

# FREINZ – Final Report

## Executive Summary

1. The project supported the activities of the EU-NZ Joint Science and Technology Cooperation Committee (JSTCC). This was aided through MBIE's Chief Scientist's attendance at both JSTCCs which occurred in the life of the project. Furthermore, the outcomes of the FRIENZ project were available for consideration and input in the 2014-2016 EU-NZ S&T Roadmap.
2. The project developed new strategic alliances between EU/NZ policy, funding and research; and innovation organisations. The principle instrument to enable these strategic alliances was the planning of 16 study tours which connected 91 research and innovation actors.
3. The project explored new initiatives and existing programmes in order to strengthen strategic alliances between NZ and EU. Investigating the effectiveness for a Science, Technology and Innovation Joint European Liaison Office in New Zealand and encouraging structural twinning occurred.
4. The project looked to better identify and understand the optimal framework conditions to support international innovation, collaboration, and support for private sector engagement. This was achieved through an extensive body of work which analysed best practises and new trends in NZ and EU member states across the whole research and innovation spectrum. A major initiative to underpin this activity from New Zealand was the launch of Callaghan Innovation (a government agency that helps businesses succeed through technology and R&D).
5. The project promoted awareness of EU/NZ research, innovation and mobility programmes, and created a community that was, and is, well informed of the opportunities for research and innovation collaboration afforded by the EU and NZ.
6. Although outside the scope of the FRIENZ project, MBIE established significant counterpart support and new funding initiatives to assist with ongoing strategic alliances between NZ and EU totalling over NZ\$3 million.

## Summary of main objectives

### Work package 1: Support to JSTCC activities (Lead: MBIE)

1. MBIE's Chief Scientist participated in the Industrial Technologies study group tour to Europe in June 2015.
2. The FRIENZ project partners were invited as observers to the New Zealand – European Union JSTCC 4th Meeting held in Wellington, New Zealand 8 - 9 December 2014. Furthermore, Dr Mark Stagg presented the FRIENZ project, outlining its current progress, to the delegates at the JSTCC.
3. The FRIENZ project partners were invited to provide three papers to the 2014 JSTCC Meeting:
  - a. Information on Europe 2020, the European Union's ten-year growth and jobs strategy that was launched in 2010.
  - b. Horizon 2020 Overview.
  - c. Information on New Zealand's Science and Innovation (S&I) relationship with the European Union (EU) and leading Member States.

### Work package 2: Innovation policy and evaluation (Lead: DLR)

1. Baseline report on New Zealand engagement in FP7.
2. For Deliverable 2.2 "Compendium of innovation measures and national innovation system profiles" extensive analysis was pulled together for Finland, France, Germany, Italy, Netherlands, New Zealand and Sweden.

### Work package 3: Relationship building (Lead: RSNZ)

To develop strategic alliances, 91 actors in the research and innovation sector travelled between EU and NZ in the four thematic areas identified in the EU-NZ S&T Roadmap.

#### Bio-economy

1. NZ Bio-economy tour to EU on the topic of 'Food Processing' (March/April 2014)
2. EU Bio-economy tour to NZ on the topic of 'Food Processing' (Oct 2014)
3. EU Bio-economy tour to NZ on the topic of 'Food for Health' (Dec 2014)
4. NZ Bio-economy tour to EU on the topic of 'Food Innovation, Food Safety' (Oct 2015)

#### Health

5. NZ Health tour to the EU on the topic of 'personalised health and stratified medicine' (November 2013)
6. EU Health tour to NZ on the topic of 'Personalised Health and Stratified Medicine' (Jun 2014)
7. NZ Health tour to the EU on the topic of 'Living a Long and Healthy Life' (Apr 2015)
8. EU Health tour to NZ on the topic of 'Living a Long and Healthy Life' (Oct 2015)

#### Resilient Cities

9. NZ Resilient Cities study tour to the EU on the topic of 'Urban Regeneration' (May 2014)
10. EU Resilient Cities study tour to NZ on the topic of 'Urban Regeneration' (Dec 2014)
11. NZ Resilient Cities tour to the EU on the topic of 'Resilient City Infrastructure' (May 2015)
12. EU Resilient Cities study tour to NZ on the topic of 'Resilient City Infrastructure' (Sep 2015)

