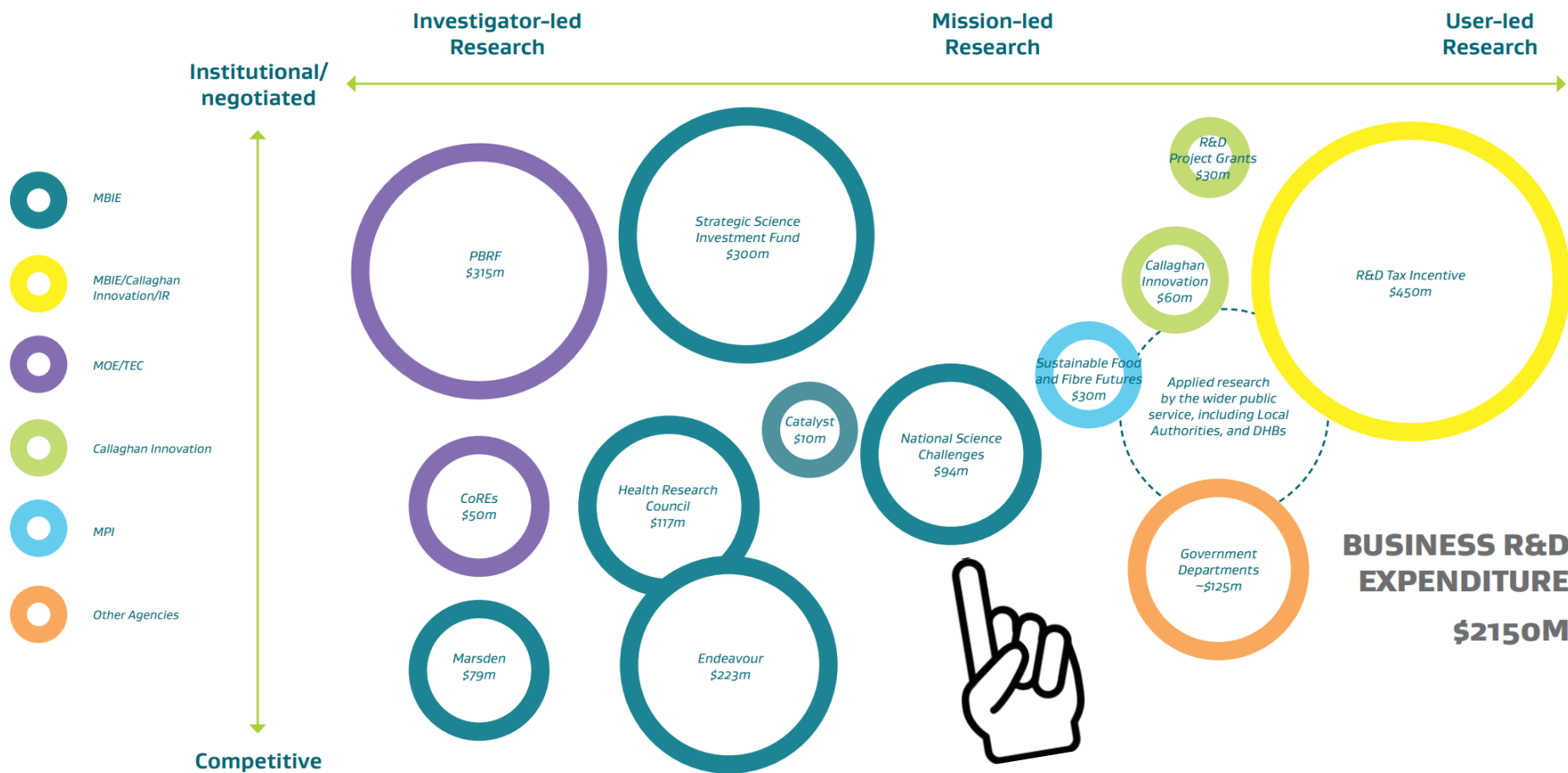


Stretching the Traditional View of Research Impact in Aotearoa

SALLY DAVENPORT & REECE MOORS

He hiringa hangarau, he oranga tangata
Innovation in technology for the benefit of
people

