

**Final report template for Community Projects and Internet Research - to be sent to nicole@internetnz.net.nz on the date specified in your contract**

Grant reference number:	#CCP201502
Name of recipient and contact details	<i>Carl Pavletich 021 388 245</i>
Name of organisation (if applicable)	Fabriko
Title of project/research	Suite of laptops for delivering technology workshops to low decile schools and communities.
Amount of funding received	\$3500
Budget details	<i>2 x Acer ES1-511-C105 laptops \$483 8 x Toshiba Satellite C50-B laptops \$4690 Total = \$5173 Have you achieved what you expected to achieved and with this spend? Yes, we got 10 laptops which is what we needed, but it cost us more than we had hoped.</i>
Project/research approach and methods	<i>Project laptops was initiated because we had been running a lot of community workshops on Maker skills but with only one computer all we could really do was demo the tech side of it. For our community to get actively involved in learning digital technologies and tinkering with Arduino, Tinkercad etc we needed them to have their own laptops to work on. Most children who we worked with didn't have a laptop, many didn't have a computer at home.</i>
Summary of project/research outcomes	<i>The laptops have been very well used by hundreds of children and adults since purchase. Building relationships with the lower decile schools has taken some time, we initially started with Te Waka Unua, Haeta school ambassadors &amp; Opawa, but we are teaming up with Christchurch libraries and Ara polytechnic to amplify our programmes as they already have the established networks. The laptops travel with us to schools when they can't come in to the Fab Lab.</i>
Achievements	<i>We have developed a number of replicatable 1 and 2 hour workshops for children aged to get them involved in hands on STEM and Maker activities that have been well tested across decile (1-10) and age range (7-14). This would have taken much longer to develop without the laptops. We have also run successful technology teacher PD courses using the laptops, some of which are from decile 1 and 2 schools. The teachers can take their learning straight back to the classroom.</i>

Difficulties	<i>With 10 laptops being used by hundreds of children over time there are always issues with malware and the “curious” changing settings etc. With larger classes we have overcome the small number of machines by getting the children to work in small groups.</i>
Findings/learnings	<i>The “digital divide” became very apparent to us when we started running our programmes – computers and internet access are a fundamental need for learning digital technologies whether for programming, design, writing, community engagement or fabrication and it now needs to start early in a child's life. Having just 10 laptops hugely increased the impact we were able to have.</i>
Do you anticipate their being anything media-worthy in your project/research*	<i>Any outstanding discoveries, good-news stories or unique work (in your opinion?) *Please note we may use this information in a media release.</i>