Australian Museum

Crowdsourcing for Digitisation:

BVP Use Patterns and Future

Directions

Paul Flemons

June 2013

nature culture discover



The Biodiversity Volunteer Portal



http://volunteer.ala.org.au/





Collaboration between





The Australian Museum



and

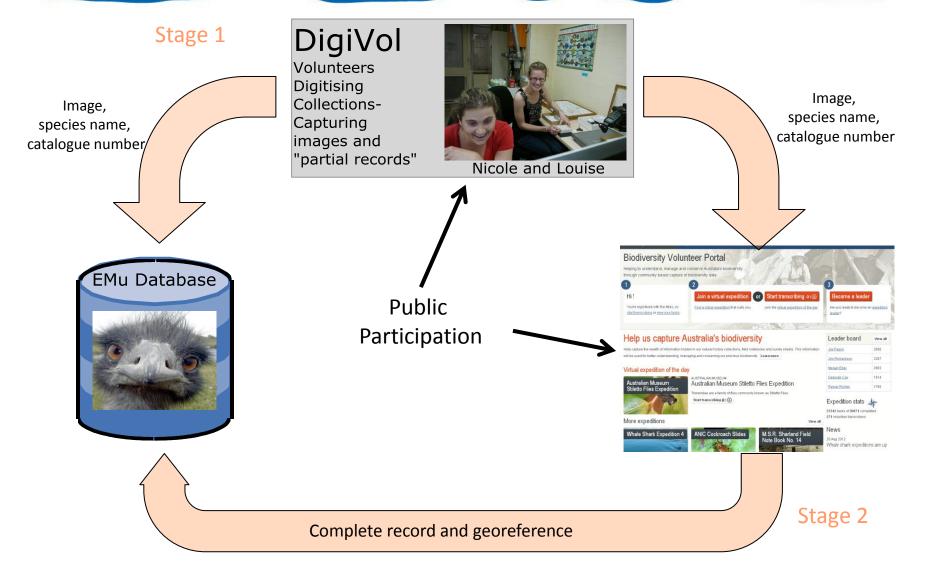


The Atlas of Living Australia www.ala.org.au



Public Participation in Digitising at the Australian Museum





Crowdsourcing – definition



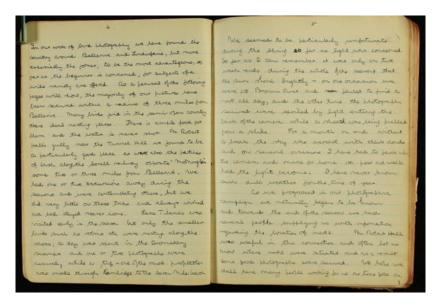
"Crowdsourcing is an online, distributed problem-solving and production model."

Biodiversity Volunteer Portal: Concept



An open, scalable, distributed, standards (DwC) compliant browser based application for crowdsourcing the transcription of biodiversity data and informal literature.





Biodiversity Volunteer Portal: Concept



Template based creation and management of transcription "expeditions"

3 levels of permissions based activity

- Transcriber level capturing data
- Validator quality assurance
- Admin: Expedition Creation and management

Volunteer for Australia's Biodiversity

Join one of our virtual expeditions

and help capture the wealth of information hidden in our Museums and Herbaria. Help turn this information into valuable knowledge that will be used for understanding the relationships between organisms, learning where they live and how they might be affected by habitat loss and climate change.

Browse our current projects and click on one to start the expedition.













Moths Expedition

Australian Museum

Hawk moths fly very fast and strong, with rapid wingbeats, and can hover in flight to sip nectar. Don't let their beauty fool you though, the caterpillar stage of their life cycles can do significant damage to agricultural crops. Your task is to transcribe the labels so we know who collected them, when and where. Biodiversity Volunteer Portal

Expeditions

Tutorials

Submit an Expedition

Forum:

Contact Us

About the Portal

Biodiversity Volunteer Portal

Helping to understand, manage and conserve Australia's biodiversity through community based capture of biodiversity data

Hi!

You're registered with the Atlas, so start transcribing or view your tasks.

Join a virtual expedition

Find a virtual expedition that suits you.

