

ALA or State portal? Selecting the right portal for the job

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Portal landscape

- The ALA has arrived!
- Portal terra populus

WA

NatureMap
Mapping Western Australia's biodiversity

NSW

BioNet in the website for the Atlas of NSW Wildliff

SA

NatureMaps

VIC

Victorian Biodiversity Atlas

TAS

Natural Values Atlas

Authoritative, comprehensive information on Tasmania's natural values

OLD

Wildlife Online

NT

* NR MAPS

https://naturemap.dpaw.wa.gov.au

http://www.bionet.nsw.gov.au/

https://data.environment.sa.gov.au/NatureMaps

https://vba.dse.vic.gov.au

https://www.naturalvaluesatlas.tas.gov.au

http://www.qld.gov.au/environment/plants-animals/species-list

http://nrmaps.nt.gov.au/

The Atlas of Living Australia

- A one-stop biodiversity data shop
- Launched in 2010
- Best of breed
 - > 55 million records
 - 200 collections
 - 3200 datasets
 - 180 institutions
 - 500 reference layers (national focus)
- >\$50M funding since 2006



State biodiversity portals

- A motley crew
- Various capabilities
- State focus
- Critical to core business
- 1-2 informatics specialists FTE per State
- < \$1-2M per State</p>
- Total national investment < \$20M</p>

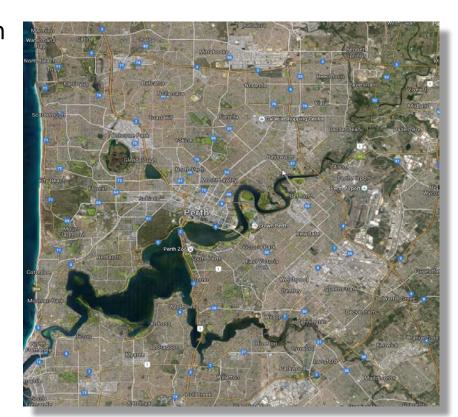


Which portal to use?

- ALA far and away the mostly capable tool
- Duplication of effort?
- □ Should I switch to ALA?
- Should we keep maintaining local portals?

A case study: threatened species in an urban environment

- Species occurrences within 10km of Perth GPO
- WA Herbarium collection
- Conservation taxa



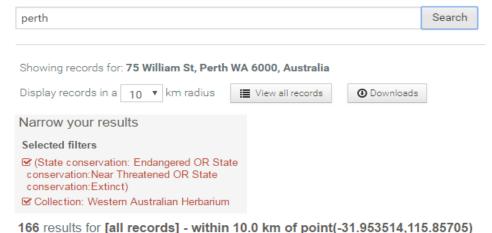
A case study (cont.)

- ALA workflow
- Enter location, view records
- Narrow results
- 166 records, 54 names



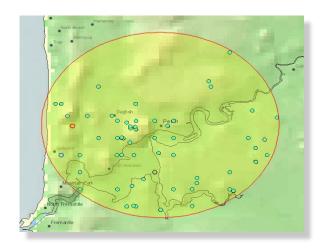
Explore Your Area

Enter your location or address:



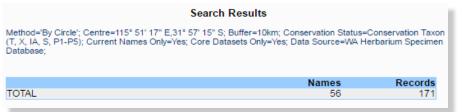
A case study (cont.)

- NatureMap workflow
- Enter location
- Narrow results
- 171 records, 56 names



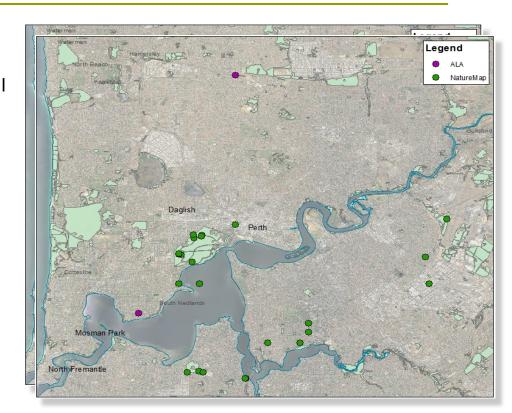
Welcome to NatureMap Where is What? and What is Where? Produce maps, lists and reports of WA's flora and fauna diversity. Search for species by name or by area.





