



DATA
61



Putting metadata on the map

**Producing enhanced geospatial visualisations from
open-source tools to encourage metadata creation**

Samuel Spencer, Senior Software Engineer

IASSIST Annual Conference 2017 – June 2017

www.data61.csiro.au

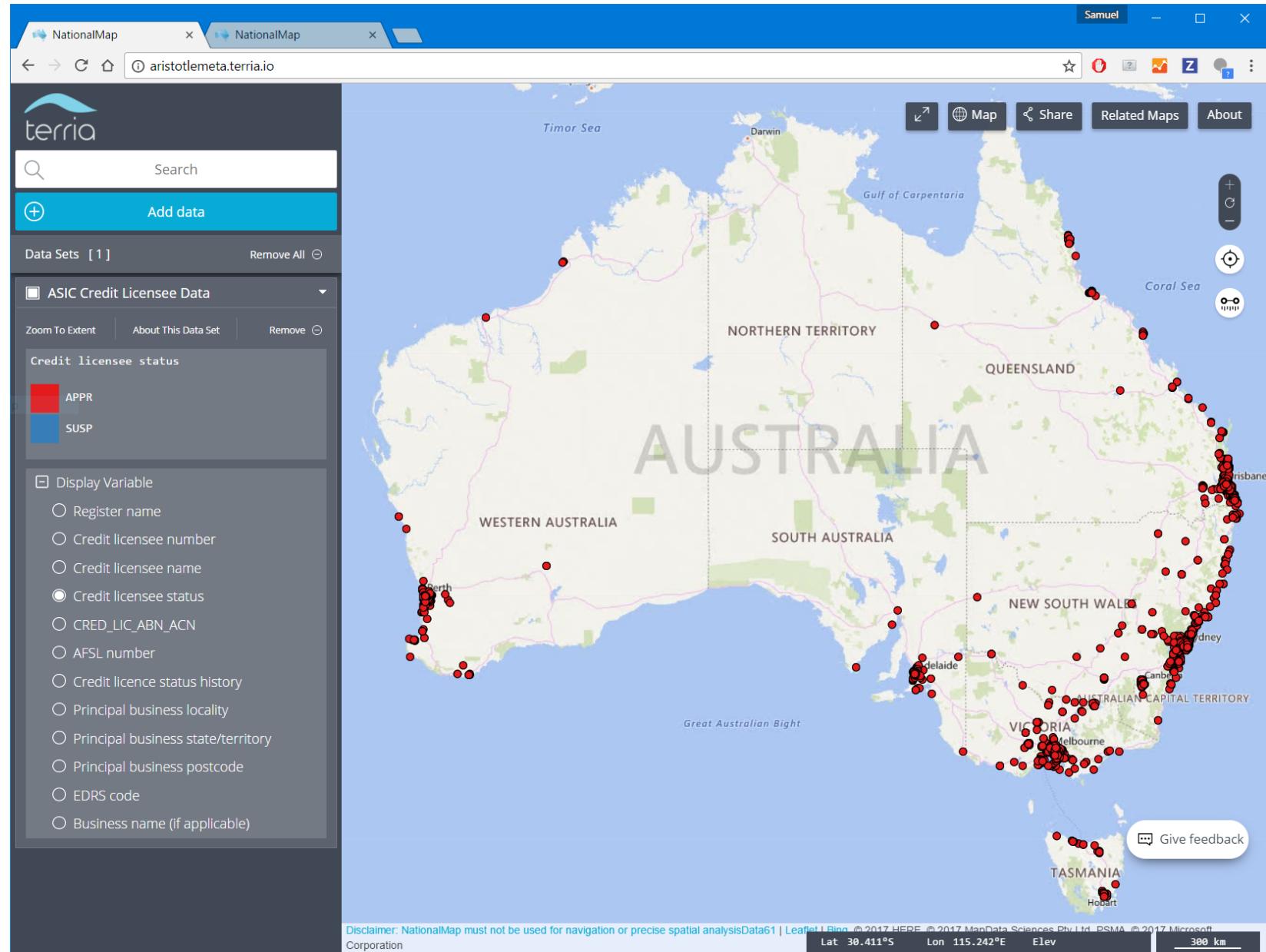


ARISTOTLE
metadata registry

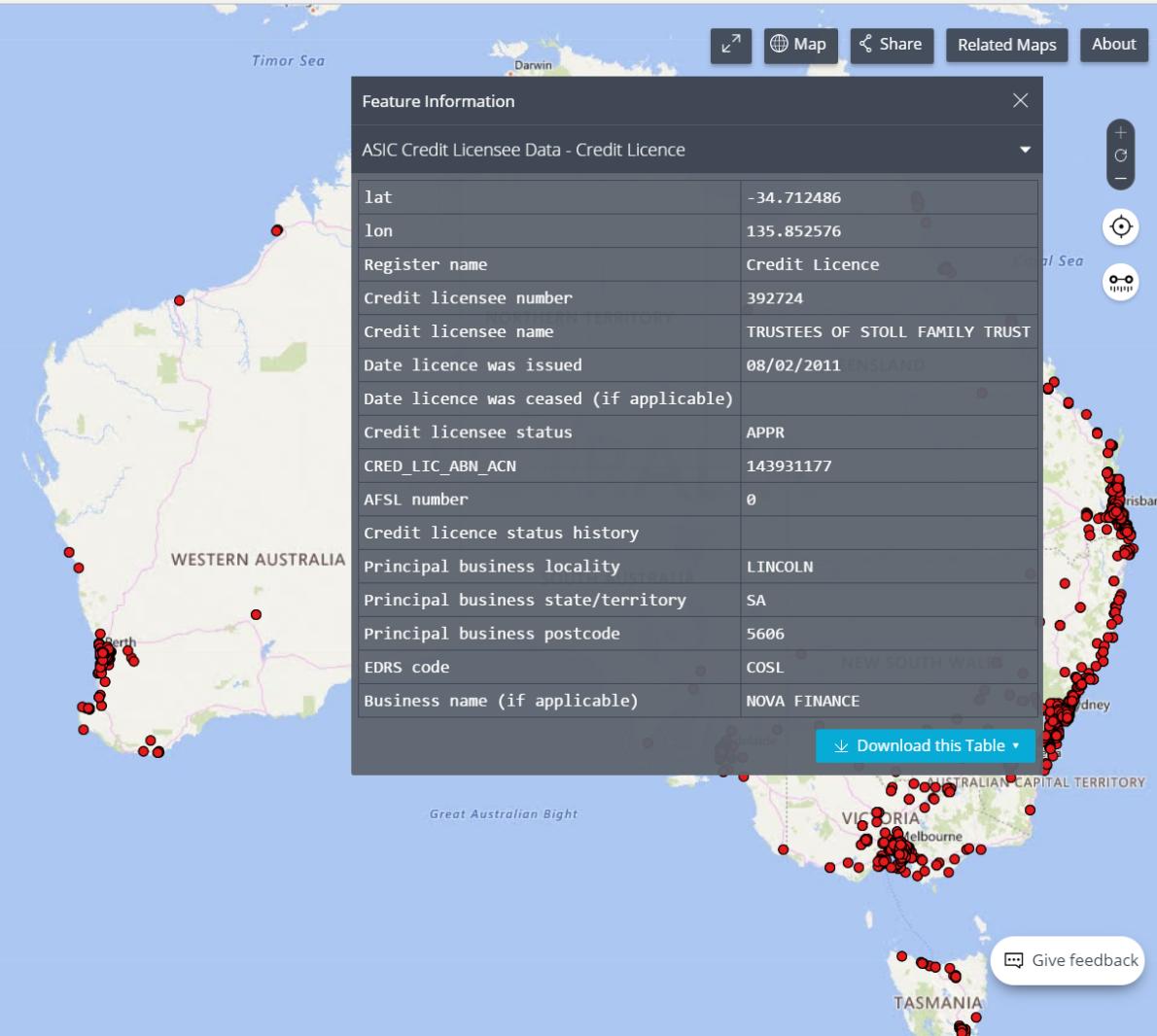


Grid	Graph	Map	5742 records	«	1	– 100	»	<input type="text"/>	Search data ...	Go »	Filters
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1	Credit Lic...	219612	GIPPSR...	4/10/2010		APPR	8000544...	219612			LEONGA..
2	Credit Lic...	220976	THEO VA...	23/12/2010		APPR	6800701...	220976			GREENS..
3	Credit Lic...	221235	OZPLAN...	21/02/2011		APPR	3500539...	221235			BENALLA
4	Credit Lic...	222213	LA TROB...	16/03/2011		APPR	2700733...	222213			TRARAL..
5	Credit Lic...	222640	GLOBAL...	14/12/2010		APPR	2009055...	222640			MASCOT
6	Credit Lic...	222650	KINSME...	1/10/2015		APPR	5010013...	222650			BANKSM..
7	Credit Lic...	222835	PLANNIN...	28/02/2011		APPR	6409006...	222835			CAMBER..
8	Credit Lic...	223135	CAPSTO...	12/01/2011		APPR	2409373...	223135			MELBOU..
9	Credit Lic...	223246	RMBL IN...	3/03/2011		APPR	1900449...	223246			DANDEN..
10	Credit Lic...	223328	M D PHIL...	17/01/2011		APPR	4300182...	223328			NORTH ...
11	Credit Lic...	223610	MCA FIN...	9/03/2011		APPR	4210173...	223610			CARRUM.
12	Credit Lic...	223947	TOWNSH...	2/04/2015		APPR	9408286...	223947			TEMPLE..
13	Credit Lic...	224150	ARA CO...	14/04/2011		APPR	7810230...	224150			BALWYN
14	Credit Lic...	224543	FYG PLA...	21/02/2011		APPR	5509497...	224543			BURNIE
15	Credit Lic...	224900	MELMAI...	21/04/2011		APPR	8609002...	224900			COBRAM
16	Credit Lic...	225029	THE PRI...	25/03/2011		APPR	8200371...	225029			DOUBLE..
17	Credit Lic...	225071	RESULT...	9/02/2011		APPR	4707674...	225071			BENDIGO
18	Credit Lic...	225172	PROVID...	31/01/2011		APPR	7808273...	225172			SYDNEY
19	Credit Lic...	225216	HNW PL...	10/02/2011		APPR	4208374...	225216			ERINA
20	Credit Lic...	225256	UNIVER...	24/02/2011		APPR	2009525...	0			MAITLAND
21	Credit Lic...	225336	CAPE C...	24/12/2010		APPR	7808764...	225336			ST' KUR...
22	Credit Lic...	225379	THE SAL...	7/04/2011		APPR	5108933...	0			THE RO...

