

www.ala.org.au

Indigenous Knowledge & Digital Infrastructure Futures



National Research Infrastructure for Australia

An Australian Government Initiative

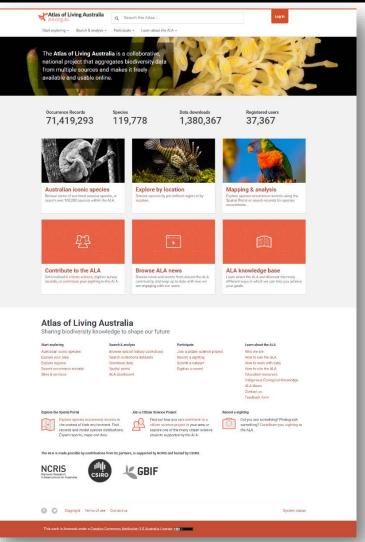
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The ALA acknowledges Australia's Traditional Owners and pays respect to the past and present Elders of the nation's Aboriginal and Torres Strait Islander communities. We honour and celebrate the spiritual, cultural and customary connections of Traditional Owners to country and the biodiversity that forms part of that country.

What is the ALA?



Australia's aggregation & access e-platform for biodiversity data



One of several facilities funded by the Australian Government for **national research infrastructure**



NCRRIS National Research Infrastructure for Australia

Hosted by



Information Facility

Enables

- more effective & efficient scientific research
- expanded research opportunities & application
- informing policy & management
- community participation & connection
- education resource

ALA – sharing biodiversity knowledge





AUD \$55 million investment NCRIS over 10 years National Research Infrastructure for Australia



A leading-edge collaborative e-infrastructure integral to advancing biodiversity knowledge

Data types

- specimens
- occurrence
- images, sounds
- literature
- sequences
- more
- 73.9 million records
- 5,238 data sets
- 477 spatial layers
- 12.3 billion records downloaded from 1.4 million events
- 1,500 Google Scholar returns

System

- data capture & aggregation
- data management
- data discovery
- data visualisation
- data analysis & reporting



Partners – founding & beyond

Tasmanian Museum

& Art Gallerv



National Research infrastructure

NCRIS National Research Infrastructure for Australia An Australian Government Initiative

An Australian Government Initiative

museum

CHAEC



ABRS

MUSEUM AND ART GALLERY NORTHERN Northerr Territory CSIRO





Open data, open source, open access, open services, open infrastructure



ALA – open infrastructure - "Powered by ALA"

