

# Atlas of Living Australia

NAMES,

**AND** 

**DESCRIPTIONS** 

www.ala.org.au

The Atlas of Living Australia (ALA) is a partnership of Australian scientific institutions and organisations, funded under the Australian Government's National Collaborative Research Infrastructure Strategy (NCRIS).

The ALA is developing a data management system to catalogue and organise information relevant to the study of Australia's biodiversity.

The project will bring together information from a wide variety of sources, including many of the country's most significant natural history collections and herbaria, ecological and observational data sets, images, online literature, diagnostic tools and molecular data.

Over the next few years, the ALA will deliver a range of tools to enable anyone in the world to discover, access and analyse information on Australia's fauna and flora.



**An Australian Government Initiative** 

**National Collaborative Research Infrastructure Strategy** 

# Sources of biodiversity data

**SPECIMENS AND OBSERVATIONS** 



**CLASSIFICATIONS** 



**MOLECULAR AND IMAGES AND MULTIMEDIA** PHENOMIC DATA



# Atlas of Living Australia

DATA IN STANDARDISED FORMATS

### METADATA DESCRIBING RESOURCES

**METADATA REPOSITORY** 

• resource description

ownership

access rules

keywords and

vocabularies

#### NAME INDEX

- scientific names
- common names
- synonyms
- classifications

**ANNOTATION TOOLS** 

dynamically generated

SPECIES PAGES

- links to data resources
- links to GIS mapping tools image thumbnails

# **IDENTIFICATION TOOLS**

- links to online keys • links to taxonomic
- literature diagnostic images

### **OCCURRENCE INDEX**

- by species
- by latitude & longitude
- co-ordinate precision
- standard values

### **REGIONAL ATLAS**

- geo-referenced data
- integrated GIS layers summary by region

## **WEB SERVICES**

disease?

Uses of biodiversity data

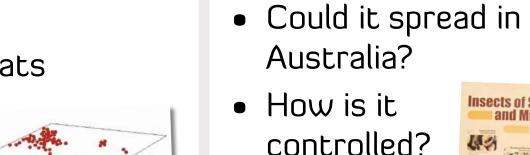
**BIOSECURITY** 

• What is this organism?

Does it carry or cause

## LAND USE PLANNING

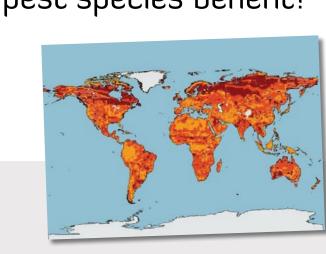
- Which species occur here?
- Are they at risk? How can impacts
- be minimised?
- How can habitats be restored?





#### **CONSERVATION &** CLIMATE CHANGE

- Which species will be affected?
- How will their distribution be affected?
- Will populations be able to relocate?
- Will pest species benefit?



# The ALA is working with its partners to develop a set of tools to support research in biodiversity.

- A registry of information resources on Australian biodiversity
- Interfaces to authoritative checklists of Australian species
- Search interfaces to locate information by species, topic, local region and other categories
- Tools to compare species and identify organisms
- Overview pages for every Australian species
- Tools to map and analyse the occurrence of Australian organisms
- Tools to capture and store observations and userprovided data
- Tools to link molecular data with other species information
- Tools to collect and integrate user comments
- Linkages to international data sharing projects
- Collaboration with the Australian agencies and organisations developing software

**CONTACT US** 

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