Start transcribing as (a)

or

Join the virtual expedition of the day.

Become a leader

Are you ready to become an expedition leader?

Help us capture Australia's biodiversity

Help capture the wealth of information hidden in our natural history collections, field notebooks and survey sheets. This information will be used for better understanding, managing and conserving our precious biodiversity. Learn more

Virtual expedition of the day

Australian Museum Edgar Waite Diaries Expedition -Diary 67

AUSTRALIAN MUSEUM Australian Museum Edgar Waite Diaries Expedition -Diary 67

Australian Museum Edgar Waite Diaries Expedition - Diary 67 - 1919-1920 - Personal diarry entries with his writings published in newspapers, the death of Mr W J Rainbow and Robert Etheridge. Start transcribing (a) (A)

Leader board View all 7341 Megan Edey Jim Richardson 5033 Joy Pagon 4388 Teresa Van Der Heul 3019 2000 Reiner Richter

Expedition stats



34823 tasks of 38518 completed 375 volunteer transcribers

More expeditions

Smithsonian US Herbarium - Gingers and Pipevines and Heartleaf, Oh My!

Australian Museum Edgar Waite Diaries Expedition -Diary 69

Australian Museum Bivalve Expedition - 2

News

View all

06 Jun 2013 More Expeditions

Go to the Expeditions tab at the top to see more projects!

My profile Logout

Search the Atlas

Q

Biodiversity Volunteer Portal

Expeditions

Tutorials

Contact Us

How can I volunteer?

About the Portal

Biodiversity Volunteer Portal » Biodiversity Volunteer Portal

Biodiversity Volunteer Portal

Helping to understand, manage and conserve biodiversity through community based transcription of archival and natural history collections



Virtual expedition of the day



ROYAL BOTANIC GARDENS KEW

Forum

Angolan Lamiales

Royal Botanic Gardens Kew Expedition - Angolan Lamiales

Start transcribing (A) (A)

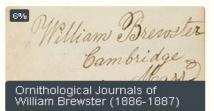
More expeditions





((across the him) Higher of

Harvard MCZ Ornithological Journals of William Brewster (1892)













Ornithological Journals of William Brewster (1888-1889)



Honour Board Day Tripper View Top 20 Baz Walter 100 Weekly Wonder View Top 20 Baz Walter 260 Monthly Maestro View Top 20 Baz Walter 580 **BVP Legend** View Top 20 Megan Edey 17739

View my tasks

Expedition stats



85008 tasks of 95086 completed 627 volunteer transcribers.

News

21 Jan 2014

A new and better BVP!

Look for: A new honour Board A simpler front page that shows all of the currently available expeditions New transcription templates Improved validation work flow for validators The site dynamically resizes so that it adjusts to your screen size.

Who is involved?



Institution	Number of Tasks
Australian Museum	54651
The New York Botanical Garden	12203
Smithsonian Institution	12135
ECOCEAN	2658
Australian National Insect Collection	2416
The Frost Entomological Museum at The Pennsylvania State University	1944
Museum Victoria	594
South Australian Museum	392
SANBI South African National Biodiversity Institute	231
Finnish Museum of Natural History	99
Kew Gardens	Just started
Biodiversity Heritage Library	Just started



Time per

Institution by Year	Number of Tasks	Number of Expeditions	Number of transcribers/expedition	Transcription rate tasks/exp/day	Ave Time per expedition (in days)
2011	13463	9	32	7	287
Australian Museum	12106	8	30	8	287
Australian National Insect Collection	1357	1	43	5	289
2012	16596	49	16	10	49
Australian Museum	12573	39	14	9	48

24373 (41782)



Australian National Insect Collection

Finnish Museum of Natural History

Australian National Insect Collection

SANBI South African National Biodiversity Institute

SANBI South African National Biodiversity Institute

The Frost Entomological Museum at The Pennsylvania State University

ECOCEAN

Museum Victoria

Australian Museum

2014 (prorata)

