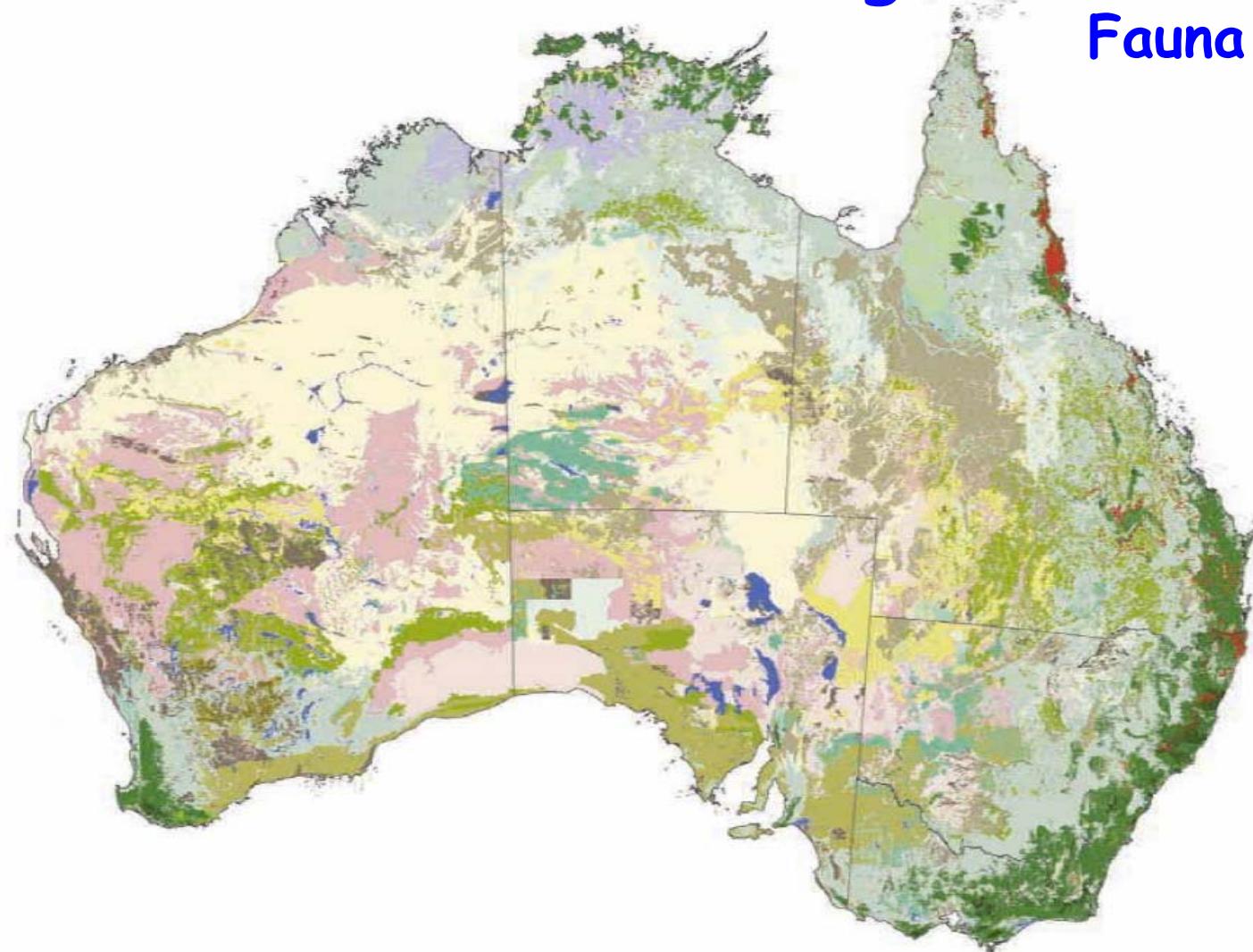


What is it? - ~~Vegetation~~

Fauna Habitat



What is it? - Vegetation

WA vegetation mapping BlueSheet
(Last updated September 2008)

A Where are we now?