	A	B	C	D	E	F	G	H	I	J
1	Name	Definition	Object	Property	Value domain description	Data Type	Maximum length	Format	Column	Notes
2	Register name	The name of the register the record belongs to.	Register	Name	String identifying the register name	Text	255		REGISTER_NAME	
3	AFS licence number	A unique identifying number allocated to the	Licence	Identification Number	Format: 9 digit numerical including leading zeros (e.g. 012345678)	Number	9 N(9)		AFS_LIC_NUM	
4	AFS licensee name	The register entry name of the AFS licensee.	Licence	Register Name	As appears on ASIC's register Logic:	Text	255		AFS_LIC_NAME	
5	ABN/ACN/ARBN (if applicable)	The AFS licensee's Australian Business	Business	ABN or ACN Number	The ABN or ACN for the Australian Financial Services licensee	Number	11 N(11)		AFS_LIC_ABN_ACN	
6	Date licence was issued	The start date of the AFS licensee	Licence	Issue Date	Date format: DD/MM/YYYY	Date	10 DD/MM/Y		AFS_LIC_START_DT	
7	Pre-FSR role and Pre-FSR licence number (if applicable)	The register identifier and licence number for	AFS Licence	Register Name and Number	Register Identifier: FutAdv = Futures adviser	Text	255		AFS_LIC_PRE_FSR	
8	Principal business locality	The town of the current principal business	Address	Locality	Locality from current principal business address	Text	255		AFS_LIC_ADD_LOCAL	
9	Principal business state/territory	The state of the current principal business	Address	Postcode	State from current principal business address of the AFS licensee.	Text	3 A(3)		AFS_LIC_ADD_STATE	
10	Principal business postcode	The postcode of the current principal business	Address	State/Territory	Postcode from current principal business address of the AFS licensee.	Number	4 N(4)		AFS_LIC_ADD_PCODE	
11	Principal business address Country	The country of the principal business	Address	Country	Country from current principal business address of the AFS licensee.	Text	255		AFS_LIC_ADD_COUNTRY	
12	Latitude coordinates	The latitude of the principal business	Address	Latitude	Data represents the first result for latitude from a lookup of the locality, state and	Number	20		AFS_LIC_LAT	
13	Longitude coordinates	The longitude of the principal business	Address	Longitude	Data represents the first result for longitude from a lookup of the locality, state and	Number	20		AFS_LIC_LNG	
14	Licence conditions	Financial services and products the licensee is	Licence	Conditions	Note: This field is a full text description of the condition.	Text	255		AFS_LIC_CONDITION	



NationalMap NationalMap aristotlemeta.terria.io Samuel



Search Add data

Data Sets [1] Remove All

ASIC Credit Licensee Data

Credit licensee status: APPR (red), SUSP (blue)

Display Variable: Register name, Credit licensee number, Credit licensee name, Credit licensee status, CRED_LIC_ABN_ACN, AFSL number, Credit licence status history, Principal business locality, Principal business state/territory, Principal business postcode, EDRS code, Business name (if applicable)

Feature Information: ASIC Credit Licensee Data - Credit Licence

lat	-34.712486
lon	135.852576
Register name	Credit Licence
Credit licensee number	392724
Credit licensee name	TRUSTEES OF STOLL FAMILY TRUST
Date licence was issued	08/02/2011 ENSLAND
Date licence was ceased (if applicable)	
Credit licensee status	APPR
CRED_LIC_ABN_ACN	143931177
AFSL number	0
Credit licence status history	
Principal business locality	LINCOLN
Principal business state/territory	SA
Principal business postcode	5606
EDRS code	COSL
Business name (if applicable)	NOVA FINANCE

Download this Table

Give feedback

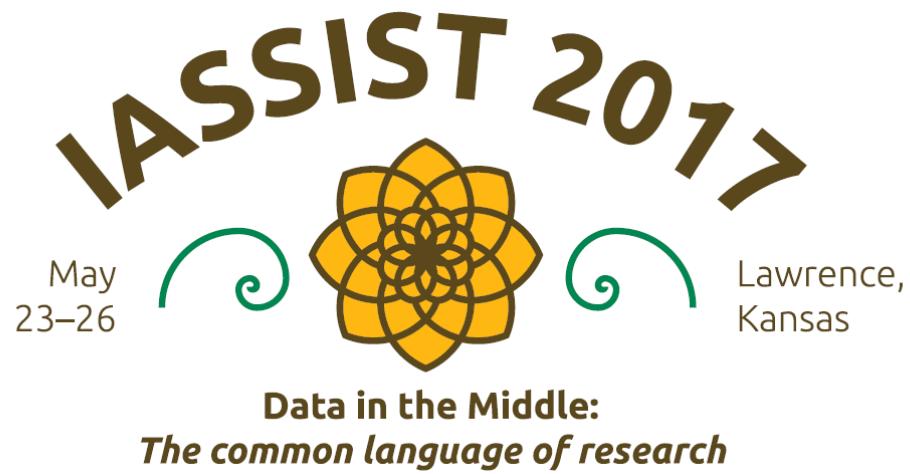
Disclaimer: NationalMap must not be used for navigation or precise spatial analysis
Data61 | Leaflet | Bling © 2017 HERE © 2017 MapData Sciences Pty Ltd PSMA © 2017 Microsoft Corporation Lat 34.705°S Lon 135.809°E Elev 300 km

Meta



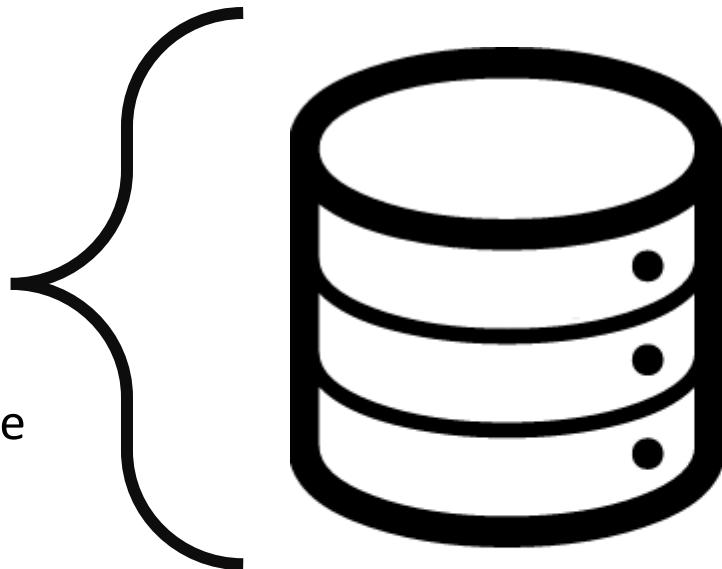
?

What is metadata?



Descriptive vs Structural

- Title
- Description
- Publisher
- Coverage
- Licencing
- Publishing date



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Australian Government **data.gov.au**

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Search data

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Geospatial datasets on data.gov.au and from other spatial indexes are now available through the [National Map](#).

We're keen to hear how you're using public data. Information on submitting your [public data use cases](#) can be found in the [Open Data Toolkit](#). If you're an Australian Government entity and want to share your experience with public data via our public data blog, [please get in touch with us](#).

In addition to open datasets, data.gov.au now includes information about unpublished data and data available for purchase.

The [about page](#) has information about the service including the background, support, terms of use, privacy statement and other information.

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data.gov.au statistics

23k	5.3k	20k	21
discoverable datasets	API enabled resources	openly licenced datasets	unpublished datasets

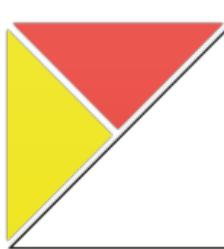
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Working on the new data.gov.au

Posted on Tue, 06 Sep 2016

August 2016 release of G-NAF and Administrative Boundaries now available



ckan

ASIC - Business Names Dataset

ASIC is Australia's corporate, markets and financial services regulator. ASIC contributes to Australia's economic reputation and wellbeing by ensuring that Australia's financial markets are fair and transparent, supported by confident and informed investors and consumers.

