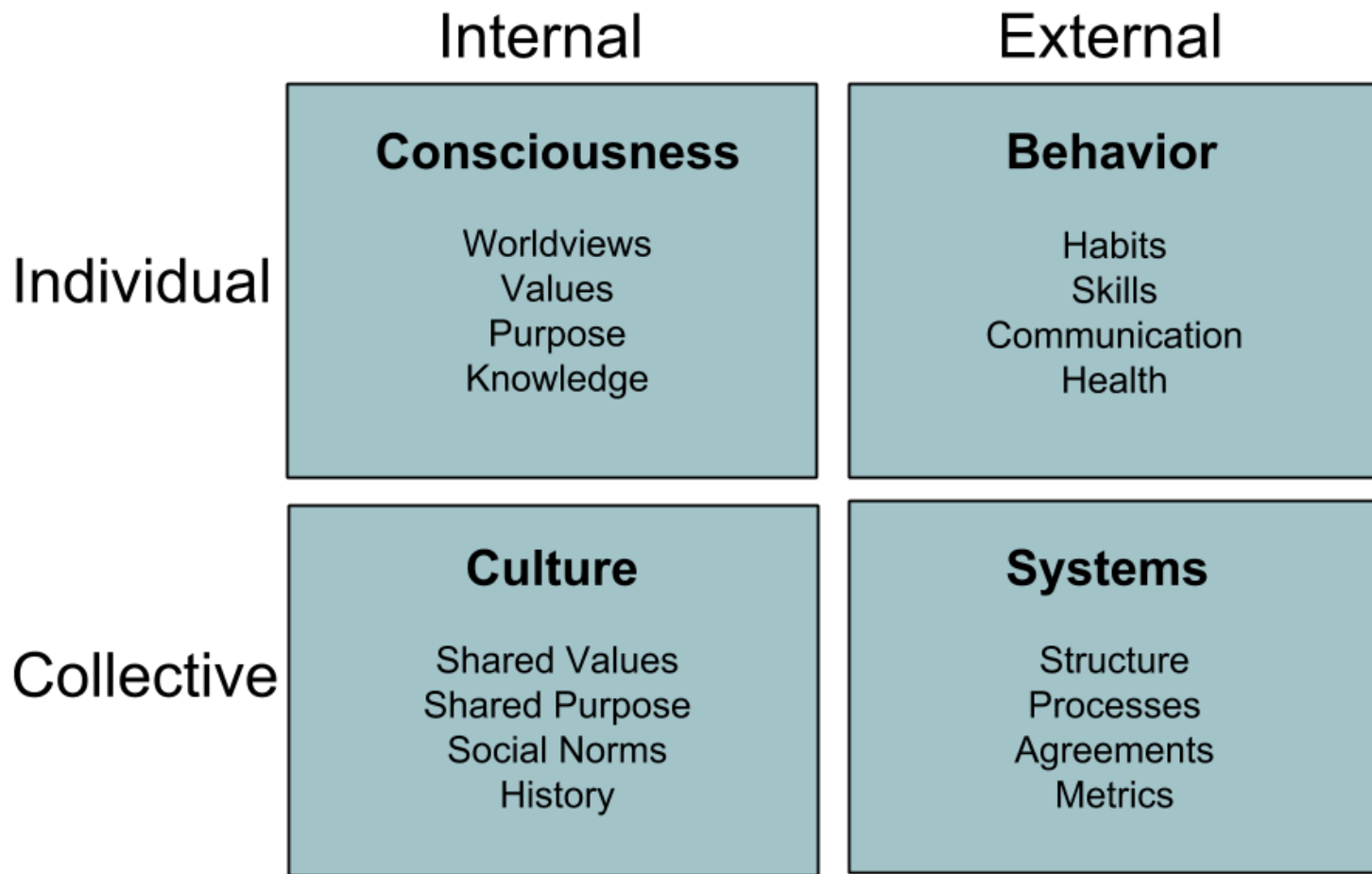# Training: It's better together

Megan Guidry | NeSI Training Coordinator

What do we need to increase the capabilities of New Zealand researchers?

Go to www.slido.com
and enter the code
#M725

	Internal	External
Individual	**Consciousness** Worldviews Values Purpose Knowledge	**Behavior** Habits Skills Communication Health
Collective	**Culture** Shared Values Shared Purpose Social Norms History	**Systems** Structure Processes Agreements Metrics

Three training takeaways from 2019

NeSI
New Zealand eScience
Infrastructure

✓ Investing in trainers at a institutional level makes a big difference

✓ Connection is critical for a healthy community

✓ It is so important to leverage effort whenever possible

Some training lingo:

The Carpentries - A community of instructors, lesson maintainers, helpers, coordinators (and more) who work together to teach foundational coding, data management, and library skills to researchers

Train-the-trainer - refers to the way the carpentries teaches its trainers how to teach. It's a cornerstone of NeSI's training strategy and a way we encourage NZ communities to build their own training capacity.

