GBIF
www.gbif.org

Training course on biodiversity data publishing and fitness-for-use in the GBIF Network, 2011 edition

Practical Example of Data Mobilization Planning: The Atlas of Living Australia

Presenter (email)
Role
Organization

Buenos Aires (Argentina)
29 September 2011

INTERNATIONAL YEAR OF FORESTS • 2011

Summary

This presentation shows the case of the user needs analysis exercise that the Atlas of Living Australia commissioned to find out how it can support these users.

This example could inspire others planning to start similar exercises, or to refine the ones that they have already started. The information compiled here mainly comes from the public report derived from this analysis.

The Atlas of Living Australia (2008). Atlas of Living Australia, User Needs Analysis, released November 2008. Accessible online at http://www.ala.org.au/about/communications-centre/publications/user-needs-analysis-report/

GBIF
www.gbif.org

ATLAS OF LIVING AUSTRALIA

INTERNATIONAL YEAR OF FORESTS • 2011

Outline

Aim

Method

Results

Other initiatives and experts

References

Outline

Aim

Method

Results

Other initiatives and experts

References

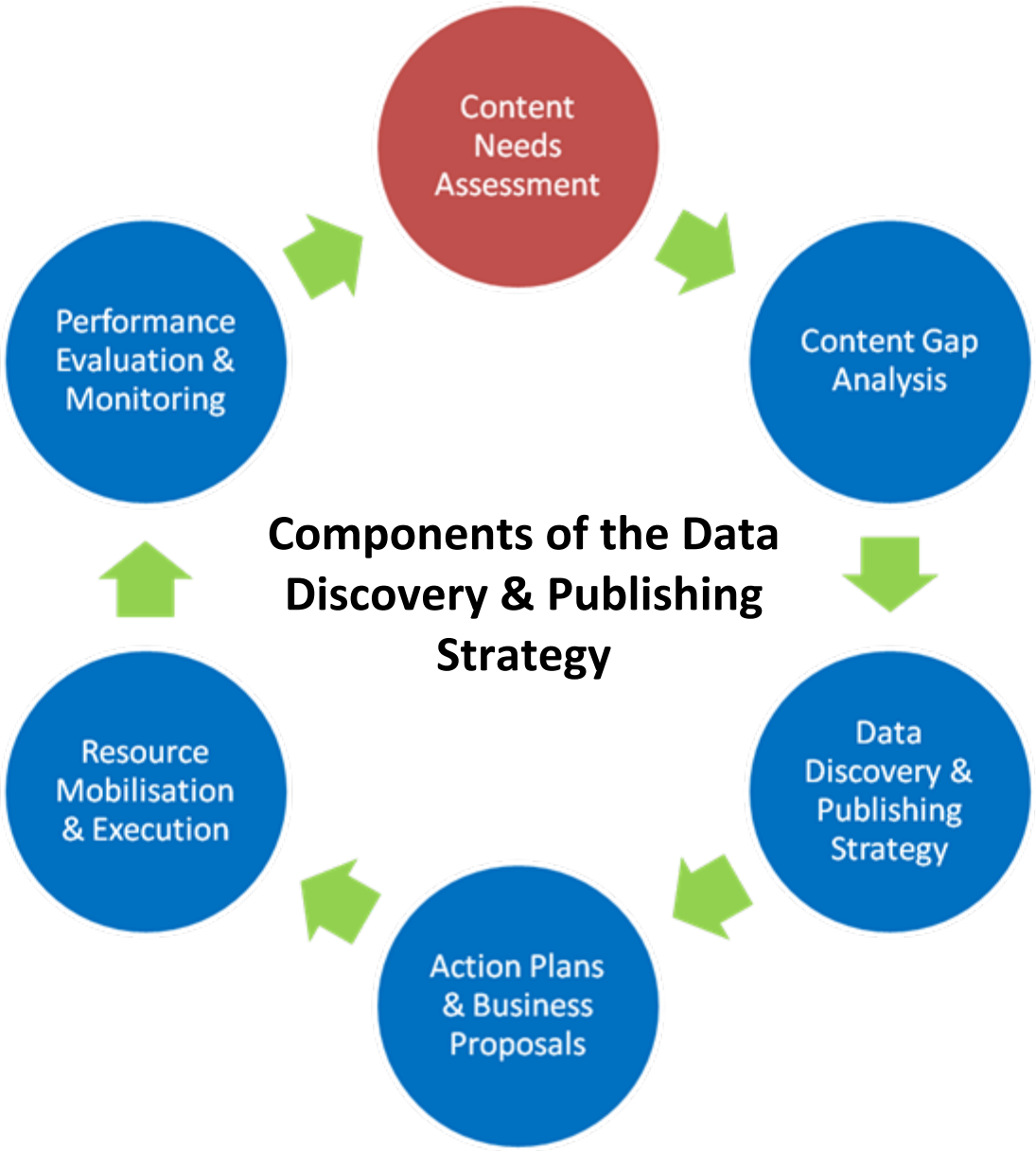
Aim

"*This study aims to locate a strong base of **use cases** that will be the foundation for building and maintaining the ALA. It has a focus on uncovering how biodiversity data is **discovered** and **used** by a wide variety of users and organisations. By investigating the workflow and revealing the needs and difficulties of data users, this study will help guide the **priorities** of the ALA in making data available and relevant.*"