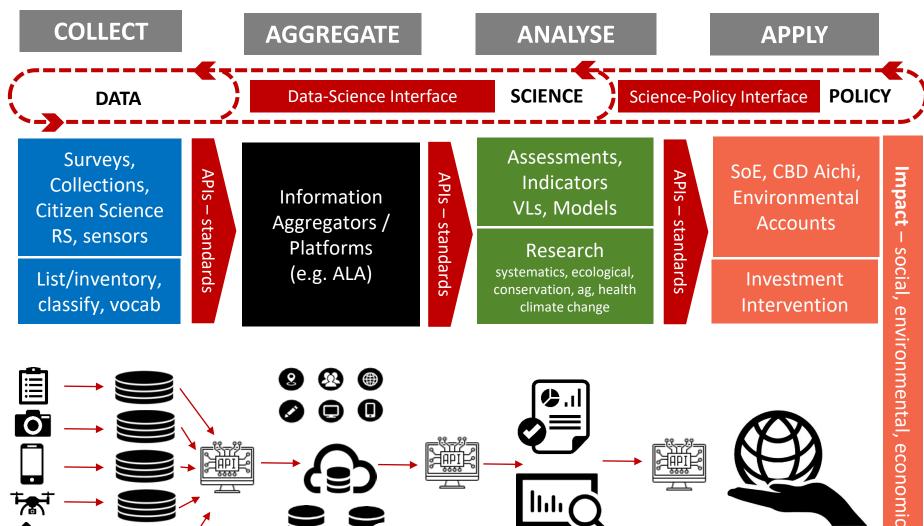


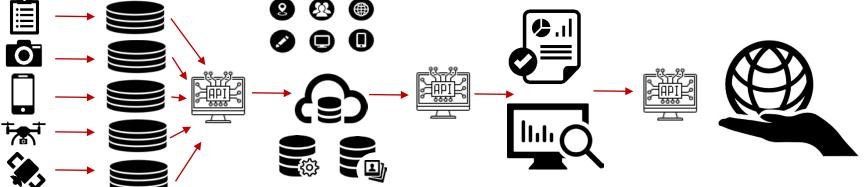


For online access to Australia's biodiversity information

Context – information supply chain

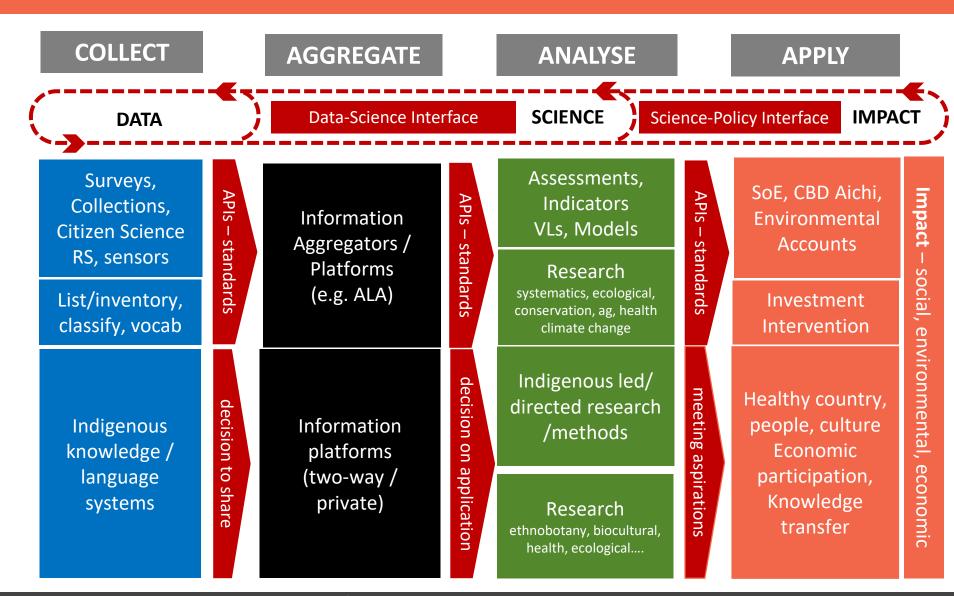






Context - information supply chain





For online access to Australia's biodiversity information

ALA IEK program - goals



Indigenous Ecological Knowledge

Vision

• Improved social and ecological sustainability through enabling twoway biodiversity knowledge

Goals

- *respect and recognise* the **value and ownership** of Indigenous Ecological Knowledge (IEK) and give **prominence** to it alongside western science biodiversity knowledge
- support and invigorate IEK and its ongoing application and revitalisation in biodiversity conservation, environmental management and socio-cultural, land rights and economic goals
- *support* Indigenous people to **realise their goals** in Indigenous knowledge maintenance, management and application
- *empower* **two-way participation** in biodiversity information collection, management and access
- support intergenerational transmission of IEK
- ensure ethical practice through informed consent, equitable sharing of benefits arising from access to IEK, and other established principles of engagement