Australian business names are required to keep their details up to date on ASIC's Business Name Register. Information contained in the register is made available to the public to search via ASIC's website.

Select data from the ASIC's Business Name Register will be uploaded each month to www.data.gov.au. The data made available will be a snapshot of the register at a point in time. Legislation prescribes the type of information ASIC is allowed to disclose to the public.

The information included in the downloadable dataset is:

- Business Name
- Status
- Date of Registration
- Date of Cancellation
- Renewal Date
- Former State Number (where applicable)
- Previous State of Registration
- Australian Business Number (ABN)

Additional information about companies can be found via [ASIC's website](#). Accessing some information may attract a fee.

More information about searching [ASIC's registers](#).

ASIC - Business Names Dataset

ASIC BN Business Business Name Business Names Government
Register

Additional Info

Field	Value
Title	ASIC - Business Names Dataset
Type	Dataset
Language	English
Licence	Creative Commons Attribution 3.0 Australia
Data Status	active
Update Frequency	monthly
Landing Page	http://data.gov.au/dataset/bc515135-4bb6-4d50-957a-3713709a76d3
Date Published	2014-12-03
Date Updated	2016-11-17
Contact Point	Australian Securities and Investments Commission (ASIC) 1300 300 630 http://www.asic.gov.au/asic/asic.nsf/byheadline/Contacting+us?opendocument
Temporal Coverage	2014-12-01
Geospatial Coverage	Australia
Jurisdiction	Commonwealth of Australia
Data Portal	data.gov.au

ASIC - Business Names Dataset

Data and Resources



Business Names Dataset - Help File

Help File as at 09/09/2016

Explore ▾



Business Names Dataset - Current

Business Names Dataset extract as at 17/11/2016 12:31

Explore ▾

Add Filter

Grid	Graph	Map	2687481 records	«	1	–	100	»	Search data ...	Go »	Filters
_id	Business Name	Business Name Status	Date of ...	Date of ...	Renewa...	Former ...	Previou...	ABN			
1	AtlasCRS	Deregistered	02/11/2012	05/11/2015	02/11/2013			9869868...			
2	STEFAN ELECT...	Registered	06/08/20...		06/08/20...			2747422...			
3	FILARAKIA ENT...	Deregistered	19/03/20...	03/02/20...	19/03/20...	B22662...	VIC				
4	Ace Body Corpo...	Deregistered	21/02/20...	30/06/20...	21/02/20...			6516165...			
5	NetIntercom Ser...	Registered	22/02/20...		22/02/20...			6807541...			
6	Twinkle Toes Ba...	Registered	03/08/20...		23/06/20...			2913389...			
7	townsville west e...	Deregistered	05/12/20...	06/11/2015	05/12/20...			9635323...			
8	Plumbing Gas a...	Registered	08/05/20...		09/05/20...			3094797...			
9	ASSOB INCUBA...	Registered	12/05/20...		12/05/20...			6000802...			

ASIC - Business Names Dataset

Data and Resources



Business Names Dataset - Help File

Help File as at 09/09/2016

Explore ▾

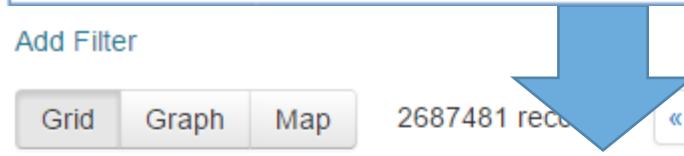
APPENDIX ITEM 2

Business Names Register – Data Dictionary

Field	Description	Data Type	Max Length	Data Parameters				
Business Name	A name used, or to be used, in relation to one or more businesses. Business Name as it appears on ASIC's Business Names register	Text	200	As appears on the ASICs register Allowable characters:				
				A-Z	0-9	.		
				!	()	:		
				;	?	'		
				,	-	&		
				"	=	\$		
				%	#	\		
					/	-		
				{ }	[]	*		
				@	space			
Status	Registration Status for the Business Name	Text	12	Values for this field are limited to the following: Registered: An organisation that is currently registered by ASIC or another government organisation and is listed on ASIC's registers Cancelled: A Business Name that has been cancelled by ASIC (whether voluntarily by its holder, or initiated by ASIC). It ceases to exist as a registered business name. Allowable characters: letters A to Z				

Field	Description	Data Type	Max Length	Data Parameters	
Business Name	A name used, or to be used, in relation to one or more businesses. Business Name as it appears on ASIC's Business Names register	Text	200	As appears on the ASICs register Allowable characters: A-Z 0-9 . ! () : ; ? , - & " = \$ % # \ / { } [] * @ space	

Add Filter



Grid	Graph	Map	2687481 records	«	1	- 100	»	<input type="text"/> Search data ...	Go »	Filters
_id	Business Name	Business Name Status	Date of ...	Date of ...	Renewa...	Former ...	Previous ...	ABN		
1	AtlasCRS	Deregistered	02/11/2012	05/11/2015	02/11/2013			9869868...		
2	STEFAN ELECT...	Registered	06/08/20...		06/08/20...			2747422...		
3	FILARAKIA ENT...	Deregistered	19/03/20...	03/02/20...	19/03/20...	B22662...	VIC			
4	Ace Body Corpo...	Deregistered	21/02/20...	30/06/20...	21/02/20...			6516165...		
5	NetIntercom Ser...	Registered	22/02/20...		22/02/20...			6807541...		
6	Twinkle Toes Ba...	Registered	03/08/20...		23/06/20...			2913389...		
7	townsville west e...	Deregistered	05/12/20...	06/11/2015	05/12/20...			9635323...		
8	Plumbing Gas a...	Registered	08/05/20...		09/05/20...			3094797...		
9	ASSOB INCUBA...	Registered	12/05/20...		12/05/20...			6000802...		

Barriers to government metadata access

Commonly promoted benefits of structural metadata:

- Search and discovery of data
- Improved data understanding
- Better consistency across data
- Better provenance tracking
- Easier reuse of data

Overcoming barriers to metadata access



Search: [5 Minute Metadata - What is metadata?](#)

Overcoming barriers to metadata access



ARISTOTLE
—
metadata registry



CSV

the worlds most widely used data format ™

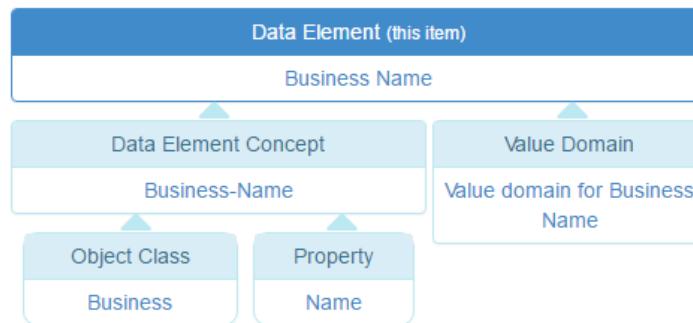


Business Name (Data Element)

Definition

A name used, or to be used, in relation to one or more businesses. Business Name as it appears on ASIC's Business Names register.

Components



Representation

This representation is based on the value domain for this data element, more information is available at "[Value domain for Business Name](#)".

Description	As appears on the ASICs register Allowable characters: A-Z 0-9 . ! () : ; ? ' , - & " = \$ % # \ / _ { } [] * @ space
--------------------	---

Data Type	Text
------------------	------

Maximum character length	200
---------------------------------	-----

Related content

Inclusion in Data distributions

This data element is included in the following Dataset specifications, some datasets may be hidden based on your current permissions.

- [Business Names Dataset - Current](#)
Business Names dataset as at 03/10/2016 13:01
- [ASIC Credit Dataset - Current](#)
ASIC Credit Names dataset as at 03/10/2016 13:01

Business Name	
Type:	Data Element
Aristotle ID:	147512
Endorsed by :	<ul style="list-style-type: none">Standardised by Australian Securities and Investments Commission
Last updated:	18 minutes ago by Sam Spencer
Created:	2016-11-22
Supersedes :	<ul style="list-style-type: none">None
Superseded by :	<ul style="list-style-type: none">None

APPENDIX ITEM 2

Business Names Register – Data Dictionary

Field	Description	Data Type	Max Length	Data Parameters				
Business Name	A name used, or to be used, in relation to one or more businesses. Business Name as it appears on ASIC's Business Names register	Text	200	As appears on the ASICs register Allowable characters:				
				A-Z	0-9	.		
				!	()	:		
				;	?	'		
				,	-	&		
				"	=	\$		
				%	#	\		
					/	-		
				{ }	[]	*		
				@	space			
Status	Registration Status for the Business Name	Text	12	Values for this field are limited to the following: Registered: An organisation that is currently registered by ASIC or another government organisation and is listed on ASIC's registers Cancelled: A Business Name that has been cancelled by ASIC (whether voluntarily by its holder, or initiated by ASIC). It ceases to exist as a registered business name. Allowable characters: letters A to Z				

Minimal CSV metadata profiling

CSV column	11179 Mapping
Data Element	Data Element name
Description	Data Element description
Object	Object Class name
Property	Property name
Value Domain name	Value Domain name
Value Domain description	Value Domain description
Data type	Data Type name
Maximum Length	Value Domain maximum length
Column	<i>Distribution column name (Part 7 draft extension)</i>
Notes	Data Element comments

