

Digital Inclusion Grant 2021/22

2021/22 Final report

Application No. DI000042021_22 From Mrs Shanon O'Connor

Form Submitted 7 Jun 2023, 2:26PM NZST

Instructions

InternetNZ is proud to have supported your initiative. The questions below help us understand the triumphs and challenges you have faced.

We want to celebrate your successes and understand the obstacles you have encountered. This will help us all to learn what we could do better in the future.

This report form will be placed on our website for transparency.

Please complete and submit this form no later than the date stipulated in your funding agreement. Email us at funding@internetnz.net.nz if you have any issues or need to arrange an alternative due date. You may not be eligible to apply for further grants from InternetNZ if this is not submitted. The completion of this form should be overseen by someone with an intimate knowledge of the funded initiative.

Final project report

*** indicates a required field**

Initiative title *

STEMM Equity and Digital Inclusion in Te Tairāwhiti

Provide a short summary of the work that was completed as part of this initiative.

*

The goals of Tōnui Collab's STEMM Equity and Digital Inclusion project, supported by Internet NZ, was to increase the exposure and engagement of rangatahi Māori in STEMM learning experiences for the purpose of providing rangatahi Māori with exposure to the diversity of STEMM, and equitable access to pathways into STEMM careers. When we talk about STEMM, we are talking about the diversity and intersection of science, technology, engineering, maths and mātauranga Māori. This goal is underpinned by a commitment to creating a more inclusive and diverse STEMM workforce.

In 2022, Tōnui Collab has designed and facilitated 72 full day STEMM wānanga and 66 half day STEMM wānanga in schools and kura for tamariki and rangatahi ranging from Year 1 - Year 10 from across te Tairāwhiti. Tools or technologies explored during these wānanga have included robotics, game development, electronic engineering, and virtual reality.

In the first quarter of 2023, Tōnui Collab designed and facilitated 13 full day STEMM wānanga and 42 half-day STEMM wānanga in schools and kura for tamariki and rangatahi ranging from Year 1 - Year 10 from across te Tairāwhiti. Tools or technologies explored during these wānanga have included robotics, game development, electronic engineering, and virtual reality.

Over the 2022-23 period, Tōnui Collab designed and facilitated 24 community-based full day STEMM wānanga for tamariki aged 7 - 13 years of age. Tools or technologies explored during these wānanga have included robotics, game development, music engineering, virtual reality, and digital art.

In 2022-23, Tōnui Collab also co-designed and facilitated, three multi-day STEMM wānanga in marae across te Tairāwhiti (Rangiwhāo Marae, Pākōwhai Marae and Whangara Marae). Whānau play a significant role in supporting and influencing rangatahi to pursue STEMM

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education; on day three of our marae wānanga, whānau have been invited to come along and celebrate their tamaiti/tamariki and the learning they have had over the wānanga and we also take the opportunity to share with rangatahi and whānau potential study and career pathways, celebrating our Māori and Pasifika brothers and sisters as role models that are succeeding in their fields.

In 2022, to increase Tōnui Collab's evaluation capability and capacity so that we can accurately measure the impact of these learning engagements with our tamariki, rangatahi and whānau, we purchased a set of tablets to facilitate 1:1 and 1:2 digital data gathering; we designed and experimented with some evaluation methods such as the utilisation of Kahoot and Flip - digital tools that enabled us to gather quantitative and qualitative data.

We have started discussions with two Māori evaluation practitioners around our activities, our community and how to identify the correct measures and the best methods for collecting the data and interpreting it but have not yet completed this part of the project.

In 2023 we continued to refine our evaluation capability and capacity, experimented with different methods based on the audience. Various approaches included the continued use of Kahoot and Google Forms, interviews, video feedback, and group discussions.

Is this initiative complete? *

Yes No

If your initiative is still in progress, select "no."

When do you anticipate that your initiative will be completed?

Must be a date.

Leave blank if this is an ongoing initiative or if the finish date is unknown.

Are there any areas where you need further support to complete this initiative?

Our evaluation capability and capacity have improved on a micro scale - i.e. the evaluation of specific wānanga. We still need to do better at evaluating and creating an ongoing evaluation tool for measuring our impact on a macro scale.

What are the outcomes of this initiative? *

The outcomes of this initiative were more rangatahi in Te Tairāwhiti being exposed to the diversity of STEMM - Science, Technology, Engineering and Maths and the intersection with Mātauranga Māori. Additionally, a desired outcome was for Tōnui Collab to improve evaluation capability so that we might be able to redesign or refine our community engagement to best meet the needs of our rangatahi and best work towards a greater goal for more Māori pursuing learning opportunities in STEM fields.

Consider the impact of your initiative or major achievements.

Who did you work with to make this initiative happen? *

This initiative was a collaborative endeavour between the members of Tōnui Collab, the rangatahi in the community, whānau members, kaiako from schools and kura that took part in different STEMM wānanga.

For example, staff, volunteers, other organisations or support that has helped make this happen.

