

Mapping your planned biodiversity activities data



‘Icon Species Grant Application’

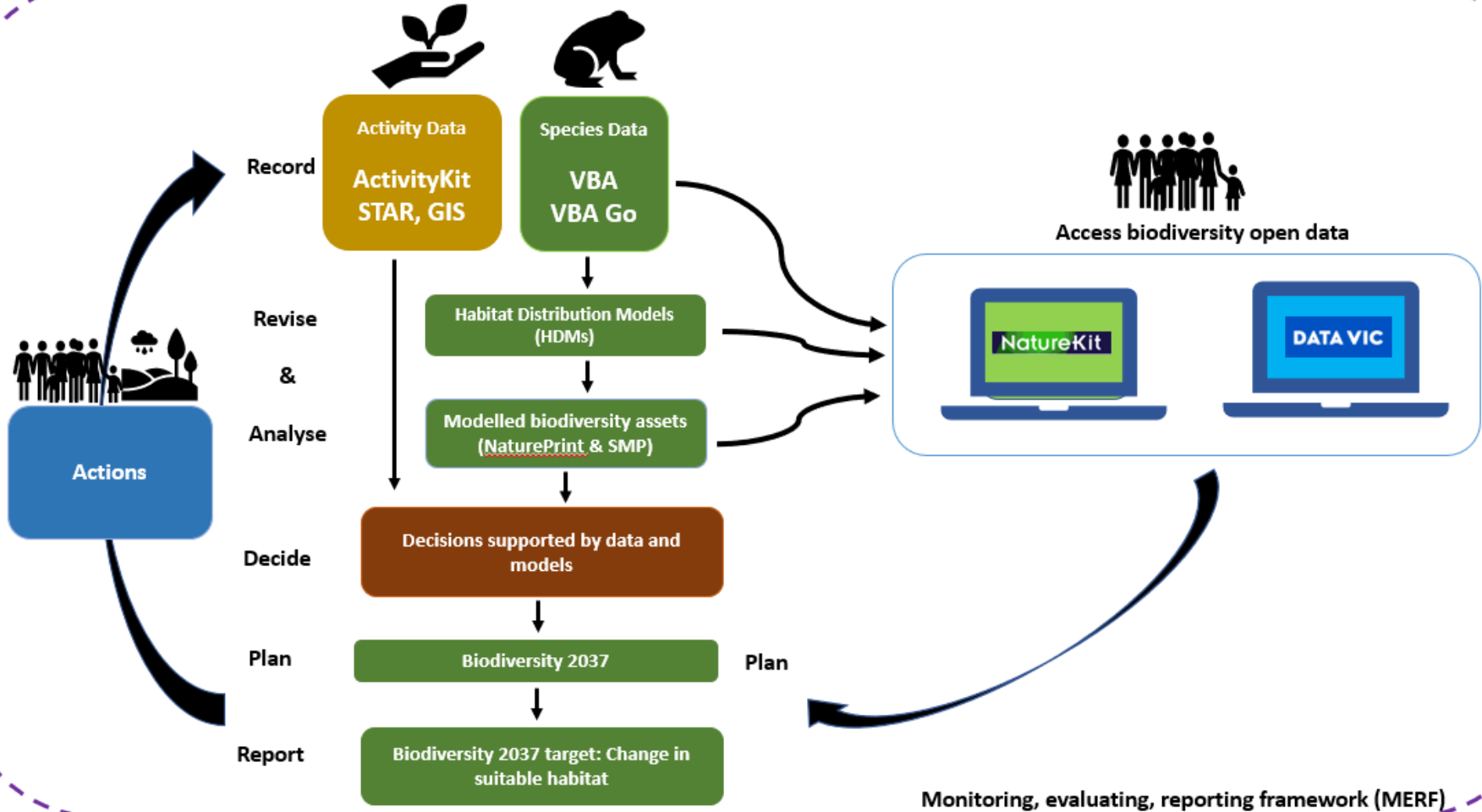


Environment,
Land, Water
and Planning