The NZ R&D funding landscape (per annum)



Source: New Zealand's Research, Science and Innovation Strategy: Draft for consultation. MBIE 2019

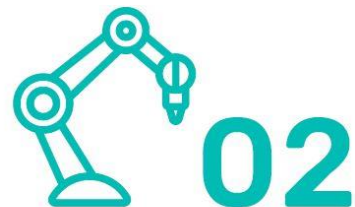
One of 11 National Science Challenges



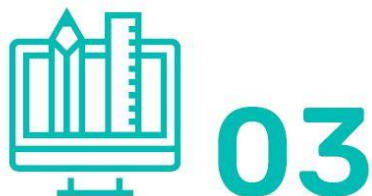
Research themes



**VISION
MĀTAURANGA**



**SENSORS, ROBOTICS
& AUTOMATION**



**MATERIALS,
MANUFACTURING
TECHNOLOGY & DESIGN**



**DATA SCIENCE
& DIGITAL
TECHNOLOGIES**

THE SCIENCE FOR TECHNOLOGICAL INNOVATION - NSC

Our mission and how we work

Our mission

SCIENCE FOR
TECHNOLOGICAL
INNOVATION

Kia kotahi mai –
Te Ao Pūtaiao me
Te Ao Hangarau

National
Science
Challenges

To enhance the capacity of New Zealand to use physical sciences and engineering for economic growth.



Our people



465

RESEARCHERS



57

MĀORI

119

WOMEN

85

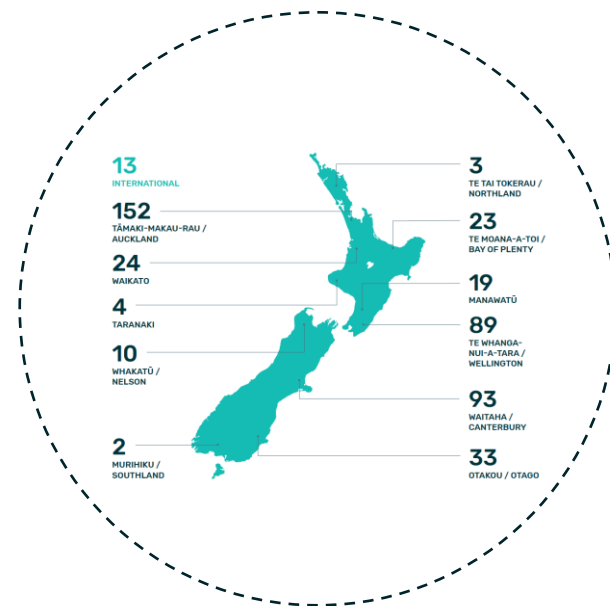
EMERGING
RESEARCHERS



40

ORGANISATIONS

Including 8
international



Numbers last updated December 2020

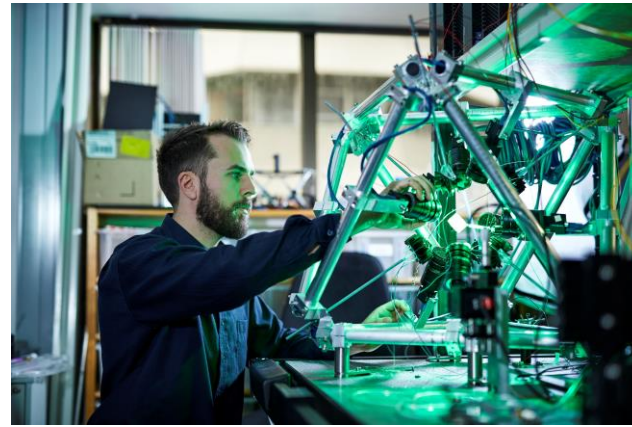
Spearhead vs Seed

Spearhead projects (9-11)