	A	B	C	D	E	F	G	H	I	J
1	Name	Definition	Object	Property	Value domain description	Data Type	Maximum length	Format	Column	Notes
2	Register name	The name of the register the record belongs to.	Register	Name	String identifying the register name	Text	255		REGISTER_NAME	
3	AFS licence number	A unique identifying number allocated to the	Licence	Identification Number	Format: 9 digit numerical including leading zeros (e.g. 012345678)	Number	9 N(9)		AFS_LIC_NUM	
4	AFS licensee name	The register entry name of the AFS licensee.	Licence	Register Name	As appears on ASIC's register Logic:	Text	255		AFS_LIC_NAME	
5	ABN/ACN/ARBN (if applicable)	The AFS licensee's Australian Business	Business	ABN or ACN Number	The ABN or ACN for the Australian Financial Services licensee	Number	11 N(11)		AFS_LIC_ABN_ACN	
6	Date licence was issued	The start date of the AFS licensee	Licence	Issue Date	Date format: DD/MM/YYYY	Date	10 DD/MM/Y		AFS_LIC_START_DT	
7	Pre-FSR role and Pre-FSR licence number (if applicable)	The register identifier and licence number for	AFS Licence	Register Name and Number	Register Identifier: FutAdv = Futures adviser	Text	255		AFS_LIC_PRE_FSR	
8	Principal business locality	The town of the current principal business	Address	Locality	Locality from current principal business address	Text	255		AFS_LIC_ADD_LOCAL	
9	Principal business state/territory	The state of the current principal business	Address	Postcode	State from current principal business address of the AFS licensee.	Text	3 A(3)		AFS_LIC_ADD_STATE	
10	Principal business postcode	The postcode of the current principal business	Address	State/Territory	Postcode from current principal business address of the AFS licensee.	Number	4 N(4)		AFS_LIC_ADD_PCODE	
11	Principal business address Country	The country of the principal business	Address	Country	Country from current principal business address of the AFS licensee.	Text	255		AFS_LIC_ADD_COUNTRY	
12	Latitude coordinates	The latitude of the principal business	Address	Latitude	Data represents the first result for latitude from a lookup of the locality, state and	Number	20		AFS_LIC_LAT	
13	Longitude coordinates	The longitude of the principal business	Address	Longitude	Data represents the first result for longitude from a lookup of the locality, state and	Number	20		AFS_LIC_LNG	
14	Licence conditions	Financial services and products the licensee is	Licence	Conditions	Note: This field is a full text description of the condition.	Text	255		AFS_LIC_CONDITION	



Congratulations your data dictionary has been uploaded!

You can view your metadata [in your sandbox](#) and a preview of it appears below:

Business names Data Dictionary

The following metadata items were created for you:

- 8 Data Elements
 - [Business Name](#)
 - [Status](#)
 - [Date of Registration](#)
- 8 Data Element Concepts
 - [Business-Name](#)
 - [Business-Name Registration Status](#)

Ways to improve your metadata even further:

- Add a definition to the following *properties*:
 - [Name Registration Status](#)
 - [Former State](#)
 - [ABN Number](#)
- Add a definition to the following *data element concepts*:
 - [Business-Name](#)
 - [Business-Name Registration Status](#)
 - [Business-Name Registration Date](#)

ASIC - Business Names Dataset

Data and Resources



Business Names Dataset - Current

Business Names Dataset extract as at 17/11/2016 12:31

Explore ▾

Data Elements in this dataset

Path name	Data Element	Data type	format	#
Business Name	Business Name	Text		1
Status	Status	Text		1
Date of Registration	Date of Registration	Date/Time	DD/MM/YYYY	1
Date of Cancellation	Date of Cancellation	Date/Time	DD/MM/YYYY	1
Renewal Date	Renewal Date	Date/Time	DD/MM/YYYY	1
Former State Number	Former State Number	Text		1
Previous State of Registration	Previous State of Registration	Text	X[3]	1
ABN	ABN	Text		1

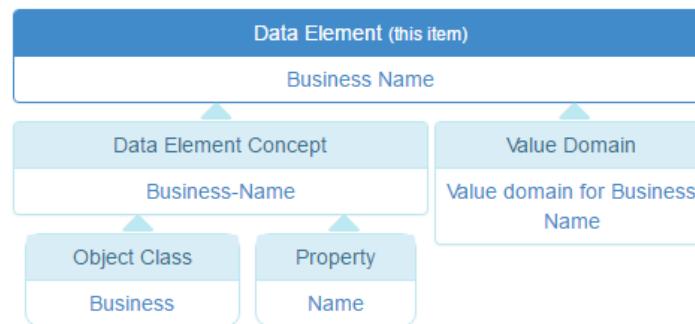


Business Name (Data Element)

Definition

A name used, or to be used, in relation to one or more businesses. Business Name as it appears on ASIC's Business Names register.

Components



Representation

This representation is based on the value domain for this data element, more information is available at "[Value domain for Business Name](#)".

Description	As appears on the ASICs register Allowable characters: A-Z 0-9 . ! () : ; ? ' , - & " = \$ % # \ / _ { } [] * @ space
--------------------	--

Data Type	Text
------------------	------

Related content

Inclusion in Data distributions

This data element is included in the following Dataset specifications, some datasets may be hidden based on your current permissions.

- [Business Names Dataset - Current](#)
Business Names dataset as at 03/10/2016 13:01
- [ASIC Credit Dataset - Current](#)
ASIC Credit Names dataset as at 03/10/2016 13:01



Business Name

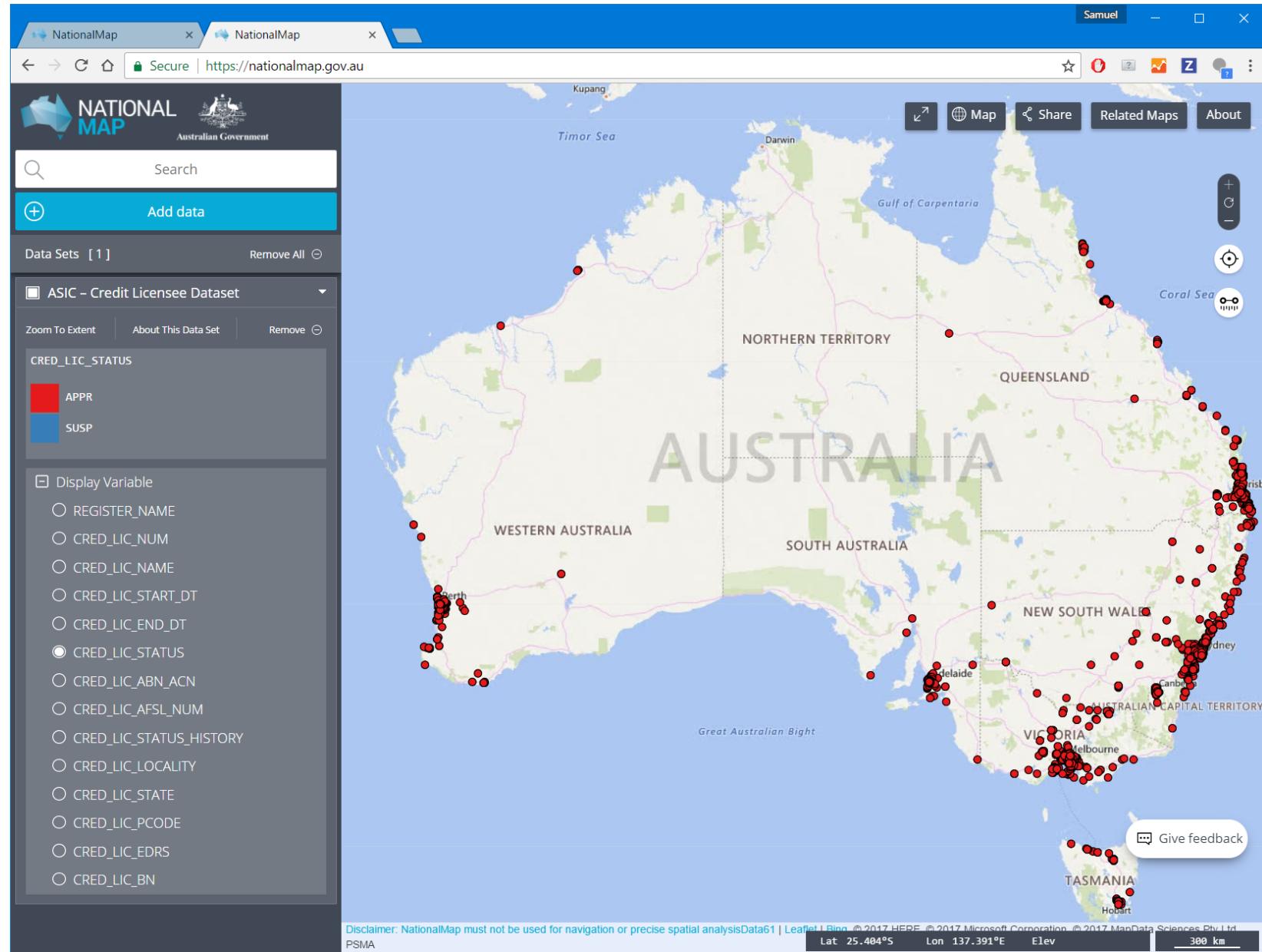
Type:	Data Element
Aristotle ID:	147512
Endorsed by :	<ul style="list-style-type: none">Standardised by Australian Securities and Investments Commission
Last updated:	18 minutes ago by Sam Spencer
Created:	2016-11-22
Supersedes :	<ul style="list-style-type: none">None
Superseded by :	<ul style="list-style-type: none">None