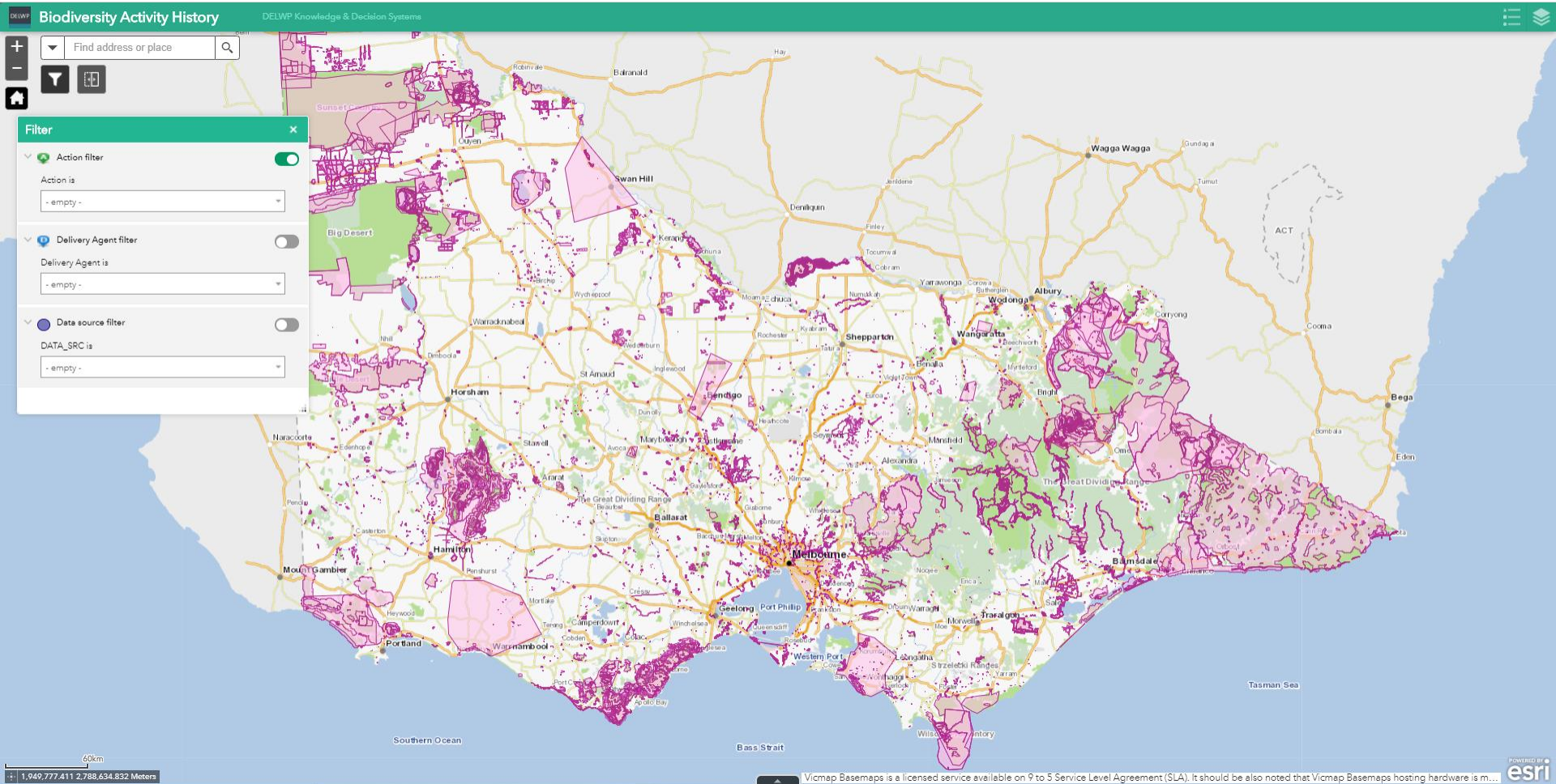


- The value of activity & species data
- Mapping standards: The spatial feature & attributes
- Where to find mapping information and shapefile templates