## Industrial Technologies

13. EU Industrial Technologies tour to NZ on the topic of 'Factories of the Future' (Feb 2015)
14. EU Industrial Technologies tour to NZ on the topic of 'Spire' (Feb 2015) – Cancelled
15. NZ Industrial Technologies tour to the EU on the topic of 'Factories of the Future' (Jun 2015)
16. NZ Industrial Technologies tour to the EU on the topic of 'ICDT' (Nov 2015) - Cancelled

Three Information Days were organized:

- **Resilient Cities:** The first took place on 19 May 2014 in The Hague, at the NZ Embassy for Netherlands.
- **Health:** The second took place in Paris on 29 April 2015 in Paris at CNRS headquarters.
- **Bio-economy:** The third took place in Rennes on 19 October 2015 at Agrocampus Ouest.

## Work package 4: Programme development (Lead: MBIE)

1. FRIENZ project partners took part in a BILAT Working Group (10 BILATs), coordinated by the Austrian research promotion agency (FFG) on STI Joint European Liaison Offices (STI JELOs) to explore the possibility of having a Joint EU Member State Liaison office for countries involved in BILAT projects. The Deliverable 4.2 "Proposal on joint liaison centre: Formal proposal on the potential benefit and activities of a Joint Liaison Centre in New Zealand to coordinate European bilateral activities with New Zealand" was submitted.
2. During the course of the FRIENZ project, New Zealand has become a member of two Joint Programming Initiatives: Agriculture, Food Security and Climate Change ([FACCE](#)) and A Healthy Diet for a Healthy Life ([HDHL](#)). MBIE and the NZ Ministry of Primary Industries have become the first associate members of FACCE; and MBIE and the NZ Health Research Council (HRC) are both full members of HDHL.
3. In addition to the RISE initiative, Callaghan Innovation continues to work on how it can, through its membership of the Enterprise Europe Network, build the R&D connections of innovative New Zealand companies with Europe. MBIE has provided funding for Callaghan Innovation's activities to enhance New Zealand innovative companies' ability to optimise their engagement with European opportunities.
4. MBIE has co-funded a Fraunhofer ICON project in the field of Bionic joints. This project explicitly involves New Zealand and German health technology companies working with the Auckland Bio-engineering Institute and the Fraunhofer Institute for Manufacturing Engineering and Automation (IPA) and the University of Stuttgart. The project represents a significant initiative to build industry-academic partners between the EU and NZ.

## Work package 5: NCP support for research excellence (Lead: ERSI)

1. Information and training events, with over 200 participants at 8 locations (Jun 2014 and Mar 2015)
2. Mini brokerage events in Christchurch and Auckland to coincide with the 'Personalised health and stratified medicine' Health Study Tour of NZ (Jun 2014)
3. Invitation to participate at SEA-EU-NET training events (Jul and Oct 2014) and meeting of the CAESIE BILAT project (Dec 2014)

4. Participation in MSCA and Legal and Finance National Contact Points (NCP) meetings (Nov 2014), leading to invitation to moderate at the Net4Mobility NCP training in Legal and Financial Issues of the MSCA (Apr 2016).

#### **Work package 6: Communication activities (Lead: RSNZ)**

1. Web portals about NZ/EU collaboration opportunities available at [www.frienz.org.nz](http://www.frienz.org.nz) and [www.bilat.eu](http://www.bilat.eu)
2. Information about research opportunities for EU/NZ collaboration available at: <http://www.linkedin.com/groups/FRIENZ-4990992> and <https://twitter.com/FRIENZProject>
3. Dissemination activities:
  - a. Web sites/Applications (FRIENZ: Facilitating research and innovation cooperation between Europe and New Zealand)
  - b. Flyers (FRIENZ Flyer NZ)
  - c. Flyers (FRIENZ Flyer EU)
  - d. Flyers (FRIENZ Flyer EU&NZ)
  - e. Organisation of Conference (FRIENZ and Pace-Net Plus consortia Horizon 2020 conference: INFO Day/ Multiplier Forum)
  - f. Organisation of Conference (Horizon 2020 conference)

