



# Environmentally Sustainable Australia

Atlas of Living Australia presentation to Environmentally Sustainable Australia Expert Working Group

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Canberra, 24 February 2011

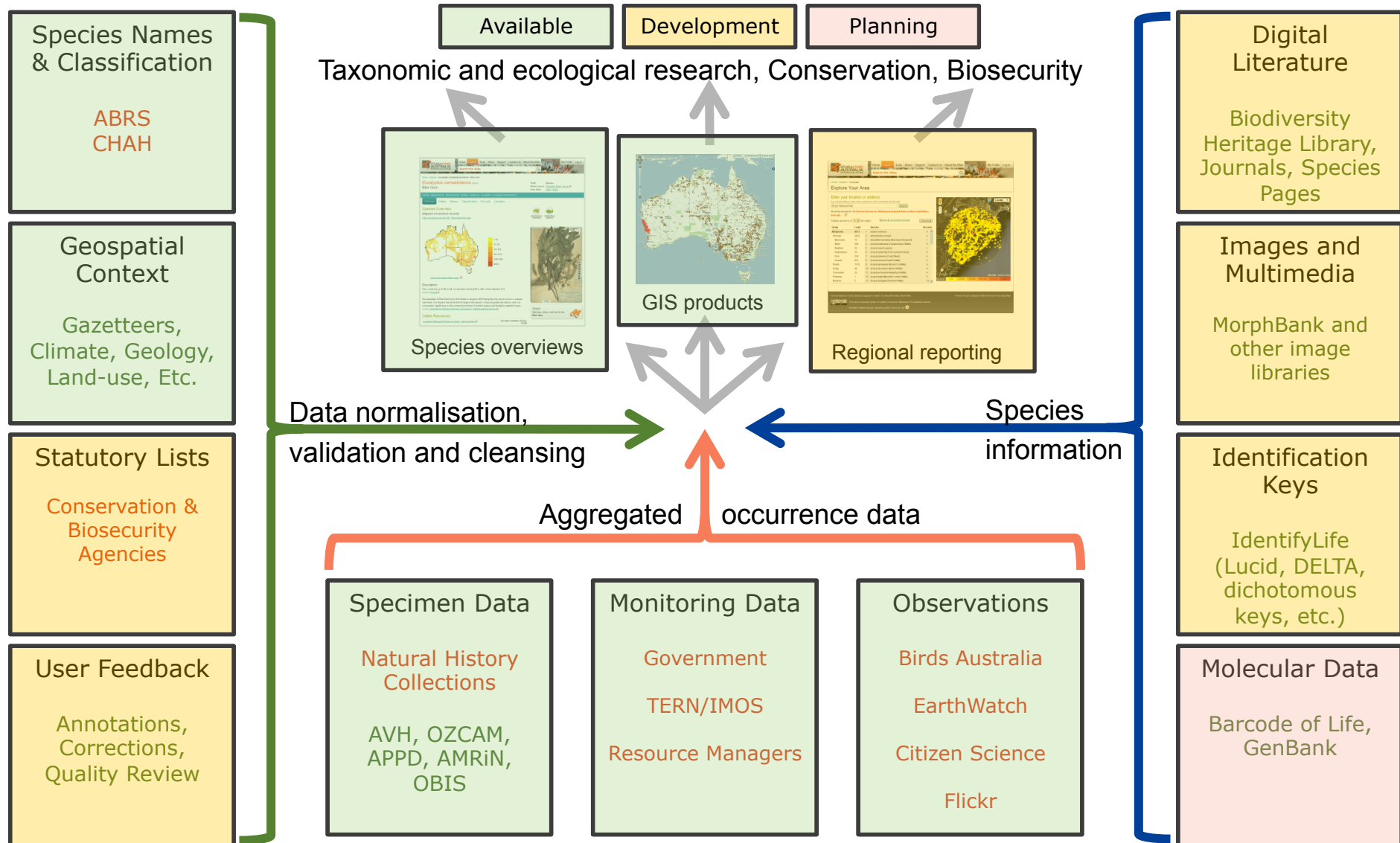


# ALA - current investment

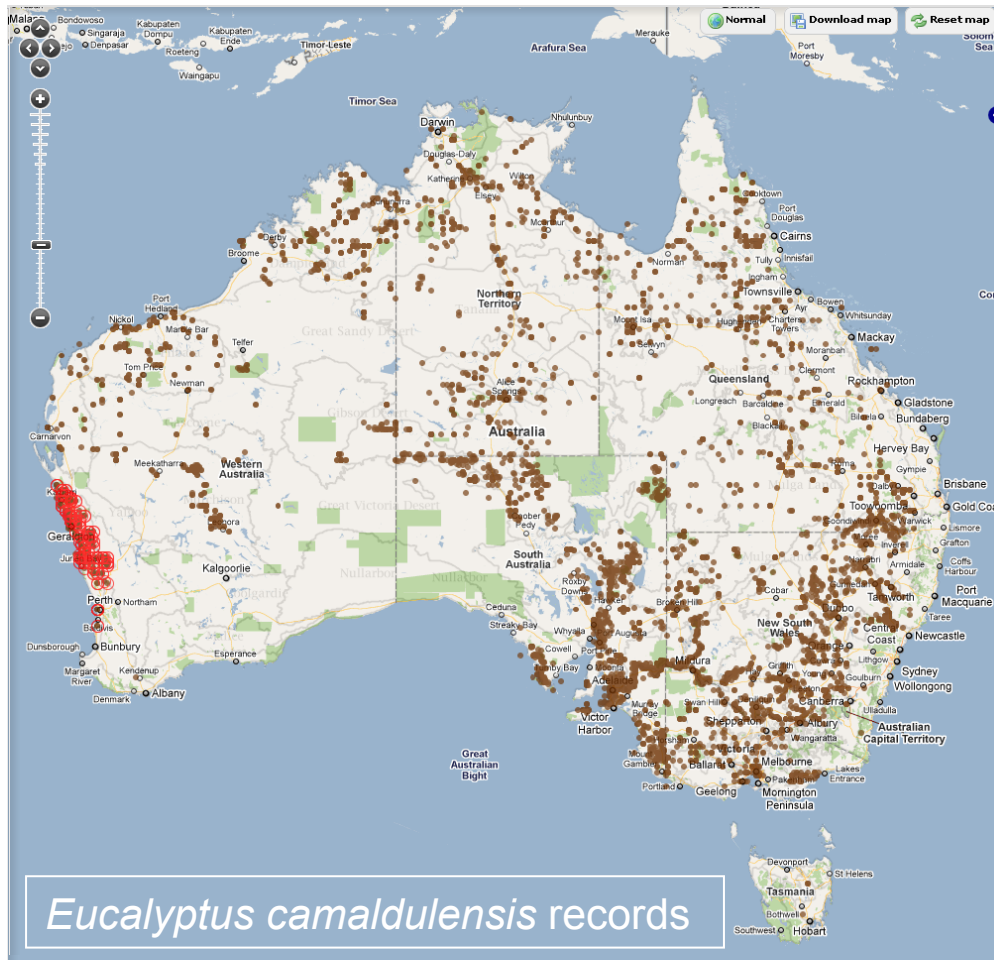


- Australian Government funding to June 2012
  - NCRIS 2006-2011: \$8.2M
  - EIF Super Science 2009-2012: \$30.0M
  - ALA partner in-kind contributions: \$26.5M
- Mission
  - To develop an authoritative, freely accessible, distributed and federated biodiversity data management system
- Partners
  - **Representative bodies:**
    - Council of Heads of Australasian Herbaria
    - Council of Heads of Australian Faunal Collections
    - Council of Heads of Australian Entomological Collections
    - Council of Heads of Australian Collections of Microorganisms
    - Council of Australasian Museum Directors
  - **State museums:**
    - Australian Museum
    - Museum and Art Gallery of the Northern Territory
    - Museum Victoria
    - Queensland Museum
    - South Australian Museum
    - Tasmanian Museum and Art Gallery
    - Western Australian Museum
  - **Government:**
    - **CSIRO – lead agent**
    - Department of the Environment, Water, Heritage and the Arts
    - Department of Agriculture, Fisheries and Forestry
  - **Universities:**
    - Southern Cross University
    - University of Adelaide