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Aim



GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Outline

Aim

Method

Results

Other initiatives and experts

References

Outline

Aim

Method

Results

Other initiatives and experts

References

Method

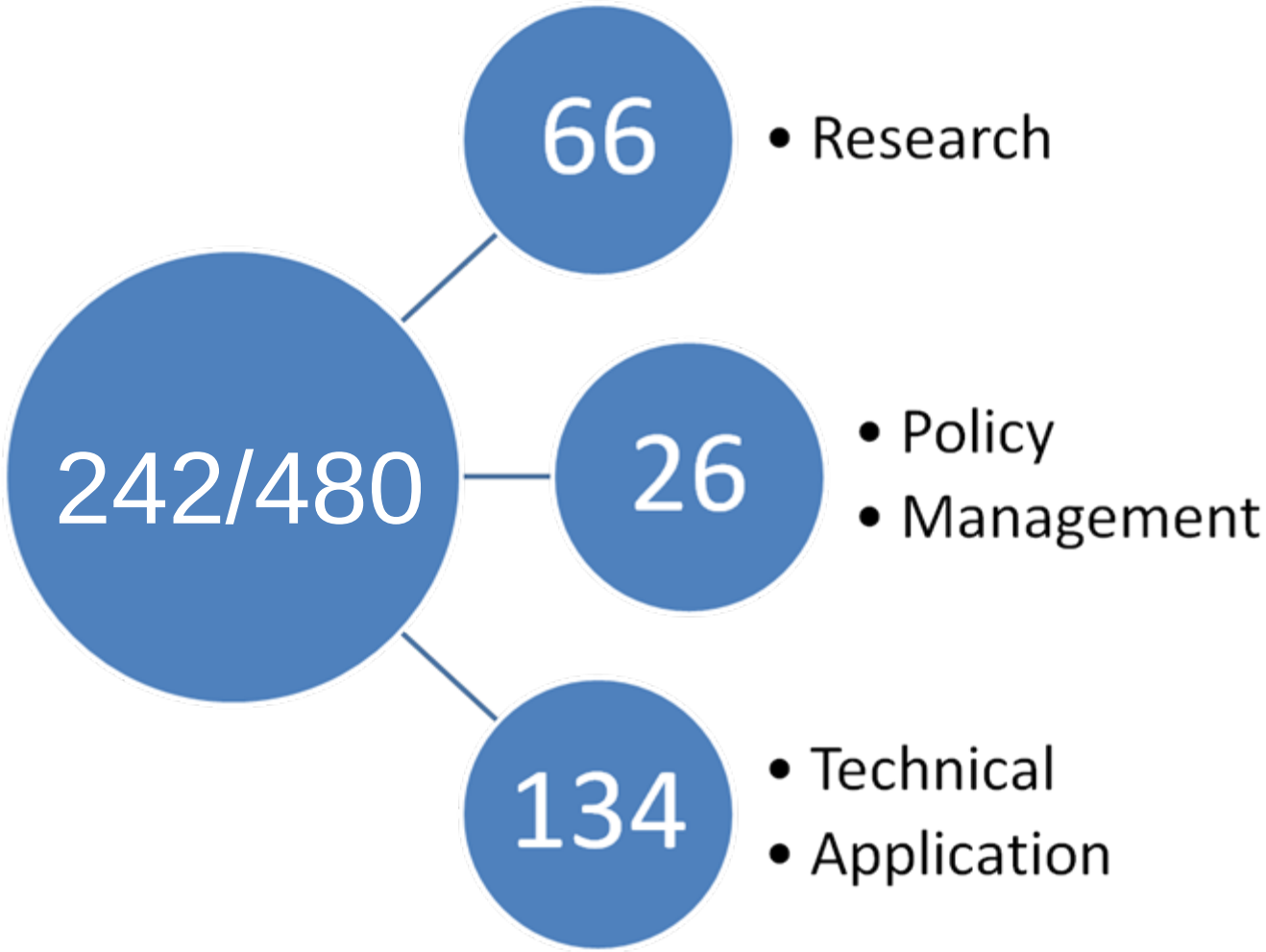
5 Phases:

- Email survey 
- Workshops
- Personal interviews
- Longitudinal study
- Conference discussion sessions

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: email survey, respondents



GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Number respondents to the survey, categorized

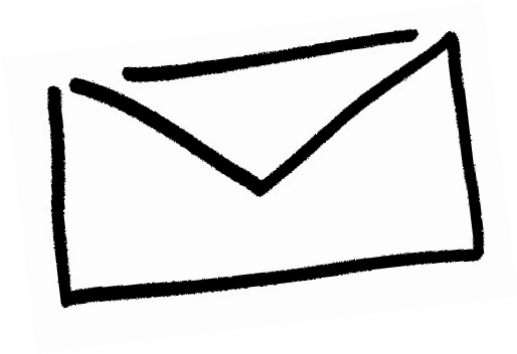
Method: email survey, respondents

Professionals

Students

Amateurs

Free-lancers



Governmental organizations

Non-governmental organizations

Private consultancies

Research and teaching institutes

Special interest groups

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: email survey, respondents

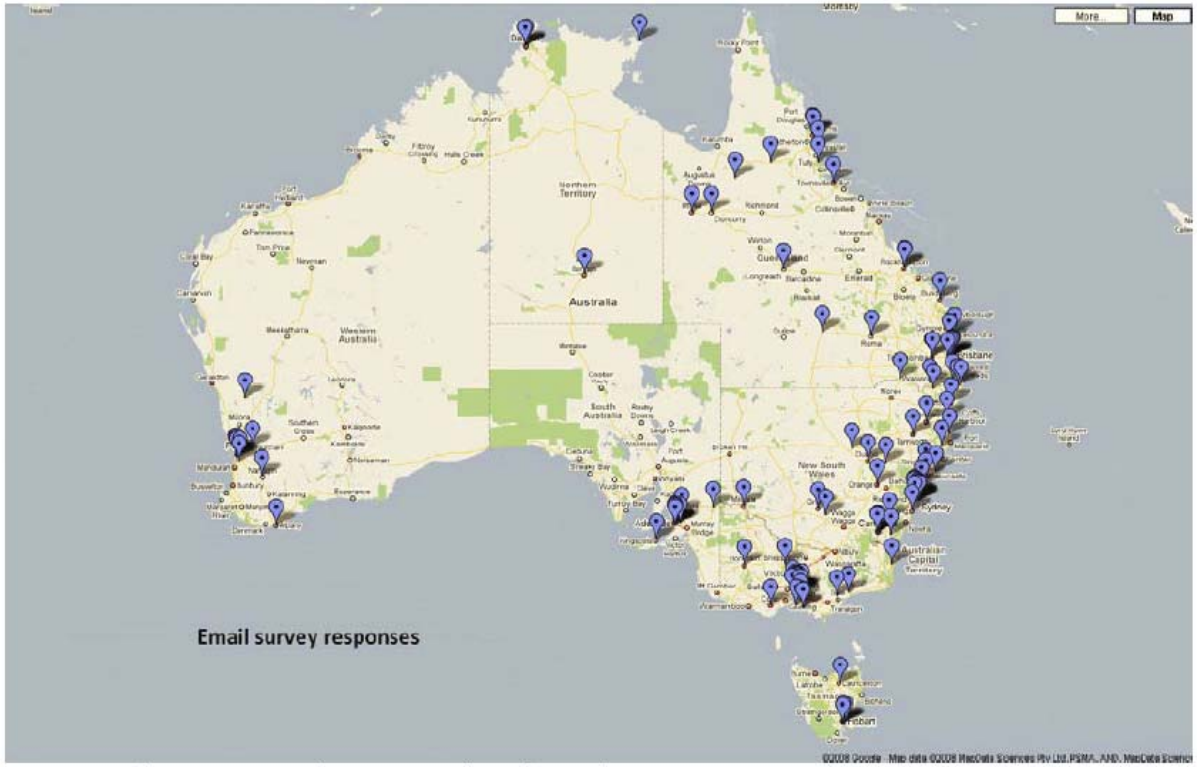


Figure 2 Email responses came from 242 people working in locations across Australia.