- Increasing development pressures leading to declining biodiversity
- Increased resource & change focus & impacts
- Growing siloed initiatives & short-term thinking
- Mining boom leading to growing environmental impacts, staff shortages, rising costs & unprecedented wealth
- Increasing Indigenous involvement in planning matters
- Strong State Government focus on infrastructure

WA vegetation mapping

- WA a large & diverse state
- Current maps largely derived from Beard work undertaken in the 1970s
- DEC/DAF as joint custodians of current maps

Strengths & opportunities

- Beard work well understood & widely accepted
- Logical hierarchy in place
- Modest detail for most of state
- Rapid technology advances

Issues

- Scattered & inconsistent data sets
- Lack of legislative triggers
- Scarce funding (due to focus, scale & duration of work)
- Current maps used beyond original intent
- Gaps in data mean "don't know what don't know"
- Increasingly diverse user needs
- Inconsistent definitions & assumptions
- Dividing divide between current maps & actual vegetation distribution & condition
- Skills & capacity
- Localised decision-making
- Aging experts not being replaced
- Limited floristic information in current maps
- Limited training
- Not regularly updated or updatable
- Inadequate statewide resolution

Focusing question

How best capitalise on the current boom & great work undertaken by Beard to ensure we understand & effectively manage WA's unique vegetation for the benefit of future generations

B Where do we want to be?

1 Think 'whole vegetation information system', but focus primarily on 'vegetation map' component

Map Data
Vegetation X (Beard) Flora
Community NatureMap
Flora Ecosystem

C What do we do to get there?

- Build on existing maps while continuing to use them ("change the engine while flying the plane")
- Plan & manage as inter-generationally significant project
 - Engage key stakeholders & mobilise support
 - Undertake preliminary detailed design (including definitions, hierarchy, linkages, products, methodology, sequence, governance, structure, resourcing, change design, risk management)
 - Mobilise political support (sustained leadership & in-principle funding commitments, legislation)
 - Secure necessary funding (internal seed funding, then leverage external funding, break political cycles)
 - Update detailed design if necessary (depending on outcomes 3 & 4 above)
 - Establish project (recruit team, set-up base, form partnerships)
 - Implement agreed plan
 - Lock-in continuous improvement cycle
- How do we make this happen?
 - Prepare & distribute workshop outputs
 - Prepare & table scoping document
 - DEC Corporate Executive
 - Implement will of DEC Corporate Executive

D Who? When?

Volume Nine Number One October 2013

Conservation Science Western Australia

VEGETATION MAP OF WESTERN AUSTRALIA

Key attributes

- User-friendly
- Widely-valued
- Fit-for-purpose
- Reliable
- Updatable
- Compliant (with relevant standards & protocols)