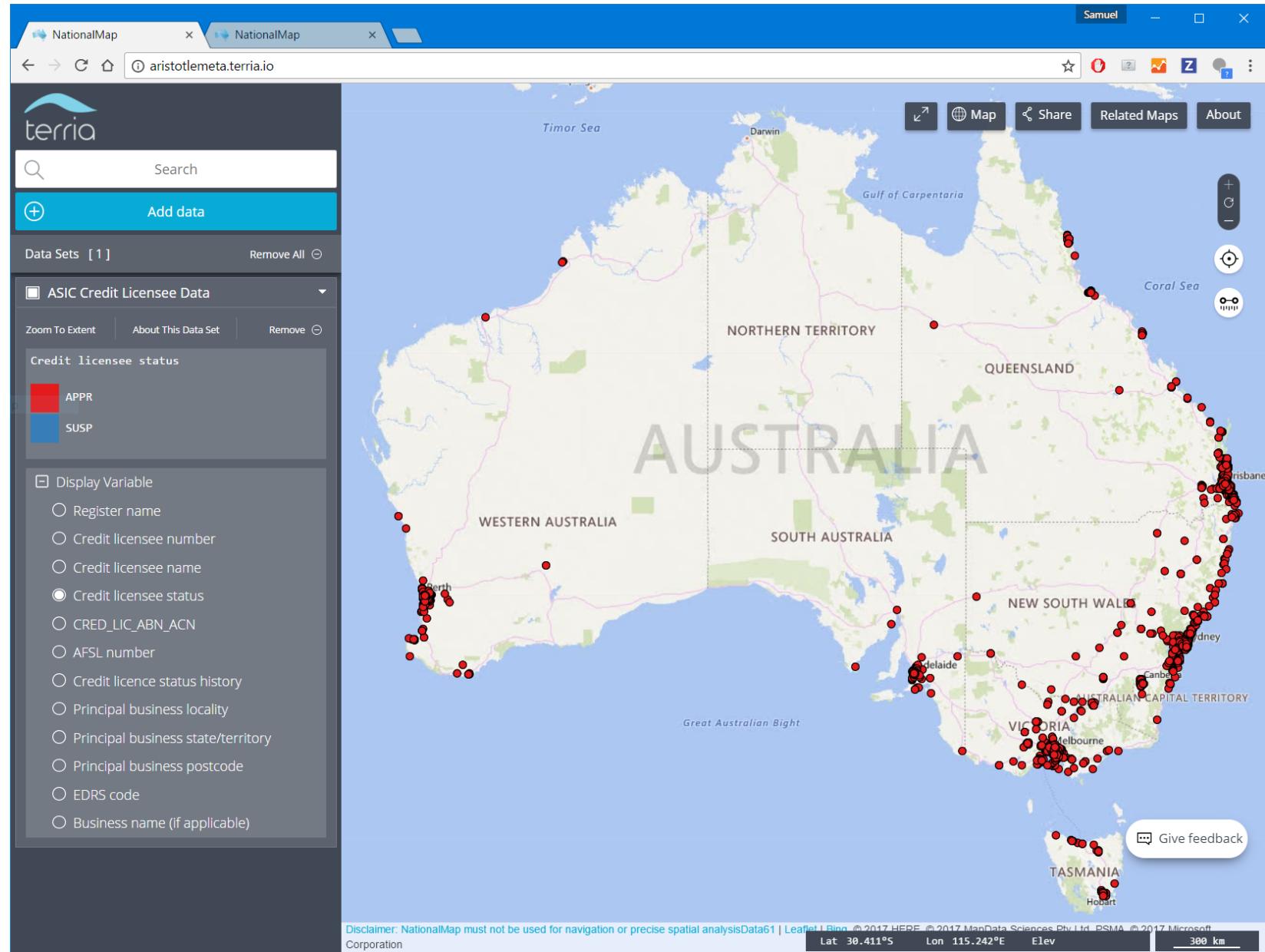
Using metadata to enhance maps



ARISTOTLE

metadata registry





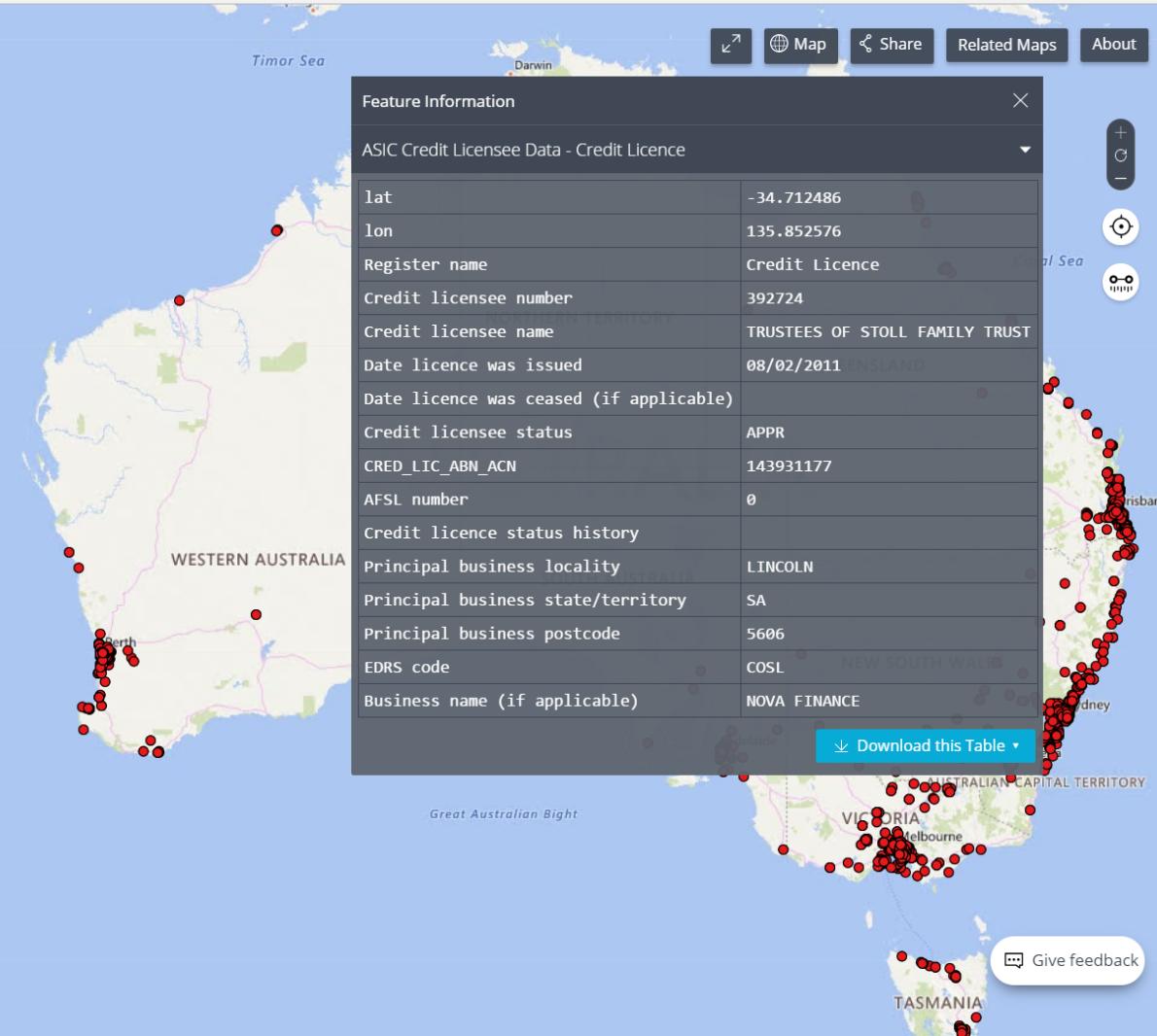
Display Variable

- REGISTER_NAME
- CRED_LIC_NUM
- CRED_LIC_NAME
- CRED_LIC_START_DT
- CRED_LIC_END_DT
- CRED_LIC_STATUS
- CRED_LIC_ABN_ACN
- CRED_LIC_AFSL_NUM
- CRED_LIC_STATUS_HISTORY
- CRED_LIC_LOCALITY
- CRED_LIC_STATE
- CRED_LIC_PCODE

Display Variable

- Register name
- Credit licensee number
- Credit licensee name
- Credit licensee status
- CRED_LIC_ABN_ACN
- AFSL number
- Credit licence status history
- Principal business locality
- Principal business state/territory
- Principal business postcode
- EDRS code
- Business name (if applicable)

NationalMap NationalMap aristotlemeta.terria.io Samuel



Search Add data

Data Sets [1] Remove All

ASIC Credit Licensee Data

Credit licensee status: APPR (red), SUSP (blue)

Display Variable: Register name, Credit licensee number, Credit licensee name, Credit licensee status, CRED_LIC_ABN_ACN, AFSL number, Credit licence status history, Principal business locality, Principal business state/territory, Principal business postcode, EDRS code, Business name (if applicable)

