.7	74.9	21.8
One Billion Trees Partnerships	107.5	98.4	93.1	42.0
TOTAL	**200.2**	**175.1**	**168.0**	**63.8**

Number of projects, trees, and funding allocated by region

As at 30th June 2021



Total funding **$175,171,880**

Direct Landowner grants – Metrics

Landowner grants provide direct funding for landowners to subsidise the cost of planting and establishing trees. They can also assist with the costs of supporting indigenous regeneration ("reversion grants"). Te Uru Rākau – New Zealand Forest Service set the grant rates to encourage indigenous planting, erosion control, and environmental restoration.

Partnership Projects – Metrics

Partnership projects provide funding for key activities which enable more planting. Partnerships include science and innovation projects, training programmes and workforce development, advice and support for landowners, large-scale tree planting and restoration, and seedling production.

604 landowner grant applications have been approved:

As at 30th June 2021, 604 Direct Landowner Grant applications were approved, with 600 agreements contracted.

468 Projects — included indigenous planting representing **14,656** hectares — **19,144,235** trees

201 Projects — included exotics representing **13,511** hectares — **13,699,020** trees

60 Projects — are for native regeneration of indigenous forests, expected to contribute an **additional** **2,939** hectares — **1.1** million indigenous trees

43 Projects — applications are taking place on **Māori** freehold land

*one grant application could be a mix of native and exotic blocks.

Funding ranges from $4,000 to $2,335,000 and totals **$76,763,000**

$21.8M paid as at 30th June 2021

Outreach and Engagement

The One Billion Trees Fund is now closed, however existing funding agreements extend into the future and will need continued support and relationship management as these projects progress.

Te Uru Rākau – New Zealand Forest Service has made significant inroads to coordinate stakeholder engagement across the forestry and community sectors, both through its funding and outreach activities.

In the last six months of the Fund, engagement with Māori and rural communities were prioritised. These two communities are critical for the success of the wider One Billion Trees Programme due to the land they own, and the capacity they have for planting.

The Matariki Tu Rākau Fund is an example of how community outreach and stakeholder engagement can be done successfully to achieve environmental, economic, social and cultural outcomes. This has been particularly evident for Māori.

Across the **127** approved Partnership projects:

11 with charities

38 with Māori landowners or organisations

22 with companies

21 with NGOs

16 with local government organisations

2 with individuals

3 with central government organisations

14 with research organisations

Total funding **$98,408,126**

$42M paid as at 30th June 2021

13,479,00 trees planted through the Fund as at 30th June 2021

Te Uru Rākau
Forestry New Zealand
Providing leadership for forestry and wood processing to deliver on New Zealand's climate change goals, ensure sustainable economic growth, and improve the health of our environment.

Te Uru Rākau
Forestry New Zealand

Matariki Tu Rākau

Matariki Tu Rākau is a fund providing grants to recipients to plant living memorials to their community heroes.

In 2020, the scope of the Matariki Tu Rākau fund was broadened to better align with Māori aspirations for their land. The fund has taken a leading role in engaging with Māori landowners through land use expertise and regional presence, acknowledgment of Treaty obligations, and supporting Māori designed projects and events.

Before the scope was broadened at the end of 2018, only 1 of 19 (1.9 %) applications were with Māori affiliated groups/organisations and 1 out of 30 (3%) in 2019. After changes in 2020, 14 of 36 (38%) applications were from Māori affiliated groups/organisations. There are currently 14 of 48 (29%) applications with Māori affiliated organisations or groups for 2021 planting.

One example of this is the Tahuaroa Whanau project on Arapawa Island in the Outer Marlborough Sounds. The Tahuaroa Whanau planted 2000 trees, including Rongoa species, on a DoC reserve which is adjacent to their Urupa. The planting is to commemorate the Waka Paroa, the Hapu Puketapu and the Tahuaroa Whanau. The grant enabled the wider whanau to beautify their ancestral land and remember those who have come before. It is hoped that over time, the land will return to the native bush their ancestors would have seen on their first passage across Raukawa to Arapua many years ago.

In 2021, there was also a drive to increase school participation in tree planting activities through Matariki Tu Rākau.

Between 2018 to 2020 there were only six schools and one kindergarten who received Matariki Tu Rākau grants. This year (2021) Matariki Tu Rakau received 16 applications from schools.

For example, Lake Rotoiti School (St Arnaud) has planted 320 mixed native trees on their school grounds with half the community attending the planting event in May 2021. The planting is to commemorate Phillip Borlase for his community service. Phillip was a stalwart for the St Arnaud community. This planting event brought together the rural community to connect and work towards a common goal.

Matariki Tu Rākau also supports community groups; for example, Matariki Tu Rākau has partnered with Friends of Taihape Society to plant 6000 trees at Papakai Park over three years. The park is in the centre of Taihape and will provide mountain bike and walking tracks for the local community and provide a visitor destination for those from outside the area. All sections of the community are involved including Iwi, politicians, council, local volunteers and children. Through this grant, the community are coming together to work towards a common goal to create a fantastic resource for the town which will be enjoyed by future generations.

The Matariki Tu Rākau grant is set to continue until the remaining funds ($1,103,000) are spent, which is forecast to be at the end of the 2022 planting season.

4. Key Outcomes

Protection and improvement of our soil, water quality, and other natural resources

Protecting and improving soil, water quality and other natural resources are key intended outcomes of the Fund.

The health of New Zealand's soil and water (indeed all our natural resources) is integral towards the achievement of all other key programme outcomes.

Through analysis of the type of land we have funded to be planted we can show the Fund's achievement in meeting soil quality outcomes.

The Land Use Capability (LUC) tool is used for sustainable land management. Using the land's physical limitations (e.g. rock & soil type, erosion type & severity), it classifies rural land into 1 of 8 classes. LUC1 is the most versatile and can be used for a wide range of land uses. LUC6, 7 & 8 have some physical limitations and are more suited to forest land.

Predominantly, the Fund has approved LUC6, 7 & 8 land for planting. With a smaller proportion, 2836 hectares or 11% of the total area approved has been planted on LUC1 to 5 land. Some of this LUC1 to LUC5 land has been approved to be planted as this is typically part of a wider planting plan or is linked to restoration projects targeting ecosystem, such as wetlands and riparian margins or is for lifestyle blocks. This land may also have other limitations such as soil, rock or wetness making the land unsuitable for production farming.

Catchment wide protection and restoration is critical if we are to improve soil, water quality and other natural resources at scale.

Catchment groups are some of the larger scale restoration projects that have received One Billion Trees funding. The Fund specifically allocated $10M to six catchment groups throughout New Zealand. These projects will plant approximately 1.4 million trees. Other catchment groups received One Billion Trees Funding through the Jobs for Nature allocation.

Catchment groups include cooperation between farm landowners, their communities, and local councils to protect waterways and improve biodiversity. They cover large areas of diverse land and can link to estuaries and the sea. They are essential to the health of water in New Zealand. Furthermore, these projects support people into training and employment.

Te Korowai o Papatūānuku: Āwhitu Peninsula

A good example of a recent catchment group funded by One Billion Trees is Te Korowai o Papatūānuku, Āwhitu Peninsula located in the South Auckland region. The project aims to plant native trees within biodiversity focus areas to create ecological linkages across the peninsula.

The Fund will help to plant 250,000 trees over 63 hectares.

Awhitu Landcare is delivering the project in partnership with Ngāti Te Ata and with support from Auckland Council biodiversity experts. Training, and employment opportunities are expected outcomes from the project.

Pomahaka Watercare Catchment Group

Another catchment group funded through One Billon Trees is the Pomahaka Watercare Catchment Group (PWCG) in Otago. PWCG was established in June 2013 to bring farmers and stakeholders together to scope a catchment plan for the Pomahaka Catchment. PWCG now comprises approximately 170 local farmers (more than 50% of farm owners in the catchment) looking to enhance water quality.

Through the Partnership's funding, PWCG will undertake 50km of riparian planting and build 100km of fencing. Ministry of Business, Innovation and Employment (MBIE), iwi, Fish & Game, Department of Conservation and Otago Regional Council are also project partners.

The Pomahaka River is recognised as a key trout spawning area within the Clutha catchment, but due to increasing farming activity over the last two decades it has poor water quality.