Guiding principles

- Flexibility
- Integration
- Transparency
- Collaboration
- Efficiency

INDIAN OCEAN SOUTHERN OCEAN

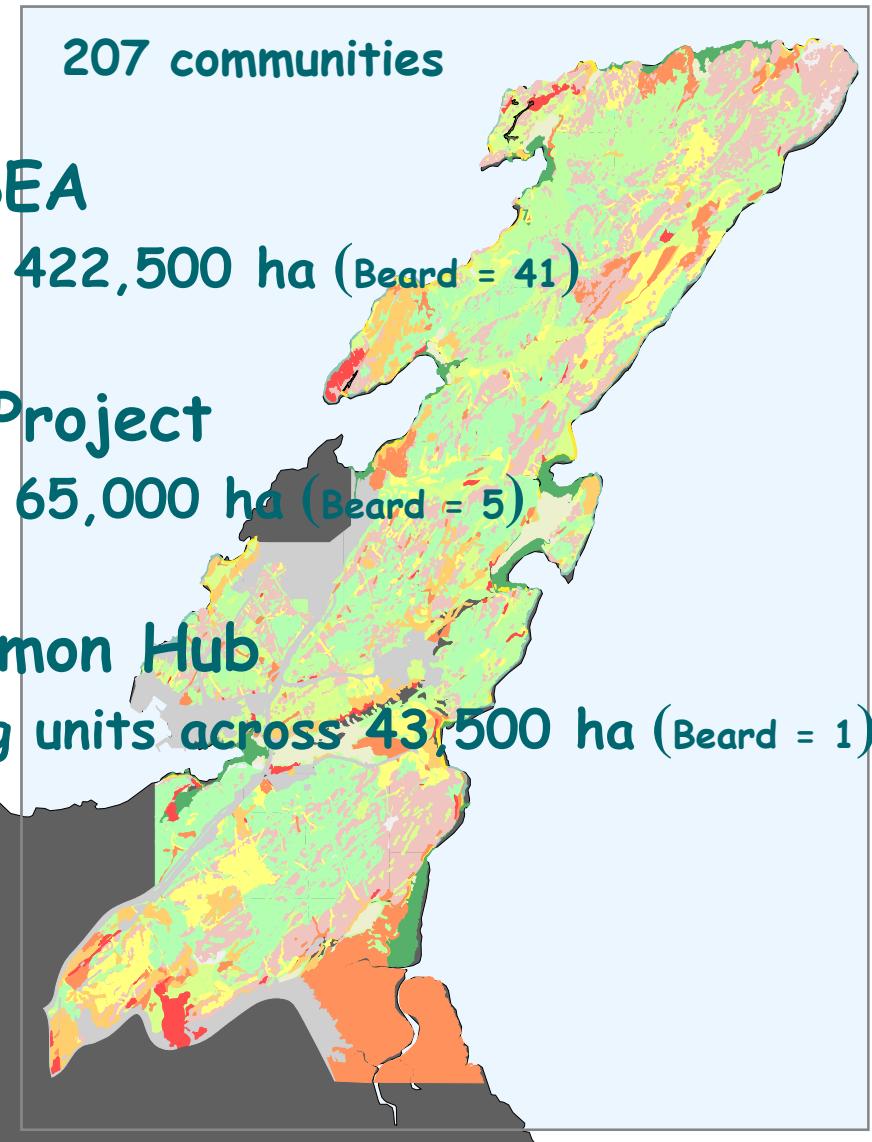
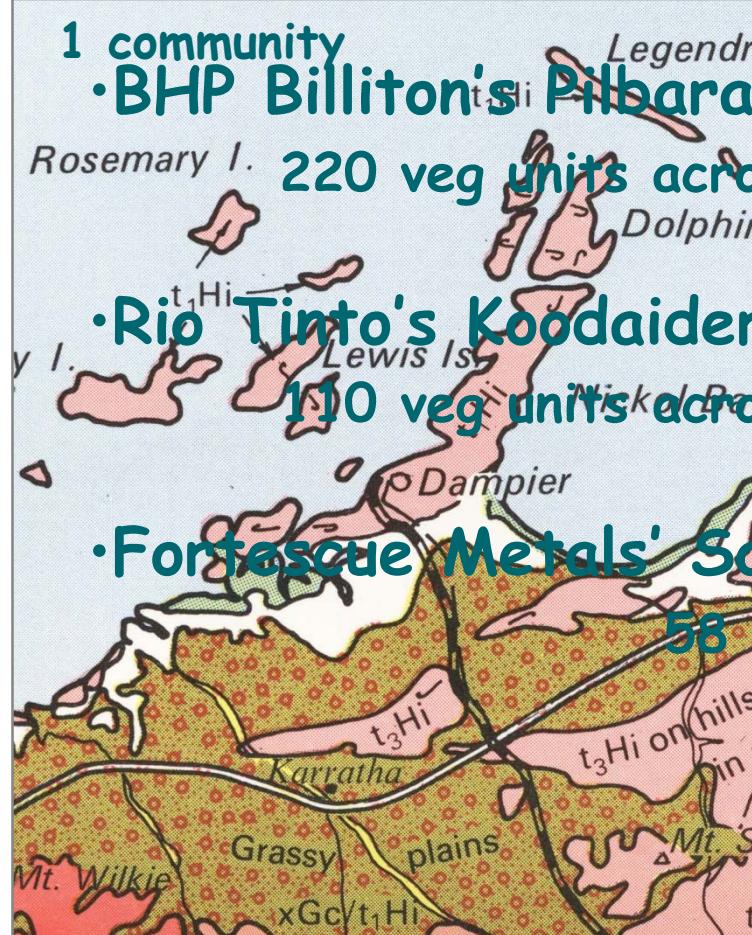
PLANT LIFE OF WESTERN AUSTRALIA

LIFE OF
TERN
RALIA

Department of Parks and Wildlife

What is it? - Vegetation

NO LONGER 'FIT FOR PURPOSE'



What is it? - Vegetation Issues

THERE IS A LOT OUT THERE!