A case study (cont.)

- ALA 58 names at 7 locations
- NatureMap 56 names at 67 locations
- Restrict to locations with < 100m spatial accuracy:</p>
- ALA 4 names at 2 locations
- NatureMap 18 names at 23 locations
- Discrepancy 1 3 km



Do not adjust your set

- There is no error
- Sensitive data management
- Compound generalisation?
- Other reasons for discrepancies
- Mediating and interpreting data
- States and open data policies
- Who cares?

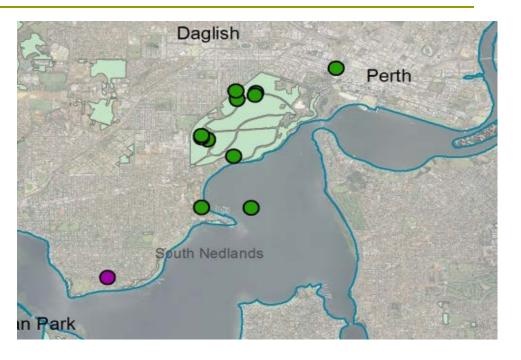
Scale makes a difference

- Banksia brownii at continental scale
- Accuracy still matters



Scale makes a difference (cont.)

Which side of the line matters!



Sensitive data

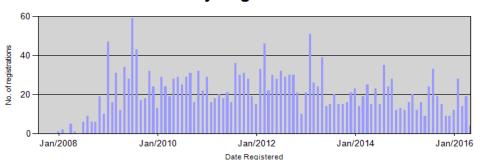
- Options
 - Mediate access to full resolution data (gatekeeper model)
 - Generalise coordinates
 - Anonymous locations
- Open data policies
- Is generalising good data management?
 - Depends on intended use
 - Inherent risks



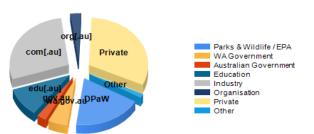
Who's using NatureMap?

- Registrations
- User types

Monthly Registrations



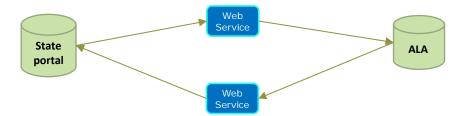
Registrations by Email Domain



Total registrations: 1798

Data repatriation

- ALA data now available to State providers at full locality resolution
- Significant advancement in comprehensiveness of State portals
- ALA is not just a research tool or visualiser
 - It's a data broker too



Differences between ALA and States

- Different regulatory frameworks with different accountabilities
- States:
 - Duty of care
 - Conservation focus
 - Parochial focus
 - Create and curate

□ ALA:

- Research and citizen science focus
- Harvests and brokers data
- National focus
- The ALA is sexy





W(h)ither the State portal?

- Using local instance of ALA is not realistic
- Maintain local portal
- Focus on content and accessibility rather than capability
 - Except where high-priority business or regulatory environment requires it
- Complement, not compete



Advantages

- Minimise data loss
- Good risk management
- Customise portal to service local clients
- Improves data quality

Which portal to use?

- Use a State portal if: NatureMap
 - You need to know which side of the line a species is
 - You need threatened species raw locality details (data may not necessarily come from portal)
 - You deal with many State-based layers
 - You need as many records as possible
- Use ALA / Aekos if:



- You need a research tool par excellence
- You're modelling species distributions (esp. continental distributions)
- You aren't specifically focussing on threatened species
- You're generally exploring data
- You want to have more fun

