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The Atlas of Living Australia: 2014 perspective

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Director Atlas of Living Australia



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Focus of symposium

- First – thanks for coming
- Last year's symposium
 - What has been achieved
 - How people are using it
- This year's symposium
 - Still some focus on achievement
 - But also a look at new things we are doing, and some future vision
 - You will see things that aren't finished or have barely started
 - Chance for you as stakeholders to get involved
 - Two plenary sessions

Where to next

- Where we are going
 - Environmental monitoring and reporting
 - Phylogeny – visualising evolutionary relationships
 - Citizen science
 - Virtual taxonomy
 - Creating shared workspaces and improved workflows for taxonomists
 - eMonographs / dynamic publication
 - Indigenous knowledge
 - Collection images
 - Searching, creating image libraries
 - Educational content
 - Biosecurity

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 - Biosecurity
- With so many possibilities we need to prioritise!

Stakeholder Workshop



Atlas of Living Australia ThinkCamp

27 February 2014



Level M 55 Wentworth Avenue Kingston ACT 2604

Stakeholder Workshop

Idea Themes

Using a design approach, the workshop participants worked in groups to identify themes that help address the challenges and opportunities. These were further divided into 3 broad categories:

1 Better Operation

1.1 Quality

1.2 Identify and Close Gaps

1.3 User and Usage Insights

2 Strategic approach

2.1 Business model, funding and operations

2.2 Connectivity

2.3 Policy Framework and insights

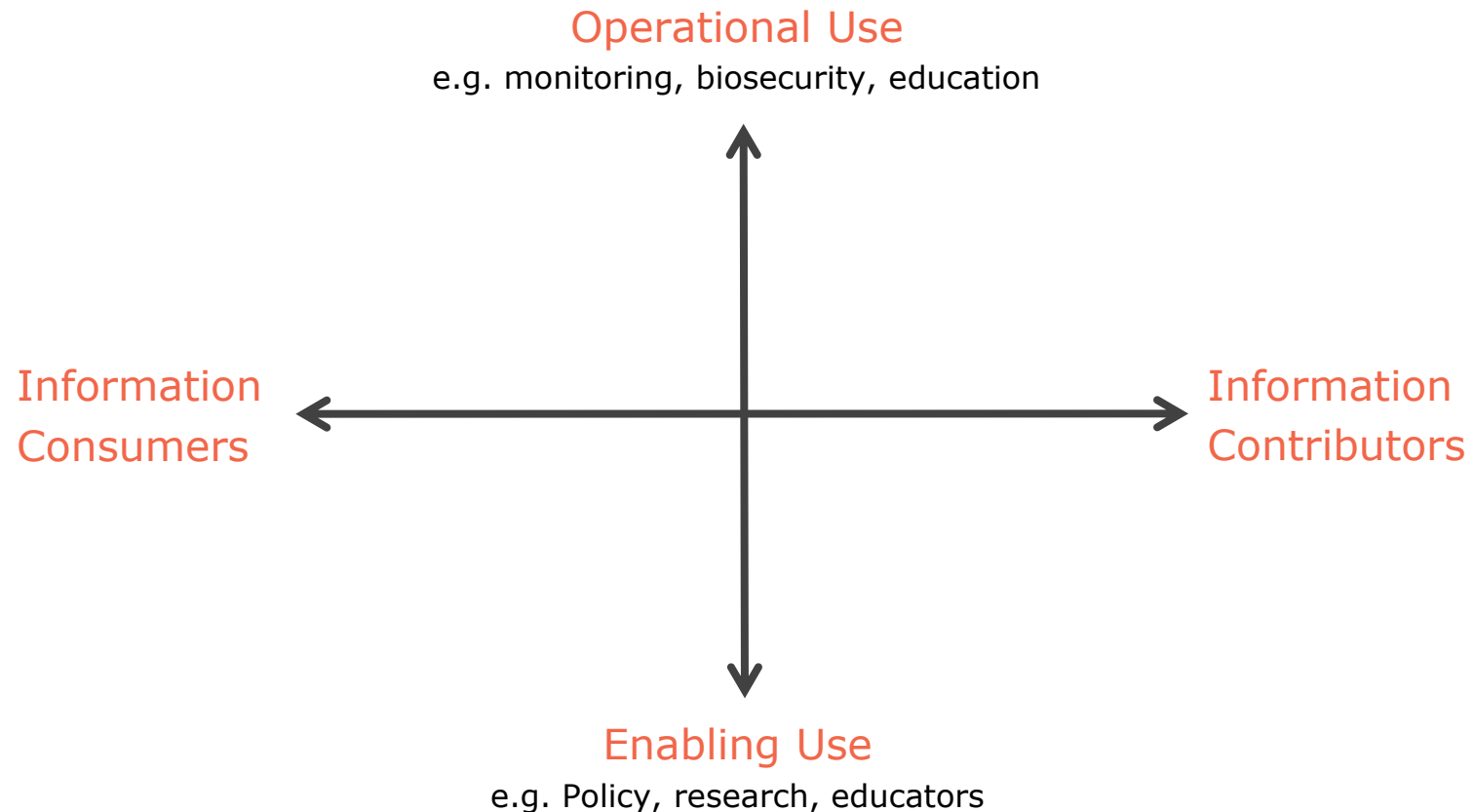
2.4 Taxonomy Australia

3 Extending impact

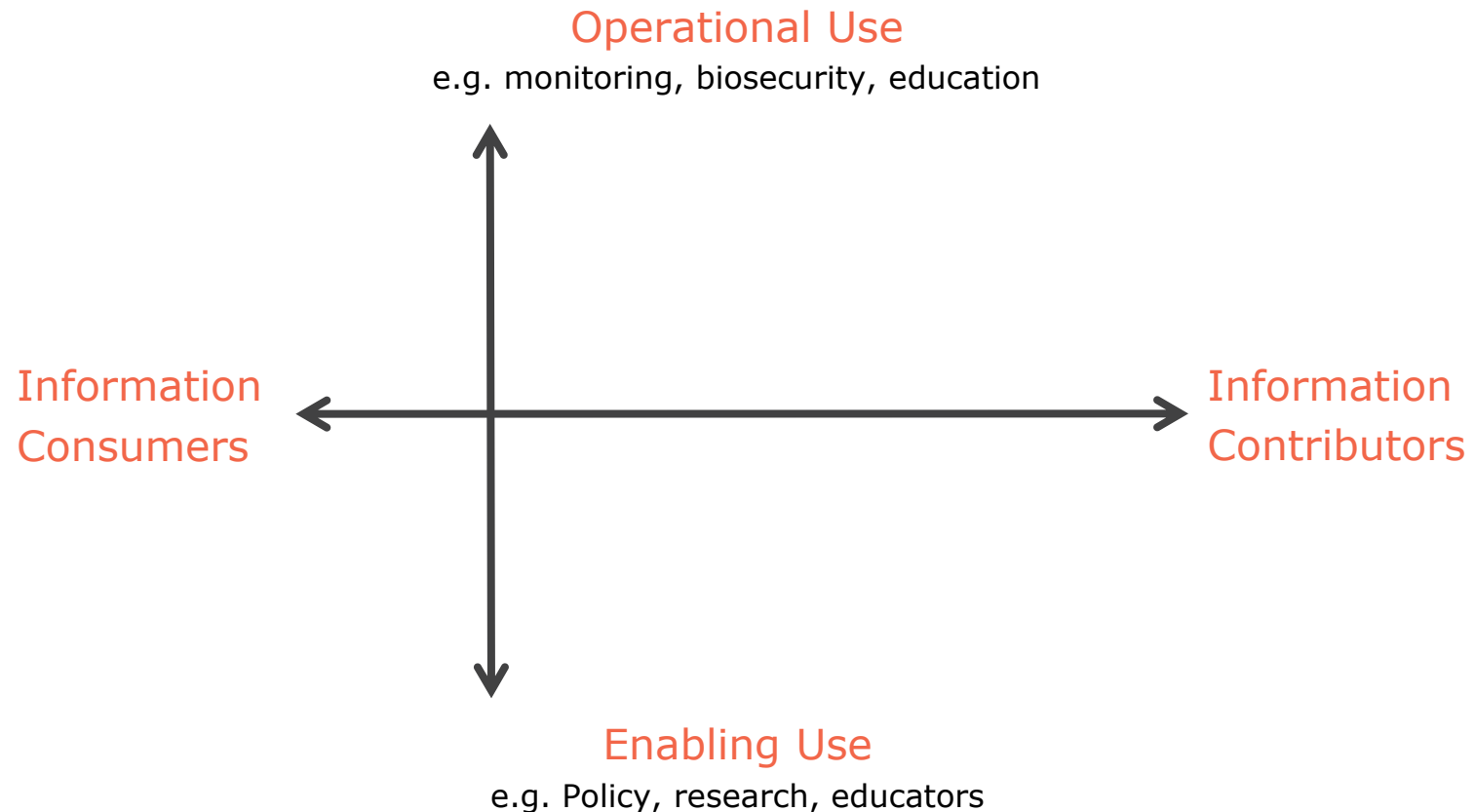
3.1 New users

3.2 Citizen Science

3.3 Mobile Tools



Users/contributors



Home : Dashboard
HINT: You can rearrange topics by clicking and dragging them.

