GovHack

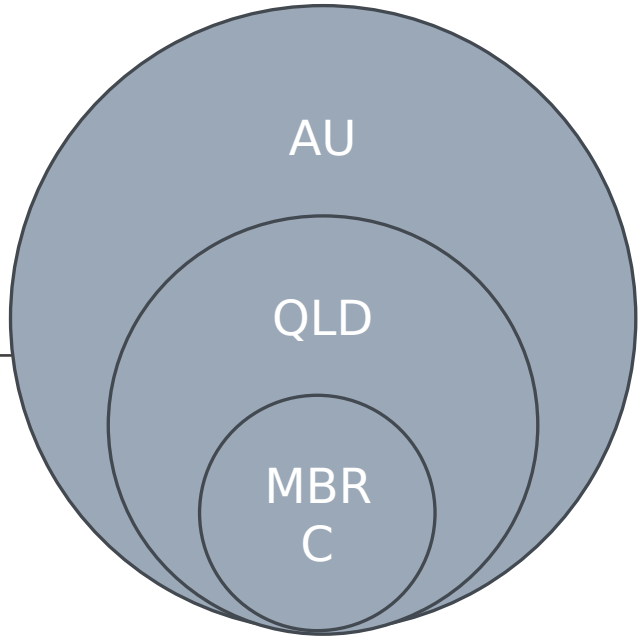
DATA ANALYSIS

The Plan

Start with Moreton Bay Regional Council data

Enhance that data with Queensland government data

Enhance that further with National data



Datasets looked at

The MBRC datasets https://datahub.moretonbay.qld.gov.au/

The QLD Government Data https://www.data.qld.gov.au/

Focussing on environmental datasets
https://www.data.qld.gov.au/organization/environment-science-and-innovation

The Australian Faunal Directory https://biodiversity.org.au/afd/home

The Atlas of Living Australia https://www.ala.org.au/sites-and-services/

The National Vegetation Information System
https://fed.dcceew.gov.au/search?q=nvis

Our Limitations

In the time that we had to do any data analysis, it was decided to focus on textual not geospatial analysis

So MS Access was used to import the various datasets to analyse and combine them

Issues Found

Unfortunately, a lot of the data was found to be spatial without textual fields that would allow textual linking and analysis

Datasets with textual data had data quality issues:

- MBRC_Planning_Scheme_-_Heritage_Landscape_Significant_Trees had issues with a number of tree types misspelt and both proper and common names mixed in the one field.
- The MBRC Shorebird_Roosts datasets were supposed to have “shorebird count data for each roost site over the period 1991 to February 2021 inclusive.”, but this data wasn’t present

Data Used

In the end the “Koala_Monitoring_The_Mill” dataset was used for some analysis (following)

There wasn’t enough time to find other datasets to enhance the MBRC data.

Koala Data Analysis

Measure	
Number of Koalas spotted in 2018 but not 2022	34
Number of Koalas spotted in 2022 but not 2018	74
Number of Koalas spotted in both 2018 and 2022	45

Koala Detail

koalasBoth | koalasMissing | **koalasNew**

Koala_ID	nrTimes
K101	18
K103	18
K104	17
K107	16
K109	13
K11	19
K115	16
K123	1
K139	3
K140	19
K141	13
K142	17
K143	1
K144	17
K145	17
K146	18
K148	4
K149	19
K150	15
K151	2
K152	21
K153	4
K154	4
K155	18
K156	4
K157	18
K158	19
K159	17
K16	14

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koalasBoth | **koalasMissing**

Koala_ID	nrTimes
K100	6
K102	6
K108	1
K110	9
K111	13
K116	13
K12	12
K124	13
K127	13
K128	13
K133	13
K135	12
K22	13
K26	14
K27	13
K32	13
K33	13
K38	1
K46	2
K50	9
K55	3
K56	13
K58	3
K63	13
K73	10
K74	3
K79	2
K83	13
K84	10

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koalasBoth | koalasMissing | koalasNew

Koala_ID	koalas2018.nrTimes	koalas2022.nrTimes
K10	13	20
K105	12	4
K106	13	15
K112	13	17
K114	13	15
K117	13	17
K118	5	2
K120	4	16
K121	13	13
K125	13	17
K126	14	1
K129	7	1
K130	7	15
K131	13	15
K134	13	2
K136	2	17
K138	10	14
K14	8	3
K17	12	4
K18	12	17
K19	13	18
K2	13	14
K21	2	17
K29	13	17
K3	13	3
K35	13	15
K39	13	19
K41	13	14
K45	13	7