The value of activity and species data



Spatial reporting of biodiversity activity data

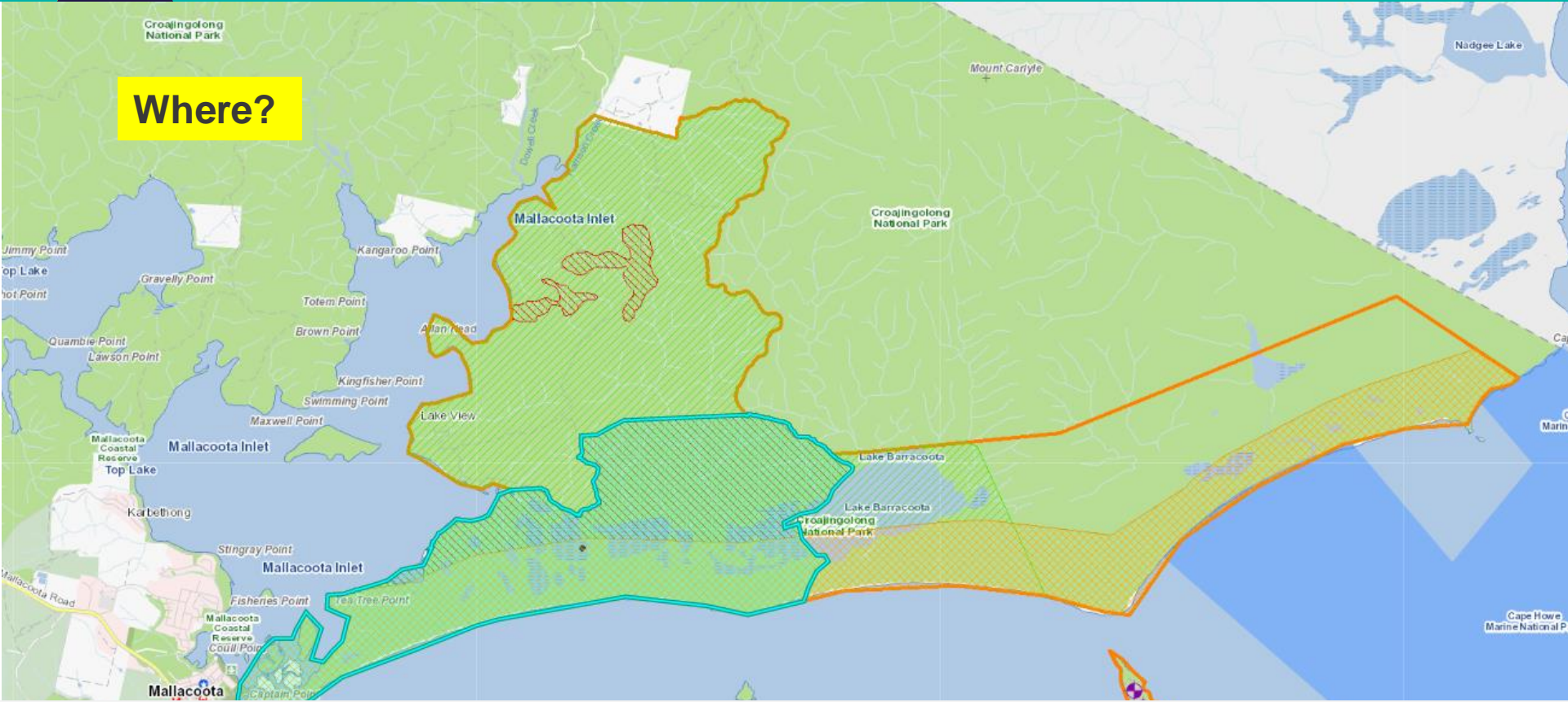




- The value of activity & species data
- Mapping standards: The spatial feature & attributes
- Where to find mapping information and shapefile templates

Mapping standards: The spatial feature & attributes linked to it

Where?



Table

When? What? Who? How?