The project will also support Tapanui's local economy, provide job security through sourcing plants from the local nursery, fencing posts from the local sawmill and employing local contractors for planting and maintenance.

Helping New Zealand meet it's international climate change commitments

Helping New Zealand meet international climate change commitments is a key intended outcome of the Fund.

All One Billion Trees funded projects contribute in some way to carbon reductions and help New Zealand reach its International Climate Change commitments. One Billion Trees projects that contribute to the key outcomes including increased biodiversity and enhanced natural landscapes, and protection and improvement of soil, water quality, and other natural resources; also contribute towards reducing carbon emissions.

Potential for Carbon Sequestration

Projections completed in June 2021 estimate forestry could contribute around 81 million tonnes of carbon dioxide removals between 2021 – 2030, and contributes towards meeting NZ's first Nationally Determined Contribution. Within this, Government programmes are estimated to contribute around 72 million tonnes of CO_2 removals, or around 89%, with the One Billion Trees fund representing approximately 7 million tonnes of $C0_2$. The sequestration of 7 million tonnes CO_2 is equal to approximately the annual average emission of 4 million cars. As the majority of planting under the Fund is native species which initially grows slower, the rate of carbon capture associated with the Fund will increase over time.

The combination of historical Government forestry initiatives and the New Zealand Emissions Trading Scheme is projected to have an important contribution to increasing net removals, and the contribution to emission budget and targets in the future. Without the inclusion of New Zealand Government forestry-related policies and measures, projected net removals would be significantly lower.

Climate Change Commission Advice 2021

In June 2021, the Climate Change released its final advice to the government: Ināia tonu nei: a low emissions future for Aotearoa.

Chapter 18 of the final report recognises the key role forestry and forests play in removing carbon from the atmosphere, noting forests are the only option available now for removing carbon dioxide from the atmosphere.

The roadmap recommends a comprehensive national programme to establish more permanent native forests, which will continue to sequester carbon for hundreds of years, eventually reaching a steady state of around 920 tonnes of CO_2 per hectare. They also provide other benefits including improving biodiversity, providing a habitat for birds and other native wildlife, as well as cultural, recreational, and spiritual benefits.

The final advice differs from the draft as it is more explicit about changing the New Zealand Emissions Trading Scheme to manage afforestation as a critical step to ensure gross emissions in Aotearoa are reduced.

Te Uru Rākau – New Zealand Forest Service will play a key role in meeting our future climate change commitments including through programmes such as the Government's primary sector Fit for A Better World initiative that includes a focus on supportting more tree planting.

Increased biodiversity and enhanced natural landscapes

Increasing biodiversity and enhancing natural landscapes is a key intended outcome of the Fund.

New Zealand has some of the most unique biodiversity in the world. Of Aotearoa's indigenous species: 84% of vascular plants, 72% of birds, 81% of insects, 88% of freshwater fish, and 100% of reptiles, frogs, and bats; are only found here. Loss of habitat is an extinction threat for these species.

More indigenous trees planted since the 24-month report

As of June 2021, 72% of the trees approved for funding (grants, partnerships, and native reversion) were indigenous, making up 52 % of the total land area funded. This is a 2 % proportional increase from the 70% of indigenous trees funded, as reported on in the 24-month report.

The land area indigenous trees are planted on has increased by 2,532 hectares or a 4.60% proportional increase since the 24-month report.

Applications processed over the previous six months have included more indigenous planting to be planted in the 2020-2021 seasons. The uptake of funding for indigenous planting has helped create a demand for native seedlings and therefore helped build the production capacity of nurseries.

Te Uru Rākau – New Zealand Forest Service has approved funding that would mean the Fund will achieve its goal of planting two-thirds native. As of June 2021, the proportion of approved grants of natives and exotics now exceeds this target.

Indigenous tree projects funded by One Billion Trees align with the Te Mana O Te Taiao: Aotearoa New Zealand Biodiversity Strategy (2020) which outlines how New Zealand will protect, restore, and sustainably use biodiversity. The aim of this strategy is to ensure nature is thriving by 2050.

Palliser Ridge Indigenous Planting project

A project at Palliser Ridge near Featherston is a good example of a project achieving biodiversity outcomes through creating a biodiversity corridor. The Palliser Ridge project will connect with the Tonganui Corridor another project being supported by Aorangi Trust & Project Crimson.

This Direct Landowner Grant will enable Palliser Ridge to plant 14 hectares of natives. The planting will provide shade, shelter, and a pathway for native wildlife.

Lot Seven Native Planting

Another project is Lot Seven which is funded to plant 5.9 hectares of natives near Gisborne. Although smaller scale, the project will restore native species and reduce the erosion risk.

Permanent revegetation projects like this one provide an inspiration and a practical planting example to be followed by similar sized properties.

Scion Native Seedlings trial

The Fund has also allowed Te Uru Rākau – New Zealand Forest Service to partner with Crown Research Institutes, such as Scion, to trial innovative techniques to accelerate the production of native seedlings.

Native seedlings are slower to produce than many exotic species with the quality often varying between different plants. This project explores different ways to increase seedling production to deliver a greater supply of affordable native seedlings of a high standard to the market.

Photo above: Young native seedling growing in an Ellepot at Scion's nursery.

A key experiment in the trial is mechanised production of seedlings in biodegradable paper pot containers through a partnership with Ellepot, a Danish company that makes paper pot machines.

Key findings from the experiment include:

- Seedlings have faster root development with larger, more fiborous root systems
- It produces an excellent standard of plants
- Shorter growing times
- It costs less to produce and;
- increases survival rates once planted

These experiments will result in more native plant availability to meet increased biodiversity and enhanced natural landscapes outcomes.

Māori maximising the potential of their land and exercising their Kaitiakitanga obligations

Contributing to Māori maximising the potential of their land and exercising their Kaitiakitanga obligations is a key intended outcome of the Fund. This has been achieved through Partnerships and Direct Landowner Grants to Māori landowners.

Kaitiakitanga

Māori participation in the Fund has increased. This is shown by an increase of 1,430 hectares of land for planting, and an increase of 6% in grant money being allocated to Māori since the 24-month report.

Overall, One Billion Trees Direct Landowner Grants have funded over 3500 hectares of Māori land.

Furthermore One Billion Trees has funded groups such as Whenua Oho, who focus on assisting Māori land owners in governance, investment and being development ready. This provides landowners with the necessary and relevant tools to enact Kaitiakitanga on their land.

Thirty-eight partnership projects have been entered into with Māori

As of 30th June 2021, there are 38 approved partnership grants with Māori totalling $44,492,543 representing 45.2% of the total Partnerships funding allocated.

These partnership projects are all progressing well and have delivered real benefits for whānau, hapu, iwi, communities, and those involved.

Matahi Forest land project

An example of the Fund partnering with Māori is Matahi Forest Land, a project in the Eastern Bay of Plenty. The Waimana Kaaku Trust (managing assets for Ngā Hapū/ Marae o Te Waimana) will plant 195,000 native seedlings across 78 hectares.

This project will also support employment for an existing 10-person crew from the local hapu.

The other benefits this project contributes to include the reduction of erosion which inputs sediment into the Bay of Plenty coastal environment, supporting iwi to be kaitiaki of their land and waterways. Furthermore this project extends kiwi corridors and enhances the habitat for native bats and snails.

Ngāi Tahu – Te Whenua Hou Indigenous/ Manuka planting

Another great partnership is with Ngāi Tahu, who in conjunction with Lincoln University, have developed a planting programme for Te Whenua Hou (TWH) in Canterbury. TWH consists of 20 Ngāi Tahu owned dairy farms totalling an area of 6,764 hectares. The planting programme aims to plant 1.2 million trees by 2030.

One Billion Trees have funded 88.53 hectares of indigenous species to be planted on TWH properties to create small reserves in the corners of paddocks with pivot irrigation.

The objective of the planting programme is to restore and enhance biodiversity on-farm biodiversity and within the wider Canterbury Region. The planting is intended to act as a bird corridor between the sea and alps. The reserves will help reduce run-off issues and have ecological and carbon sequestration benefits.