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: email survey

Open questions:

1. **What** biodiversity data do you currently use?
2. When looking for biodiversity data **where** do you tend to go?
3. Can you give an example of a task, process or application where you use biodiversity data to achieve an **outcome** that is core to your work or study?
4. If you create biodiversity data, tell us briefly about the **data** you create
5. Do you make your data **available** to others? If so, in what **form**?
6. **Other comments**:

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: email survey

Table 1 Uses of biodiversity data

Use of biodiversity data	example
Geographical area	
Marine	fishing
Murray-Darling basin	multi-state, multi-party, multi-stakeholders
Wilderness	management
World heritage	international obligations
Urban environment	local impacts
Deserts	management
Alpine	climate change
Antarctica	research in an area of low human occupation
Islands	vermin-free areas
Rivers	impact of upstream storage
Tropics	health of coral reefs
Wetlands	dependencies
Subject	
Climate change	mapping future distributions
Modelling	planning
Taxonomy	names checklist
Collaboration	multi-party research
Agriculture	sympathetic farming
Forestry	future planning
Ecology	biodiversity richness
Aboriginal connections	past land use practices
Natural extremes	bushfire, flood, cyclone, drought - management
Education	primary, secondary, tertiary
Legal	environmental law
Human health	snake bite
Plant / Animal diseases	agriculture
Restoration – habitat, bush	mining
Historical change	restoration
Collections – plant, animal, other	herbaria, museums, culture collections
Observations	bird watchers
Invasive species	weed common names
Threatened species	distribution
Commercial uses	copyright of descriptions
Quarantine	prompt identification
Genetics	link to species

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: workshops

3 workshops

Small groups

Common and individual themes

Recorded and analyzed

Focused on:

- Workflows
- Needs
- Difficulties

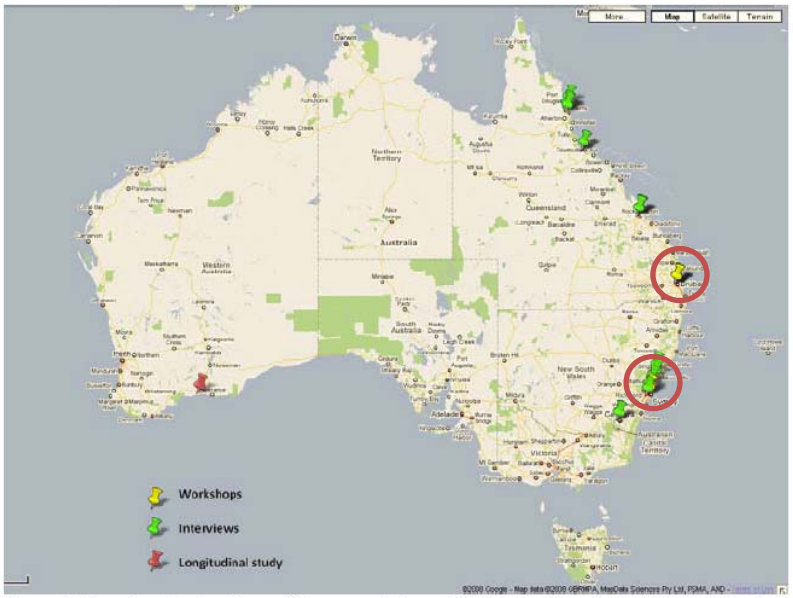


Figure 1 Map showing locations of three workshops, 20 interviews and a longitudinal study.

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: interviews

Telephone and in person

People far from cities

Approx. 1 hour

Focused on:

- Workflows
- Needs
- Difficulties

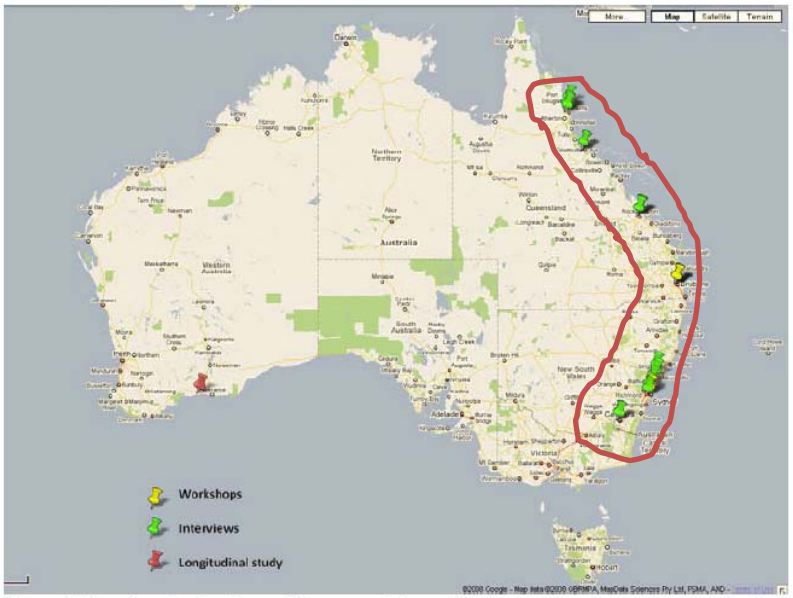


Figure 1 Map showing locations of three workshops, 20 interviews and a longitudinal study.

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: longitudinal study

Environmental Consultancy

Environmental assets of 3 shires SW

Practical example of data gathering and assembly

Figure 1 Map showing locations of three workshops, 20 interviews and a longitudinal study.

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: conference sessions

Preliminary results presented

6 workgroups organized

100 people involved

1,5 hours

Chaired by 1 person familiar with ALA & 1 expert

Biodiversity Information Standards TDWG

TDWG Taxonomic Databases WORKING GROUP

GBIF www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: conference sessions, topics

Distribution analysis

Site assessment

Identification

Maintaining web databases

Recording amateur observations

Including Sensitive Data

Biodiversity Information Standards TDWG

TDWG Taxonomic Databases WORKING GROUP

GBIF www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Method: conference sessions

Questions addressed:

What data need to be mobilized?

How can they be mobilized?

What data integration services are required?

What user interfaces and applications would benefit users?