1_AnimControl_Bio2037v1

Shape *	stdVersion	yearActDel	fundSource	projectID	DeliverAg	DelivAgNam	MgtOutcome	Environmnt
Polygon	Bio 2037 V1.0	2021	Biodiversity Response Planning	BRP058	Catchment Management Authority	PPW CMA	Species recovery	Terrestrial

Navigation controls: 1 (1 out of 1 Selected)

1_AnimControl_Bio2037v1

Biodiversity 2037 activity data requirements

Protecting Victoria's Environment – Biodiversity 2037

Biodiversity 2037 Activity data requirements v1.0

Many Victorians contribute to biodiversity protection and enhancement. To account for these contributions and measure progress against Biodiversity 2037 these activities are mapped along with key activity information. The Biodiversity 2037 activity data tables contain the fields and values important for understanding activities delivered for biodiversity benefit. The activity data tables cover project and activity management information; who is involved in delivery; activity delivery details such as standards of delivery, timing and frequency.

Common attributes	Terrestrial structure
Fields and values that must be linked to each activity feature.	Structures installed and maintained on land.
Attribute description	Erosion control
Description of attributes (fields) that apply to all or most of the Activity tables.	Fields and values about activities to control erosion.
Animal control	Grazing management
Pest animal or overabundant exotic or native wildlife management.	Changes to grazing management practices.
Weed control	Ecological thinning
Weeds, overabundant or out of range native plant management.	Thinning to improve structure / composition of native vegetation.
Revegetation and restoration	Water
Revegetating or restoring (often cleared) land, and marine and coastal environments.	Environmental or cultural water management.
Threatened species response	Earth works
Actions taken to manage threatened species.	Earthworks for environmental management.
Rubbish removal	Research and monitoring
Fields and values about rubbish removal activities.	Research and monitoring to fill knowledge gaps.
Habitat feature	Management agreement
Artificially creating habitat for native animals.	Agreements for the conservation of land and/or biodiversity.
Fire	Engagement event
Fields and values about the use of fire.	Events for engaging communities.
Fence	Partnership
Construction and maintenance of fences.	Fields and values about formal partnerships developed.
Monitoring structure	Plan
Structures and locations for monitoring and surveillance.	Plans developed to guide management.
Assessment	Publication
Assessments for information gathering that may or may not lead to management actions.	Key print and electronic communications materials.
Wildlife emergency response	Program
Actions taken in response to wildlife emergencies.	Programs delivered for biodiversity benefit.
Marine structure	Campaign
Structures installed and maintained in marine environments.	Large scale, active and organised behaviour change activities.
Waterway structure	Seed funding
Structures installed and maintained in waterways.	Funding initiatives for establishing development programs.

The Attributes

Threatened species response											
Actions taken to manage threatened species.											
Field (attribute)	Title	Purpose	Type	Treatment area (hectares)	Species	Species common name	No. of individuals	On ground works agent (Agent doing the work/delivery)	On ground works agent name	Total volunteer number	Total volunteer hours
shapefile field name abbr	Title	Purpose	Type	TreatmArea	Species	SppComName	NumIndivd	OnGrndAg	OnGrdAgNam	VoluntNum	VoluntHour
Valid value	Threatened species response	Restore biological community	Caging	Number	Number		Number	Contractor	Organisation name	Number	Number
		Restore individual species	Captive breeding					Landowner	Not recorded (select for contractor & Landowner)		
			Collect/ store seed or vegetative material					Traditional Owner			
			Connectivity interventions					Managing organisation staff			
			Cryobanking					Volunteers/ community group			
			Establish new population								
			Fenced-wild captive breeding								
			Genetic interventions								
			Genetic testing								
			Germplasm								
			Inoculate soil								
			Pollination								
			Propagation								
			Species introduction/ reintroduction								
			Supplementary watering/feeding								
		Wild to wild translocation.									
		Other									
Spatial feature	Point (projection must be GDA94)										



- The value of activity & species data
- Mapping standards: The spatial feature & attributes
- Where to find mapping information and shapefile templates