Employment and training opportunities within the forestry industry

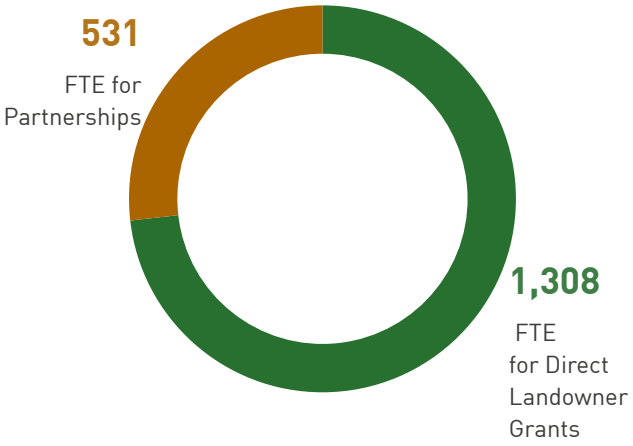
Partnership projects have so far employed over 500 people.

Developing the forestry industry's workforce capabilities is a key intended outcome of the Fund. Improved access to training will provide employment opportunities for foresters, planting crews, loggers and researchers etc.

Job creation and Industry development

Partnerships and grants projects will provide 1,839 full-time equivalent (FTE) positions over the life of funded projects. These positions include opportunities in forestry management, wood processing and fencing. They also provide opportunities for qualifications in forestry.

This is a substantial source of employment in regions and will provide skilled workers for the forestry sector in the future.



Waipoua Forest Trust Planting Team

The Waipoua Forest Trust received One Billion Trees funding to recruit nine roles. These seasonal staff will be trained in planting and site clearing techniques, chemical handling (for site maintenance activities) and ATV handling.

Funding will also allow up to 50ha of land to be planted to create an ecological corridor for Waipoua Forest.

Te Wao o Titiraukawa

Te Wao o Titiraukawa is another project to receive One Billion Trees funding to deliver training for 28 rangatahi and the planting of up to 55,000 indigenous trees at Titiraukawa.

This project forms a part of Ngāti Kuia's economic strategy to grow a higher skilled workforce and self-employment opportunities in the indigenous and horticultural forestry industry.

Training will include planting and maintaining indigenous trees, horticulture, Matauranga cultural practices and organic harvesting for kanuka product development (e.g. kanuka tea, fragrant oil, honey and rongoa). Trainees will earn learning credits through Nelson Marlborough Institute of technology (NMIT).

The project aims to create a pathway to establish a rongoa Forest that is organically certified and will service product development for Ngāti Kuia's kanuka distillery business.

Sustainable regional economic growth

Sustainable regional economic growth is a key intended outcome of the Fund.

One Billion Tree's funded training programmes, education and large-scale infrastructure projects are all contributing to regional economic growth.

Totara Industry Pilot

The Totara Industry Pilot was launched in 2018 in partnership between Te Uru Rākau – New Zealand Forest Service, Scion, Taitokerau Māori Inc and Tane's Tree Trust, along with other government agencies and private landowners.

The pilot is to test how sustainable regeneration and cultivation of totara can deliver commercial opportunities for local industries, business, and communities, including Māori.

Phase one was completed in 2020 which showed there is enough totara on private and Māori-owned land in Northland to develop a strong productive economy.

There is growing interest from landowers in diversifying their land for using totara, which can be harvested and milled under the Forests Act 1949. The potential for Northland and New Zealand includes creating jobs, new businesses and increasing environmental sustainability through the regeneration and planting of indigenous forest.

Te Tapu O Tāne Ltd – Papatipu Rūnaka ki Murihiku nursery Kaupapa: Southland

Four Murihiku (Southland) Rūnaka (Oraka Aparima Rūnaka, Te Rūnanga o Hokonui, Waihopai Rūnaka and Awarua Rūnanga) have come together to develop a comprehensive afforestation project, initially based on the Waituna catchment on rural Māori land. Each Rūnaka is a shareholder in a charitable company named Te Tapu o Tāne Ltd.

The project will employ 37 people, provide training to 24 rangitahi and support the construction of four small native seedling nurseries to generate 400,000 seedlings per annum.

Right tree, right place, right purpose

The One Billion Trees Fund provides targeted funding to landowners to plant the right tree, in right place for the right purpose. The following section highlights projects that have successfully implemented this philosophy into their projects.

Dampier Crossley Koromiko received a Direct Landowner Grant to plant 500ha of steep, low productive and erosion prone land. The project was for a mixture of *Pinus radiata, Pinus attenuata*, redwoods and native reversion. This property was affected by the Kaikoura earthquakes in 2016. This project allows the grantee to diversify their income streams to be more resilient to market fluctuations.

One Billion Trees also saw the importance in funding alternative pine species for planting, including hybrid pine species. One Billion Trees Partnerships funded groups such as Scion, New Zealand Drylands Forest Initiative and New Zealand Farm Forestry to undertake research and trials of alternatives to *Pinus radiata*.

For example, New Zealand Farm Forestry Association received One Billon Trees Partnerships funding to conduct field trials on the establishment and early growth of selected sterile, canker resistant Cypress clones across a variety of sites. Cypresses (macrocarpa) can be grown in every region in New Zealand, with some clones being more drought and wind hardy then *Pinus radiata*. Cypress produces naturally durable and easy to process timber. However, the major barrier to the uptake of Cypress as an alternative species is the incidence of Cypress canker, a fungus causing the dieback of shoots, death in young trees, and malformation of older trees.

The New Zealand Drylands Forest Initiative received One Billion Trees funding to help complete the final stages of their research to develop an elite durable and sustainable species of eucalyptus. Once developed, this eucalyptus species will be released commercially in New Zealand. Recently XyloGene (an elite E. globoidea sp.) has been launched with the first planting in the Awatere Valley. The hope is XyloGene branded eucalyptus will become an alternative to using treated pine in vineyard posts.

Photo above: One year old Pinus raidata seedling

5. Next Steps

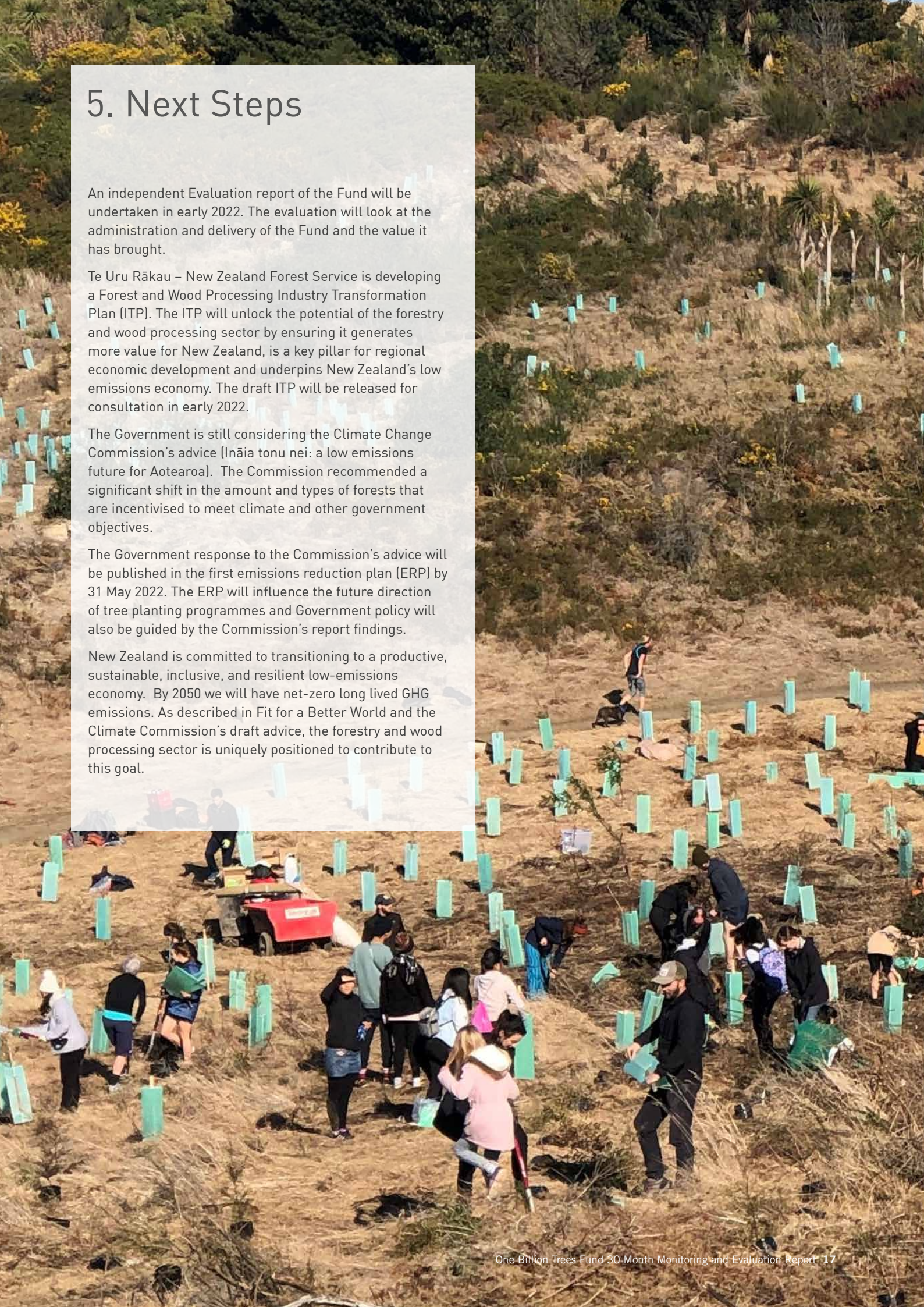
An independent Evaluation report of the Fund will be undertaken in early 2022. The evaluation will look at the administration and delivery of the Fund and the value it has brought.