#### **Work package 7: Project Management (Lead: RSNZ)**

1. A cost-neutral three month extension to the FRIENZ project (Grant Agreement No. 312168) was sought in October 2015. Due to unforeseen circumstances there were two activities that were viewed to have great benefit to the project that would not be able to be completed by 31 October 2015. A reciprocal 'twinning tour' under Workpackage 4 with a high-level delegation from New Zealand (who were unavailable in the required timeframe); and, a 'study tour' under Workpackage 3 (which has been affected through personnel changes) required European Commission consideration. The FRIENZ consortium partners unanimously agreed to support these activities if a cost-neutral three month extension was granted by the European Commission. As a result of this request, there was a modification of the project specified in Article 3 of the grant agreement to recognise a new duration of 39 months in November 2015.
2. There was a universal transfer of rights and obligations from TEKNOLOGIAN TUTKIMUSKESKUS VTT to Teknologian tutkimuskeskus VTT Oy ("beneficiary 6") as of 1st January 2015.

## The FRIENZ project's main S & T results/foregrounds

The FRIENZ project is a Coordination and Support Action (CSA), which does not directly map to S&T results; however, analysis of the various activities undertaken can demonstrate the utility of the CSA in supporting this project's objectives and its outcomes.

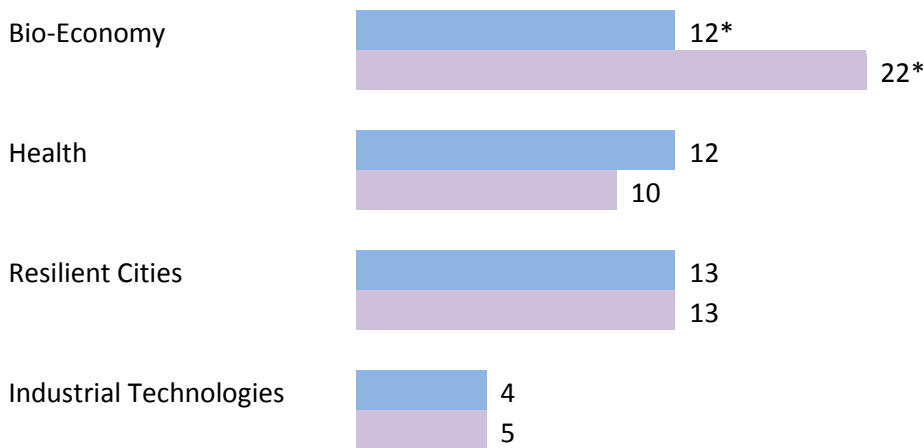
### Strengthened strategic alliances

Overall a total of 198 applications were received for both inbound and outbound study group tours.

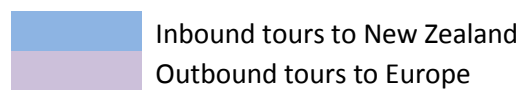
#### Awardees:

91 participants awarded on study group tours

#### Thematic Areas



Comparison of tour participants against thematic areas



\*(Includes 15 applications supported by MBIE – 12xOutbound and 3xInbound)

***Inbound Tours to New Zealand***

137 European applications were received for inbound tours to New Zealand from 20 European Union Countries



Number of applications received from each country:

<b>Austria</b>	<b>Belgium</b>	<b>Cyprus</b>	<b>Denmark</b>	<b>Estonia</b>	<b>Finland</b>	<b>France</b>
2	3	5	1	1	1	6
<b>Germany</b>	<b>Greece</b>	<b>Ireland</b>	<b>Italy</b>	<b>Latvia</b>	<b>Portugal</b>	<b>NL</b>
9	2	8	7	1	2	11
<b>Poland</b>	<b>Romania</b>	<b>Spain</b>	<b>Sweden</b>	<b>Slovenia</b>	<b>UK</b>	
36	2	2	4	1	33	