What did you and your team learn as a result of doing this initiative? *

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We learned that evaluating the success of our different initiatives needed examination. We had numerous discussions on what our intentions were from engagement with our rangatahi to reported enjoyment from rangatahi, authentic alignment of STEM exploration learning experiences with mātauranga Māori, relationship building with whānau, exposure for rangatahi to STEM industry. And then an examination of how we were capturing this impact and what collaborations we needed to enter into, to achieve these goals or intentions.

Describe any insights that may be useful to others working towards digital equity.

How will you share the outcomes and lessons from this initiative? *

The outcomes and lessons learned from this initiative are ongoing and continue to shape the ways in which we develop STEMM learning opportunities for rangatahi o Te Tairāwhiti. We are also considering writing a report and/or creating some more videos to share our journey. What channels/mediums will be used so that this initiative can inform future projects for yourself and others.

Which population group/s were affected by this project or program? *

Age groups > Children and youth (age 0-17)

Education status > Primary school students

Education status > Intermediate school students

Education status > Kura Kaupapa Māori students

Ethnic and racial groups > Indigenous peoples > Māori

Please choose only the group/s that were at the very core of this project/program.

Share your evaluation plan and any supporting documents you feel appropriate, that will help us to better understand your initiative.

For example survey results or feedback, annual report, summary to the board or any visual or audio representations of your work.

Remember this report will be placed on our website for transparency.

Upload files:

Filename: Impact Report (Internet NZ).pdf

File size: 4.4 MB

Upload files:

No files have been uploaded

Upload files:

No files have been uploaded

Provide additional details:

I have attached a report of some of the mahi we have done over the past year as part of our efforts in our STEMM Equity and Digital Inclusion project. We have also captured a video of our wānanga at Pakowhai in 2022, it was too large to attach but you can access here - <https://drive.google.com/file/d/1mwSbT8SgeecVxGNvFpGY7oEeLk8Cg4wp/view?usp=sharing>

Let us know if anything you have shared is confidential or can be used to promote this work.

Remember this report will be placed on our website for transparency unless otherwise requested.

What (if anything) have you changed in your approach and practices? Explain why this was necessary?

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We made a number of changes and continue to make changes in relation to how we survey rangatahi, their whānau, their kaiako, their hapu, about the impact of learning opportunities with Tōnui Collab. We went from real time gamified surveys using Kahoot to group discussions, individual interviews, google forms in real time and post event or wānanga. We made these changes because we realised that there was more efficient ways to collect some hard data, and also some more meaningful and engaging ways to collect qualitative evidence of impact.

This information may help inform others undertaking similar work.

Financial report

*** indicates a required field**

Project income and expenditure

Please provide details of any project income (funds received) and project expenditure (funds spent) to date.

Use the 'Notes' column to provide any additional information you think we should be aware of.

| Income Description | Income type | Confirmed funding? | Income amount (\$) | Notes |
|----------------------|----------------------|--------------------|--------------------|---|
| Funding Grant | Philanthropic grants | Confirmed* | \$100,000.00 | HB Williams Family Trust |
| Funding Grant | Philanthropic grants | Confirmed | \$40,000.00 | Internet NZ grant |
| Funding Grant | Philanthropic grants | Confirmed | \$28,500.00 | JR McKenzie grant |
| Funding Grant | Government grants | Confirmed | \$60,000.00 | Lotteries Commission |
| Contract Work | Earned income | Confirmed | \$69,785.00 | Facilitation mahi for Ministry of Education |
| Community Programmes | Earned income | Confirmed | \$15,438.00 | Various Community Programme |

| Expenditure description | Expenditure type | Expenditure amount (\$) | Notes |
|-------------------------|-----------------------------------|-------------------------|-------|
| Salaries | Salaries and wages | \$209,469.00 | |
| Rent | Administrative and infrastructure | \$17,362.00 | |

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|------------------------|-----------------------------------|-------------|--|
| Telephone and Internet | Administrative and infrastructure | \$2,152.00 | |
| Travel | Project and production | \$5,208.00 | |
| Office Expenses | Administrative and infrastructure | \$7,813.00 | |
| Advertising | Administrative and infrastructure | \$3,740.00 | |
| Facilitation Materials | Administrative and infrastructure | \$2,055.00 | |
| Equipment | Infrastructure and/or hardware | \$42,485.00 | |

Income and Expenditure Totals

Total income amount

\$313,723.00

This number/amount is calculated.

Total expenditure amount

\$290,284.00

This number/amount is calculated.

Income - expenditure

\$23,439.00

This number/amount is calculated.

Have you experienced any issues with your intended project budget to date? If so, please explain reasons for any major variances or for providing incomplete information:

Our income has increased as has our expenditure. We have some fund committed that have not been realised yet so this will also change the final budget.

Feedback

You are almost at the end of your final report. Before submitting, please take a few moments to provide some feedback.

Please indicate how you found the acquittal process:

Very easy Easy Neutral Difficult Very Difficult

How many minutes in total did it take you to complete this form?

600

Estimate in minutes (i.e. 1 hour = 60 minutes)

Provide us with any feedback you have from learning about evaluation.

For example, feedback on the evaluation toolkit, or the impact evaluation planning had on this initiative or your organisation.

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InternetNZ is a membership organisation. Would you be interested in hearing more about becoming a member?

Yes please No thanks I am already a member