Check-out - In order to become a certified Carpentries trainer you need to complete 3 'homework' items (a demo, edit a lesson, and attend a community call)

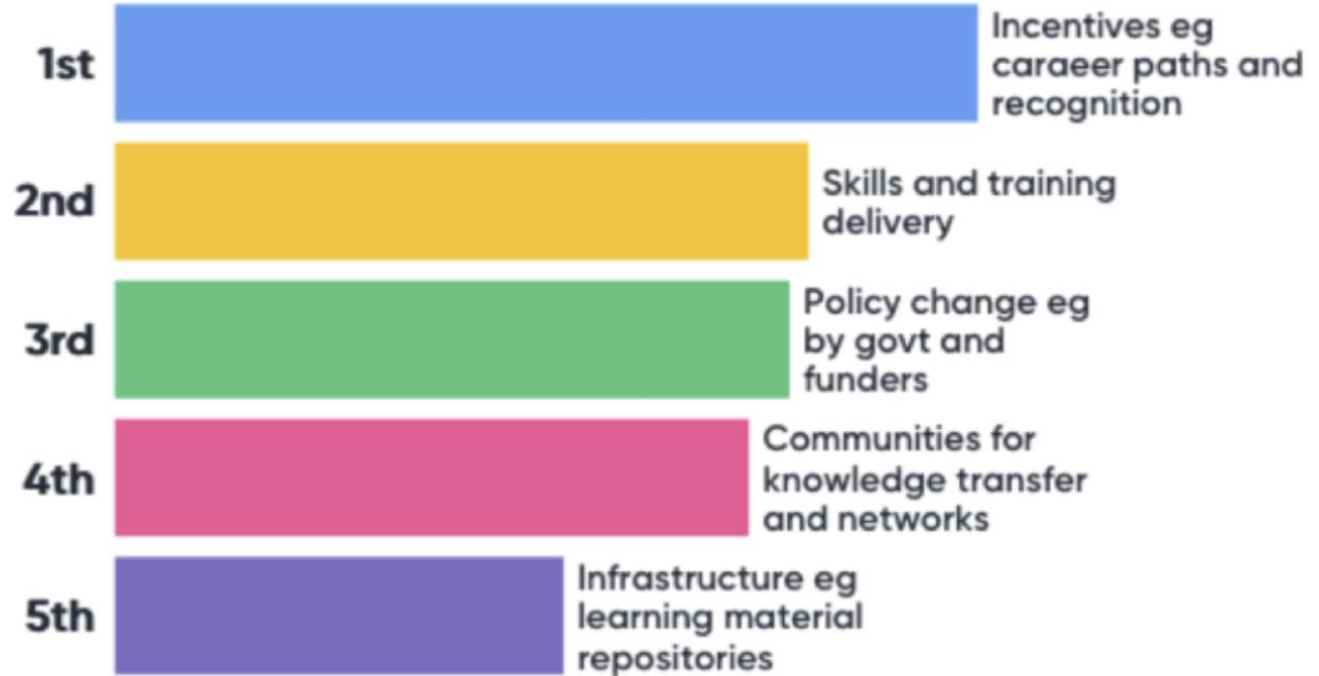# 1. Investing in carpentries trainers @ the University of Otago

- 1 Full time equivalent role for delivering training
- UoO is the only New Zealand University with a Carpentries Membership
- Roughly **40%** of the carpentries workshops run and recorded in NZ for 2019 can be attributed to UoO

Insight from ARDC eResearch skilled workforce summit

Rank these five items needed for cultural change in terms of where effort is most needed now.

1st — Incentives eg caraeer paths and recognition

2nd — Skills and training delivery

3rd — Policy change eg by govt and funders

4th — Communities for knowledge transfer and networks

5th — Infrastructure eg learning material repositories

UoO success is success for NZ

- When people can hone their teaching skills they become a huge boost for the whole research sector:
  - Exemplify what is possible for other regions
  - Share expertise and learnings with the broader community

Takeaway 2: Connection is critical

- Following up with instructor trainees has raised instructor check-outs from 42% in 2018 to 71% in 2019.