Total applications received 137

41 participants travelled to New Zealand from 14 European Union countries

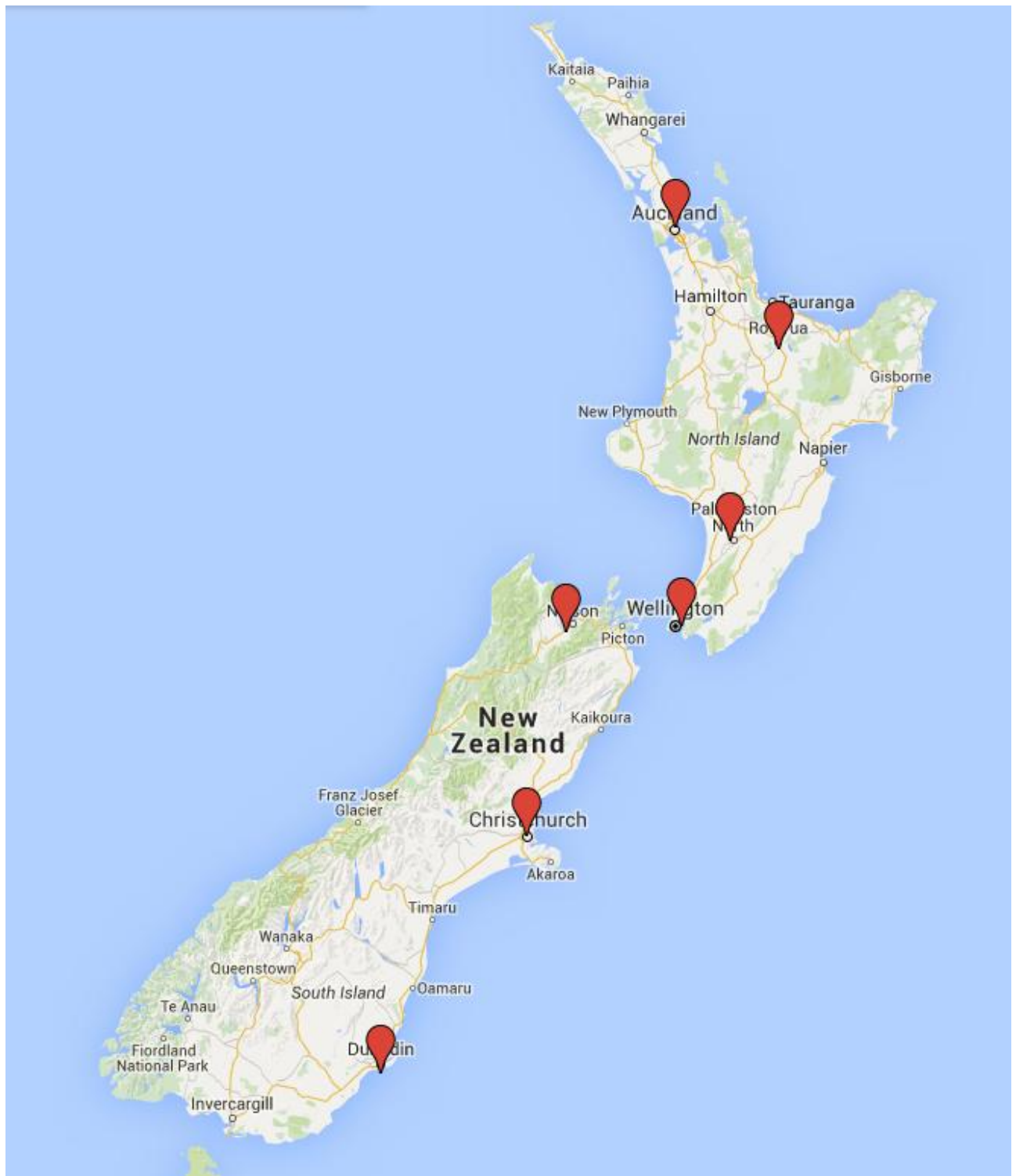


Number of participants awarded from each country:

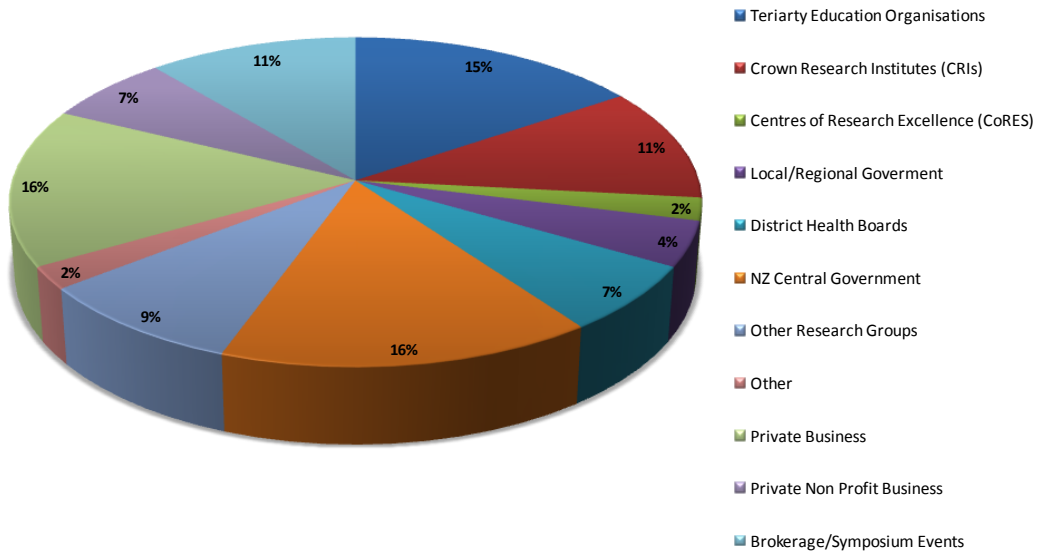
 Austria	2
 Belgium	2
 Denmark	1
 Finland	1
 France	3
 Germany	5
 Greece	1

 Ireland	3
 The Netherlands	4
 Poland	2
 Portugal	1
 Spain	2
 Sweden	1
 United Kingdom	13

Study group tour participants visited the following locations in New Zealand



### Types of New Zealand Organisations visited



### ***Outbound Tours to Europe***

50 New Zealand participants travelled outbound to 35 European cities in 9 European Union countries. Austria, Denmark, Finland, France, Germany, Italy, the Netherlands Norway and United Kingdom.