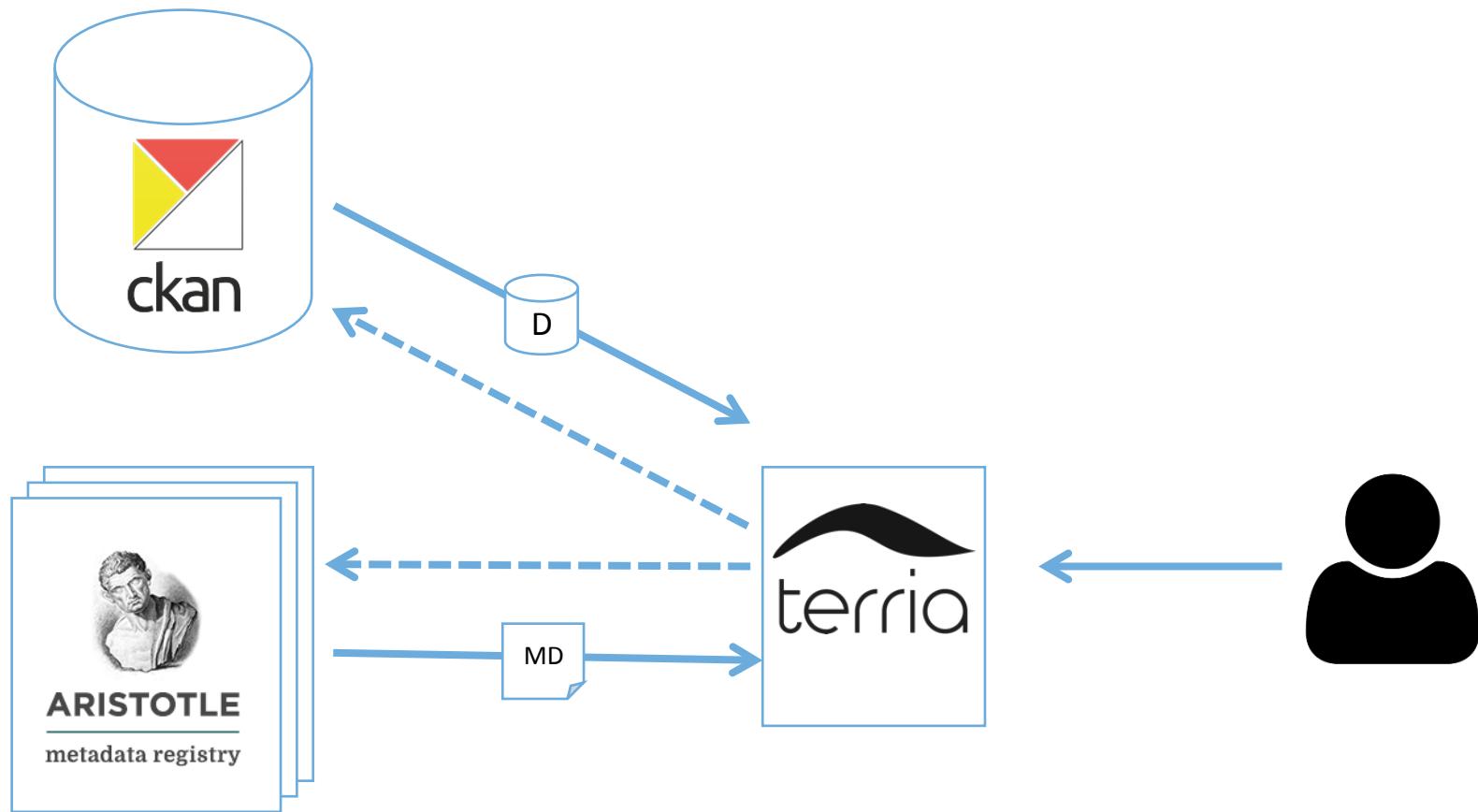
Feature Information: ASIC Credit Licensee Data - Credit Licence

lat	-34.712486
lon	135.852576
Register name	Credit Licence
Credit licensee number	392724
Credit licensee name	TRUSTEES OF STOLL FAMILY TRUST
Date licence was issued	08/02/2011 ENSLAND
Date licence was ceased (if applicable)	
Credit licensee status	APPR
CRED_LIC_ABN_ACN	143931177
AFSL number	0
Credit licence status history	
Principal business locality	LINCOLN
Principal business state/territory	SA
Principal business postcode	5606
EDRS code	COSL
Business name (if applicable)	NOVA FINANCE

Download this Table

Give feedback

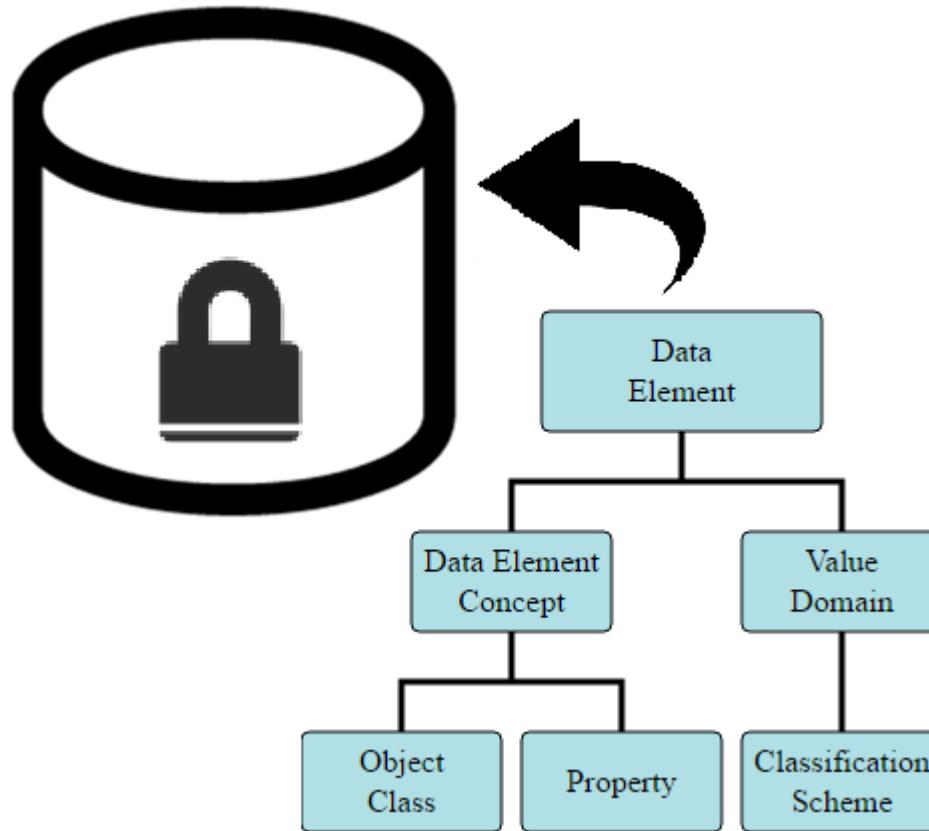
Disclaimer: NationalMap must not be used for navigation or precise spatial analysis
Data61 | Leaflet | Bling © 2017 HERE © 2017 MapData Sciences Pty Ltd PSMA © 2017 Microsoft Corporation Lat 34.705°S Lon 135.809°E Elev 300 km



Mapping aggregate secure data via public metadata



ARISTOTLE
metadata registry



Select the relevant items



There are strict security and confidentiality protocols surrounding use of this data. Prospective users are required to complete a dataset application and read and sign a completed deed of licence. [Find out more](#)

1. Accommodation

Weekly rent amount +

2. Children

Children

Number of Family Tax Benefit children +

Age of youngest child +

Number of children under regular care -

Description [Attributes](#) [Conditions](#) [Exclusions](#)

Technical name: Recipient – regular care child, number N[NN]