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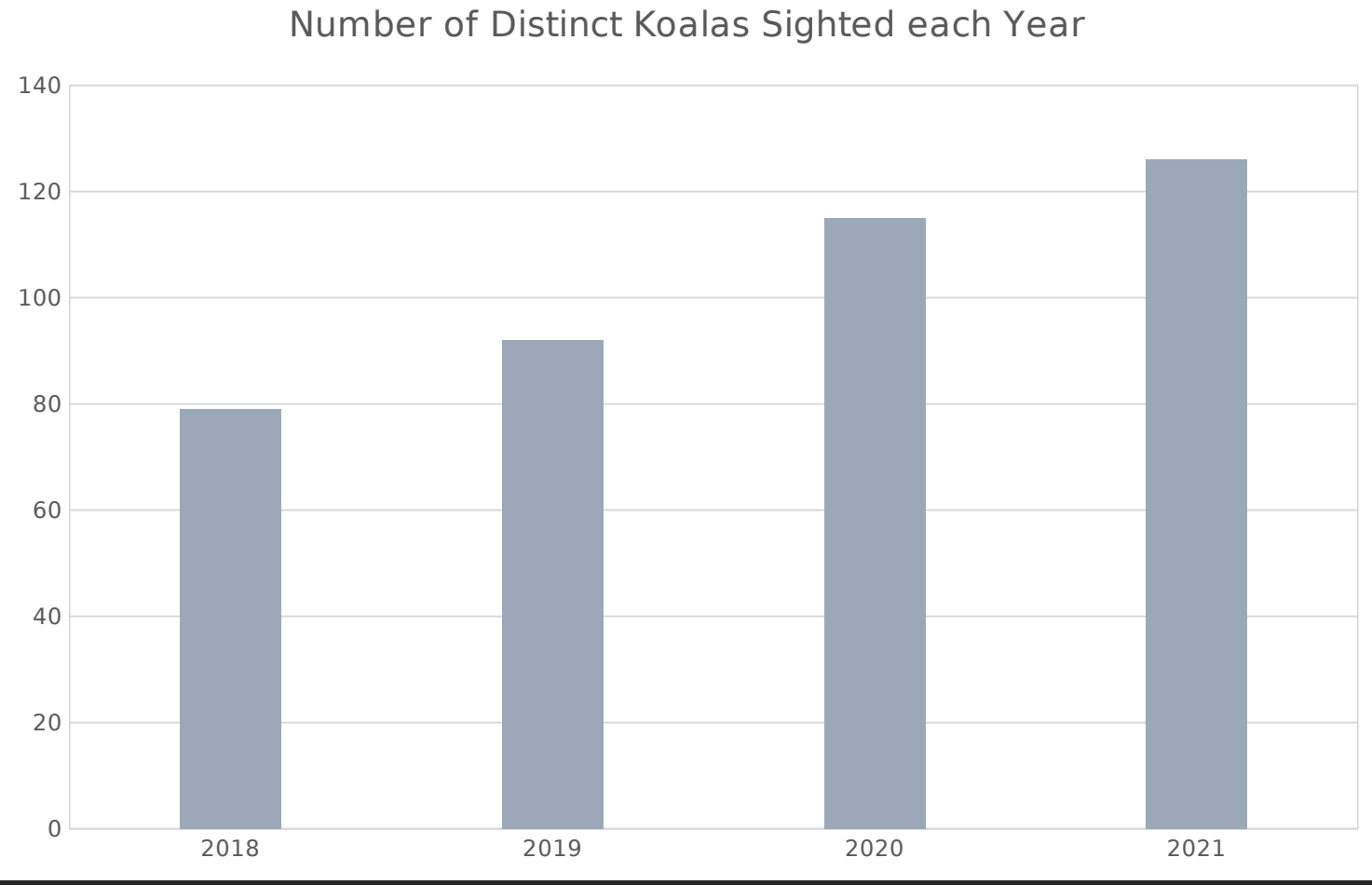
Koala Sighting Summary

2018	2019	2020	2021
79	92	115	126



Future Learnings

If we participate in another GovHack challenge, use the guidance at https://govhack.org/handbook/geographic-data/ to set up a geospatial engine and load in key national datasets to give us a prepared spatial framework