Te Uru Rākau – New Zealand Forest Service is developing a Forest and Wood Processing Industry Transformation Plan (ITP). The ITP will unlock the potential of the forestry and wood processing sector by ensuring it generates more value for New Zealand, is a key pillar for regional economic development and underpins New Zealand's low emissions economy. The draft ITP will be released for consultation in early 2022.

The Government is still considering the Climate Change Commission's advice (Ināia tonu nei: a low emissions future for Aotearoa). The Commission recommended a significant shift in the amount and types of forests that are incentivised to meet climate and other government objectives.

The Government response to the Commission's advice will be published in the first emissions reduction plan (ERP) by 31 May 2022. The ERP will influence the future direction of tree planting programmes and Government policy will also be guided by the Commission's report findings.

New Zealand is committed to transitioning to a productive, sustainable, inclusive, and resilient low-emissions economy. By 2050 we will have net-zero long lived GHG emissions. As described in Fit for a Better World and the Climate Commission's draft advice, the forestry and wood processing sector is uniquely positioned to contribute to this goal.



6. Appendix

Appendix 1: Grants Data Tables as at 30th June 2021

Table 2: Direct Landowner Grants by land ownership type

Category	Number of grants
Charities	5
Companies	259
Māori landowner	14
Māori organisation	8
Government organisation	1
Local government organisation	1
Non-government organisation	13
Landowners	303
Grand total	**604**

Table 3: Direct Landowner Grants regional breakdown

Region	Number of approved grants	Funding allocated ($)	Indigenous trees funded	Exotic trees funded	Indigenous planting area (hectares)	Exotic planting area (hectares)
Auckland	35	2,344,810	976,436	8,592	319	8
Bay of Plenty	35	1,883,582	922,195	57,376	543	67
Canterbury	101	18,704,688	1,791,922	6,462,040	2,384	6,552
Chatham Islands	3	1,078,395	205,332	11,407	177	10
Gisborne	23	3,630,074	1,445,166	361,835	837	302
Hawke's Bay	66	8,715,159	3,460,838	1,207,340	2,873	1,210
Manawatu/ Whanganui	41	6,770,084	3,648,998	173,960	2,475	205
Marlborough	20	3,999,324	598,537	859,500	511	884
Nelson	2	349,565	125,068	0	78	0
Northland	69	4,459,213	1,811,134	394,556	875	318
Otago	61	8,276,322	1,191,446	1,805,445	1,085	1,646
Southland	33	2,178,208	291,633	691,505	331	617
Taranaki	15	2,537,267	1,019,069	197,429	920	200
Tasman	21	3,815,973	150,830	770,166	199	753
Waikato	43	3,465,409	654,377	133,313	315	138
Wellington	29	4,395,446	808,274	554,236	705	589
West Coast	7	160,235	42,981	10,320	30	13
Grand Total	**604**	**76,763,754**	**19,144,235**	**13,699,020**	**14,656**	**13,511**

Table 4: Direct Landowner Grants funding category breakdown

Planting type	Area	Trees funded	Percentage of total approved area	Percentage of trees funded
Mixed indigenous	6,643	10,321,014	24.00%	31.00%
Reversion (trees counted)	1,943	1,141,378	7.00%	3.00%
Reversion (trees not counted)	997	0	4.00%	0.00%
Mānuka/kānuka	5,073	7,681,844	18.00%	23.00%
Pinus radiata	9,187	9,246,863	33.00%	28.00%
Other exotics	4,325	4,452,157	15.00%	14.00%
Native planting	**14,656**	**19,144,235**	**52.00%**	**58.00%**
Exotic planting	**13,511**	**13,699,020**	**48.00%**	**42.00%**
Grand total	**28,167**	**32,843,255**	**100.00%**	**100.00%**

Table 5: Reasons for withdrawal after approval

Reason or withdrawal	Number of applicants withdrawn
Contract terms (unwilling to commit)	2
Land owner did not consent	1
Funding level too low	2
External reasons	4
No reason provided	38
Other funding sourced	2
Process was too slow	1
Grand total	**50**

Table 6: Applications for Direct Landowner Grants by Māori landowners

Application status	Number of applications	Indigenous planting area (hectares)	Exotic planting area (hectares)	Total planting area (hectares)	Funding assessed
Approved	2	449.00	15.31	464.31	$1,741,263
Contract	41	2,255.94	805.31	3,061.25	$9,428,126
Grand total	**43**	**2,704.94**	**820.62**	**3,525.56**	**$11,169,389**

Table 7: Outcomes of Direct Landowner Grants

One Billion Trees Outcome	Number of projects contributing to Outcome
Sustainable Regional Development	17
Increased Productivity	91
Improved Support of Māori Aspirations	**45**
Enhanced Environment Sustainability	**452**
Increased Employment	**288**

Appendix 2: Partnerships Data Tables

Table 8: Contracted partnerships

Project name	Overview	Value	Region	End Date
Abushman Training Pruning Crew	An entry-level forestry pruning training programme (Level 2-3 NZQA) based in Tairawhiti. The training is for people interested in entering the forestry sector and will enable them to work within a commercial forestry setting.	89,387.00	Gisborne	COMPLETE
Acceleration of Minginui Nursery	Funding to scale-up Minginui Nursery's production of native seedlings and in doing so boost community development and job creation opportunities. Funding will allow the nursery to grow from 20,000 seedlings per year to 1 million seedlings per year.	5,800,000.00	Bay of Plenty	30/06/2022
AUT Living Laboratories Project	Funding to support a research project to investigate the use of large-scale forest restoration in agricultural landscapes, where restoration seeks to improve native biodiversity, carbon sequestration and sustainability.	581,842.00	Nationwide	31/03/2023
BOPRC Priority Planting Programme	This programme will target planting 170 hectares of high priority erosion prone land with mostly native species. This will happen during the 2020 and 2021 planting seasons.	693,000.00	Bay of Plenty	30/06/2023
BOPRC Priority Planting Programme - (Extension)	An extension to Council's existing priority planting programme. This project provides funding support for fencing, site preparation and planting of high priority sites during 2020 and 2021. Focussing on high priority erosion prone areas, an additional 47 hectares will be planted with 134,000 native plants.	498,000.00	Bay of Plenty	30/10/2022
Canterbury University Restoration Ambassador	A restoration ambassador (RA) will provide expert ecological restoration advice, particularly into areas with limited access to information and high demand e.g. Tairawhiti and Northland. The RA will work closely with landowners to translate their aspirations into high quality planting plans.	76,199.00	Canterbury	COMPLETE
Chatham Islands Nursery Collective Project	Support for the expansion and creation of 8 small, community-run native plant nurseries on the main island.	163,505.00	Chatham Islands	COMPLETE
Competenz - Harvesting Simulator Apprenticeship Training Pilot	A study to compare a harvestor simulator training programme with a traditional training programme to determine impacts on learner success, trainee retention in the industry, and differences in the costs of the two approaches. 24 trainees will be involved in the programme.	461,420.00	Otago	31/12/2022
Eastland Wood Council - Training the Next Forest Generation	To provide 20 trainees essential forestry-related training and associated NZQA standards. The project will be coordinated by Eastland Wood Council Incorporated, in partnership with other training organisations. This project forms part of the Government's Tairawhiti forestry sector Covid-19 recovery package.	56,488.00	Gisborne	COMPLETE
FICA Building a Sustainable Silviculture Sector	Additional capacity for the Forest Industry Contractors Association (FICA) to raise their profile, assess national and regional recruitment and training needs and gaps, and to make a start at addressing identified needs/gaps.	88,714.00	Nationwide	COMPLETE