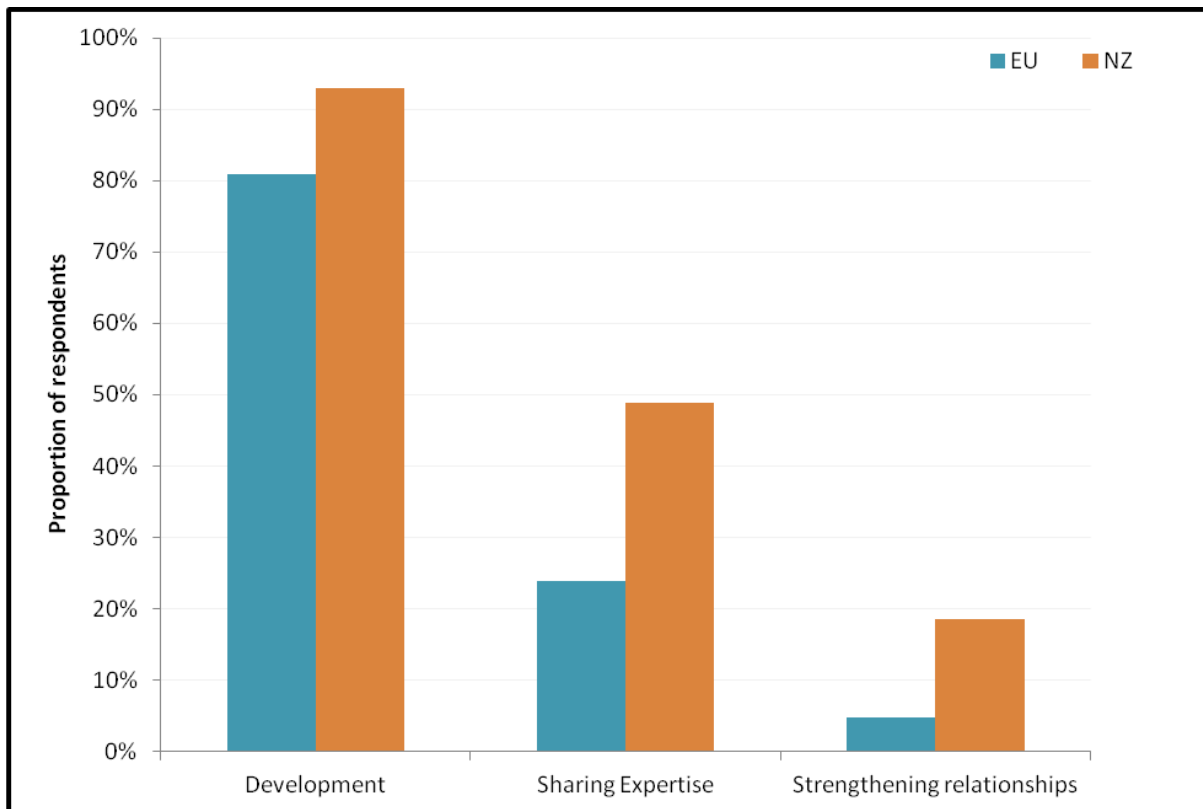
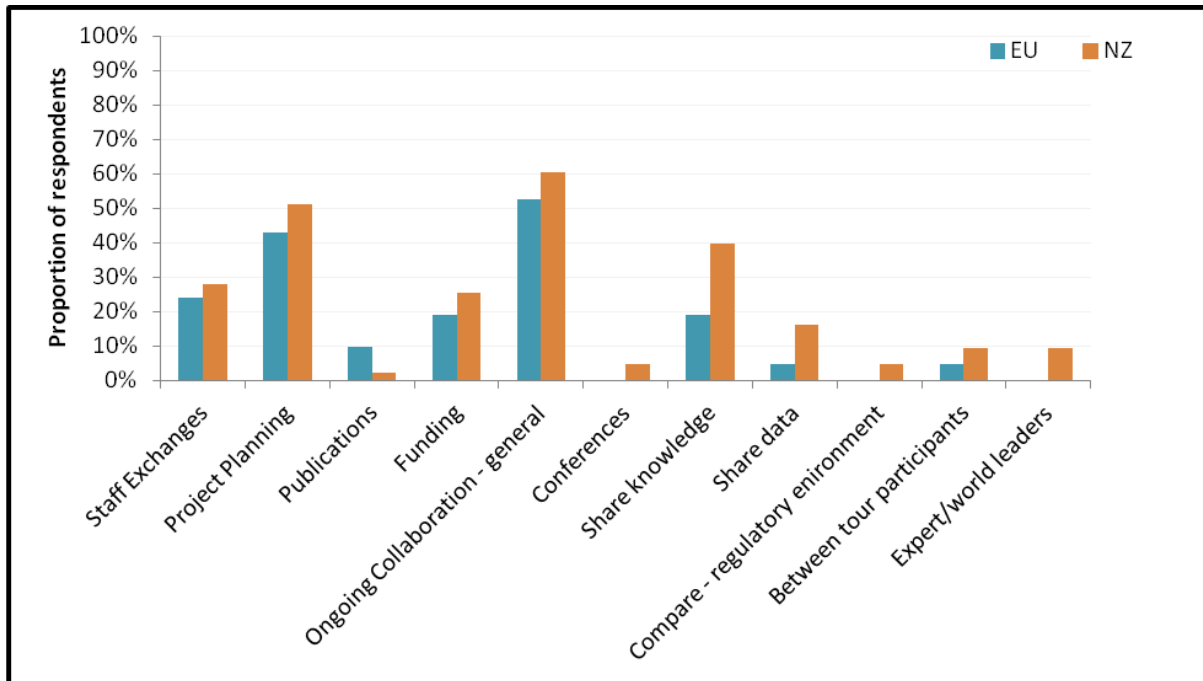