# ALA Resources and Services



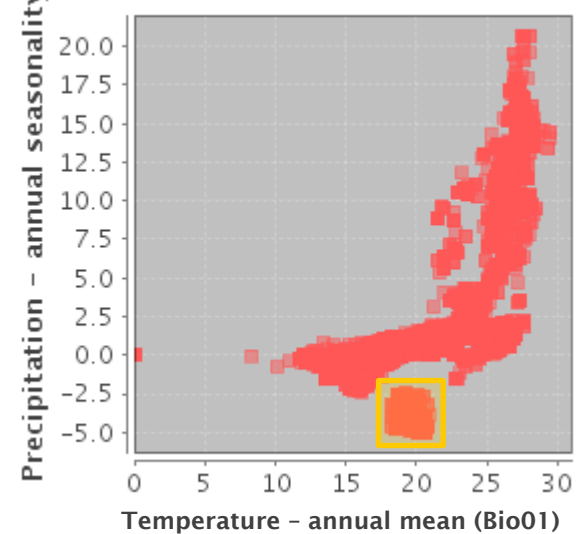
# Example – environmental exploration



Map localities onto environmental parameters



## *Eucalyptus camaldulensis*



Select records by environmental envelope

# Example – contextual identification



## Explore Your Area

### Enter your location or address

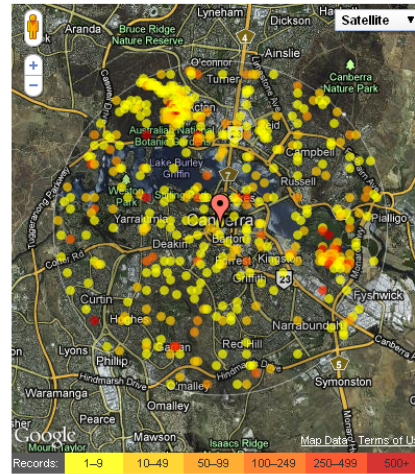
E.g. a street address, place name, postcode or GPS coordinates (as lat, long)

Canberra

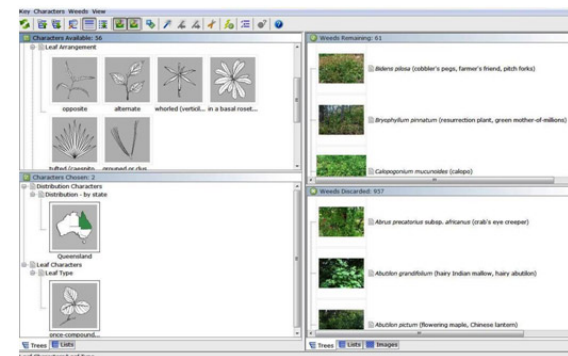
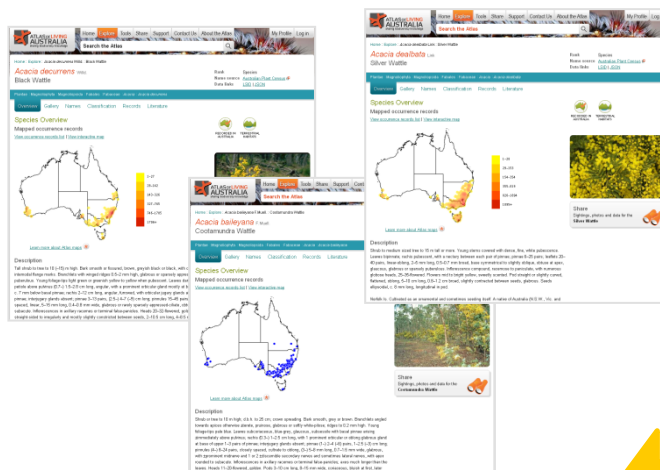
Showing records for: **1 Capital Cir, Capital Hill ACT 2600, Australia**

Display records in a **5** km radius

Group	Count	Species	Records
<b>All Species</b>	<b>2811</b>		
Animals	627	2. <i>Acacia baileyana</i> x <i>decumens</i>	2
Mammals	23	3. <i>Acacia baileyana</i> (Cootamundra Wattle)	14
Birds	264	4. <i>Acacia beckleri</i> (Barrier Range Wattle)	1
Reptiles	22	5. <i>Acacia brachybotrya</i> (Grey Mulga)	1
Amphibians	7	6. <i>Acacia buxifolia</i> <i>buxifolia</i>	1
Fish	1	7. <i>Acacia buxifolia</i> <i>buxifolia</i>	32
Insects	271	8. <i>Acacia buxifolia</i> (Box-leaf Wattle)	2
Plants	1535	9. <i>Acacia covenyi</i> (Blue Bush)	1
Fungi	212	10. <i>Acacia cultiformis</i> (Knife-leaf Wattle)	3
Chromista	0	11. <i>Acacia dawsonii</i> (Dawson Wattle)	2
Protozoa	10	12. <i>Acacia dealbata</i> <i>dealbata</i>	6
Bacteria	0	13. <i>Acacia dealbata</i> (Silver Wattle)	7
		14. <i>Acacia deanei</i> (Deanes Wattle)	2