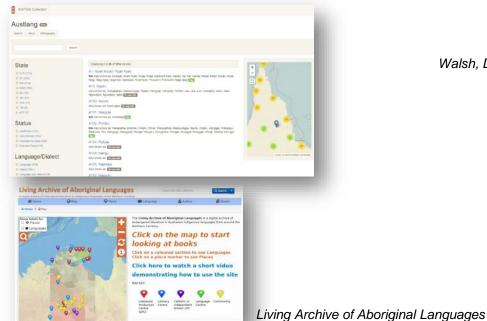
ALA IEK program – knowledge systems



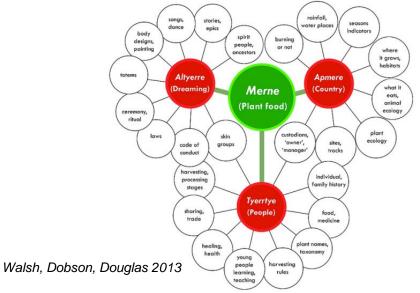
Seasonal



Language



Worldview





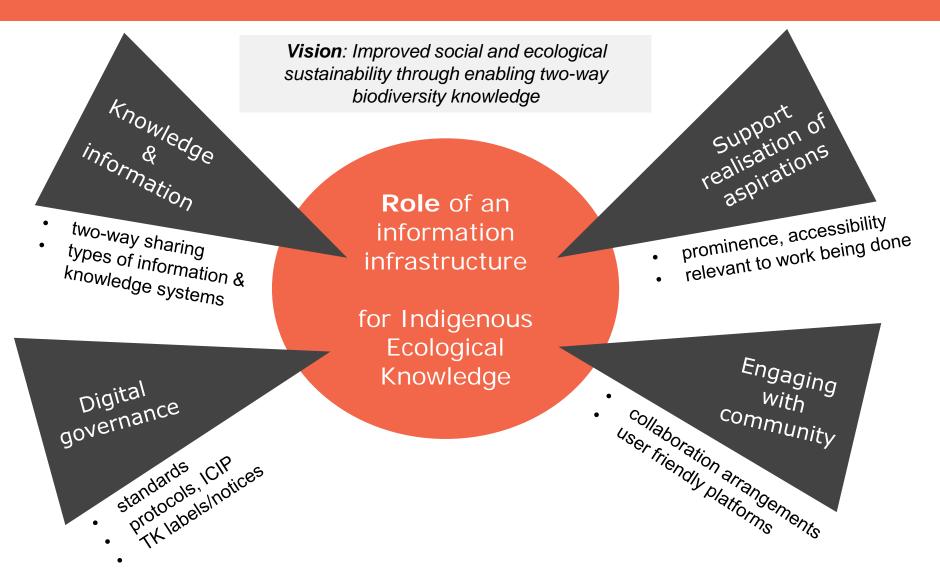


Ara Irititja – Keeping Culture

For online access to Australia's biodiversity information

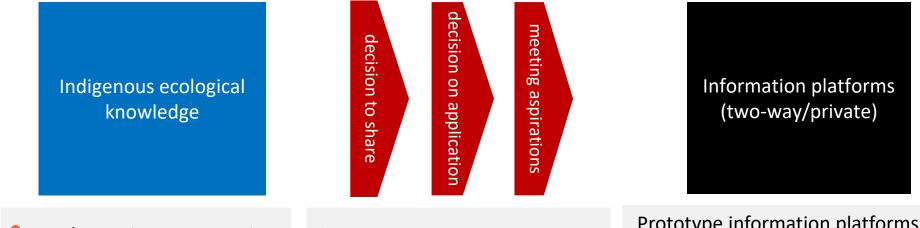
ALA IEK program – relevance





Context – *IEK* program activities





- Yugul Mangi two-way project Kamilaroi language names Tracks App - CLC
- Olkola: decision & risk matrix
- Traditional Knowledge Labels
- ICIP principles/protocols

- Prototype information platforms:
- Seasonal calendar
- Profiles cross-cultural collections



TK Label proposal - needs



 Recognition of ownership
 Respect for Indigenous Knowledge

 Greater control of access & usage
 Embedding protection in the digital circulation of information

 Keeping localised context
 Community driven processes

 Limitations of formal IP system
 Tracking provenance

Commercialisation of cultural assets

This project will **embed** Indigenous Cultural and Intellectual Property principles and protocols in a digital platform

supporting the recognition & visibility of Indigenous ecological knowledge through the co-development of knowledge labels

ensuring more equitable and culturally respectful terms for the sharing of IEK

TK Label proposal - components





Consultation & Collaboration Scope and focus of the project, and ongoing collaboration and co-creation



Integration of TK labels Integrating into e-infrastructure and metadata standards, including search function



New TK labels & TK Notice Environmental and ecological specific labels, including identifying notice



Tools

co-curation of labels via GitHub, workshops, educational materials, training



Adapt to local context

Local community adaption of labels



Broader application

Contributing to national & international dialogue on rights and responsibilities for IEK recognition

TK Label proposal – next steps



- Seek **feedback** & input into research plan
- Seek expressions of interest from Indigenous groups / individuals and refine proposal
- Further discussion with other potential research & industry collaborators
- Build consortium of **investors**







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More Information

http://www.ala.org.au/ala-and-indigenous-ecologicalknowledge-iek/ National Research Infrastructure for Australia

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