Biodiversity Information Standards TDWG

TDWG Taxonomic Databases WORKING GROUP

GBIF www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Outline

Aim

Method

Results

Other initiatives and experts

References

Outline

Aim

Method

Results

Other initiatives and experts

References

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Results, data used

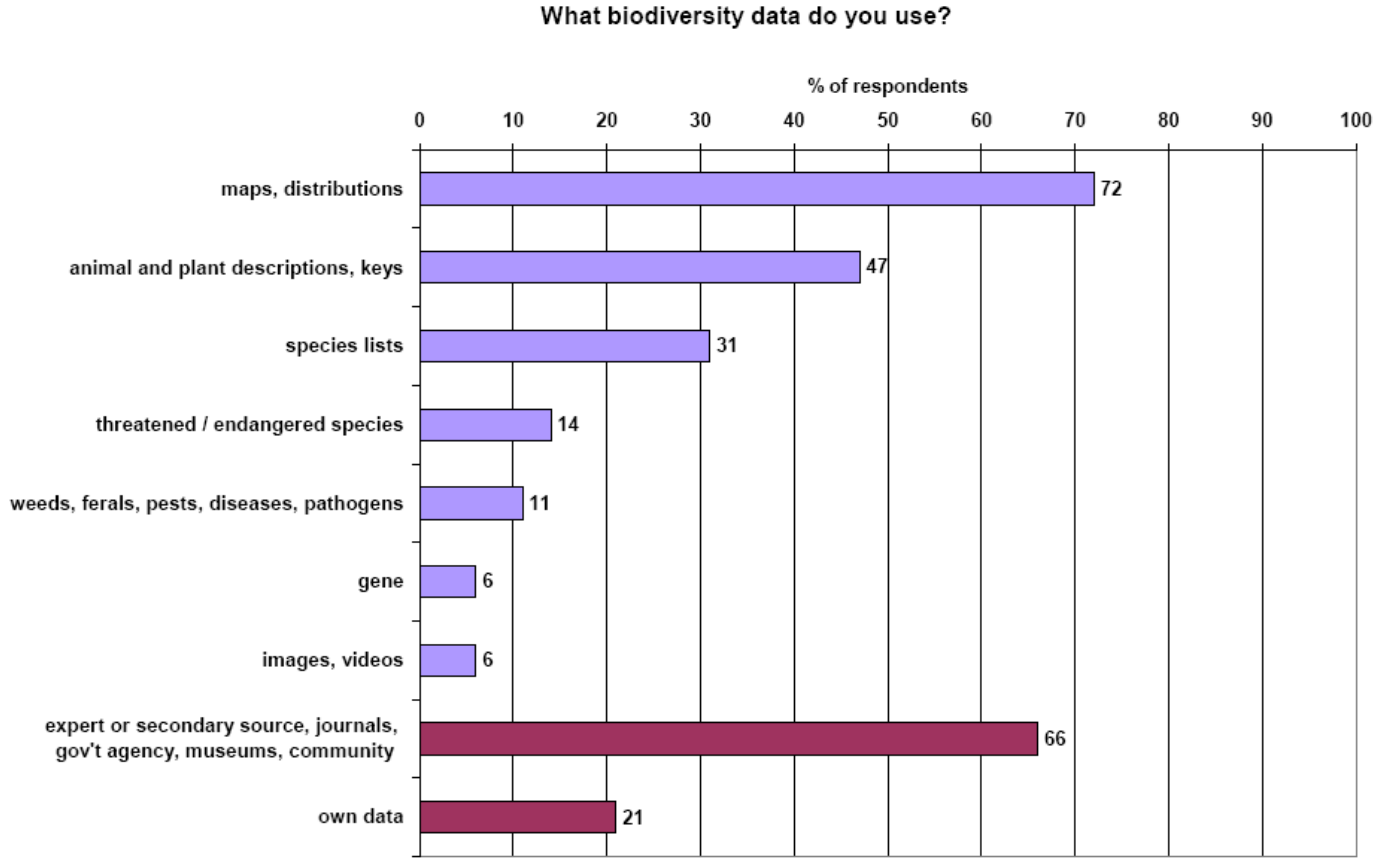
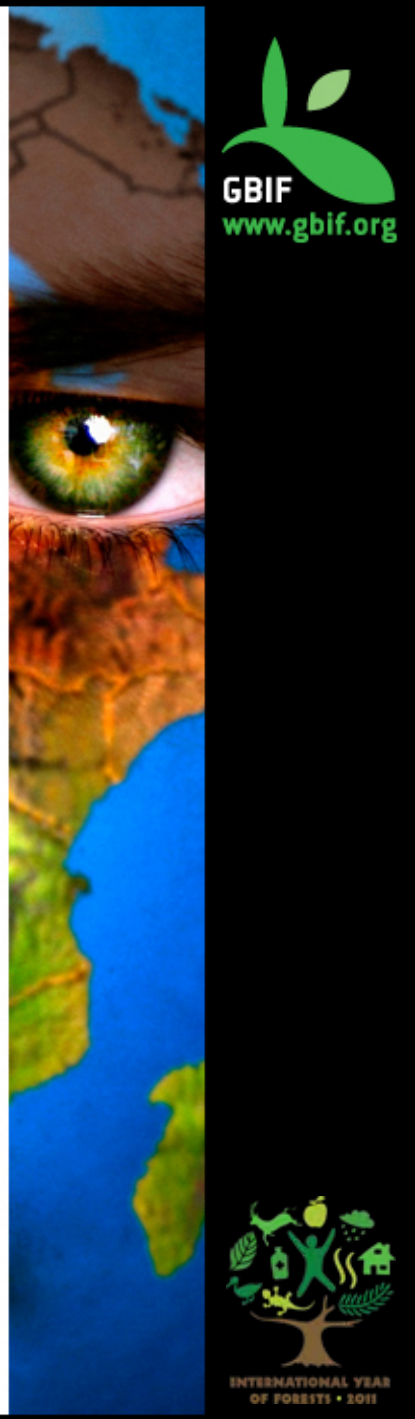


Chart 1 Survey responses showing the biodiversity data used. The responses in red potentially indicate the holder owner of data.



GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Results, sources

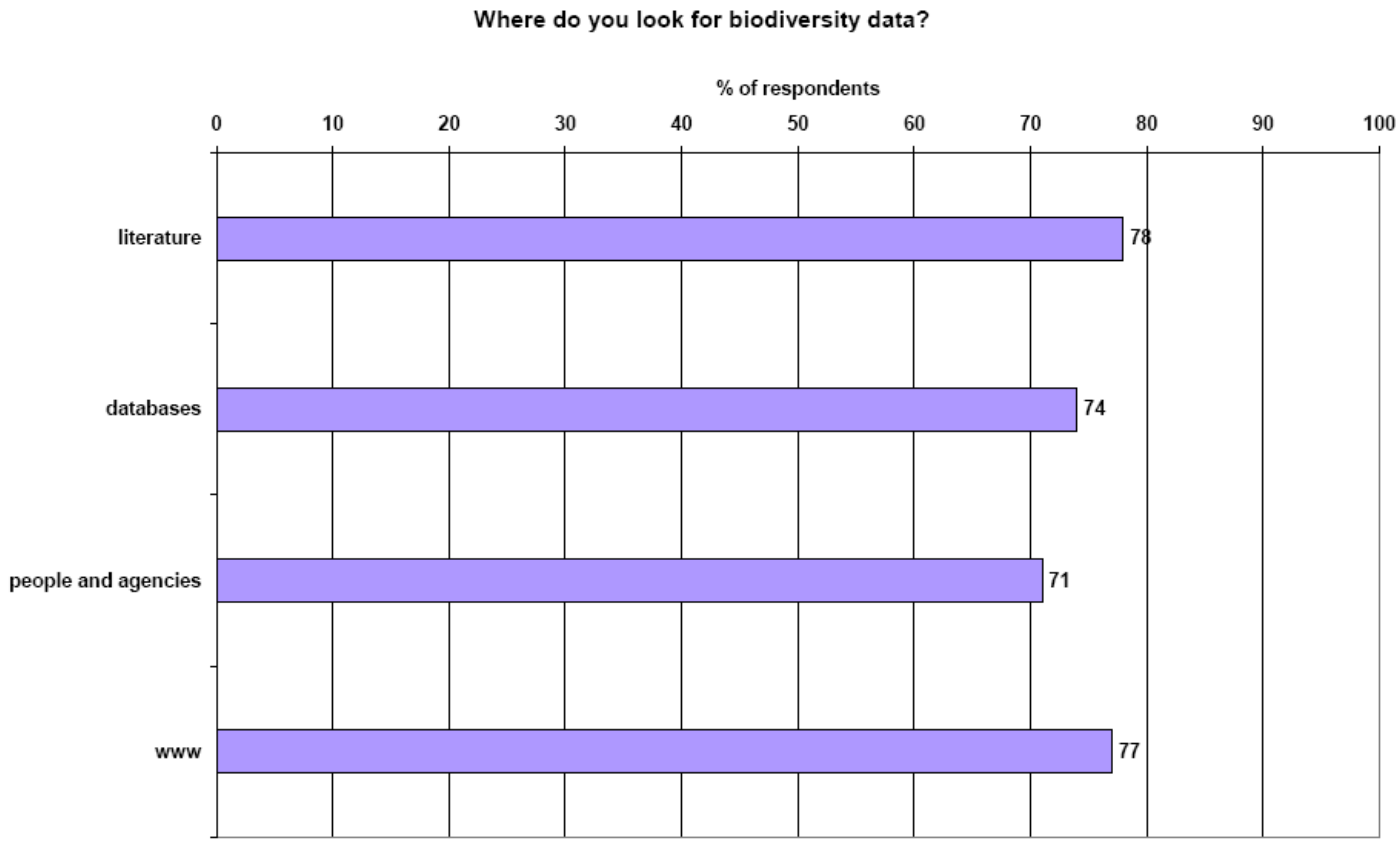


Chart 2 Survey responses showing the source of biodiversity data.

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Results, use cases

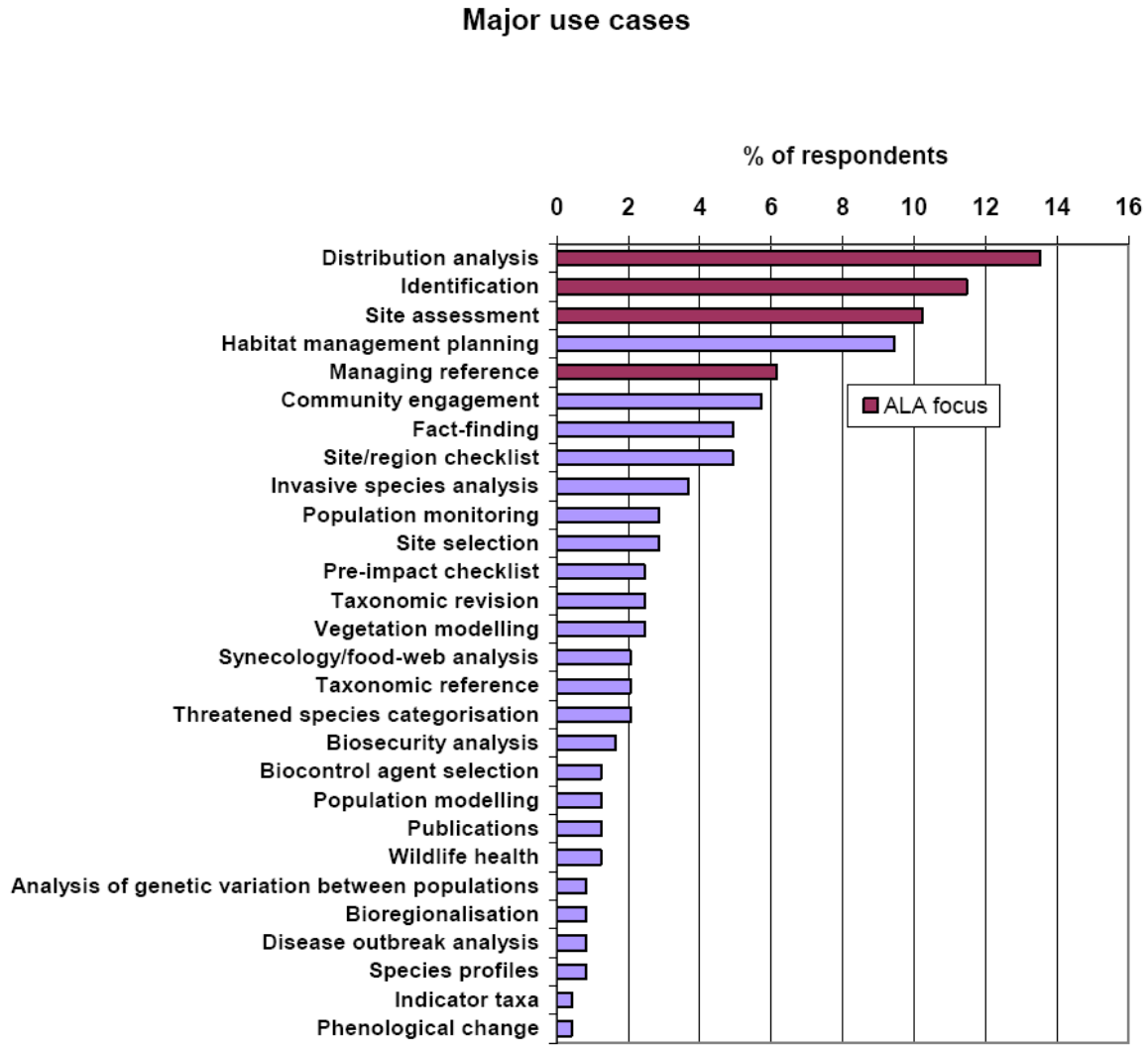
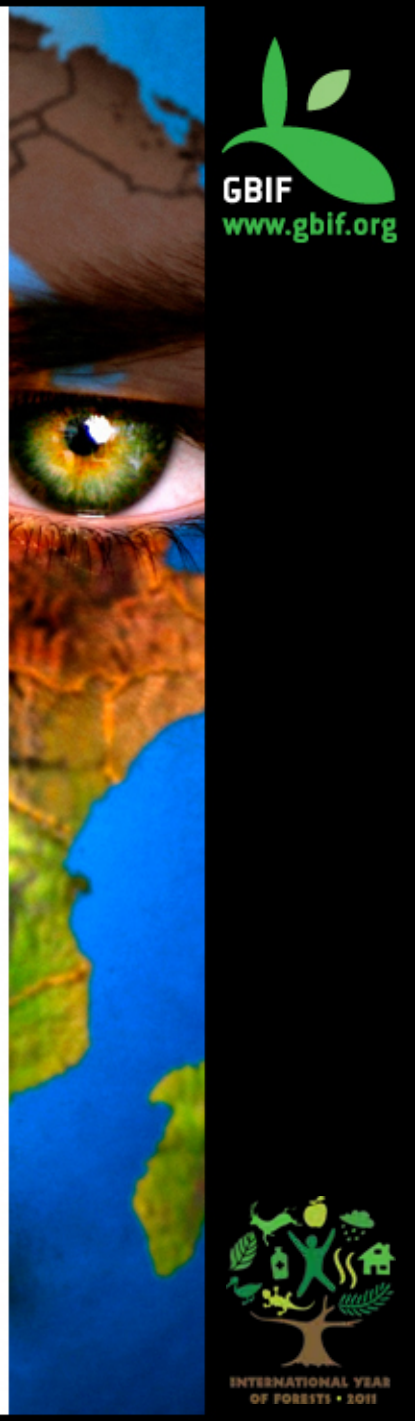


Chart 3 Survey responses showing major use cases. Many of these tasks are appropriate for support from the ALA. Those shown in red were the subject of discussion sessions at the TDWG 2008 Annual Conference and could be high priority areas for early development by the ALA.



