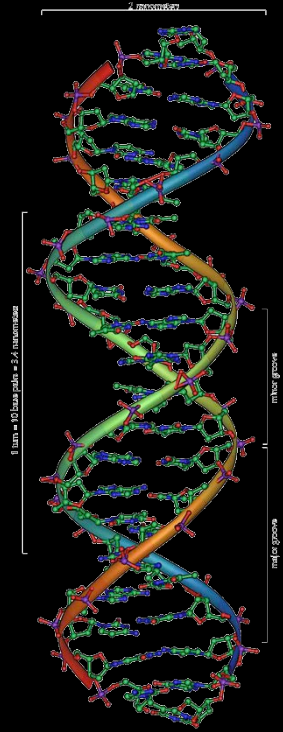
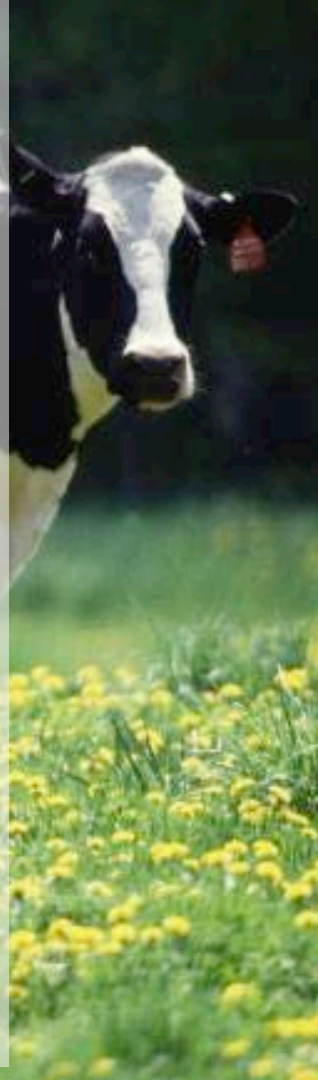


“Undoubtedly, the amount of data and the complexity of analysis will continue to grow in the future. This makes it very important to have such computational resources as NeSI.”

“Using a large number of computational cores allowed us to run analyses in one week which otherwise would have taken maybe 100 years of computational time.”

“The technical and consulting support provided by NeSI staff was extremely important and, in some cases, crucial for our project.”

Maksim Struchalin
LIC, Livestock Improvement Corporation





NeSI

New Zealand eScience
Infrastructure

The Power Behind Researchers

— — — — —
Growing the computing capability of New Zealand
researchers to ensure our future prosperity



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@ eResearch NZ 2016

NeSI Board



Rick Christie



Murray Poulter



Stephen Whiteside

Crown Observers

As the Crown is a key partner supporting NeSI, the Crown appoints observers to Board discussions :



Andrew Rohl



Steve Weaver



Rob Ballagh

A year of intense
activity and
transformational
change



Rick Christie
Chair

Moving from local to national

Organisation re-design

... defining how we collaborate

Then: 6 teams working in 5 locations

- » Functions replicated at each site
- » Local approaches to delivering services and supporting researchers

Soon: 1 virtual organisation across 5 locations 

- » National teams around common functions
- » Delivering common services with consistent delivery model to all institutions
- » National governance over future investments

Next steps:

- » Recruitment for / appointment to new positions 
-

NeSI Senior Leadership Team



Georgina Rae



Brian Corrie



Michael Uddstrom



Aleksandra Pawlik



Robin Bensley



Mike Ladd

Development of infrastructure



HPC Compute & Analytics



New national governance mechanism rolled out – **National Platforms Framework** review

Cloud-bursting pilot underway, working with Microsoft Azure & Nimble

Platforms Framework revised:

- replacement HPC platforms commissioning and go live July 2017
- scope incorporates core **Data Analytics technologies & tools**
- recruit a data analytics leader

Development of infrastructure



Research Data

Review of current offerings – and our future directions: data analytics & workflows



Support for National Research Data Programme, via eResearch 2020



Research Data Alliance

Growth in skills



Training

10 training events in 2015



Leadership in instructor training:
Software Carpentry & Data Carpentry
20 Instructors trained (2016)

++ increase in workshops in 2016

3 training events (2016):
first (2) Research Bazaars in NZ
200+ researchers trained

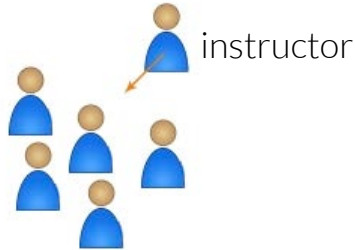


Training Strategy - Phase 1 (2014 ~)



Basic skills

- Mostly directly delivered or led by NeSI
- Local instructors/helpers if available
- Very positive feedback : 4.34/5.0 overall rate

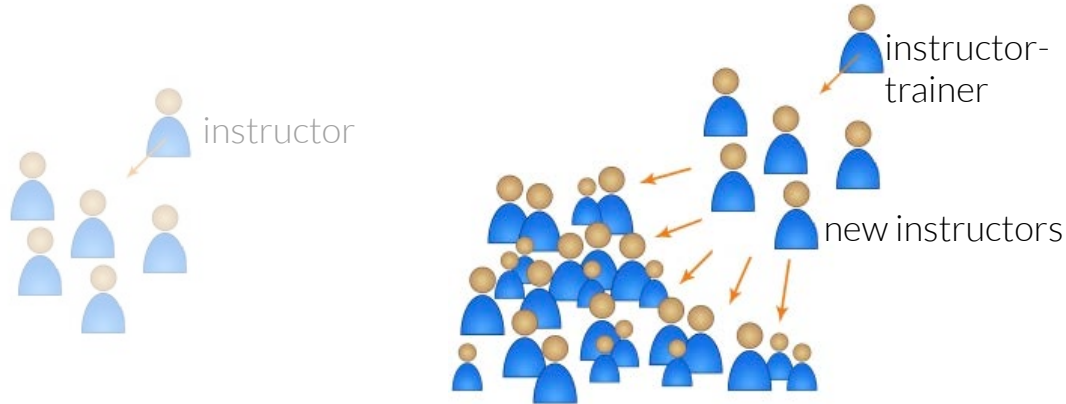


Training Strategy - Phase 2 (2016 ~)