- Large projects, relevant to NZ
- Mission-led
- Co developed with Māori and industry
- Spanning 3+ years
- \$1million per annum

Seed projects (69+)



- Smaller, riskier, relevant to NZ
- Investigator-led, mentored projects
- Focus on emerging researchers
- Up to 2 years
- \$200,000 per project

Mission Lab & Mission Design



Innovating our processes

SCIENCE FOR TECHNOLOGICAL INNOVATION

Spearhead Development



Our Capacity Development Programme

We provide our researchers with a professional development programme to support them to take their careers to the next level:

- Human capacity (soft skills)
- Relational capacity (networking skills)
- Technical capacity – out of scope

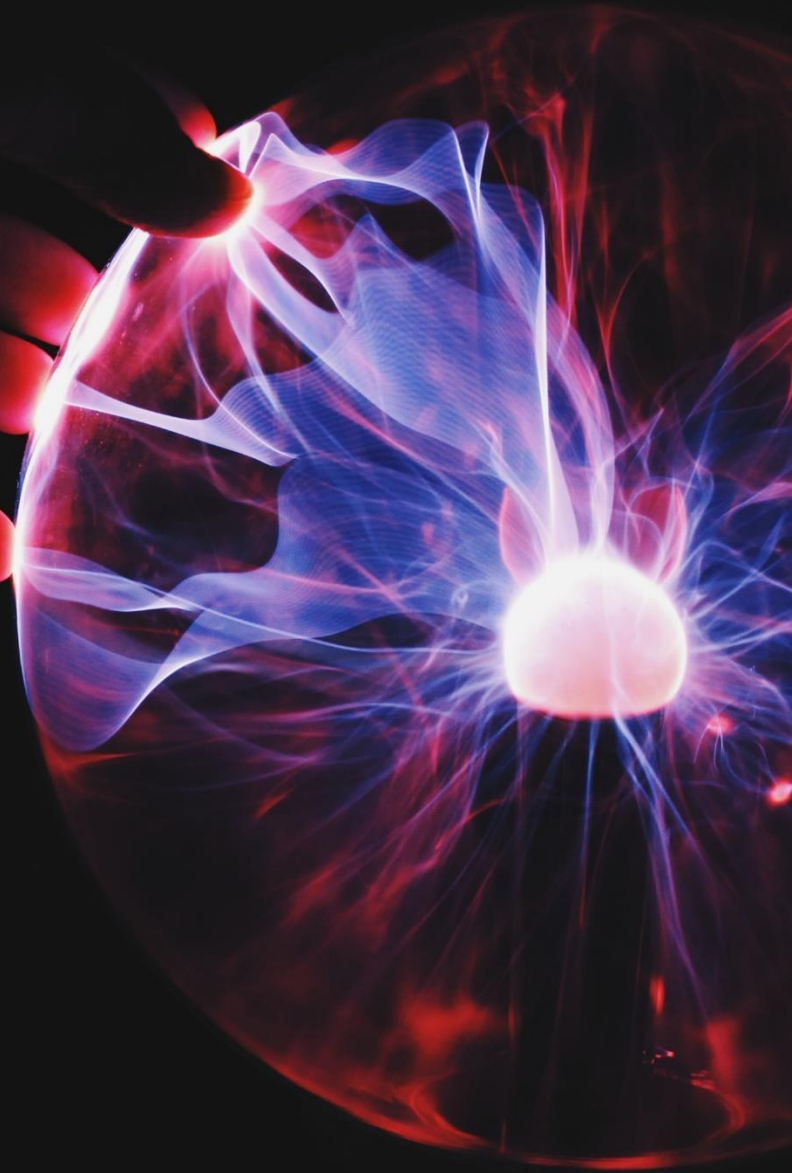


Examples of Capacity Development

- Leadership training and 1:1 coaching
- Commercialisation development
- Media, science communications training
- Māori economy and Vision Mātauranga
- Effective stakeholder engagement
- Etc, etc...

