TG3: Use Case Library

Data Quality

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Context and purpose

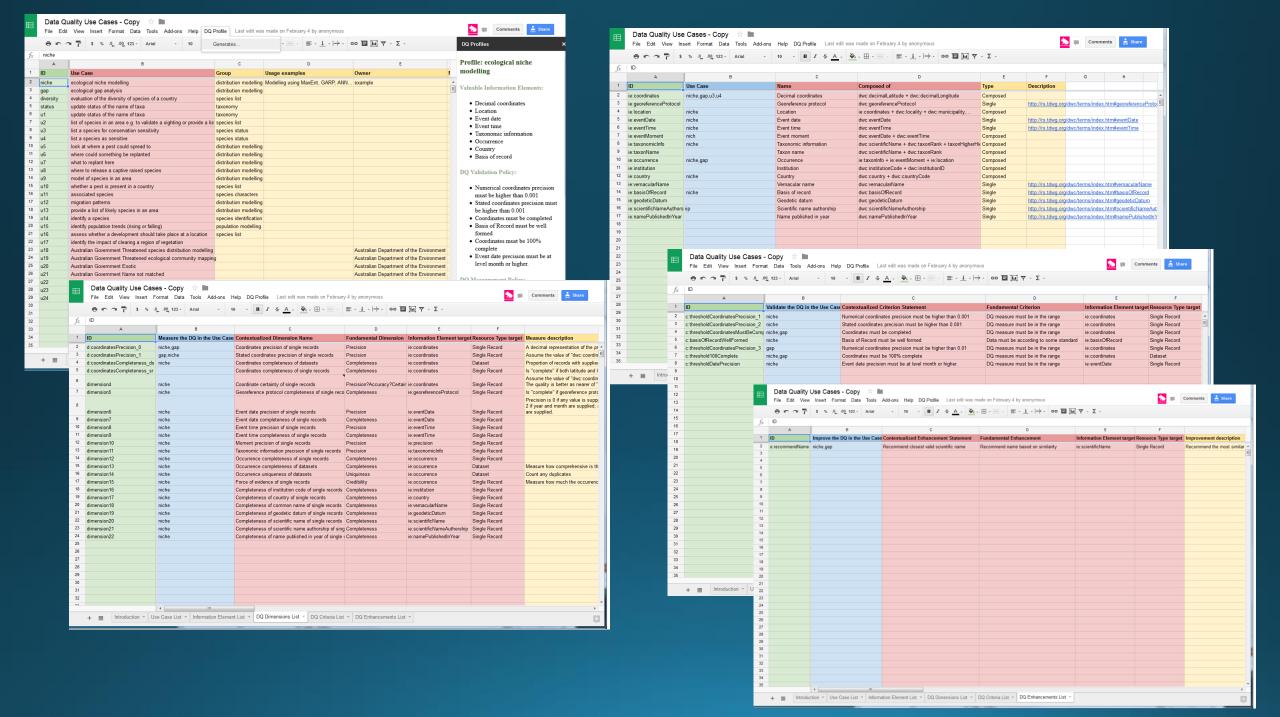
- The third task group of the GBIF TDWG biodiversity data quality interest group
- Tasked to assemble a library of use cases describing specific examples of data selection

Anticipated Process

- 1. Use the framework from TG1 to understand the information that needs to be captured in a data quality use case
- 2. Create a model to store use case descriptions
- 3. Capture use cases
- 4. Analyse the use case elements
- 5. Cross reference the use cases against the tools from TG2
- 6. Identify areas for additional quality tools

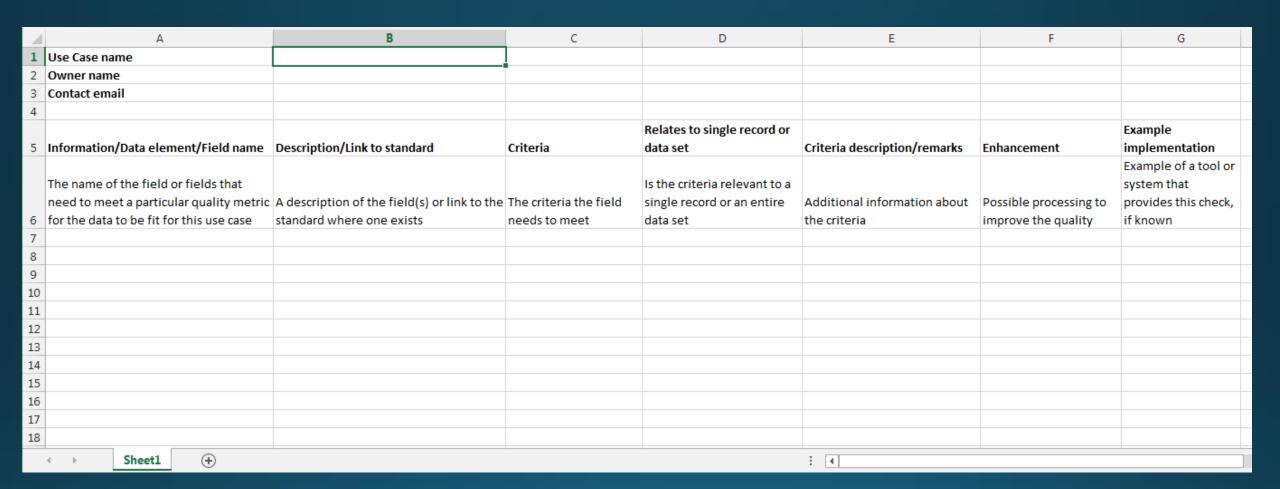
Actual process

- The first few steps were relatively straight forward:
- Running through a few examples helped in understanding the practical application of the framework and led to the development of a <u>use case description store</u> – a series of related worksheets to capture a use case:
 - Sheets that collect the elements from the framework: Use Case Title, Information Elements, Data Quality Dimensions, Data Quality Criteria and Data Quality Enhancements
- Allan Koch Veiga added a DQ profile tool which produces a report based on the information in the worksheets



Actual process

- Review of the initial worksheets indicated that although it collected the required information the level of technical understanding required to fill in the series of related sheets was likely too high for it to be widely used.
- That the worksheets were online and didn't export well was also a barrier to data entry
- So an additional offline sheet was developed focussed on capturing a single use case as simply as possible



 Once the template was filled in it would be converted to the more complex data structure manually

Actual Process

 The template was then posted up on the GBIF community site with some help material, a worked example and a request for contributions

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 A further post was added to indicate that an email with a text description would be enough to start the process

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Unfortunately there has been very little participation

Key challenge so far

- How to address the limited number of contributions:
 - Is the community aware of the working groups and what we're doing?
 - More and varied communication channels
 - More frequent updates on progress
 - More communication on the purpose and outcomes of the work to encourage participation
 - Are the proposed tools too difficult to use?
 - Needs feedback on the usability of the framework and worksheets from the community using them

What's next

- Continue to collect use cases
 - Improve communication
 - Publicise contributions
- Transfer use cases to the use case store
- Improve use case collection tools based on feedback

The future

- Encourage use of the use case library as a resource to research how data is selected for particular purposes
- Begin to build profiles of the most used information elements, dimensions and criteria
 - Feed these back to tools and initiatives that collect data
- Feedback use cases into the development of data quality assessment tools
- Begin to develop automated data selection for use cases

ThankYou

Do you have a data quality use case?

Task Group 3 - Use Case Library for Data Quality