Project name	Overview	Value	Region	End Date
FICA Generation Programme Stage 1	Funding for the Forest Industry Contractors Association (FICA) to scope the need and feasability of introducing the Generation (forestry training) Programme into the Wairarapa and South Waikato districts.	20,000.00	Nationwide	COMPLETE
HBRIC Right Tree Right Place	A broad-scale spatial application of appropriate tree species and forest systems, for the right purpose e.g. erosion and sediment reduction, ecosystem services, carbon sequestration, and commercial timber production by the Hawke's Bay Regional Investment Company (HBRIC). The project produced a summary report, supporting technical reports, and a series of foundation reports covering a variety of topics.	253,000.00	Hawkes Bay	COMPLETE
Hiruharama Maori blocks, Jerusalem	Joint project with PGF Fencing of Waterways fund. Overall project involves 25km of riparian/ gully fencing; supply and planting of 180,300 manuka seedlings across 106.6ha; development and installation of a stockwater system, and project management; and generation of up 15 FTE roles. 1BT is covering the seedling, planting and animal pest control costs, and some fencing costs	500,000.00	Manawatu/ Whanganui	28/02/2022
Hokianga Harbour Care Catchment project	Funding to employ a Catchment Coordinator to engage with landowners to plan planting activities on land linked to three catchments in South Hokianga. Funding will also support part-time roles in three existing community native plant nurseries to produce an additional 128,000 seedlings.	344,522.00	Northland	30/07/2023
Horizons Regional Afforestation Initiave - Stage 1	The Manawatū-Whanganui region has the largest area of farmed hill country in New Zealand and has the biggest hill country erosion programme. This project supported the Council's Sustainable Land Use Initiative programme to plant 1.3 million trees on erosion prone land. The Horizons Regional Council worked with up to 40 landowners through its sustainable land use initiative to get trees into the ground in 2018. The funding also provided forest land appraisals for some landowners who are considering planting trees on their farmland. Additional planting helped create jobs in some of the most remote and isolated communities in the region where unemployment is high. Environmentally, the tree planting will: • reduce erosion and sedimentation in the area • help mitigate climate change • improve water quality. Outputs of the project A total of 1.36 million trees were planted: • 40,000 alternative exotics across 50 hectares • 848,000 mānuka across 565 hectares • 467,000 radiata across 425 hectares.	587,279.00	Manawatu/ Whanganui	COMPLETE
Kahutia-a-Nuku Afforestation Hub	To establish an iwi-based afforestation hub focusing on lands in the North Hokianga and Awanui catchment areas, to assist landowners with (initially) the preparation of 1BT Direct Landowner Grant applications.	499,200.00	Northland	31/10/2022
Kaiate Falls planting project	Kaiate Falls is a popular swimming spot, that is heavily impacted by E. coli. This project will retire and plant 50,000-60,000 native trees in riparian areas upstream of the Falls. This will remove access for stock and mitigate surface runoff to enhance water quality down stream.	302,400.00	Bay of Plenty	30/06/2022
Kauri Sanctuary - Takou Bay Project	This project will recreate and restore an entire kauri ecosystem within a biosecurity-controlled sanctuary on the peninsular that was the ancestral home of Puhi and final resting place of the ancient waka Mataatua - Takou Bay.	5,771,083.00	Northland	28/02/2025

Project name	Overview	Value	Region	End Date
KDL Silviculture training program	A forestry training programme to fill a staffing created by the high volume 2019 planting season in the South Waikato and Bay of Plenty. The programme will provide trainees with the NZQA units required to work in a commercial forestry setting.	37,816.00	Waikato	COMPLETE
Kowhairoa Peninsula Historic Reserve Biodiversity Restoration Project	The proposal will deliver enrichment planting into secondary native forest on Kōwhairoa Peninsula, Whangaroa Northland. The project will deliver; - Up to 132,000 long-lived native plant species (old growth) planted across 110ha of culturally significant and high valued biodiversity land; - 10-14 FTE to deliver the project, undertake seed collection and planting.	1,543,818.00	Northland	23/12/2024
KTM Silviculture training programme	Support for a silviculture training programme for 24 trainees over 2 years (12 trainees/year). Trainees will be fully paid during training, receive Level 3 NZQA silviculture qualifications, and have guaranteed ongoing employment upon completion of the course.	200,000.00	Wellington	30/06/2022
Landcare Research Social licence and barriers to planting	A research project to determine public perceptions to increased levels of planted forests and likely barriers to large-scale planting, and the development of tools to support landowners to plant trees or to detect social licence issues that may arise through planned planting schemes.	377,850.00	Nationwide	31/01/2022
Manaia River sub catchment restoration project	The Manaia River sub catchment restoration project aims to restore the mauri of the Manaia River, with a focus on planting erosion prone and riparian areas, and re-creating 20ha of wetlands. This iwll assist in improving water quality and reducing sediment entering the Manaia harbour (and Hauraki Gulf Marine Park), the wetlands have the potential to create employment opportunities through the establishment of a nursery, mara rongoā and harakeke planting for traditional use. The project is a partnership with two Coromandel iwi, and involves the planting of 40,000 native seedligns across 14 hectares, 7km of fencing, and training for 10 people.	855,592.00	Waikato	30/06/2024
ManaiaSafe Forestry School Pilot Project	A 1 year forestry skills training course in which 10 trainees will receive Level 3 harvesting qualifications, and 6 trainees will receive Level 4 harvesting qualifications.	301,209.00	Gisborne	COMPLETE
Kaiate Falls planting project Manuka Plantation Training Programme, Te Taitokerau	Up to 495 hectares of mānuka will be planted on Ngāti Hine Forestry Trust land to establish a large commercial mānuka plantation and beekeeping business to help diversify land use. The programme will provide training and work experience for up to 40 young people and help them build a strong foundation for a forestry career. There's potential for the training programme to be used in other regions.	1,802,030.00	Northland	30/06/2022
Matariki Tu Rakau	Matariki Tu Rakau plantings will create a national trail of living salutes for service men and women of the Defence Force that complement our time-honoured War Memorials. They will be places where whanau, communities, and visitors can visit in years to come to reflect and appreciate the work and sacrifices of our service people. In October 2019, Te Uru Rakau extended its mandate to include the ability to commemorate those in the fields of innovation, entrepreneurship, improving the lives of others, or voluntary service.	5,550,000.00	Nationwide	01/12/2021
Mohaka Kingz forestry training project	Support for two 8-week introductory forestry training courses that will allow 24 (2 intakes of 12 trainees) to gain level 2 NZQA qualifications. The project is based in Wairoa and will target iwi youth, long-term unemployed, and gang members	133,720.00	Hawkes Bay	COMPLETED