Vegetation Reports

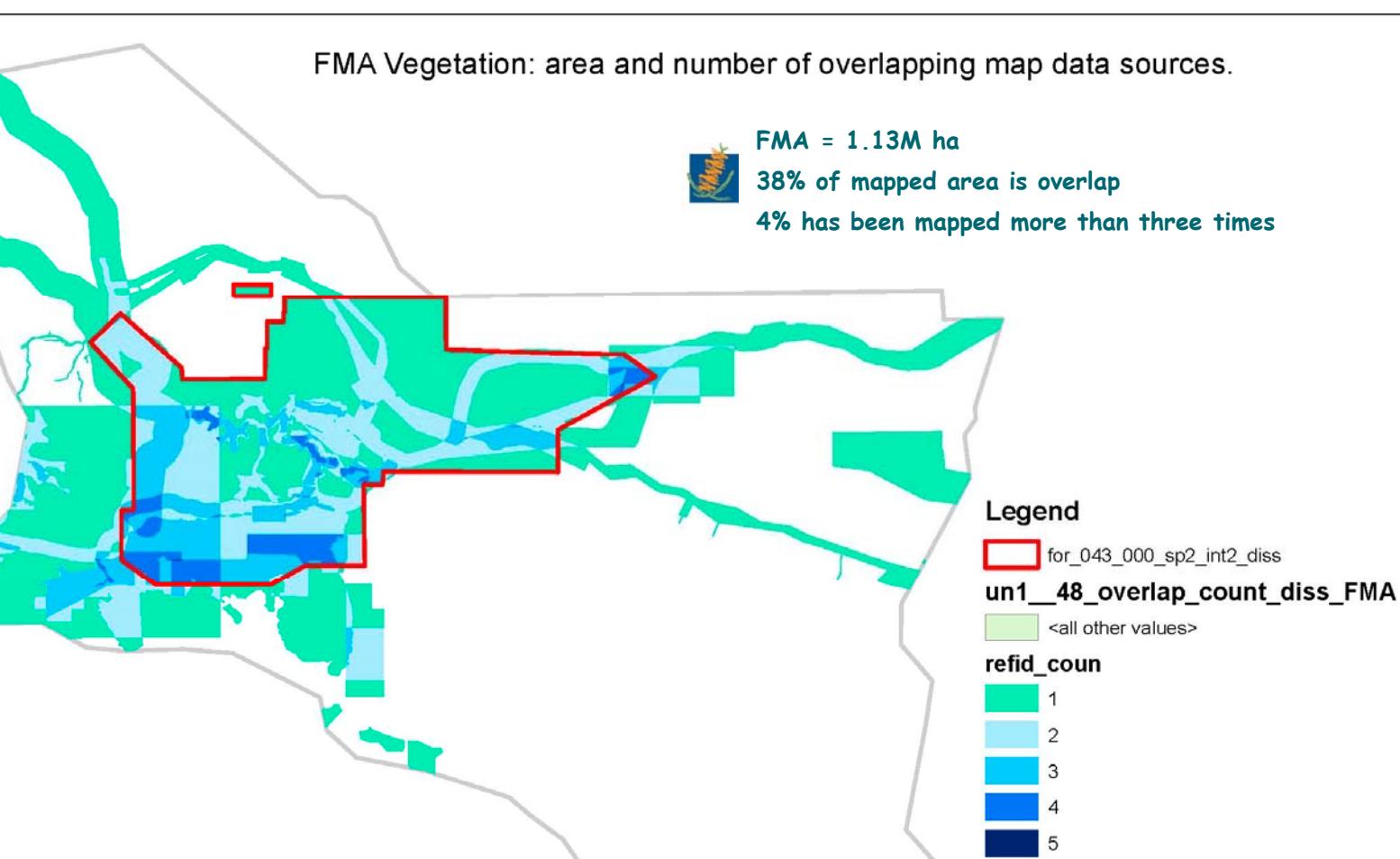
- Western Australia (1994): ~620 (Lyons & Gibson)
- Pilbara Biological Bibliography (2002): ~150 (~700)
- Avon baselining (2010): ~60 reports / ~450 maps
- Great Western Woodland (2013): ~270 reports / 75 maps
- BHP Billiton's Pilbara SEA (2016): ~225 reports

Also, in 2014/15

- 31 EIA assessments
- 50 non-mining Native Vegetation Clearing Permits

What is it? - Vegetation Issues

THERE IS A LOT OUT THERE!



What is it? - Vegetation Issues

THE OPPORTUNITIES

NVIS for Western Australia

(WAVIS - WA Vegetation Information System)

- Standards & Protocols - NVIS, Essential Environmental Measures Veg Working Group
- Capture & store new Vegetation polygons, Structural description & Floristic inventory
- Make WAVIS RAD compliant

What do we know about it

THERE IS A LOT OF DATA OUT THERE!