Synonymous names: NUM_RCC_CHILD

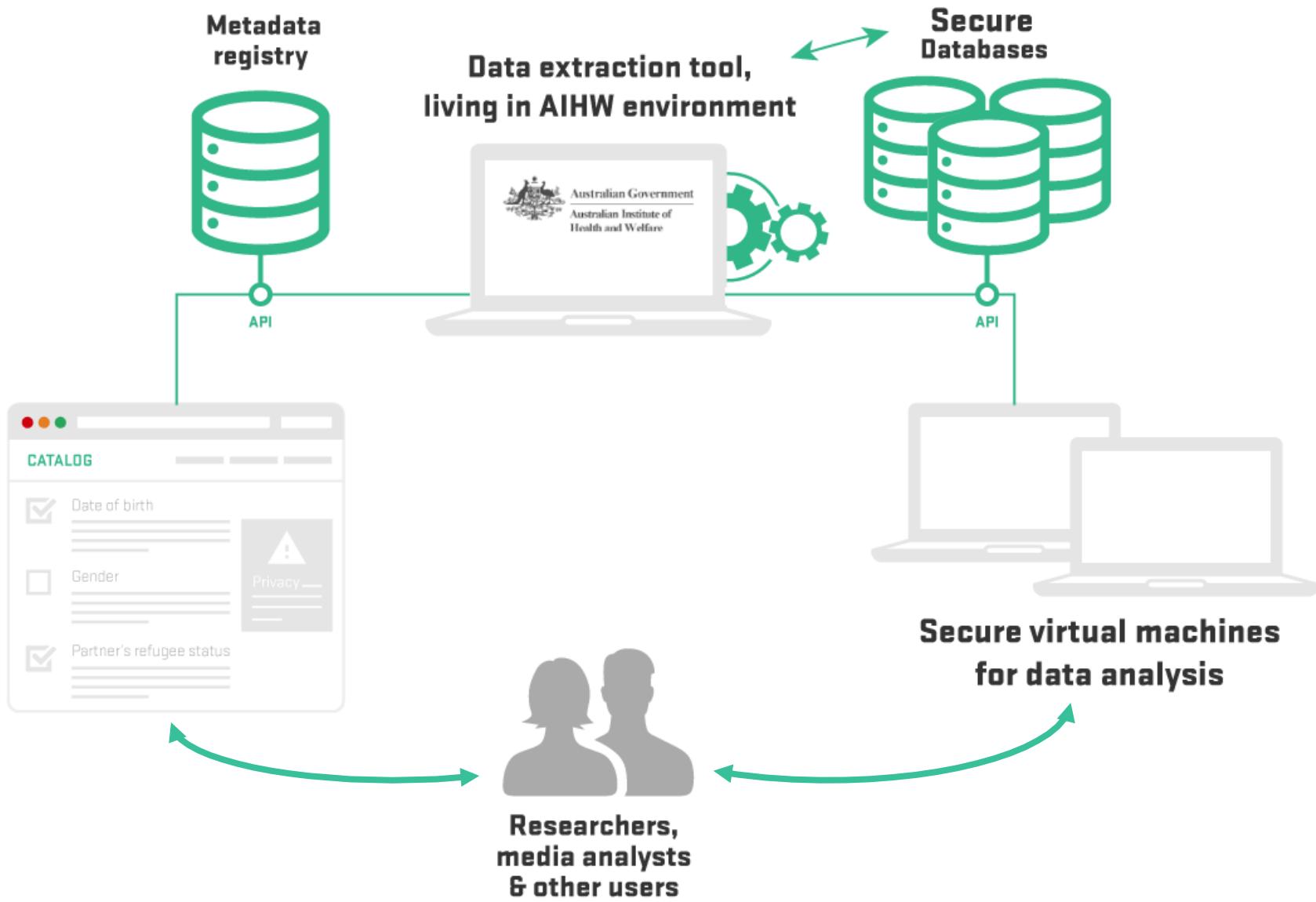
METeOR identifier: 646987

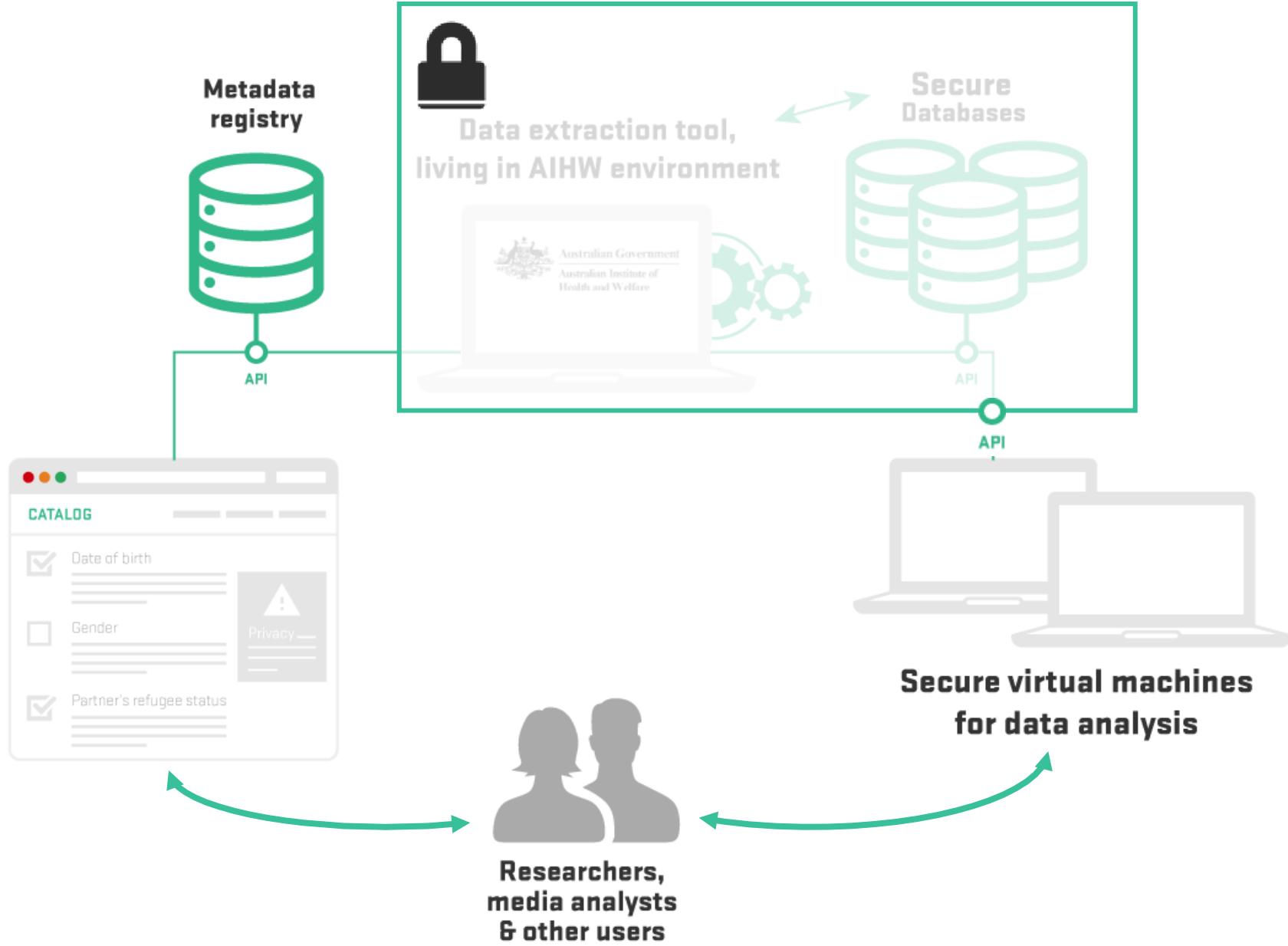
Registration status: Commonwealth Department of Social Services, Proposed
08/09/2016

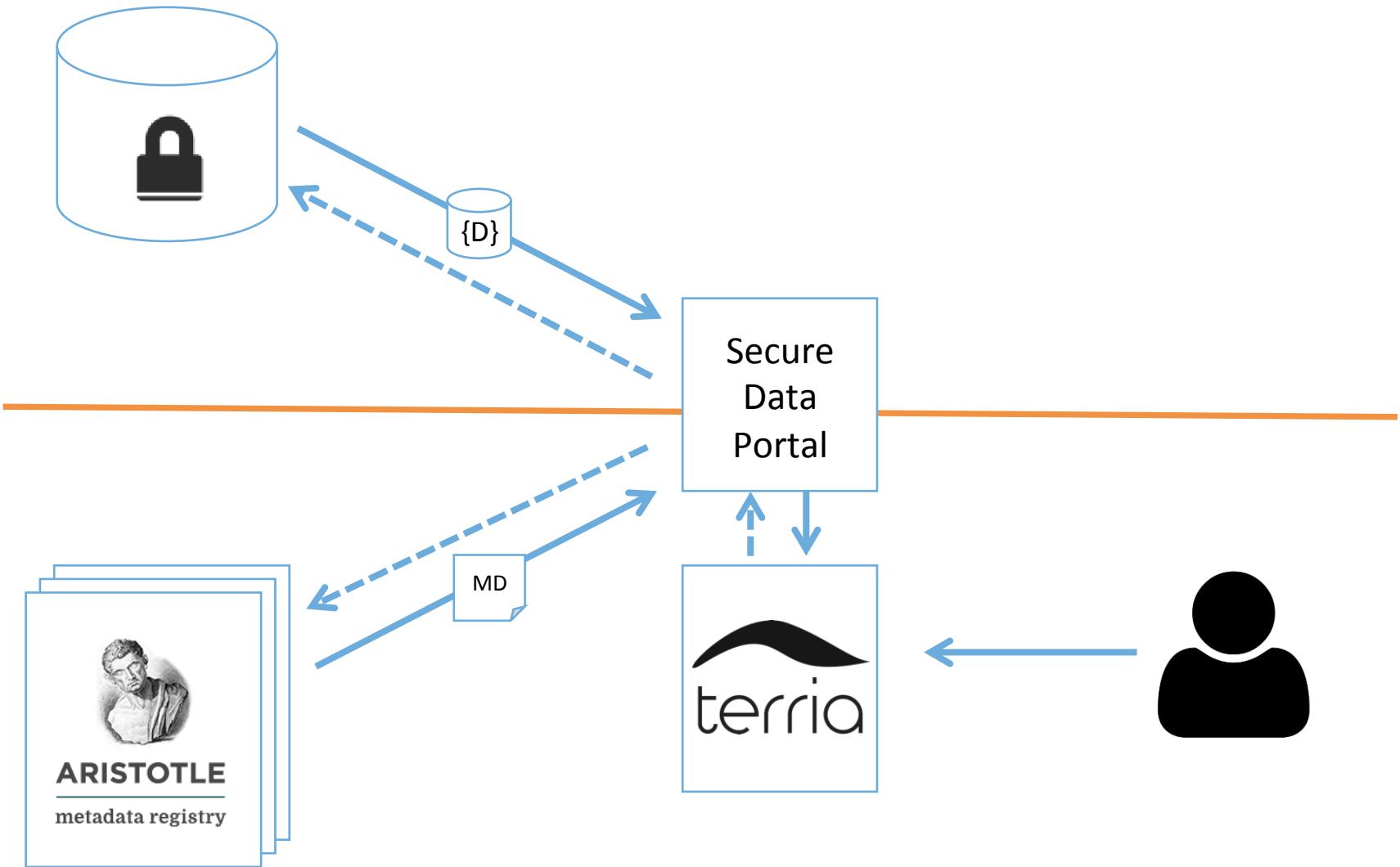
Definition: The number of children for which a recipient has regular care.