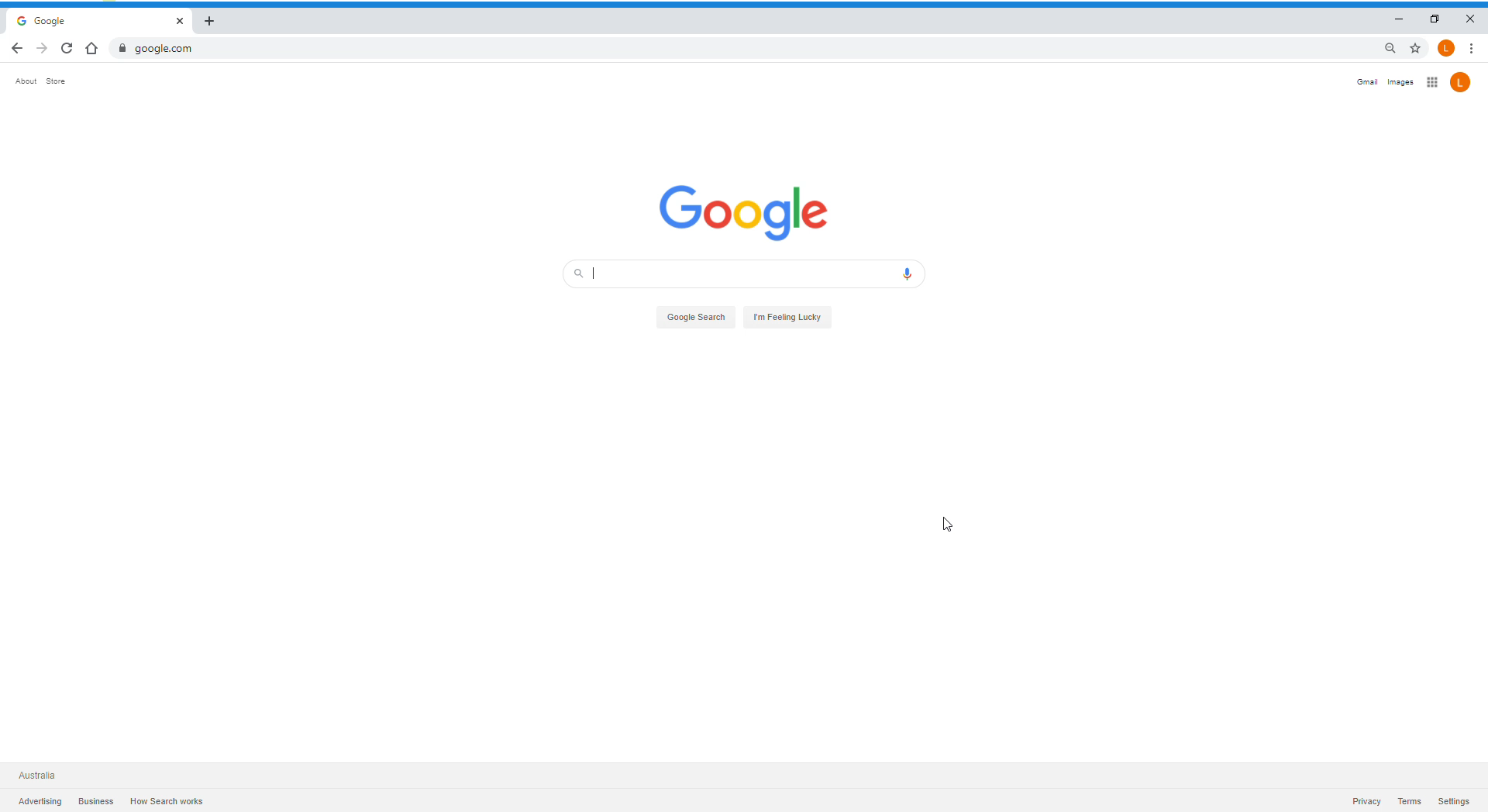
Process to map activity data using GIS



1. Visit the [Activity Data](#) website and check the 'Provide activity data using GIS systems' ➔ 'Provide data using shapefile templates' section.
2. Download the [Biodiversity activity data requirements shapefiles templates](#), download the [Biodiversity 2037 Activity Data Requirements](#) Excel file and the [VBA species check-list](#).
3. Select the shapefile template for the activity you need to map – There is a shapefile template for each activity. Upload shapefile template into GIS and map your activities.
4. Fill values in the attribute table using the [Biodiversity 2037 Activity Data Requirements](#) Excel file as a guide.
5. Once mapping is finalised, zip shapefiles and name as follows:
Grants Online application number_Projectname_Date
(YYYYMMDD)

e.g. GA-F12345-6789_BAWBAWFROG _20201116.zip

DELWP Activity data webpage



Download: Shapefile templates/ activity data requirements/ VBA species check-list