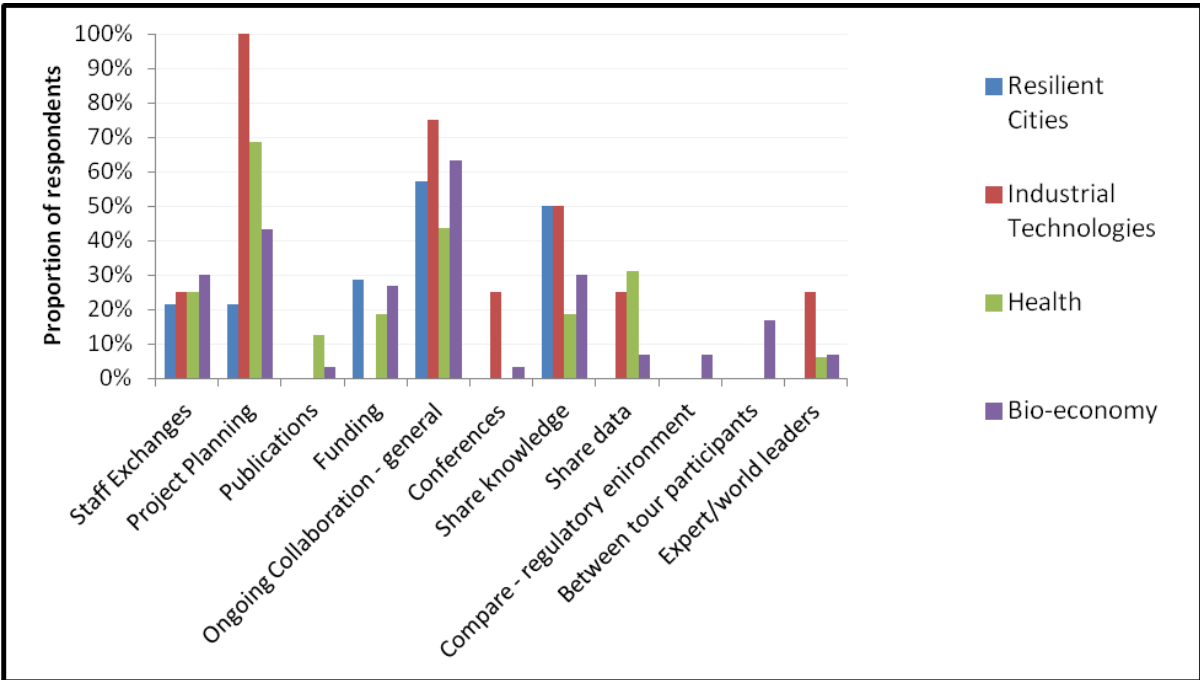
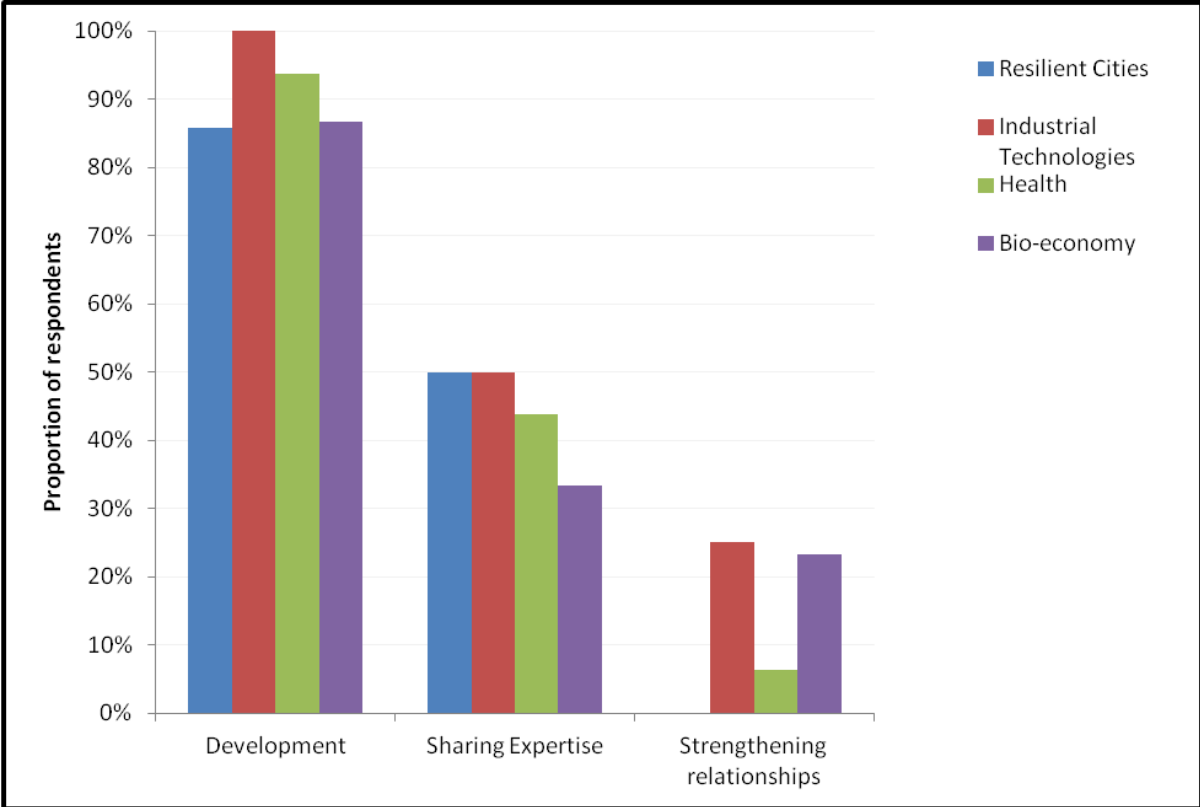
## Potential Impact

