

How to build trustworthy biodiversity indicators



Our project is generating three integrated processes for building trustworthy biodiversity indicators.



Building engagement and trust

Building trust in our bird indicators and measures by engaging the science and non-science community in their development.



Harmonising indicators for reporting

Delivering a harmonised system for combining data from multiple sources to provide bird metrics that can report complex trends in biodiversity status in a succinct, accurate and comparable manner across a range of spatial scales.



Ways to improve

Adding value to existing bird monitoring initiatives and information by improving data collection and reporting methods.

Building engagement and trust

We are building trust in biodiversity indicators by engaging the science and non-science community in their development.



Goals and biodiversity of interest

Identifying the range of goals and biodiversity values of interest to different people and organisations involved in monitoring and reporting in New Zealand.



Barriers to data use

- Determining barriers to data sharing and awareness
 - Identifying criteria used to decide whether data and other data users are trusted
 - Highlighting potential mechanisms for overcoming these barriers
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Measures useful and trusted

Confirming the measures developed for specific biodiversity features are useful and trusted. If not, determine how can the measures be improved



Indicators easily understood and communicated

Confirming that the indicators developed to aggregate information from multiple biodiversity measures are easily communicated and understood by the people using them.

Harmonising indicators for reporting

We are delivering a harmonised system for combining data to report on biodiversity trends succinctly across spatial scales.



Critical goals and values reflected

Using case studies that reflect New Zealand's critical monitoring and reporting goals to illustrate:

- What indicator sets look like and how they reflect biodiversity values
 - How to calculate biodiversity indicators and communicate them effectively
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Relative value of different data sources

Identifying the relative values and complementary strengths of different New Zealand biodiversity data sources for indicator development



Comparable measures for different needs

Evaluating different methods for combining data from multiple sources to build individual biodiversity measures suitable for use at local to national scales

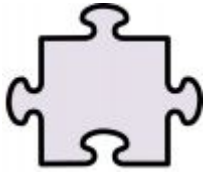


Aggregated indicators tailored for reporting

Identifying robust methods for aggregating information from multiple measures that are suitable for use at local to national scales depending on the reporting goals

Ways to improve

We are adding value to existing biodiversity monitoring initiatives and information by improving data collection and reporting methods.



Shared goals and effective communication

Identifying where efficiencies could be gained by people and organisations working together towards shared goals. Providing guidelines on how people and organisations can tailor their reporting to reach their target audience(s).



Address gaps and improve data

Identifying cost-effective ways to address critical knowledge gaps and enhance existing data sources and methods.



Identify 'fit-for-purpose' measures

Using case studies to test the sensitivity of different monitoring designs, data sources and derived individual measures for measuring biodiversity change. Developing a manual to help people identify indicators that meet their needs and resources.



Understand harmonised reporting

Testing the relative sensitivity of aggregated indicators for detecting biodiversity change in relation to a subset of critical goals. Developing a manual to ensure people understand when it is appropriate, or not, to use aggregated indicators for reporting at local to national scales.