File Home Share View Compressed Folder Tools Extract Bio2037v1_shapefiles

Documents Pictures J:\ Foundation Systems application OnGoing Docs_not shared - Copy

OneDrive - Department of Environment, Land, Water and Planning ECP Environment Programs Standards review_Activity Recording Guides

Captures

Extract To

← → ↑ ↓ This PC > Downloads > Bio2037v1.0_shapefiles-templates (2).zip > Bio2037v1_shapefiles

Name	Type	Compressed size	Password protected	Size	Ratio
_Shapefiles attributes list.xlsx	Microsoft Excel Worksheet	27 KB	No	36 KB	24%
1_AnimControl_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	70%
1_AnimControl_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	41%
1_AnimControl_Bio2037v1.shp	SHP File	1 KB	No	1 KB	76%
1_AnimControl_Bio2037v1.shx	SHX File	1 KB	No	1 KB	76%
2_WeedControl_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	70%
2_WeedControl_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	39%
2_WeedControl_Bio2037v1.shp	SHP File	1 KB	No	1 KB	81%
2_WeedControl_Bio2037v1.shx	SHX File	1 KB	No	1 KB	81%
3_RevegRestorat_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	67%
3_RevegRestorat_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	41%
3_RevegRestorat_Bio2037v1.shp	SHP File	1 KB	No	1 KB	76%
3_RevegRestorat_Bio2037v1.shx	SHX File	1 KB	No	1 KB	76%
4_ThreatSppResponse_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	68%
4_ThreatSppResponse_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	39%
4_ThreatSppResponse_Bio2037v1.shp	SHP File	1 KB	No	1 KB	81%
4_ThreatSppResponse_Bio2037v1.shx	SHX File	1 KB	No	1 KB	81%
5_RubishRemov_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	66%
5_RubishRemov_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	39%
5_RubishRemov_Bio2037v1.shp	SHP File	1 KB	No	1 KB	81%
5_RubishRemov_Bio2037v1.shx	SHX File	1 KB	No	1 KB	81%
6_HabitatFeature_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	68%
6_HabitatFeature_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	41%
6_HabitatFeature_Bio2037v1.shp	SHP File	1 KB	No	1 KB	76%
6_HabitatFeature_Bio2037v1.shx	SHX File	1 KB	No	1 KB	76%
7_Fire_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	66%
7_Fire_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	41%
7_Fire_Bio2037v1.shp	SHP File	1 KB	No	1 KB	76%
7_Fire_Bio2037v1.shx	SHX File	1 KB	No	1 KB	76%
8_Fence_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	67%
8_Fence_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	39%
8_Fence_Bio2037v1.shp	SHP File	1 KB	No	1 KB	81%
8_Fence_Bio2037v1.shx	SHX File	1 KB	No	1 KB	81%
9_MonitoringStructure_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	67%
9_MonitoringStructure_Bio2037v1.prj	PRJ File	1 KB	No	1 KB	41%
9_MonitoringStructure_Bio2037v1.shp	SHP File	1 KB	No	1 KB	76%
9_MonitoringStructure_Bio2037v1.shx	SHX File	1 KB	No	1 KB	76%
10_Assessment_Bio2037v1.dbf	DBF File	1 KB	No	1 KB	68%