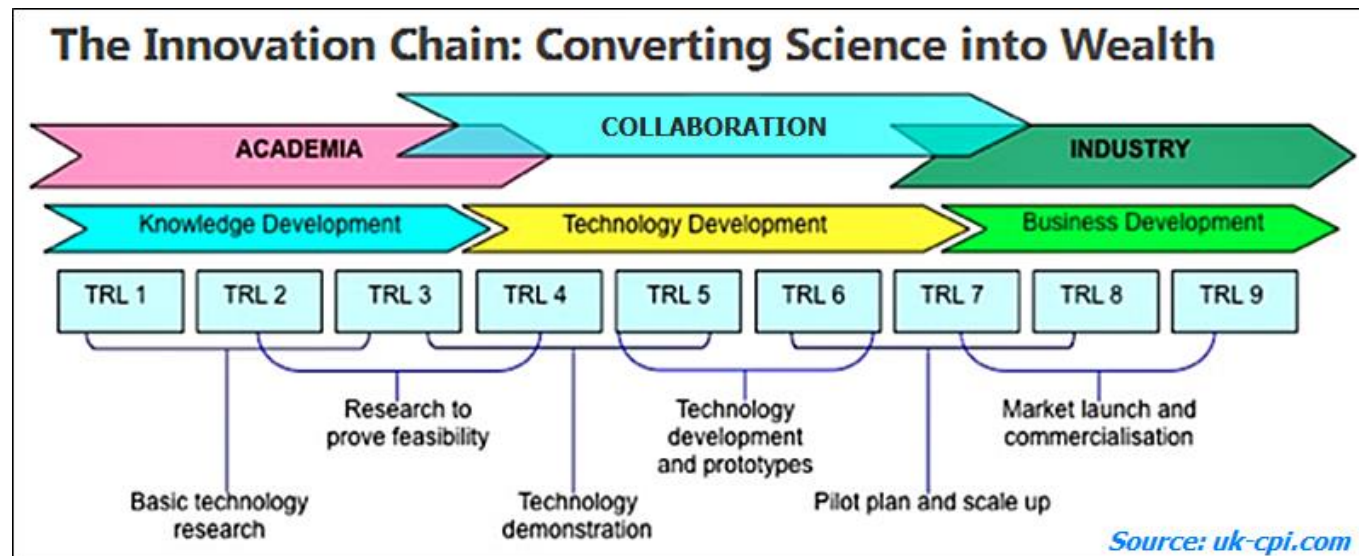


Impact – it's both a noun
and a verb



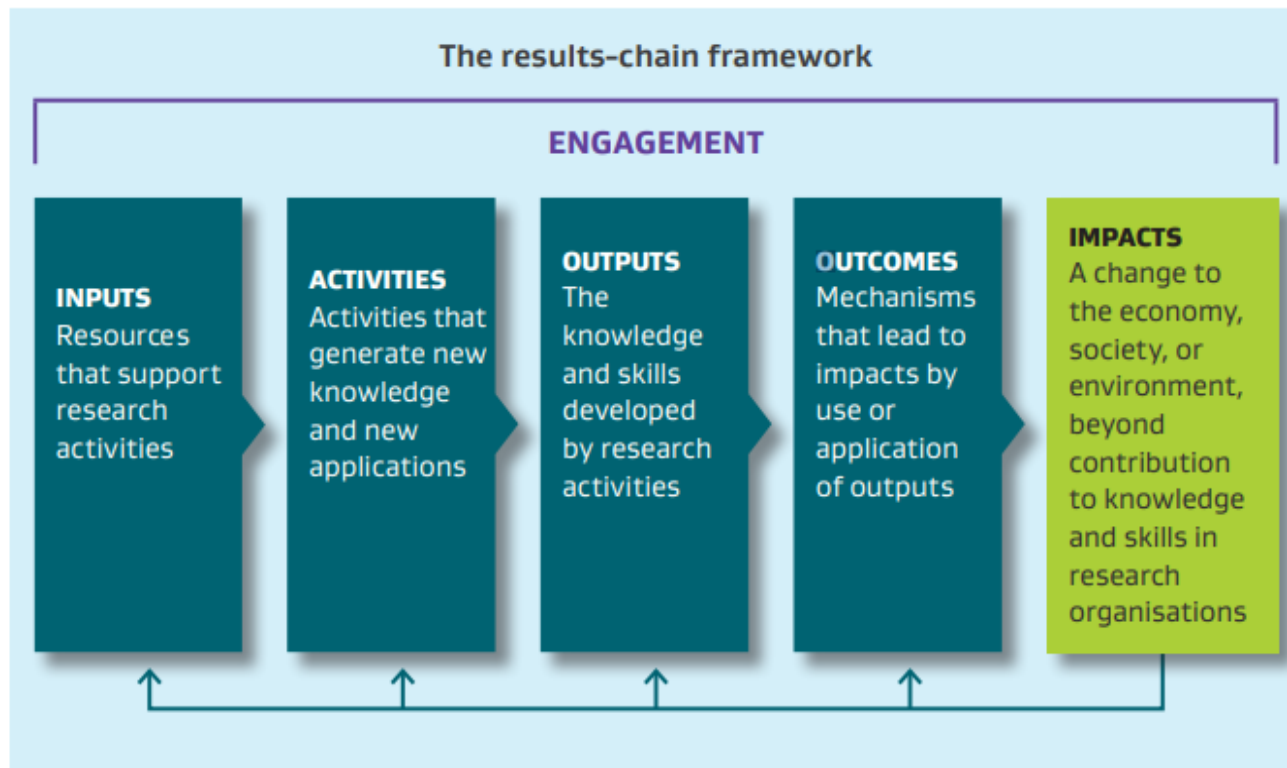
Noun: an Economic/ Commercialisation Impact

‘The answer is 17 years’



Noun: Impact as a Change

“A change to the economy, society or environment, beyond contribution to knowledge and skills in research organisations.”



Noun: Impact as a Contribution

“A change to the economy, society or environment, beyond contribution to knowledge and skills in research organisations.”



Verb: From What to Who, and How?



THE SSCIENCE FOR TECHNOLOGICAL INNOVATION - NSC

Working with and for Te Ao Māori

Mr Reece Moors

(Ngāti Mahuta – Tainui, Ngāti Pikiao, Ngāti Whakaue – Te Arawa)

Manager Programme Office and Strategic Relationships

Our Vision Mātauranga goal

Our goal is to unite Māori knowledge and western science to explore new and exciting opportunities to build a vibrant and prosperous technology-driven economy.



Impacting as Relationship Building



Impact by and with Māori



Impact through Leadership

**“Ko ngā kuri purepure o Tāmaki, e kore e ngaro i te pō”
“For those (of Tāmaki) who wear the dog skin cloak of chieftainship
shall never rest”**

*The late Emeritus Professor Sir Hugh Kawharu, ONZ
Ngāti Whatua Leader
Knowledge Wave Conference 2001*



So, is the Verb Impacting more Important?



Ngā mihi nui Thank you



@sftichallenge



Science for
Technological Innovation (SfTI)

He hiringa hangarau, he oranga tangata
Innovation in technology for the benefit of
people

Illustration designed by Tyler Dixon, Waikato-Maniapoto, Ngāti Porou, Ngāi Tūhoe, Ngāi Tahu depicts a Mangopare (Hammerhead shark). It symbolises the strength in duality to be found in uniting Māori knowledge and western science.