Results, data produced

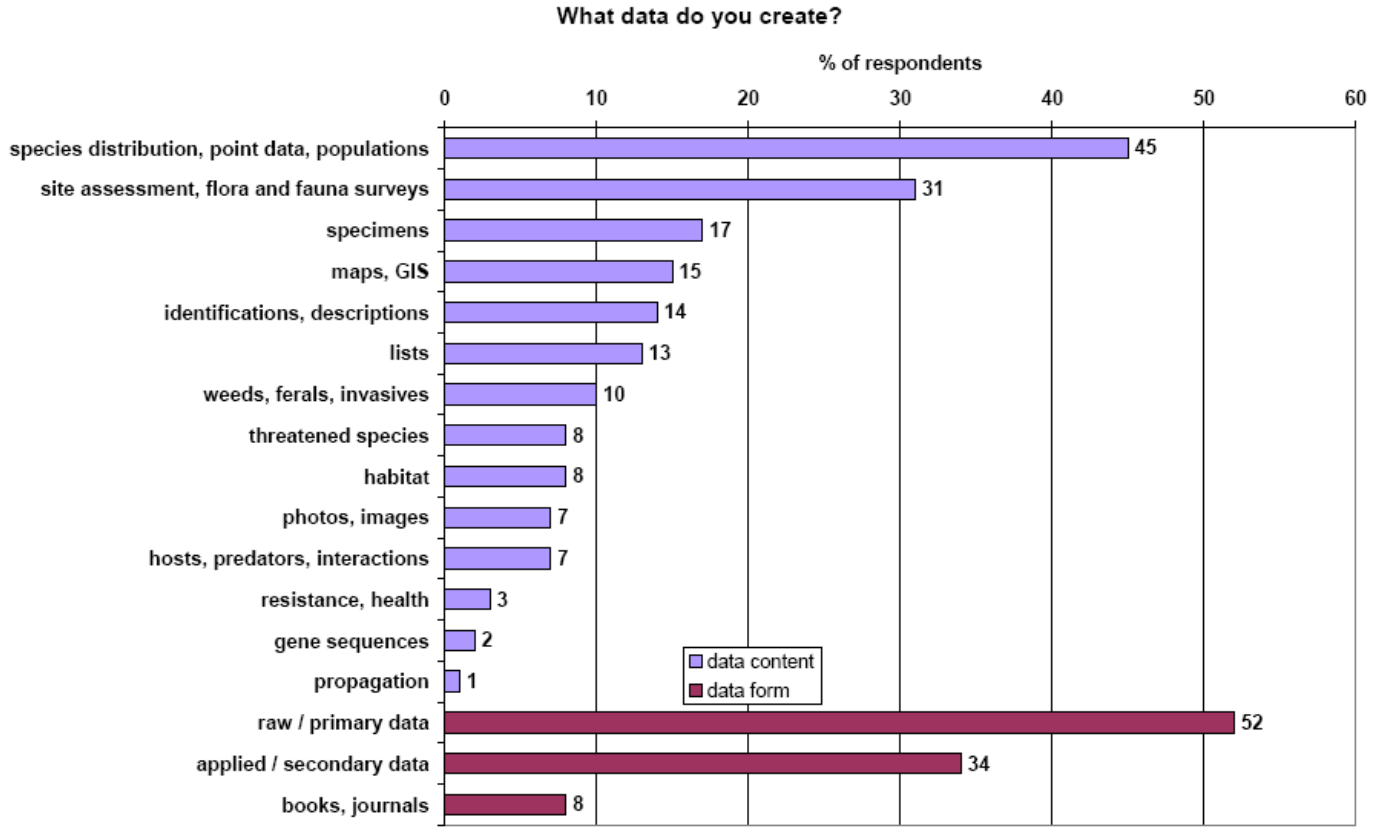
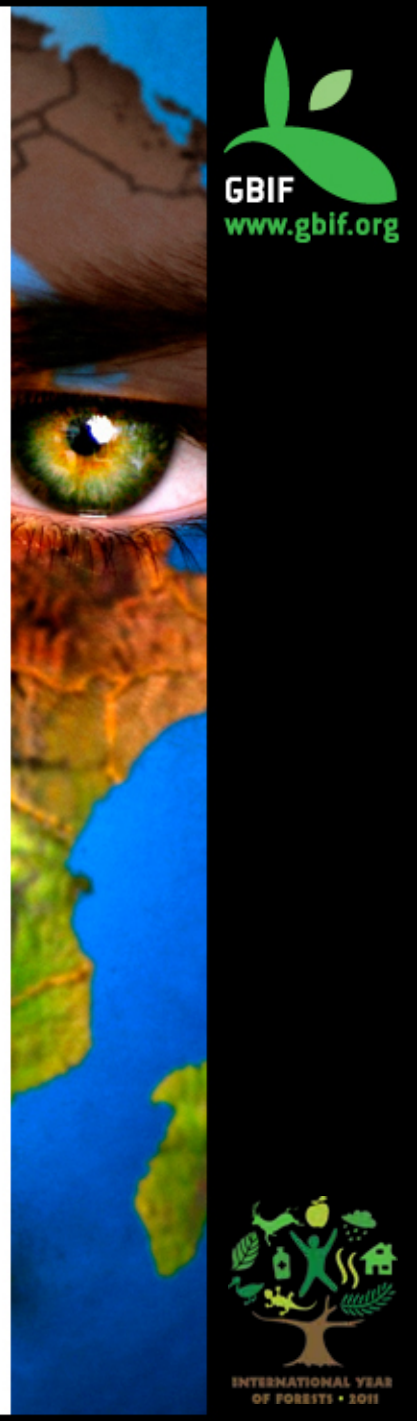


Chart 4 Survey responses showing the type of data that is created. Responses fell into two areas – those that described the data content and those that described the form of the data.



GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Results, data produced

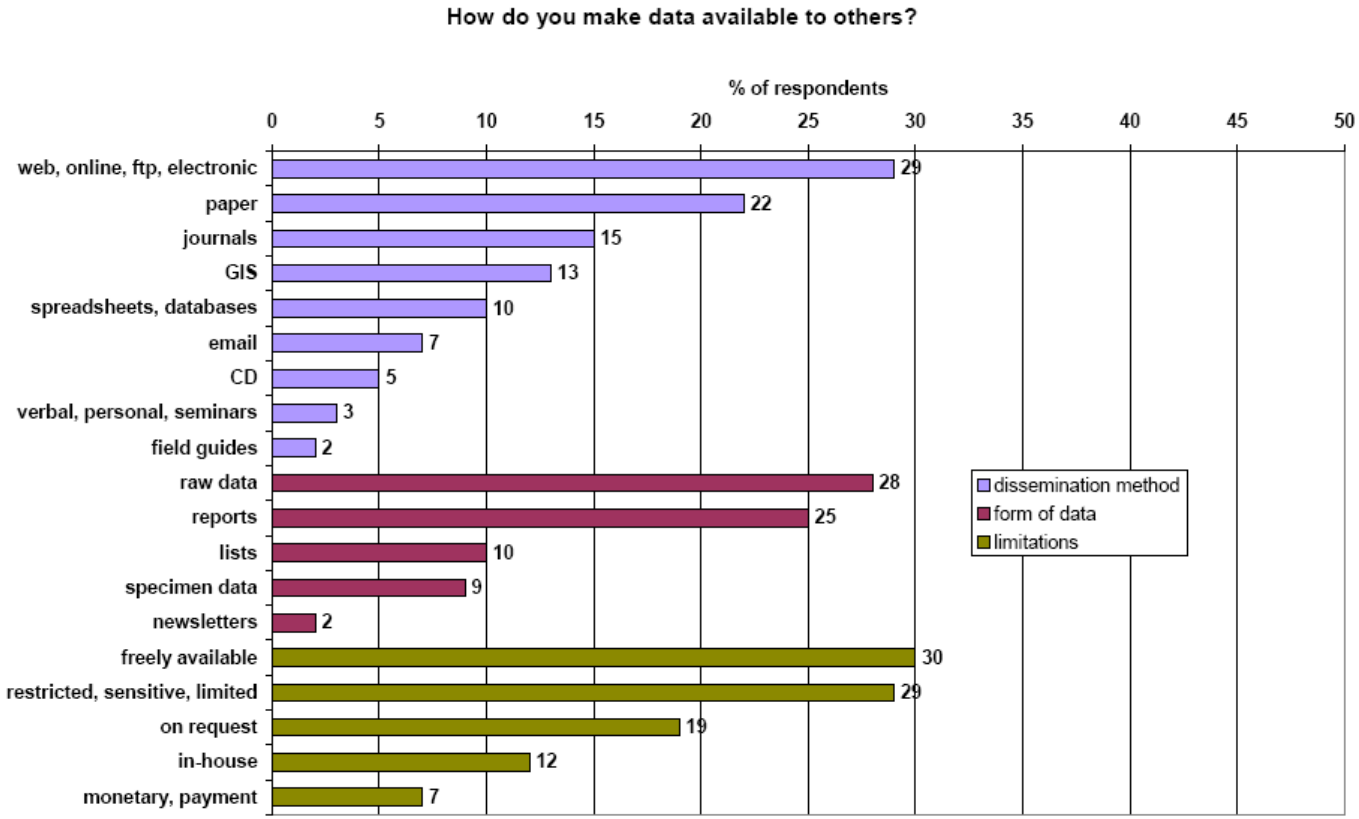
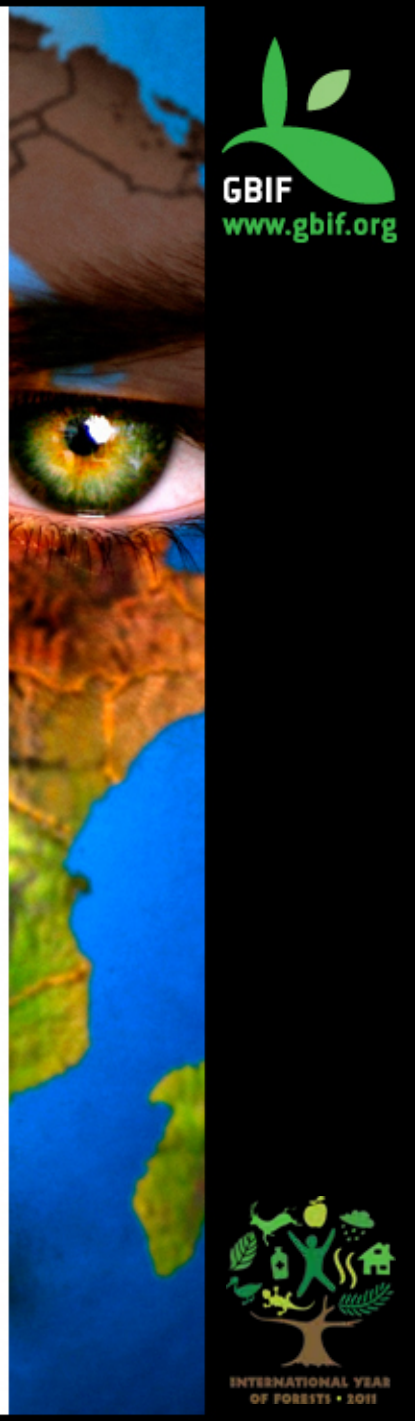


Chart 5 Survey responses showing how biodiversity data is made available to others. Responses fall into three categories – the method of dissemination, the form of the data, and costs and limitations to access.



GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Results, Conclusions

Currency

Accuracy

Comprehensiveness

Validation

Documentation

Ease of access

Reliable / authoritative source

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Outline

Aim

Method

Results

Other initiatives and experts

References

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Outline

Aim

Method

Results

Other initiatives and experts

References

Other initiatives and experts

Ref. name	Institution	Topic(s)
Vishwas Chavan	GBIF Secretariat	CNA, DGA, DQA
Arturo Ariño	University of Navarra (Spain)	CNA, DGA, Estimating Universe of Data
James Macklin	Agricultura and Agri-Food Canada	CNA
Brenda Daly	EWT (South Africa)	CNA
Gautam Talukdar	GBIF India	CNA
Raj Sood	Consultant, GBIF Secretariat	CNA, DGA, Analysis and interpretations
Penny Berents	Australian Museum	Demand-driven strategies/prioritization
Michelle Hammer	SANBI	Demand-driven strategies/prioritization
Andy Jarvis	CGIAR	DGA
Javier Otegui	University of Navarra (Spain)	DGA, DQA
Fatima Parker-Allie	SABIF (South Africa)	CNA

CNA = Content Need Assessment ; DGA = Data Gap Analysis; DQA = Data Quality Analysis