113 items | 1 item selected 35.0 KB

Download: 'Bio2037 activity data requirements' Excel file

	A	B	C	D	E	F	G	H	I	J	K	L
1	Threatened species response											
2	Actions taken to manage threatened species.											
3												
4	Field (attribute)	Title	Purpose	Type	Treatment area (hectares)	Species	Species common name	No. of individuals	On ground works agent (Agent doing the work/delivery)	On ground works agent name	Total volunteer number	Total volunteer hours
5	shapefile field name abbr	Title	Purpose	Type	TreatmArea	Species	SppComName	NumIndivid	OnGrndAg	OnGrdAgNam	VoluntNum	VoluntHour
6	Valid value	Threatened species response	Restore biological community	Caging	Number	Number		Number	Contractor	Organisation name	Number	Number
7			Restore individual species	Captive breeding					Landowner	Not recorded (select for contractor & Landowner)		
8				Collect/ store seed or vegetative material					Traditional Owner			
9				Connectivity interventions					Managing organisation staff			
10				Cryobanking					Volunteers/ community group			
11				Establish new population								
12				Fenced-wild captive breeding								
13				Genetic interventions								
14				Genetic testing								
15				Germplasm								
16				Inoculate soil								
17				Pollination								
18				Propagation								
19				Species introduction/ reintroduction								
20			Supplementary watering/feeding									
21			Wild to wild translocation.									
22			Other									
23	Spatial feature	Point (projection must be GDA94)										

VBA Species check list

	A	B	C	D	E	F
1	TAXON_ID	SCIENTIFIC_NAME	COMMON_NAME	AUTHORITY	PRIMARY_DISCIPLINE	ALL_DISCIPLINE_CODES
2	5016	Acanthogobius flavimanus	Yellowfin Goby	(Temminck & Schlegel, 1845)	Aquatic fauna	[tf][ma][ai][af]
3	4917	Acanthopagrus australis	Yellow-fin Bream	(Günther, 1859)	Aquatic fauna	[ma][ai][af][tf]
4	4918	Acanthopagrus butcheri	Black Bream	(Munro, 1949)	Aquatic fauna	[ai][ma][tf][af]
5	5018	Afurcagobius tamarensis	Tamar Goby	(Johnston, 1883)	Aquatic fauna	[af][ai][tf]
6	4736	Alabes dorsalis	Common Shore-eel	(Richardson, 1845)	Aquatic fauna	[af]
7	4737	Alabes hoesei	Dwarf Shore-eel		Aquatic fauna	[tf][af]
8	4735	Alabes parvula	Pygmy Shore-eel	Hutchins, 2006	Aquatic fauna	[af][tf]
9	4960	Aldrichetta forsteri	Yellow-eye Mullet	(Valenciennes, 1836)	Aquatic fauna	[ma][ai][tf][af]
10	4941	Amatitlania nigrofasciata	Convict Cichlid	(Günther, 1867)	Aquatic fauna	[af]
11	4864	Ambassis agassizii	Agassiz's Glassfish	Steindachner, 1867	Aquatic fauna	[ai][ma][tf][af]
12	4865	Ambassis jacksoniensis	Port Jackson Glassfish	(Macleay, 1881)	Aquatic fauna	[ai][af][ma][tf]
13	903830	Amphilophus labiatus	Red Devil	(Günther, 1864)	Aquatic fauna	[af]
14	903828	Andinoacara pulcher	Blue Acara	(Gill, 1858)	Aquatic fauna	[af]
15	4651	Anguilla australis	Southern Shortfin Eel	Richardson, 1841	Aquatic fauna	[af][ai][ma][tf]
16	4652	Anguilla reinhardtii	Longfin Eel	Steindachner, 1867	Aquatic fauna	[tf][ma][af][ai]
17	50235	Anguilla spp.	Freshwater Eels	Schrank, 1798	Aquatic fauna	[af]
18	4993	Apopterygion alta	Tasselled Threefin		Aquatic fauna	[af]
19	5020	Arenigobius bifrenatus	Bridled Goby	(Kner, 1865)	Aquatic fauna	[tf][af][ma][ai]
20	5021	Arenigobius frenatus	Halfbridled Goby	(Günther, 1861)	Aquatic fauna	[ma][af][tf][ai]
21	4925	Argyrosomus japonicus	Mulloway	(Temminck & Schlegel, 1844)	Aquatic fauna	[ma][af]
22	4910	Arripis georgianus	Australian Herring	(Valenciennes, 1831)	Aquatic fauna	[af]
23	4911	Arripis trutta	Eastern Australian Salmon	(Bloch & Schneider, 1801)	Aquatic fauna	[af][ma]
24	4909	Arripis truttaceus	Western Australian Salmon	(Cuvier, 1829)	Aquatic fauna	[af][ma][ai][tf]
25	489105	Arripis truttaceus	Western Australian Salmon	(Cuvier, 1829)	Aquatic fauna	[af][ma][ai][tf]