## List of Acacia species in area

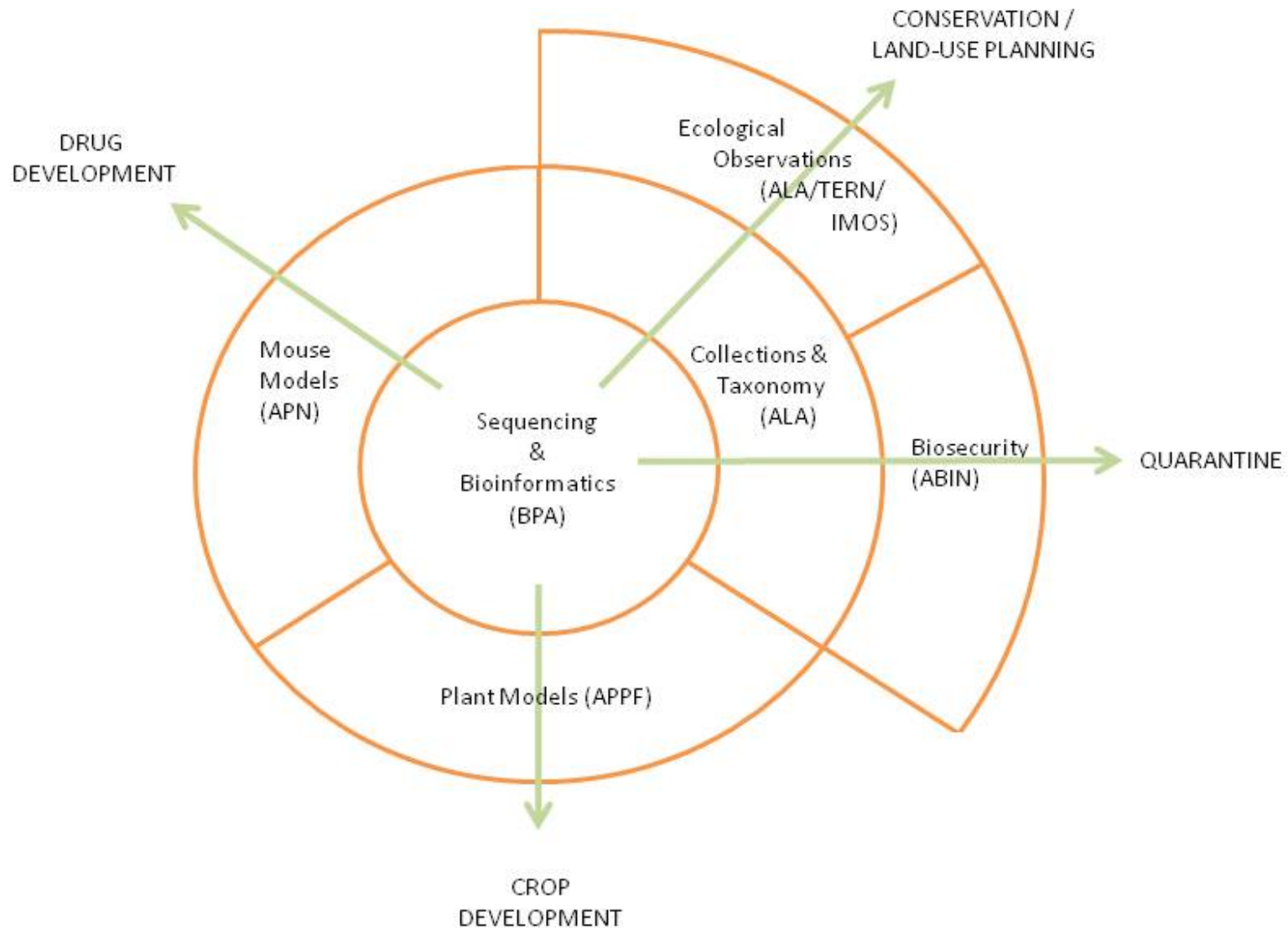


Key to listed species

Links to aggregated species information



# Broader NCRIS linkages



# Environmentally Sustainable Australia



- Aggregation of information on all Australian taxa
  - Includes native and non-native, marine and terrestrial
- Integrated data management
  - Occurrence data from all sources
  - Consistent management, quality control and presentation
  - Faceted exploration of data (by species, data source, etc.)
  - Integration with environmental data
  - Data download
  - Platform for integrating analytical software
- Support for citizen science and community involvement
  - Field observations
  - Reports and tools for land managers and communities
- Close linkages with TERN and IMOS
  - Common data standards and software components
  - Liaison in developing common architecture



ATLAS OF **LIVING**  
**AUSTRALIA**  
sharing biodiversity knowledge



**Australian Government**  
Department of the Environment, Water, Heritage and the Arts



**Australian Government**  
Department of Agriculture,  
Fisheries and Forestry



**An Australian Government Initiative**  
**National Collaborative Research**  
**Infrastructure Strategy**