- Learners appreciate awesome instructors
- Learning how to teach can be a major revelation - and super rewarding :-)
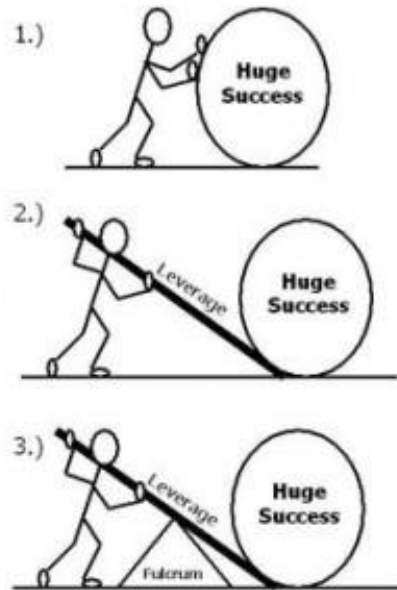
Good teaching serves the learner, not the teacher. It isn't self-indulgent. Good teaching anticipates the questions that learners might have as they're working through a lesson, and it answers them.*
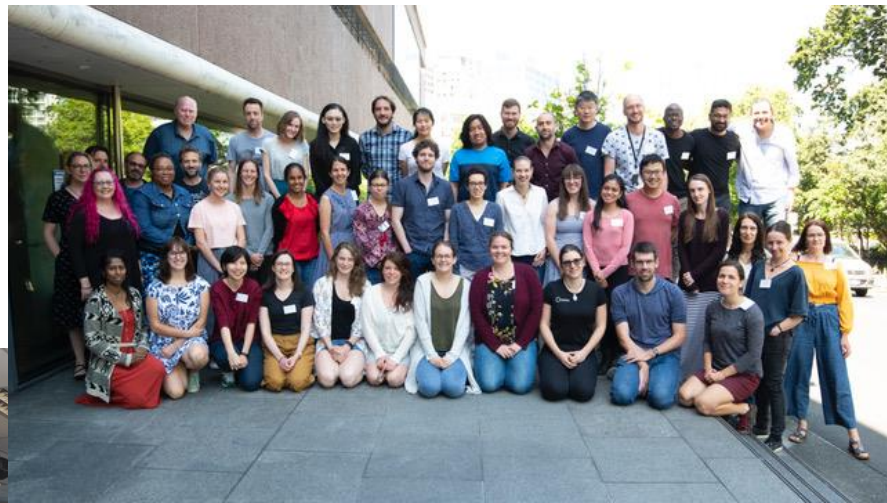
*Original quote by Ann Handley, *Everybody Writes: Your Go-To Guide to Creating Ridiculously Good Content*

Takeaway 3: Leverage

- Institutional allies are invaluable for advertising and promoting learning opportunities
- Scalable Modalities (webinars, recordings, online hacky hours)

Training is way better together!

Save the Date:

Science Coding Conference 2020
9 – 11 September 2020
Auckland, NZ

Call for Submissions open soon! Watch
http://sciencecodingconference.nz for details

NeSI @ eResearch NZ - Talks & Workshops:

Wednesday 12 Feb

1:30 - 1:50 pm - **Megan Guidry** - Training: It's better together

1:30 - 5:30 pm - **Chris Scott** - First steps in machine learning with NeSI

1:50 - 2:10 pm - **Callum Walley** - Engineering HPC: What's going on?

2:10 - 2:30 pm - **Marko Laban** - Cloud-native technologies in eResearch: Benefits & challenges

2:50 - 3:00 pm - **Jun Huh** - Learning how to learn

3:30 - 4:30 pm - **Megan Guidry** - Building and supporting a NZ digital literacy training community

3:30 - 4:30 pm - **Blair Bethwaite** - Research Cloud NZ

Thursday 13 Feb

11:00 - 11:20 am - **Wolfgang Hayek** - Singularity containers on HPC

11:00 am - 12:20 pm - **Brian Flaherty** - Building a national/regional data transfer platform: Globus BoF

1:30 - 1:50 pm - **Nick Jones** - Advancing New Zealand's computational research capabilities and skills

1:30 - 1:50 pm - **Jun Huh** - User journey-driven product management

1:30 - 5:30 pm - **Blair Bethwaite** - Containers in HPC tutorial

1:50 - 2:10 pm - **Brian Flaherty** - Where Data Lives: NeSI, taonga and growing repository services

Thursday 13 Feb (cont.)

1:50 - 2:10 pm - **Jeff Zais** - Worldwide trends in computer architectures for data science

2:10 - 2:30 pm - **Dinindu Senanayake** - HPC for life sciences: Handling the challenges posed by a domain that relies on big data

3:30 - 5:30 pm - **Jana Makar** - Growing the eResearch workforce in an inclusive way

Friday 14 Feb

11:20 - 11:40 am - **Alexander Pletzer** - Enhancing eResearch productivity with NeSI's consultancy service

1:30 - 3:40 pm - **Nooriyah Lohani** - Research Software Engineering (RSE) community update and next steps in New Zealand

Thank You!

www.nesi.org.nz

@nesi_nz

megan.guidry@nesi.org.nz

training@nesi.org.nz