Upload shapefiles in a GIS, map and fill attribute table

The image displays the ArcGIS desktop environment. The main map window shows a geographical area with features like roads (Ridge Rd, Sugarloaf Rd, Skyline Rd, Henley Rd, Westering Rd, Calwell Rd), water bodies (Sugarloaf Reservoir, Bend of Isles), and parks (Warrandyte State Park). The interface includes a menu bar (File, Edit, View, Bookmarks, Insert, Selection, Geoprocessing, Customize, Windows, Help), a toolbar, and a Table of Contents on the left. The Table of Contents lists numerous layers, with 'Vicmap Basemaps' checked. On the right, a file explorer window is open, showing a directory named 'Bio20...' containing a list of files and folders. The files include various databases (.dbf), project files (.prj), and shapefiles (.shp, .shx) for different categories like 'AnimControl', 'WeedControl', 'RevegRestorat', 'ThreatSppResponse', 'RubishRemov', 'HabitatFeature', and 'Fire'. The status bar at the bottom indicates '116 items' and '1 item selected 35.0 KB'.

Name	Date modified
1_AnimControl_Bio2037v1.dbf	27/05/2020
1_AnimControl_Bio2037v1.prj	14/05/2020
1_AnimControl_Bio2037v1.shp	14/05/2020
1_AnimControl_Bio2037v1.shx	14/05/2020
2_WeedControl_Bio2037v1.dbf	27/05/2020
2_WeedControl_Bio2037v1.prj	27/05/2020
2_WeedControl_Bio2037v1.shp	27/05/2020
2_WeedControl_Bio2037v1.shx	27/05/2020
3_RevegRestorat_Bio2037v1.dbf	16/05/2020
3_RevegRestorat_Bio2037v1.prj	14/05/2020
3_RevegRestorat_Bio2037v1.shp	14/05/2020
3_RevegRestorat_Bio2037v1.shx	14/05/2020
4_ThreatSppResponse_Bio2037v1.cpg	10/11/2020
4_ThreatSppResponse_Bio2037v1.dbf	10/11/2020
4_ThreatSppResponse_Bio2037v1.prj	27/05/2020
4_ThreatSppResponse_Bio2037v1.shp	10/11/2020
4_ThreatSppResponse_Bio2037v1.shx	10/11/2020
5_RubishRemov_Bio2037v1.dbf	27/05/2020
5_RubishRemov_Bio2037v1.prj	27/05/2020
5_RubishRemov_Bio2037v1.shp	27/05/2020
5_RubishRemov_Bio2037v1.shx	27/05/2020
6_HabitatFeature_Bio2037v1.dbf	24/05/2020
6_HabitatFeature_Bio2037v1.prj	14/05/2020
6_HabitatFeature_Bio2037v1.shp	14/05/2020
6_HabitatFeature_Bio2037v1.shx	14/05/2020
7_Fire_Bio2037v1.dbf	24/05/2020
7_Fire_Bio2037v1.prj	14/05/2020
7_Fire_Bio2037v1.shp	14/05/2020
7_Fire_Bio2037v1.shx	14/05/2020
8_Fence_Bio2037v1.dbf	27/05/2020
8_Fence_Bio2037v1.prj	27/05/2020
8_Fence_Bio2037v1.shp	27/05/2020
8_Fence_Bio2037v1.shx	27/05/2020
9_MonitoringStructure_Bio2037v1.dbf	18/05/2020
9_MonitoringStructure_Bio2037v1.prj	17/05/2020
9_MonitoringStructure_Bio2037v1.shp	17/05/2020
9_MonitoringStructure_Bio2037v1.shx	17/05/2020

2528933.7 2423704.408 Meters