Project name	Overview	Value	Region	End Date
Motutapu Land Restoration Project	The Motutapu Island Restoration project will plant 123,200 native seedlings over three years, and contribute to the creation of a 100ha native forest on Motutapu Island, and restoration of the Island's mauri . The project is managed and delivered by Ngai Tai Ki Tamaki.	1,180,220.00	Auckland	16/12/2022
Nga Kaitiaki o Hōhepa Capacity Expansion and Training Project	Support to enable an existing native plant nursery to increase its seedling output. The seedlings will be used in wetland restoration projects in Hawke's Bay. The funding will allow an additional twelve people with complex intellectual disabilities to be engaged in the operation and to receive training.	250,000.00	Hawkes Bay	30/06/2022
Ngā Karahipi Uru Rākau - Te Uru Rākau Forestry Scholarships	Funding for eight Te Uru Rakau Forestry Scholarships for students enrolled in the Canterbury School of Forestry.	1,139,600.00	Canterbury	
Ngati Haua Mahi Trust - Karapiro catchment project	The project aims to increase restoration planting in the Karapiro and Mangaonua catchments. These catchments have been identified as high priority by the Waikato Regional Council. the project will plant 106,656 plants across 25 hectares, and erect 30 km of fencing. Funding will assist Ngāti Hauā Mahi Trust to expand their existing workstreams.	637,500.00	Waikato	20/01/2024
Ngāti Rēhia Kauri Sanctuary - Stage 1	To assess the feasability of establishing a kauri sanctuary on 85 hectares of sheltered land in Northland. 1BT funding was used to test for Phytophthora agathidicida (kauri die-back disease), provide training to landowners in sampling for the disease, and preparation of a feasibility report. The site was confirmed to be kauri die-back free.	337,700.00	Northland	COMPLETE
NZDFI Drylands - Durable Hardwood Industry	A research project to improve the supply of elite durable eucalypt species (E. bosistoana and E. globodeia). The long-term aim of the Dryland Forests Initiative is to create a sustainable multi-regional durable hardwood products value chain in New Zealand.	450,100.00	Nationwide	30/06/2022
NZPPI 1BT Native Tree Nursery Capability Building	Funding to support New Zealand Plant Producers Incorporated (NZPPI) develop an action plan for the native tree nursery sector to address six critical capability issues.	100,000.00	Nationwide	COMPLETE
NZPPI Plant Production Biosecurity Accreditation Scheme (PPBAS)	Support for New Zealand Plant Producers Incorporated to establish a biosecurity scheme that supports a professional approach to managing biosecurity risks across the plant production sector - the Plant Producers Biosecurity Accreditation Scheme (PPBAS). Funding was used to develop industry standards to reduce the risk of spreading pests and pathogens through plant production systems.	100,000.00	Nationwide	COMPLETE
Permanent Forests NZ Nursery Practice Guidelines Project	Funding to interview experienced ex-forest nurserymen to capture how best to grow large volumes of native tree seedlings (open ground, bare-root) that are robust and low cost.	19,013.00	Nationwide	COMPLETE
Perrin Ag Integrating farm and forestry land use	Project to understand the barriers to farmers integrating trees into their farming systems. Perrin Ag will work with pastoral farmers in Northland, Bay of Plenty, Rangitikei and Canterbury to explore options for integrating forestry within farming systems to enhance water quality, reduce greenhouse gas emissions, and sustain business viability.	288,088	Bay of Plenty	COMPLETE

Project name	Overview	Value	Region	End Date
Planting of Mānuka seedlings	Funding to support the supply and planting of up to 1.8 million manuka seedlings to develop commercial manuka plantations on Maori owned and administered land.	1,710,777.00	Nationwide	COMPLETE
Pomahaka Corridor Planting Project	Joint project with PDU's Fencing of Waterway fund. Pomahaka The project will plant 50km of tributaries with 108,000 native riparian plants and erect up to 100km of fencing. The project is led by Pomahaka Water Care Group, which comprises 80 local farmers looking to enhance water quality. Iwi, Fish and Game, DOC and Otago Regional Council are project partners.	1,400,000.00	Otago	30/04/2024
Project Crimson Trees That Count	The funding will enable Project Crimson to scale up its Trees That Count marketplace which attracts a mix of individual, corporate, and philanthropic funding which is used to support community planting projects and hence reduces reliance on public funding for community based native tree planting.	6,650,000.00	Nationwide	30/09/2021
Punakaiki Land Restoration Project	Support to the Punakaiki land restoration project to produce and plant 170,000 native seedlings across 35.8 hectares, over 3 years. Project includes restoration of wetlands, and enhancement of breeding sites for Taiko (Westland Petrel) and whitebait.	1,622,362.00	West Coast	COMPLETE
QEII and UoO Ngä Käkano Whakahau Native Seed Planting Trial	Support for research into the feasibility of different seed treatments for native species sown using direct drill equipment. The research group includes Queen Elizabeth II National Trust, the University of Otago, Taege Engineering and the Department of Conservation.	818,497.00	Otago	30/06/2022
Ripia Restoration with Training – Te Matai No.1 and No.2 Trust	Support to replant 73ha of existing pine forest on Maori-owned blocks in the Ripia catchment, Hawke's Bay, that was destroyed by fire in 2017. A mixture of pine and manuka will be planted, with the replanting being used as a training and work experience opportunity for rangitahi.	540,560.00	Hawkes Bay	30/07/2022
Rotary 100 Forests of Peace and Remembrance Project	Support to Rotary New Zealand to scope and develop an action plan, and prepare a 1BT funding application, for the Forests of Peace and Remembrance Project to encourage and support communities to plant native trees to commemorate the 100 year anniversary of the ending of World War 1.	85,628.00	Nationwide	COMPLETE
Rotary 100 Forests of Peace and Remembrance Project (2)	Support to Rotary New Zealand to deliver the Forests of Peace and Remembrance Project to encourage and support communities to plant native trees to commemorate the 100 year anniversary of the ending of World War 1. 1BT funding will support the planting of 200,000 native seedlings across 15 sites in the 2020 and 2021 planting seasons.	1,365,235.00	Nationwide	COMPLETE
SBNI Million Metres Streams project	To bridge a funding gap created by sponsors withdrawing their support post-COVID. 1BT funding will cover salaries for 3 staff for 8 months, and associated operating costs, to ensure the 2020 planting programme is completed, and planning for the 2021 planting programme is underway. 1BT funding will support SBNI to retain 2.4 FTE roles.	80,000.00	Auckland	COMPLETE
Scion - Acceleration of Primary Production in Native Trees	This research project aims to boost the deployment of high-quality native trees to meet increasing future demand for seedlings. This project provides critical science research for native seedling propagation.	676,250	Bay of Plenty	COMPLETE

Project name	Overview	Value	Region	End Date
Scion - Remeasurement of selected enrichment/assisted reversion trials	Funding to remeasure indigenous and mixed forest trials established in the 1980s, to develop planting and site management guidelines to support the transition of sites from exotic to native species.	97,000.00	Nationwide	COMPLETE
Scion - Towards native trees establishment success	Funding for research to investigate a range of herbicide treatments to address different weed types and assemblages, with the aim of developing guidance to improve post-planting native seedling maintenance and establishment.	404,000.00	Nationwide	30/09/2022
SNIWC Wood is Good education programme	Wood is Good is a primary-school targeted forestry-related education programme that teaches rural students about logging truck safety and introduces them to various aspects of the forestry sector through videos, books, and in-class activities. 1BT funding will support Southern North Island Wood Council (SNIWC) to employ a national coordinator/educator and produce teaching materials/collateral.	85,000.00	Nationwide	13/11/2021
Tane Mahuta LWYE Planting training	Support for Tane Mahuta's Learn While You Earn (LWYE) forestry training programme which will provide 20 trainees NZQA Level 2 and Level 3 forestry credits, work experience within a commercial planting environment, nutrition advice, and mentor support, over two 8-week intakes.	227,375.00	Bay of Plenty	COMPLETE
Tāne's Tree Trust - Remeasurement of Northland Tōtara forests	Support for Tane's Tree Trust re-measurement of permanent sample plots located in tōtara forests across Northland to generate information on tōtara growth rates, responses to silviculture management, and improvements in biodiversity values.	44,304.00	Northland	30/06/2022
Tane's Tree Trust Cost-Effective Planting	Funding to establish two planting and regeneration demonstration areas over the three-year life of the project. Funding will also be used to create factsheets and case studies on best-practice, large-scale, low-cost establishment of native forest across a range of sites, and planting, maintenance and monitoring plan templates. All materials will be made freely to agencies, NGOs, iwi, community groups, councils and the general public through TTT's website and TUR.	165,863.00	Nationwide	31/12/2021
Tararua District Council - Right Tree Right Place	A decision support tool for landowners to incorporate alternative species into their farm systems. The tool will draw on national data and adapt this for the local context. The work will enable Tararua District Council to strategically plan for the future of forestry in their district.	145,000.00	Manawatu/ Whanganui	COMPLETE
Te Korowai o Papatuanuku | Awhitu Peninsula	This project aims to deliver an end-to-end planting initiative that will incentivise landowners to plant native trees within biodiversity focus areas to create ecological linkages across the Peninsula. Awhitu Landcare will deliver the project in partnership with Ngāti Te Ata and with support from Auckland Council. The project will deliver 250,000 native plants across 63ha, and create volunteer, training and employment opportunities.	1,686,000.00	Auckland	24/12/2024
Te Uri o Hau Kaipara Restoration	Funding to establish a forest restoration hub focusing on improving landowner access to, and uptake of, native tree planting opportunities in the area from North Hokianga to Kaitaia. The hub will focus initially on preparing applications to the 1BT Direct Landowner Grants Fund.	688,800.00	Northland	31/10/2021
Te Waihora / Lake Ellesmere Community Land Restoration Project	Support to further efforts to restore Te Waihora/Lake Ellesmere. 1BT funding will support the planting of 68,000 native seedlings as part of restoring a critically threatened forest type (kahikatea swamp forest) and a degraded wetland ecosystem. Te Waihora is a national taonga and has high cultural importance.	1,059,332	Canterbury	31/07/2021

