

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

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| Grant reference number: | #PR201500032 |
| Name of recipient | <i>Stu Fleming</i> |
| Name of organisation (if applicable) | WIC NZ Ltd / Wicked Networks on behalf of Gasworks NZ |
| Title of project/research | Reinventing Engineering Spaces |
| Amount of funding received | \$24000 ex GST |
| Budget details | <p>Gasworks Internet – 2 access points and Internet router at 20 Braemar St, Dunedin.</p> <p>Valley Project Internet – access point and Internet router at 11 Allen St, Dunedin. Mini-Gasworks hub at Port Chalmers School (June 2016) \$5898.27</p> <p>Minecraft EDU licenses for Minecraft Club \$382.61</p> <p>Go Pro Hero Silver, stick mount, carry case, SD card and assorted mounts for Gasworks video project \$874.13 to establish a minimal facility.</p> <p><i>Sphero and iPad controllers for Robotics Club. \$5388 for 12 Sphero units and iPad controllers and 1 iPad Pro for class management.</i></p> <p><i>Silent Disco (Vogel St Party October 2016)</i></p> <p><i>LED dance floor hire \$652.17</i></p> <p><i>Marquee and table Hire \$1106.78</i></p> <p><i>Total spent \$14301.96</i></p> <p><i>Allocated but unspent (video project) \$8826.27</i></p> |

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| | <i>Allocated but unspent (outreach) \$871.77</i> |
| <i>Project/research approach and methods</i> | <i>How did you undertake this project, what were your strategies and timelines?</i> |
| <i>Summary of project/research outcomes</i> | <p><i>Gasworks NZ has now completed its transition to Hive Dunedin. This is a long-term sustainable organization that not only undertakes digital education activities, it assists others to do so. The Valley Project is also a member of the Hive, as is Hatch, a related initiative.</i></p> <p><i>Gasworks NZ over-achieved on the digital education outcomes in terms of numbers taught, variety of initiatives and the ability to set up pop-up venues to continue the outreach.</i></p> <p><i>Valley Project has expanded its community space to include a larger variety of groups and has established a sustainable cooperative business model to meet costs.</i></p> |
| <i>Achievements</i> | <p><i>Gasworks NZ delivered digital education initiatives comprising a total of 2526 teaching hours delivered at the Gasworks site this year. Tallies of participants through the doors up until August 1 2016 included 642 children, each receiving a total of 4 hours free of charge (or minimal Koha to cover basic overheads like heat or stickers)</i></p> <p><i>Gasworks NZ showcased a digital entertainment initiative at the Vogel St Party, with over 6000 visitors to the Silent Disco interactive exhibit. This provided a computerised LED dance floor, wireless music delivery to headphones from 3 DJ feeds and a revolving line-up of 12 local Djs. This was the most high-profile stand at the event. We repurposed the outreach budget in the original proposal to enable this activity.</i></p> |
| <i>Difficulties</i> | <i>As indicated in the initial submission, the</i> |

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| | <p><i>biggest risk for us was people.</i></p> <p><i>The digital video facility did not find any personnel to support after the key individual left Dunedin immediately prior to the start of the project. This has been reactivated and the amount of \$8826.27 inc GST will be allocated to this sub-project in December 2016.</i></p> <p><i>We have recently secured the input of Jason Lindsey a film maker and digital entrepreneur who will collaborate with us on developing a Youtube and digital media production unit for the Hive facility with this funding.</i></p> <p><i>The transition for Gasworks NZ to Hive Dunedin occupied a great deal of staff time in the latter half of the year. Focus in year one has been on building quality products which can be bootstrapped for roll out at other venues for maximum penetration in this market.</i></p> <p><i>Similarly for Valley Project, the loss of a key leader mid-year was a setback that forced a realignment of activity and subsequent emergence of a more sustainable model.</i></p> <p><i>Provided that we continue to learn from such difficulties and form organizational models that reflect potential for disruption, these are not fatal to projects; they are just part of life.</i></p> |
| <p>Findings/learnings</p> | <p><i>Bootstrapping digital education is possible. Independent (from conventional primary/secondary/tertiary structures) initiatives are valuable and provide breadth of choice.</i></p> <p><i>Education initiatives are time-consuming in terms of preparation and supervision. The ethical demands that Gasworks NZ imposed on itself – the ethos of doing things right as well as doing the right thing – proved substantial, but</i></p> |

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| | <p><i>worthwhile.</i></p> <p><i>A key sponsor is essential to fund both the bootstrapping phase and the ongoing sustained phase. Gasworks NZ, Valley Project and Wicked Networks are extremely grateful to InternetNZ for the project funding that has enabled these outcomes.</i></p> <p><i>A short-term impetus to get to a sustained outcome is a final important lesson. It is just too hard to go to the coalface everyday with no funding and no vision. The longer-term view that we are demonstrating by example and then fitting that experience into a larger organizational structure is a strong model to guide activity.</i></p> |
| <p>Do you anticipate their being anything media-worthy in your project/research*</p> | <p><i>Media coverage in addition to that provided in previous report.</i></p> <p><i>I believe that the Hive Dunedin platform is an excellent case study for digital education initiatives and is compatible with InternetNZ's community outcomes. Both Hive Dunedin and Valley Project would be eager to cooperate in media releases.</i></p> <p><i>The Hive is set to grow considerably in the coming year with collaboration with the department of education in University of Otago as well as the Polytechnic design department developing a collaborative makerspace for the entire city underway. The continued support of Internet NZ will be highlighted as a substantial contributor to the success of this project.</i></p> |