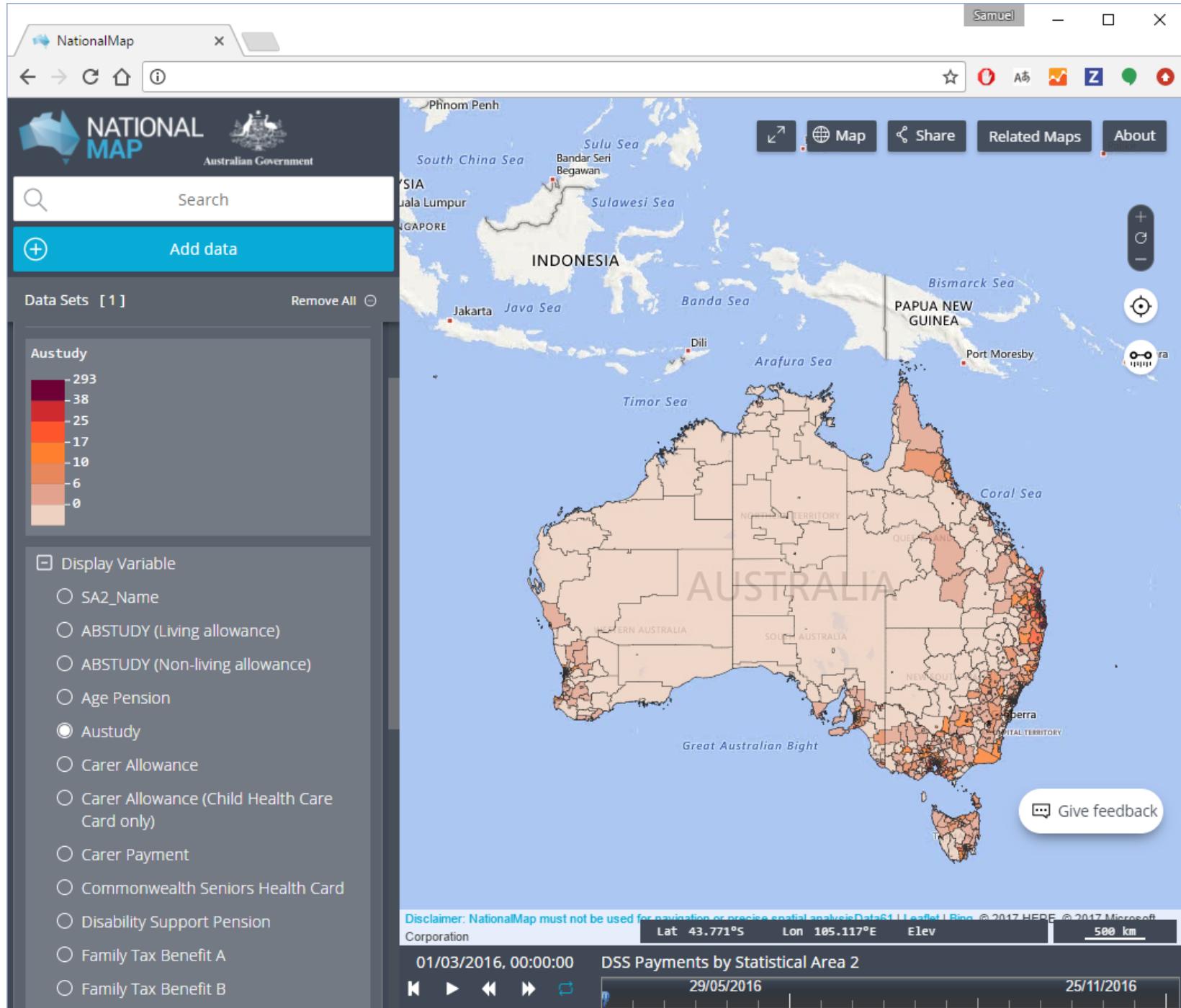
Data Element Concept: Recipient – regular care child

Your selection: Raw data Synthesized data ?

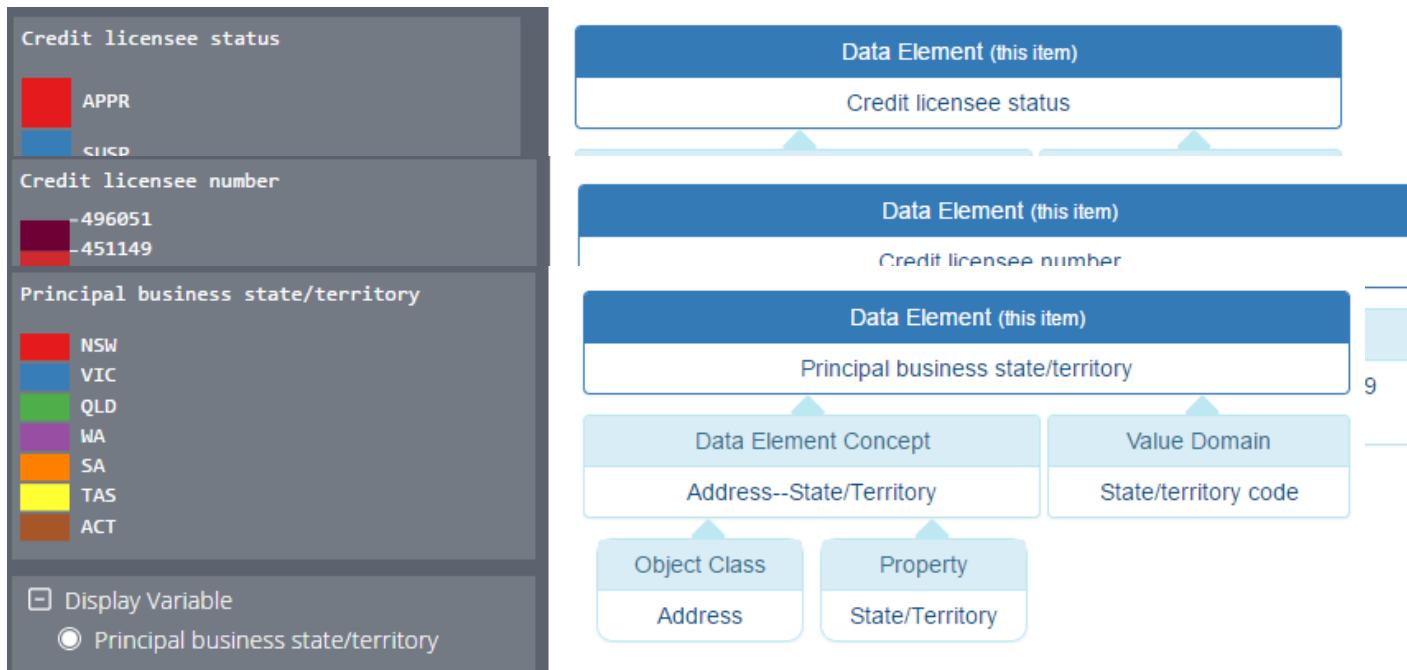








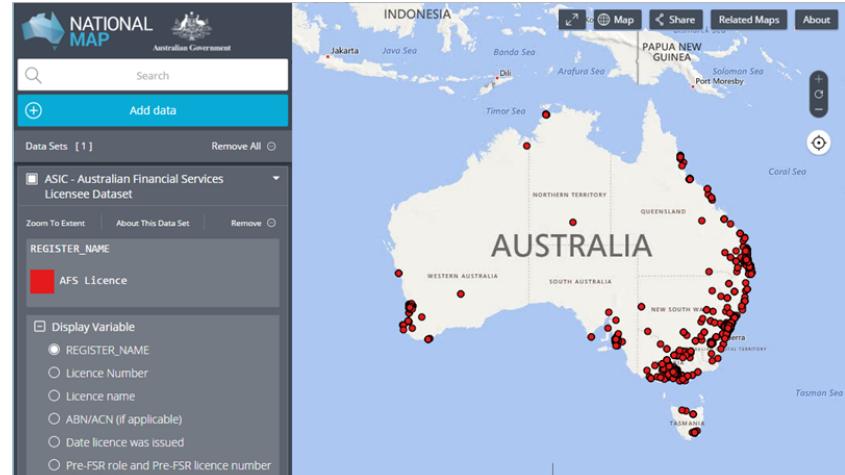
Next steps



Lessons learned

1. Education
2. Compromise
3. Deliver

Questions?



Search:
5 Minute Metadata - What is metadata?

<http://www.nationalmap.gov.au>
<http://aristotlemeta.terria.io>



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