Innovative connected research infrastructure for Terrestrial ecoscience researchers and decision makers.

Workshop at the IDCC 2019 conference, Monday 4 February 2019, 9am-1pm

What will the delegates get out of the workshop?

In this workshop participants will learn about the collaborative approach taken in Australia to Research Infrastructure but also get a chance to try some of the tools and platforms that are in place for researchers and decision makers to publish and use well curated FAIR data. This includes platforms such as the Australian Ecoscience Research Cloud (ecocloud) and virtual laboratories such as the Biodiversity and Climate Change Virtual Laboratory (BCCVL).

The workshop will provide an overview of the ecosystem science eInfrastructure funded by NCRIS and take a hands on approach by getting participants to use a variety of integrated, curated and interoperable data and tools that are currently used by ecoscience researchers, managers and policy makers to discover, synthesise and analyse spatial data to investigate the potential impact scenarios on biodiversity. No complex coding/statistical knowledge is required. Just bring your laptop and we will provide access to a wealth of data and analysis/modelling tools.

Background

The National Collaborative Research Infrastructure Strategy (NCRIS) is an Australian Government funded program that has established a range of collaborating facilities that provide infrastructure for Australian researchers and policy makers to use. The Atlas of Living Australia (ALA), the Terrestrial Ecosystem Research Network (TERN) and the Australian Research Data Commons (ARDC) are just three of these facilities. These facilities over the course of several years have each separately and collaboratively established infrastructure in the area of Terrestrial ecoscience and biodiversity that enable collaboration, cooperation and seamless access to well curated FAIR data, tools and analysis pipelines to carry out transparent and reusable research and development. The overall philosophy of the collaboration of these facilities are:

- ensure that well curated FAIR data is widely accessible for use across different science disciplines,

- harmonise similar domain data infrastructures to offer a common platform to perform a data-centric query and access from different platforms and virtual labs
- provide scalable managed computing environment with easy access to distributed and data-intensive computation and technologies.
- develop a support system for a cross-disciplines use of data.

Agenda for the workshop

Time	Title
9.00 am	Welcome and round of introductions
9.15 am	Brief introductions to: the National Collaborative Research Infrastructure Strategy (NCRIS) program Atlas of Living Australia (ALA) Terrestrial Ecosystem Research Network (TERN) Biodiversity and Climate Change Virtual Laboratory (BCCVL) Australian Research Data Commons (ARDC)
9.45 am	Hands on exercise showcasing data, tools and interoperability for Ecosystem researchers
10.30 am	Coffee break
11.00 am	Hands on exercise showcasing data, tools and interoperability for Ecosystem researchers (continued)
11.30 am	Interactive exercise What makes connections happen?
12.00 pm	Panel session Establishing national and international connections
12.30 pm	Discussion
12.45 pm	Final observations and views to the future
1.00 pm	Lunch