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Outline

Aim

Method

Results

Other initiatives and experts

References

Outline

Aim

Method

Results

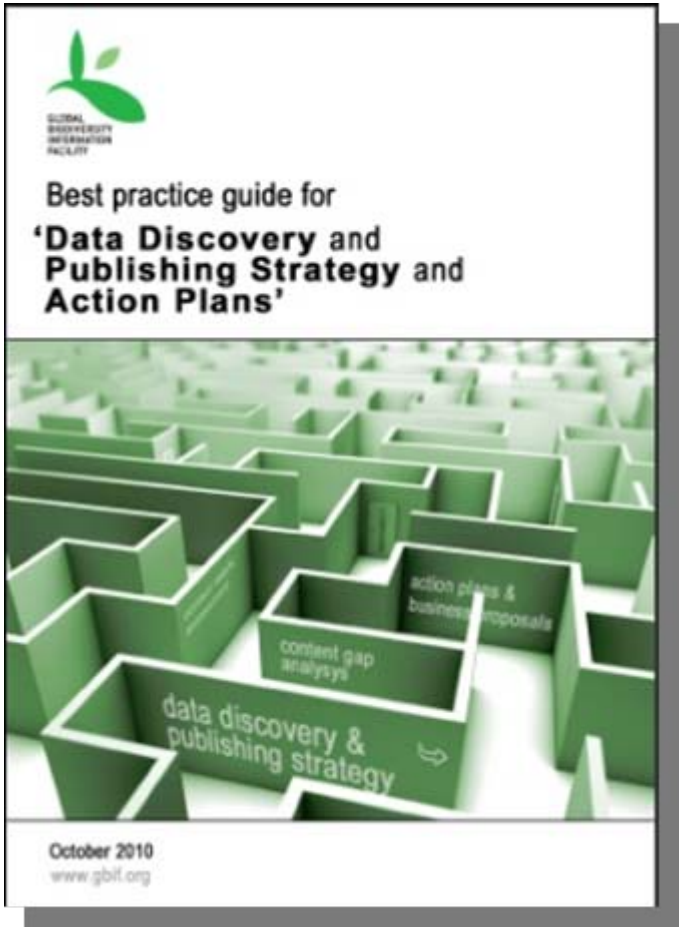
Other initiatives and experts

References

Resources

The Atlas of Living Australia (2008). Atlas of Living Australia, User Needs Analysis, released November 2008. Accessible online at http://www.ala.org.au/about/communications-centre/publications/user-needs-analysis-report/

Resources

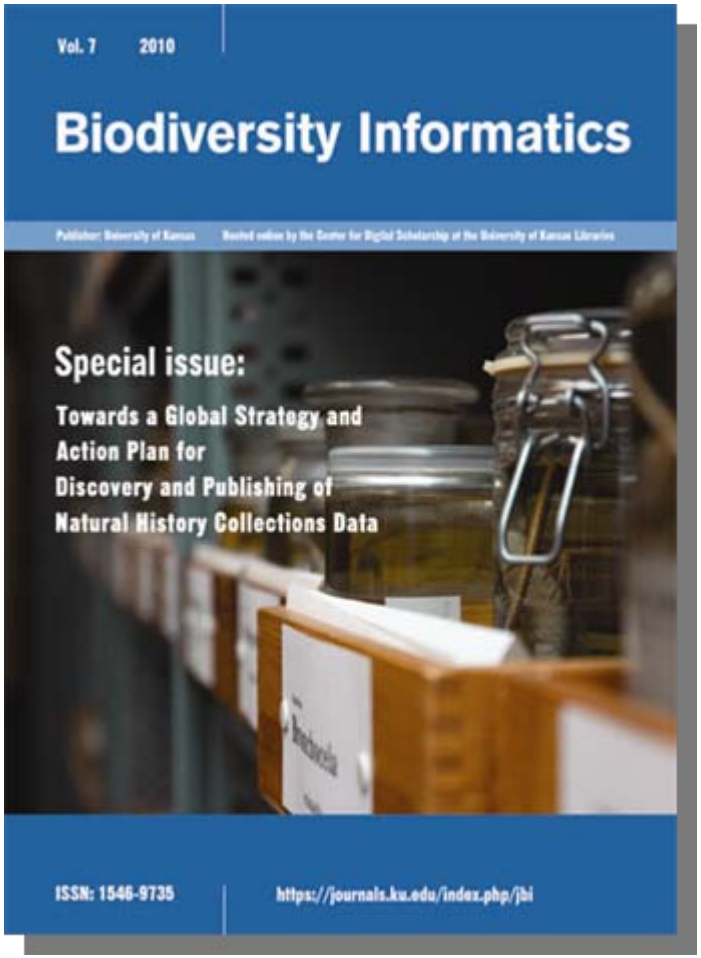


GBIF. 2010. Best practice guide for 'Data Discovery and Publishing Strategy and Action Plans' version 1.0. Authored by Chavan, V. S., Sood, R. K., and A. H. Arino. 2010. Copenhagen: Global Biodiversity Information Facility, 29 pp. ISBN: 87-92020-12-7. Accessible online at http://www.gbif.org/orc/?doc_id=2755

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Resources

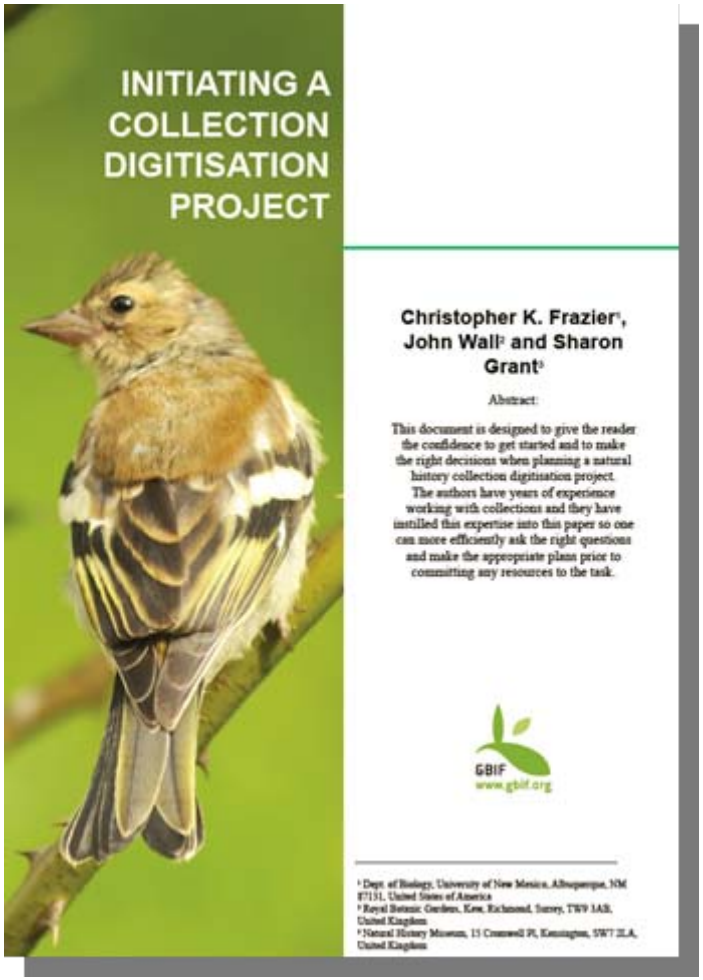


Towards a Global Strategy and Action Plan for Discovery and Publishing of Natural History Collections Data. Biodiversity Informatics, 7, 2010. ISSN: 1546-9735. Accessible online at https://journals.ku.edu/index.php/jbi/issue/view/323

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

Resources



Frazier, C.K., Wall, J., and S. Grant. 2008. Initiating a Natural History Collection Digitisation Project, version 1.0. Copenhagen: Global Biodiversity Information Facility. 75 pp. Accessible online at http://www.gbif.org/orc/?doc_id=2176

GBIF
www.gbif.org

INTERNATIONAL YEAR OF FORESTS • 2011

GBIF
www.gbif.org

Training course on biodiversity data publishing and fitness-for-use in the GBIF Network, 2011 edition

Practical Example of Data Mobilization Planning: The Atlas of Living Australia

Presenter (email)
Role
Organization

Buenos Aires (Argentina)
29 September 2011

INTERNATIONAL YEAR OF FORESTS • 2011