Grand Total

Australian Museum

Smithsonian Institution

South Australian Museum

The New York Botanical Garden

Smithsonian Institution

Smithsonian Institution

The New York Botanical Garden

Statistics tel	l a story

Statistics t	ell a	story
วเลเเรเเบร เ	CII a	Story

Statistics tell a	story
-------------------	-------

Statistics	4011		ctory
วเลเเรเเเร	ten	a	SLUIV

Statistics tall a staw	
Statistics tell a story	/

Statistics tell	la etory	,
Statistics tell	i a story	

Statistic	s tell	as	torv

Statistics to	ell a stor	V
otatiotics t	en a stor	Y

Statistics tel	l a storv

Statistics tell a story	7



Group	Number of tasks	Number of Expeditions	Rate of transcription	Transcribers per expedition
Insects	31167	31	26	19
Plants	23977	20	28	18
Diaries	15274	96	17	9
Molluscs	9917	13	14	15
MarineInverts	3427	5	12	14
Mammals	2658	4	33	31
Echinoderm	392	1	30	10
Registers	231	3	2	5



Group	Number of tasks	Number of Expeditions	Rate of transcription	Transcribers per expedition
Diaries	15274	96	17	9
Insects	31167	31	26	19
Plants	23977	20	28	18
Molluscs	9917	13	14	15
MarineInverts	3427	5	12	14
Mammals	2658	4	33	31
Registers	231	3	2	5
Echinoderm	392	1	30	10



Group	Number of tasks	Number of Expeditions	Rate of transcription	Transcribers per expedition
Mammals	2658	4	33	31
Echinoderm	392	1	30	10
Plants	23977	20	28	18
Insects	31167	31	26	19
Diaries	15274	96	17	9
Molluscs	9917	13	14	15
MarineInverts	3427	5	12	14
Registers	231	3	2	5



Group	Number of tasks	Number of Expeditions	Rate of transcription	Transcribers per expedition
Mammals	2658	4	33	31
Insects	31167	31	26	19
Plants	23977	20	28	18
Molluscs	9917	13	14	15
MarineInverts	3427	5	12	14
Echinoderm	392	1	30	10
Diaries	15274	96	17	9
Registers	231	3	2	5

How do templates affect productivity



Australian Museum Label	Number of	Transcription Rate
Templates	tasks	
Total	40575	9
default	15963	6
GenericLabels	9375	9
SpecimenLabel	5558	23
AM specimen template	9679	34

The big questions! (October 2011)



1. Is the quality of the transcribed data sufficient to justify the use of crowd-sourcing?

2. Is the crowd-sourcing resource an ongoing one or a fad that will quickly pass and not realize the benefits we hoped it would.



Other Issues to be considered? (October 2011)



- 1. Transcription versus georeferencing
- 2. Ease of georeferencing versus accuracy and reliability
- 3. The challenge of data repatration
- 4. Attracting volunteers and maintaining there interest



Is it worth the effort? (October 2011)



When considering it simply as label digitisation for entomological specimens - Maybe

For field note transcriptions – yet to be determined

If you consider it as an exercise in

- Outreach
- Education
- Collections Access

.....then the case is stronger but the jury is still out



What the future holds



• BVP:

- Functionality:
 - New templates
 - Institutional pages
 - Badges
- Volunteer engagement programs
 - School based programs
 - Tertiary education programs
 - Offenders workforce re-entry program
 - Games??

What the future holds



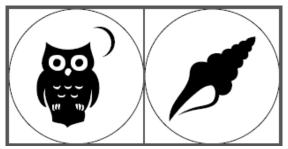
- Collaborative crowdsourced digitisation hubs
 - Eg iDigBio Biospex
 - http://www.biospex.org/

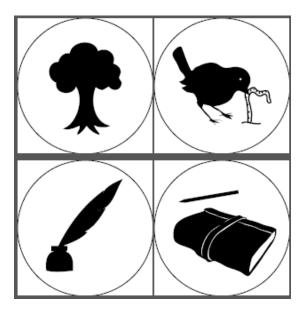
- Tools for enabling volunteers to tailor there contributions to their interests:
 - Flexibility in selecting specific taxa, people (eg collectors or geography)

Badges









Thank you

www.australianmuseum.net.au

nature culture discover