Biological Survey Reports

- Western Australia (1994): ~2,300 (Lyons & Gibson)
- Pilbara Biological Bibliography (2002): ~720
(2006): ~1,370
(2015): ~3,000+
- BHP Billiton's Pilbara SEA (2015): ~375
- Terrestrial Ecosystems (Fauna only): ~609



'T MOST ARE OUT OF SIGHT & NOT ACCESSIBLE!

What do we know about it

The screenshots show the Pilbara Biological Survey Database website, which is a Department of Parks and Wildlife website. The homepage features a search bar, navigation links for Conservation Library, Staff Profiles, and Staff Publications, and a link to the whole of WA Government search. The detailed view page shows a record for 'Pilbara Biological Survey Database Detail'. The record includes an abstract, originator names (E.M. Mattiske & Associates), title (Junction Project Area - Tree transects: Monitoring Results March 1994), publication date (Unpublished Material (1994)), person name (Stuart Anstee), and organization name (Hamersley Iron). The abstract describes the establishment of three tree transects within and adjacent to the Junction Project Area Mining Lease within the Yandicoogina Region. It notes potential impacts on vegetation along drainage lines and plant communities.

What do we know about it

Parks & Wildlife Data

Organisations Groups About DPaW Map

data

ment 

[mpa_report](#) [Knowledge Managemen...](#)

Parks & Wildlife Data statistics

30 organizations 17 groups 0 showcases

 GOVERNMENT OF
WESTERN AUSTRALIA

Parks & Wildlife Data

Datasets Organisations Groups About DPaW Map

 / Datasets

Filter by location [Clear](#)

+ - 

Pilbara 

91 datasets found for "Pilbara" Order by: [Relevance](#)

Pilbara Corridors Wetland Survey
Surveys of wetland and fringing flora and aquatic invertebrates to provide analyses of biodiversity patterning to Rangelands NRM Pilbara Corridors Project.

[PDF](#) [CSV](#)

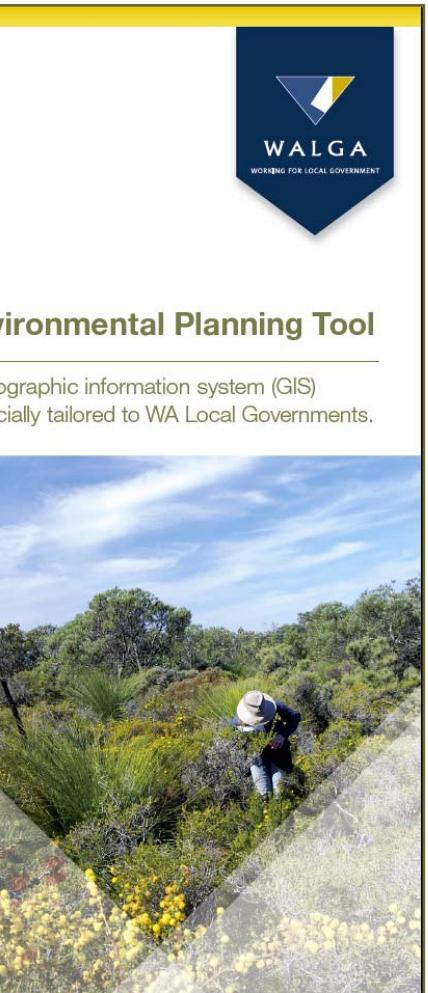
Decision-support tool for Pilbara islands
This project will develop a decision support tool for day-to-day use in making accountable and cost-effective decisions about where to spend limited funding on management of...

[GeoJSON](#) [CSV](#)

Pilbara River Pools Project
These data come from a project funded by Department of Water in 2009 to describe 1) the aquatic invertebrate biodiversity values of coastal river pools and 2) their responses to...