Train the trainer

- Support communities to lead the basic skill training
- Build partnerships to sustain capabilities over time

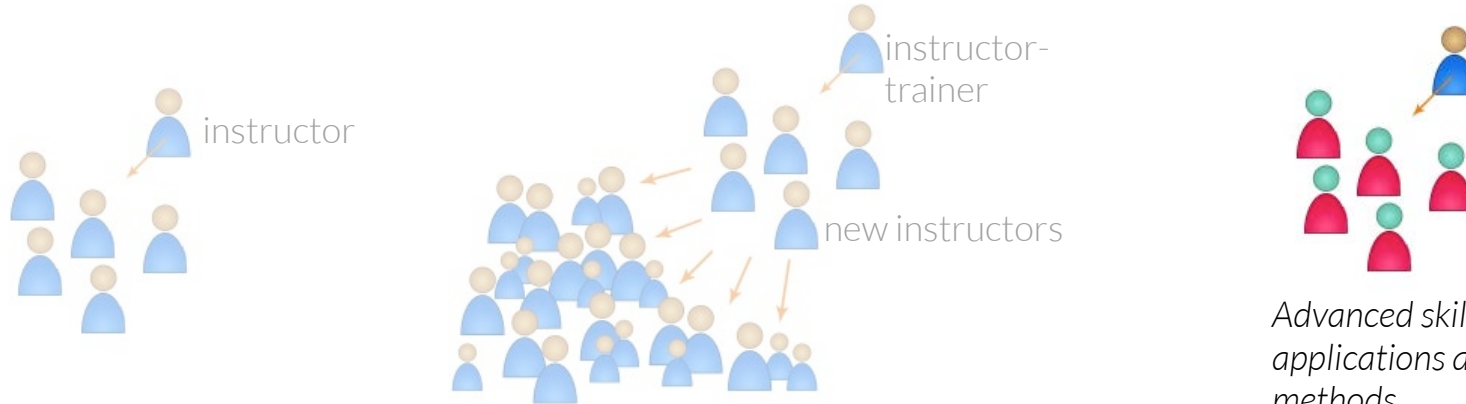


Training Strategy - Phase 3 (2017 ~)



Advanced topics

- Research applications and methods
- Existing training continue as BAU



*Advanced skills in
applications and
methods*

NeSI 'Tuesday' at eResearch NZ 2016

11:15 (Queenstown)	NeSI Update	Nick Jones
11:45 (Remarkables)	Growing NZ's Researcher's Computing Capability	Georgina Rae & John Rugis
14:30 (Queenstown)	An HPC Implementation of the Finite Element Method	John Rugis
16:00 (Queenstown)	The NeSI National Platform Framework	Michael Uddstrom
16:30 (Queenstown)	Early Experiences with Cloud Bursting	Jordi Blasco
16:30 (Remarkables)	NeSI NZGL Alliance	Dan Sun & Nic Mair (NZGL)
17:00 (Queenstown)	Acceleration Made Easy	Wolfgang Hayek





Research Reference Group

Research Reference Group



Sam Dean



Cristin Print



Susan Wells



Ian Foster



Barbara Chapman



Blair Blakie



Joseph Lane



Nauman Maqbool

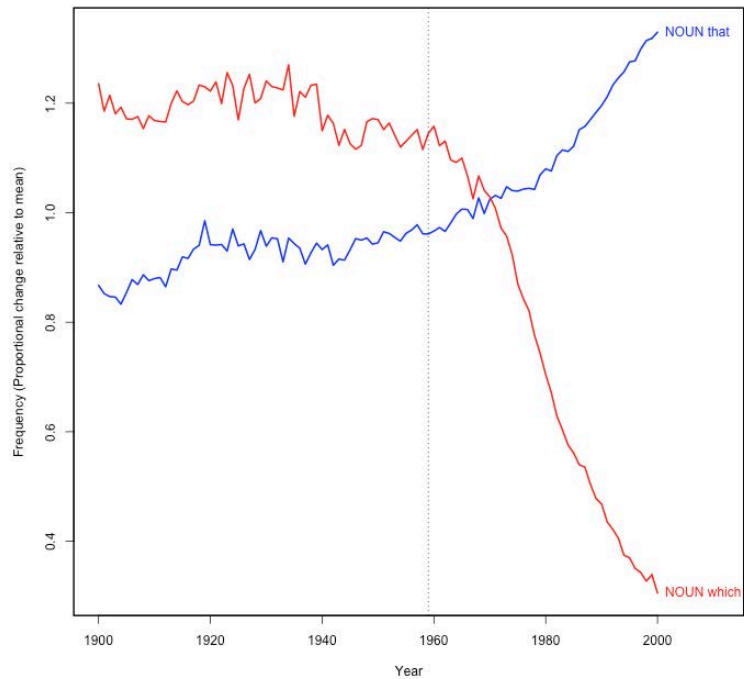


Growing research which computes

Nick Jones
Director
New Zealand eScience Infrastructure



Data from Google Ngrams "American English" collection



Data from Google Ngrams "British English" collection