Show raw data Download as CSV



Occurrence records

50,156,736

records in total.

We estimate the number of potential duplicate records to be 6,599,837.

Data sets 765

Harvested websites	110
Occurrence record sets	333
Document sets	19
Uploaded record sets	45

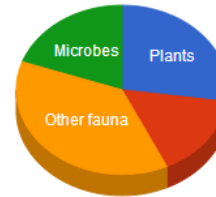
Most recently added dataset is *Business diversity meets biodiversity*

Basis of records

Human observation	37.15M
Preserved specimen	9.66M
Machine observation	325,981
Genomic DNA	154,529
Image	102,930
Living specimen	51,445
Fossil specimen	22,114

more..

Collections 147



Records by date

Latest record	5 June 2014
Last image added	23 May 2014
1600s	24
1700s	8,357
1800s	362,244
1900s	24.34M
2000s	20.54M

National Species

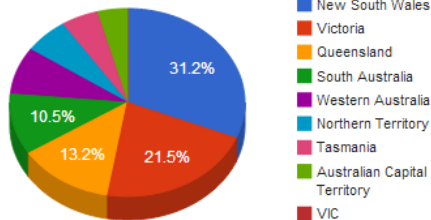
- Accepted names
- Synonyms
- Species names
- Species with records

Spatial layers 413

Contextual layers	87
Environmental/grided layers	326
Terrestrial layers	376
Marine layers	25

more..

Records by state and territory



Identify Life

Identification keys:



532

Most recorded species

<i>Cracticus tibicen</i> - Australian Magpie	625065
<i>Grallina cyanoleuca</i> - Magpie-lark	493013
<i>Rhipidura (Sauloprocta) leucophrys</i> - Willie Wagtail	461175
<i>Malurus (Malurus) cyaneus</i> - Superb Fairy-wren	374274
<i>Eolophus roseicapillus</i> - Galah	366458
<i>Zosterops lateralis</i> - Silvereye	356918

all lifeforms ▾

Type specimens 141,326

Holotypes	26213
Lectotypes	825
Neotypes	159
Isotypes	6

Types with images 7457

more..

Barcode of life



DNA barcode data

Records	606,922
Species	37,557
Countries	220
Institutions	790

Biodiversity heritage library



Pages	38.43M
Volumes	104,461
Titles	55,000

Biodiversity volunteer portal

Specimen labels transcribed	26,058
Fieldnotes pages transcribed	2,869
Volunteers	467
Projects active	42
Projects completed	15

Conservation status

Status	# species
Endangered	3783
Near Threatened	5673
Least Concern/Unknown	475
Listed under FFG Act	11
Extinct	192
Parent Species (Unofficial)	0

Records by data provider

Bird life Australia	12.58M
Office of Environment and...	6.94M
Australia's Virtual Herbarium	4.96M
OZCAM (Online Zoological...	3.43M

Records by institution

Australian Museum	1.12M
Centre for Australian National...	945,049
Royal Botanic Gardens Melbourne	850,730
Western Australia, Department...	752,746

Records by lifeform

Algae	45,973	FernsAndAllies	390,568
Amphibians	426,924	Fish	1,298,576
Angiosperms	10,776,335	Fungi	324,933
Animals	36,667,313	Gymnosperms	70,027

Records and species by decade



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National Species

- Accepted names
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- Species with records

Spatial layers 41

- Contextual layers
- Environmental/grided layers
- Terrestrial layers
- Marine layers

more..

	2013	2014
Number of occurrence records	40 Million	50 Million
Number of data sets	521	765
Number of records downloaded	535 Million	1.87 Billion

Type specimens 14

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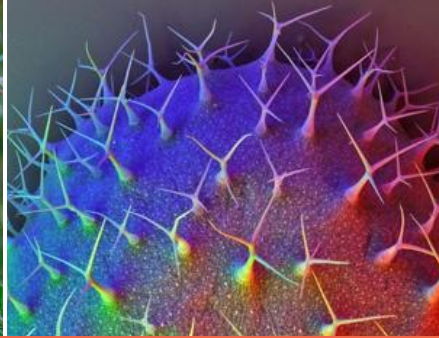
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Acknowledgments

- NCRIS/CRIS/EIF for funding (now Dept of Education)
 - And increasingly others such as Dept of Environment
- Many members of the Australian biological collections community for vision and foresight
- All the partners/collaborators
- All the data providers
- CSIRO for serving as the Administrative Lead Agency
- AND - the dedicated team who designed and developed the Atlas



The Atlas of Living Australia Team – or some of it...

www.ala.org.au

Thank you



ATLAS OF **LIVING**
AUSTRALIA
sharing biodiversity knowledge



An Australian Government Initiative
National Collaborative Research
Infrastructure Strategy