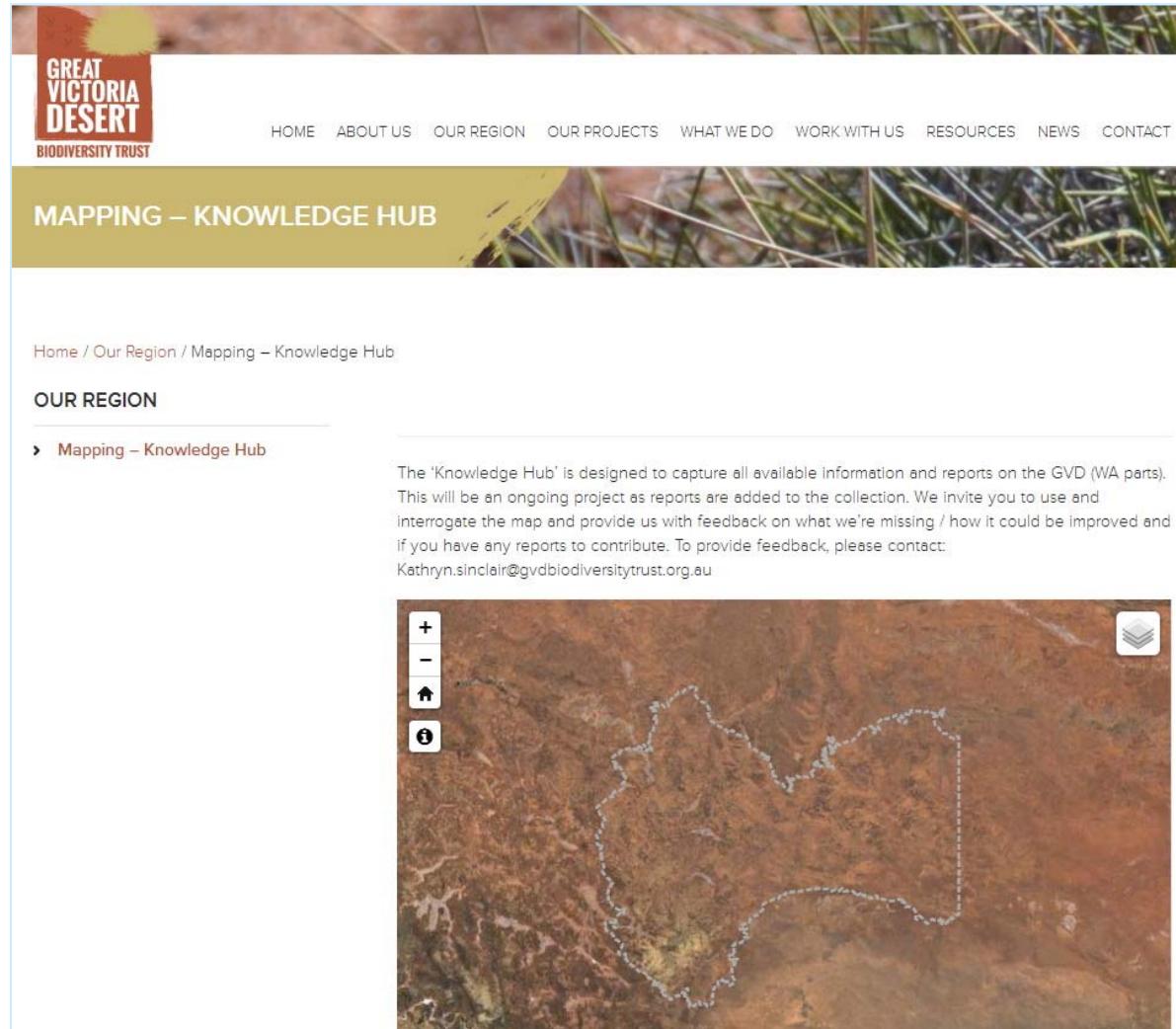
[PDF](#)

What do we know about it



Environmental Planning Tool

geographic information system (GIS)
specially tailored to WA Local Governments.



GREAT
VICTORIA
DESERT
BIODIVERSITY TRUST

HOME ABOUT US OUR REGION OUR PROJECTS WHAT WE DO WORK WITH US RESOURCES NEWS CONTACT

MAPPING – KNOWLEDGE HUB

Home / Our Region / Mapping – Knowledge Hub

OUR REGION

➤ [Mapping – Knowledge Hub](#)

The 'Knowledge Hub' is designed to capture all available information and reports on the GVD (WA parts). This will be an ongoing project as reports are added to the collection. We invite you to use and interrogate the map and provide us with feedback on what we're missing / how it could be improved and if you have any reports to contribute. To provide feedback, please contact:
Kathryn.sinclair@gvdbiodiversitytrust.org.au



Future Considerations

What has happened & is happening

Where is a need & demand

Scientific Sites Portal

Biological Survey Database

WAVIS

Spatially enabled Biological Data Catalogue

Types of OPPORTUNITIES

'It's Time' - Coalition of the Willing

Data everywhere

Citizen Science

Joint Management - Traditional Owner ecological knowledge

Innovation will help, requires development & deployment

WA BIODIVERSITY SCIENCE INSTITUTE (WABI)

EcoInformatics Node

Some Challenges

THANK YOU