Project name	Overview	Value	Region	End Date
TET - Waimea Inlet Restoration	Support to further Tasman Environmental Trust's efforts to restore Waimea Inlet. 1BT funding will support the planting of 61,000 native seedlings and the creation of a programme coordinator role. Waimea Inlet has high cultural, ecological and recreational significance.	1,092,316.00	Tasman	31/03/2023
TMNZL Learn While You Earn	The Learn While You Earn (forestry training) programme is based in Whakatanē. Over 8 weeks, 20 trainees, will recieve introductory NZQA qualifications to allow them to work in a commercial forestry setting. Trainees will be paid while training, and receive both theoretical and real world experience.	205,366.00	Bay of Plenty	COMPLETE
Totara Industry Pilot	The Tōtara Industry Pilot will test the economic and environmental viability of an industry based on naturally regenerating tōtara on private and Māori land in Northland. The 2-year project, driven by the Tōtara Industry Pilot Steering Group is supported by Scion and Northland Inc.	450,000.00	Northland	COMPLETE
TreeMachine Stage 2	Two Forestry Training Courses (17 weeks each). Local iwi have identified a high level of unemployed, low skilled rangatahi. Skills and development training would provide rangitahi with opportunities to work within the Iwi land development programme and the wider Taranaki region.	183,140.00	Taranaki	30/09/2021
TreeMachine, Ngāti Maru, NIT training program	Funding for a 17-week NZQA training course for ten rangatahi (trainees). Tree Machine delivered the training, in partnership with NIT and Ngati Maru. One month after the project was completed, eight of the rangatahi were in workplace trials or full time employment.	72,604.00	Taranaki	COMPLETE
Ūawanui Restoration Project	Joint project with PGF Fencing of Waterways fund. 1BT funding will cover the costs of 10km of fencing; the site preparation, seedling purchase, planting, and maintenance of 51,000 native seedlings across 32ha; and purchase of 180 predator traps. 1BT funding will generate fulltime and seasonal work for 8 FTE.	750,000.00	Gisborne	20/01/2022
Waimarama Maori Land blocks	Joint project with PGF Fencing of Waterways fund. 1BT funding will cover the materials and construction of 6km of fencing; the site preparation, seedling purchase, planting, and maintenance of 104,000 manuka and mixed native seedlings; stockwater installation; hare control, and project management. 1BT funding will generate fulltime and seasonal work for 10 FTE.	884,000.00	Hawkes Bay	30/10/2022
Whakaoratia Te Mana o Te Waiapu	To develop and implement a works programme to address significant erosion and sediment issues in the Waiapu River. The project includes the construction of sediment dams, improved river corridor design, training, nursery development and planting activity. The project is a joint venture between Te Riu o Waiapu and Te Wiwi Nati Trust.	5,030,000.00	Gisborne	30/01/2028
Whenua Oho Ltd - Te Kapunga (T.K.) Dewes - Phase 2	The project will support Māori landowners to realise the aspirations for their land through forestry initiatives. It will assist them to build confidence and capability and to consider tree planting (including both exotic and native) on their whenua. Whenua Oho will work closely with Māori landowners to make better decisions about their land, with a focus on building an understanding of the opportunities that forestry (indigenous, commercial exotic) offer, and to build investor confidence to partner with Māori in forestry ventures.	1,690,000.00	Nationwide	29/09/2023
WRC Riparian Restoration Project	Funding to extend current Waikato Regional Council priority planting programmes that integrate trees into farming landscapes using predominantly native species for riparian, gully and wetland restoration projects. Waikato Regional Council provides advice, planning and funding to promote appropriate land use and deliver tree planting at site, property and sub-catchment scales.The project targets planting sites of up to 20 ha in area. Total planting is predicted to be 200 ha and 712,000 plants across the programme. Planting to be funded under this project is focused on high priority riparian and erosion prone gully areas	800,000	Waikato	31/08/2022

Table 9: Partnership Projects regional breakdown

Region	Approved partnerships	Funding allocated ($)
Auckland	4	3,131,220
Bay of Plenty	16	15,040,409
Canterbury	5	2,904,006
Chatham Islands	2	2,659,005
Gisborne	8	9,618,404
Hawke's Bay	9	3,926,886
Manawatu/Whanganui	6	4,193,327
Nationwide	36	23,244,033
Nelson	1	346,000
Northland	15	15,720,388
Otago	3	2,679,917
Southland	2	2,025,000
Taranaki	3	315,744
Tasman	2	2,091,956
Waikato	12	7,413,460
Wellington	2	1,498,942
West Coast	1	1,622,362
Grand Total	**127**	**98,431,059**

Table 10: Science partnerships funded

Project name	Description	Region	Value of agreement
AgResearch - silvopastoral module development	Development of a computer module that will capture the production and financial benefits/costs of spaced trees (shelter belts, erosion and streamside plantings) in pastoral farming systems, for inclusion within landowner decision support tools.	Nationwide	400,000.00
AUT - Improving tree growth and resilience for accelerated reforestation	Covid-19 recovery science project. To understand key seed/seedling treatments, plant enhancements, and site-specific environmental factors that could lead to improved tree establishment in an extended planting season.	Nationwide	159,000.00
AUT Living Laboratories Project	Funding to support a research project to investigate the use of large-scale forest restoration in agricultural landscapes, where restoration seeks to improve native biodiversity, carbon sequestration and sustainability.	Nationwide	581,842.00
Canterbury University Restoration Ambassador	A restoration ambassador (RA) will provide expert ecological restoration advice, particularly into areas with limited access to information and high demand e.g. Tairawhiti and Northland. The RA will work closely with landowners to translate their aspirations into high quality planting plans.	Canterbury	98,875.00
Covid - Tāne's Tree Trust - Managing delays in planting natives due to Covid-19	Covid-19 recovery science project. To develop guidance and recommendations to extend the native planting season.	Nationwide	59,600.00
ECT / Using drones to disperse seed pods for native forest regeneration	To develop a system using a heavy-lift drone to disperse seed balls, each containing a mixture of native seeds and compost. If successful, this technology has applications for planting large areas cost effectively, particularly steep terrain and/or difficult to access areas.	Bay of Plenty	367,347.00
FICA Building a Sustainable Silviculture Sector	Additional capacity for the Forest Industry Contractors Association (FICA) to raise their profile, assess national and regional recruitment and training needs and gaps, and to make a start at addressing identified needs/gaps.	Nationwide	88,714.00
FICA Generation Programme Stage 1	Funding for the Forest Industry Contractors Association (FICA) to scope the need and feasability of introducing the Generation (forestry training) Programme into the Wairarapa and South Waikato districts.	Nationwide	20,000.00
HBRIC Right Tree Right Place	A broad-scale spatial application of appropriate tree species and forest systems, for the right purpose e.g. erosion and sediment reduction, ecosystem services, carbon sequestration, and commercial timber production by the Hawke's Bay Regional Investment Company (HBRIC). The project produced a summary report, supporting technical reports, and a series of foundation reports covering a variety of topics.	Hawkes Bay	235,000.00
Kauri Sanctuary - Takou Bay Project	This project will recreate and restore an entire kauri ecosystem within a biosecurity-controlled sanctuary on the peninsular that was the ancestral home of Puhi and final resting place of the ancient waka Mataatua - Takou Bay.	Northland	5,771,083
Landcare Research - Guidance to extend native seedling planting season	Covid-19 recovery science project. Develop guidance on methods to extend native plant establishment season.	Nationwide	262,000.00

