

# **NeSI HPC**

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New Zealand eScience Infrastructure













Medical Science

Earth Science

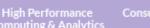
Mathematics

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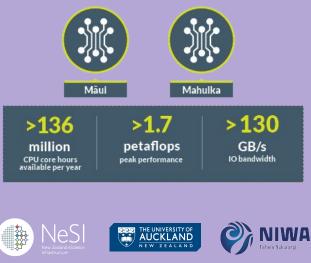








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MINISTRY OF BUSINESS, INNOVATION & EMPLOYMENT





Consultancy - Analysis, debug and optimization of user applications

### Support

Expert knowledge in multiple domains



## Data transfer



high speed data input/output Partnership with Globus (global data management platform)



### Training

- Software Carpentry / Data Carpentry
- Intro & advanced HPC training

# New Zealand eScience Infrastructure

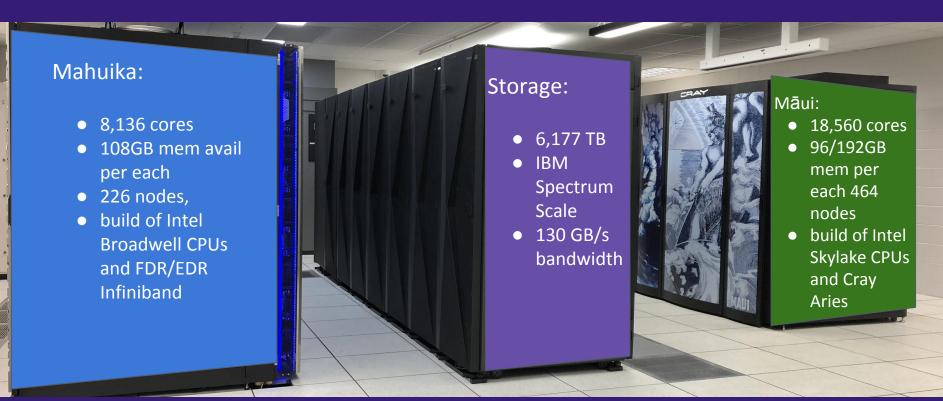
# Hardware and software for compute and analysis



- ~700 compute nodeshundreds of software
  - packages

# NeSI systems





# **Reasons to use NeSI HPC systems:**

**Compute cores** 

## **Compute memory**

Your problem requires more compute power Your problem does not fit in your laptop memory

### Disk space

Your problem works with data, which do not fit in you local storage

## **Computer hours**

Your problem runs too long on your laptop (days/weeks)











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aftermath effects. **Dr Richie Poulton** (Pyschology) Using NeSI Data Transfer platform to send MRI scan images & Development Study partner laboratory in





NIVERSITY





**Yoshihiro Kaneko** (Seismology) **GNS Science using NeSI** supercomputers to recreate earthquake events to better understand their processes and



Christchurch

Dunedin

Wellington

Ourdiver



**Dr Kim Handley** (Biological Sciences) project using NeSI supercomputers to better understand environmental processes on a microbial level

Dr Sarah Masters, Dr Deborah Crittenden, Nathaniel Gunby (Chemistry) Using NeSI supercomputers to develop new analysis tools for studying molecules' properties.



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# Eligible for access

# commercial

contracts

# Researcher from

- NIWA
- University of Otago
- University of Auckland
- Manaaki Whenua Landcare Research

Funded research by

- institutional,

- regional or

- national

peer-reviewed

grant or contract

Post graduate student research for degree

# **Questions and Answers**



If you are interested in gaining access to NeSI HPC resource or have any additional questions, visit <u>support.nesi.org.nz</u>

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