The FRIENZ project's final results are expected to deliver outputs that will have significant lasting impacts on the strategic science and innovation relationship between Europe and New Zealand. The project has sought to ensure appropriate knowledge sharing underpins growth in both Europe and New Zealand. The FRIENZ project delivered:

1. Support for future JSTCC discussions, through implementing actions identified in current and future EU-NZ Science & Technology and Innovation Cooperation Roadmaps.
2. A significant number of new strategic science and innovation partnerships between NZ and European actors in priority areas to increase the scale and scope of the relationship through the use of NZ, EC and Member State instruments.
3. An increase in the NZ connections to Member States, utilising FRIENZ partner organisations' extensive cross European networks.
4. A better understanding of best practice in delivering the policy environment/conditions to stimulate the engagement of private sector and commercial enterprises in NZ and European research and innovation schemes.
5. The identification of a strategic approach towards programme level cooperation (with the EC or MS Partners), and identification of those priority areas where benefit from such an approach will accrue.
6. A community of research and innovation actors in Europe and NZ, well informed of opportunities for mobility and collaboration opportunities afforded by the EU, and NZ and bilateral partner agencies.
7. An increase in the use of existing mechanisms for researcher mobility, both targeted to priority organisations/countries and on a bottom-up basis.

## Study Group Tour Exit Surveys





### Additional leverage and counterpart support by the New Zealand Government

MBIE established significant counterpart support and new funding initiatives to assist with ongoing strategic alliances between NZ and EU. This additional investment by MBIE has been over \$3,144,940.00 in total during the three years of the FRIENZ project.

### RISE/IRSES programmes

MBIE has established a New Zealand counterpart to the RISE (Research and Innovation Staff Exchange) scheme which replaces the FP7 IRSES (International Research Staff Exchange Scheme) programme. RISE expands IRSES to allow for SME industrial companies to participate in the mega-mobility programme.

<b>MBIE Contribution towards European Commission schemes</b>			
<i>Scheme</i>	<i>Year</i>	<i>Project Name</i>	<i>NZ\$ (excl GST)</i>
RISE	2015	Quest	119,000.00
		Keepfish	24,600.00
RISE	2014	Protinus	269,900.00
		Saleacom	60,200.00
IRSES	2013	Carpdiem	175,265.00
		Cassis	167,379.00
		Corcon	220,640.00
		Innostorage	74,560.00
		PlantAgeing	75,425.00
<b>TOTAL</b>	<b>3 years</b>	<b>9 projects</b>	<b>1,186,970.00</b>

MBIE has funded, through the RSNZ, all applications made to it for support under this programme over the three years.

### MBIE additional support to the FRIENZ project

<b>Activity</b>	<b>Theme</b>	<b>Year</b>	<b>Amount NZ\$</b>
Seeding Grant	Bio-economy Food Processing	April 2014	499,632.00
Seeding Grant	Bio-economy Food for Health	June 2015	300,000.00
Seeding Grant	Health Communicable diseases	December 2013	593,160.00
Seeding Grant	Resilient Cities Urban regeneration	June 2015	463,300.00
Additional tour participants from Industry and event costs	Bio-economy 5 people	October 2015	48,100.00
Additional tour participants from Industry and conference costs	Bio-economy 5 people	March 2014	53,778.00
<b>TOTAL</b>			<b>\$1,957,970.00</b>

## Public website

[www.frienz.org.nz](http://www.frienz.org.nz)