Project name	Description	Region	Value of agreement
AgResearch - silvopastoral module development	Covid-19 recovery science project. To assess the feasibility of using nutrient-rich wastes in plant nurseries and at planting sites to enhance seedling growth and establishment, as a means of extending the planting season.	Nationwide	126,500.00
Landcare Research Social licence and barriers to planting	A research project to determine public perceptions to increased levels of planted forests and likely barriers to large-scale planting, and the development of tools to support landowners to plant trees or to detect social licence issues that may arise through planned planting schemes.	Nationwide	377,850.00
New Zealand Plant Producers Incorporated - additional capacity	Additional capacity for New Zealand Plant Producers Incorporated (NZPPI) to prepare an implementation plan for delivery of NZPPI strategies and plans, and to develop a 1BT funding application to assist with delivery of the implementation plan.	Nationwide	11,500.00
Ngati Porou Whanui ltd	Ngati Porou Forests Ltd are wanting to support Ngati Porou Māori landowners to explore and adopt more sustainable land use and afforestation (native and commercial) options. Funding will support the development of a technical prospectus to encourage third-party forestry investment, and provide landowners with land use advice and modelling tools .	Gisborne	1,750,000.00
NZDFI Drylands - Durable Hardwood Industry	A research project to improve the supply of elite durable eucalypt species (E. bosistoana and E. globodeia). The long-term aim of the Dryland Forests Initiative is to create a sustainable multi-regional durable hardwood products value chain in New Zealand.	Nationwide	450,100.00
NZFFA Cypress canker predictive model	Cypress canker is a major barier to the uptake of Cypress as an alternative production timber species. This project will determine the effect of soil nutrition on canker incidence and severity, and from this will develop a Cypress canker predictive model. This model will provide the basis of advice to landowners on site selection and management to reduce canker incidence.	Nationwide	99,700.00
NZFFA Cypress Clone Performance Trial	Cypress-based programme to (1) conduct field trials on the establishment and early growth of selected sterile, canker-resistant Cypress clones across a variety of sites, to best match clonal lines to specific site conditions, (2) assess the timber quality of established lines of mature canker-resistant Cypress clones, and (3) propogate new canker-resistant Cypress clones.	Nationwide	210,900.00
NZFFA Website Refresh	To compile, check and consolidate existing information on 21 production tree species, and upgrade the NZFFA website so this collated information is more easily accessed and searched by landowners. Will support landowners to make right tree, right place decisions.	Nationwide	55,505.00
NZPPI Plant Production Biosecurity Accreditation Scheme (PPBAS)	Support for New Zealand Plant Producers Incorporated to establish a biosecurity scheme that supports a professional approach to managing biosecurity risks across the plant production sector - the Plant Producers Biosecurity Accreditation Scheme (PPBAS). Funding was used to develop industry standards to reduce the risk of spreading pests and pathogens through plant production systems.	Nationwide	100,000.00
Permanent Forests NZ Nursery Practice Guidelines Project	Funding to interview experienced ex-forest nurserymen to capture how best to grow large volumes of native tree seedlings (open ground, bare-root) that are robust and low cost.	Nationwide	19,013,00

Project name	Description	Region	Value of agreement
Poplar and Willow Research Trust	Three year extension and research programme, comprising two themes - (1) workshops, fact sheets and e-field guide for end users, and (2) field trials to investigate new ways of increasing poplar establishment rates in pastoral landscapes.	Nationwide	405,000.00
QEII and UoO Ngä Käkano Whakahau Native Seed Planting Trial	Support for research into the feasibility of different seed treatments for native species sown using direct drill equipment. The research group includes Queen Elizabeth II National Trust, the University of Otago, Taege Engineering and the Department of Conservation.	Otago	818,497.00
Scion - Acceleration of Primary Production in Native Trees	This research project aims to boost the deployment of high-quality native trees to meet increasing future demand for seedlings. This project provides critical science research for native seedling propagation.	Bay of Plenty	676,250.00
Scion - Extending the planting season	Covid-19 recovery science project. To explore nursery techniques, planting site selection optimisation, and site performance management and enhancement, to extend the planting season. The focus is on exotic tree species.	Nationwide	508,000.00
Scion - Remeasurement of selected enrichment/assisted reversion trials	Funding to remeasure indigenous and mixed forest trials established in the 1980s, to develop planting and site management guidelines to support the transition of sites from exotic to native species.	Nationwide	97,000.00
Scion - Towards native trees establishment success	Funding for research to investigate a range of herbicide treatments to address different weed types and assemblages, with the aim of developing guidance to improve post-planting native seedling maintenance and establishment.	Nationwide	404,000.00
SNIWC Wood is Good education programme	Wood is Good is a primary-school targeted forestry-related education programme that teaches rural students about logging truck safety and introduces them to various aspects of the forestry sector through videos, books, and in-class activities. 1BT funding will support Southern North Island Wood Council (SNIWC) to employ a national coordinator/educator and produce teaching materials/collateral.	Nationwide	85,000.00
Tāne's Tree Trust - Remeasurement of Northland Tōtara forests	Support for Tane's Tree Trust re-measurement of permanent sample plots located in tōtara forests across Northland to generate information on tōtara growth rates, responses to silviculture management, and improvements in biodiversity values.	Northland	44,304.00
Tane's Tree Trust Cost-Effective Planting	Funding to establish two planting and regeneration demonstration areas over the three-year life of the project. Funding will also be used to create factsheets and case studies on best-practice, large-scale, low-cost establishment of native forest across a range of sites, and planting, maintenance and monitoring plan templates. All materials will be made freely to agencies, NGOs, iwi, community groups, councils and the general public through TTT's website and TUR.	Nationwide	165,863.00
Tane's Tree Trust Practical Guide to Managing Totara Forests	Support for Tane's Tree Trust to create a comprehensive web-based manual on managing tōtara forests for production purposes, complemented with short instructional videos.	Nationwide	62,000,00

Project name	Description	Region	Value of agreement
Tararua District Council - Right Tree Right Place	A decision support tool for landowners to incorporate alternative species into their farm systems. The tool will draw on national data and adapt this for the local context. The work will enable Tararua District Council to strategically plan for the future of forestry in their district.	Manawatu/Whanganui	145,000.00
University of Canterbury - Restoration Ambassador Contract extension	Funding for two Restoration Ambassadors to provide expert ecological restoration advice into regions of the country with limited access to information and with high demand. The focus is on developing successful restoration proposals for the 1BT programme and other funding schemes.	Nationwide	399,500.00
Whenua Oho Ltd - Te Kapunga (T.K.) Dewes - Phase 2	The project will support Māori landowners to realise the aspirations for their land through forestry initiatives. It will assist them to build confidence and capability and to consider tree planting (including both exotic and native) on their whenua. Whenua Oho will work closely with Māori landowners to make better decisions about their land, with a focus on building an understanding of the opportunities that forestry (indigenous, commercial exotic) offer, and to build investor confidence to partner with Māori in forestry ventures.	Nationwide	1,690,000.00
ZestIT Administration assistance application	Development of a web and cloud based application to streamline the administration and management of sponsors, donations, volunteers, and project sites (and works on those sites) for NGOs.	Auckland	185,000.00
Total			16,929,943.00

Table 11: Outcomes of partnership projects

One Billion Trees Outcome	Number of projects Contributing to Outcomes
Sustainable Regional Development	10
Increased Productivity	10
Improved Support of Māori Aspirations	48
Enhanced Environmental Sustainability	58
Increased Employment	54

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