

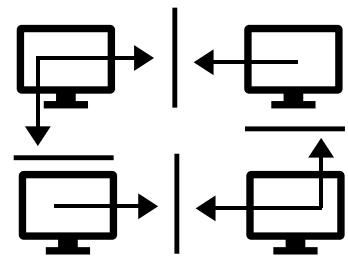
A Predator Free 2050 effort

# PREDATOR RELATED DATA STANDARDS

For the full report please visit:  
<https://pf2050.co.nz/funded-projects>

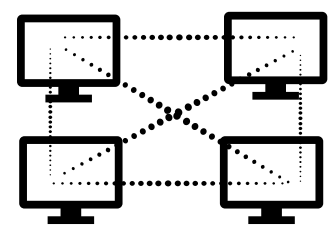
## THE PROBLEM

- Too many disparate predator control datasets
- A lack of consistent vocabulary and data formatting
- Varying quality of data
- Data isn't accessible
- Underutilisation of data



## THE VISION

- A co-designed and co-owned data standard
- A unified strategic view of quality predator control data that supports decision making
- Quality data that is readily available for data exchange (i.e. a data portal)
- An established framework for sharing data (e.g. data-sharing agreements, data commons)
- Supported interoperability such that data can be more easily aggregated and analysed across organisations who are using different tools
- A data standard to follow for the development of new tools



## WHAT IS A DATA STANDARD?

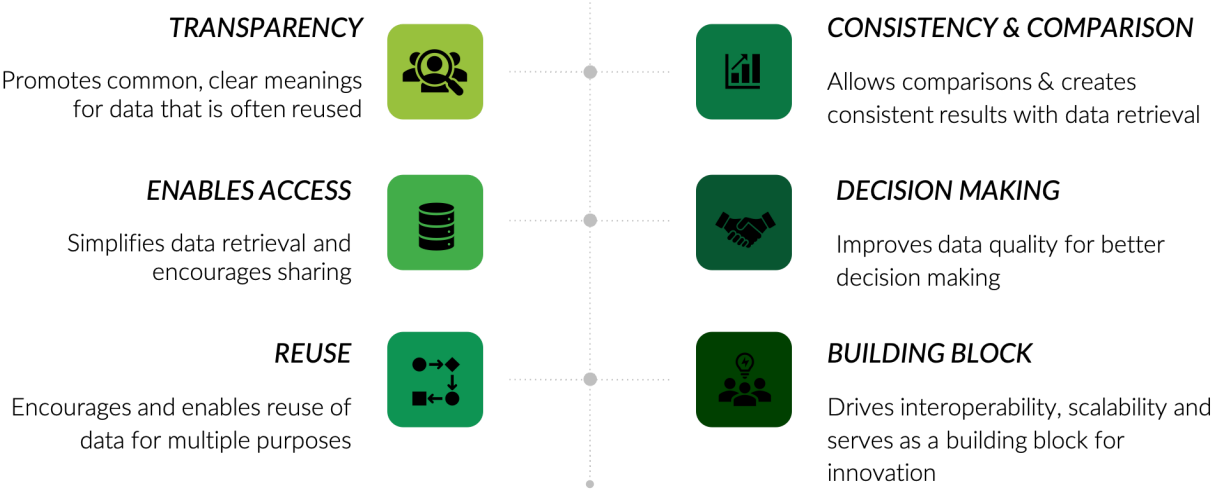
**DATA STANDARDS ARE DOCUMENTED AGREEMENTS ON REPRESENTATIONS, FORMATS, AND DEFINITIONS OF COMMON DATA**

US ENVIRONMENTAL PROTECTION AGENCY

**CONSISTENCY ENSURES THERE'S ONLY ONE WAY OF TALKING ABOUT EACH DIFFERENT PIECE OF INFORMATION**

STATSNZ

## WHY DO WE NEED A DATA STANDARD



## A GOOD DATA STANDARD



### Community

It's free and easily accessible to its target community



### Neutrality

Its format captures data in a way that is not specific or tailored to a certain agency

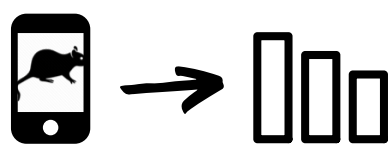


### Clear focus

It is very clear on its objectives and primary use-cases

*"You cannot create a data standard by just creating a specification, irrespective of how beautifully presented it is, how much analysis and review goes into it, or how much governance and control you wrap around it. A data specification that is not widely adopted is not a data standard....and data standards initiatives that don't focus on implementation are doomed to failure."*  
(Youell, A., Creative Commons)

# PREDATOR CONTROL DATA MANAGEMENT ACROSS NEW ZEALAND



Over the course of several weeks, Predator Free 2050 Limited spoke with **systems developers, data gatherers, data analysts, field staff, pest control contractors, community groups, Regional Council representatives, project managers, and data management consultants.** Common themes emerged around their concerns and recommendations for predator control data collection, management and analysis:

- 1

Data gathered needs to be sufficient for answering important **management questions**
- 2

Data is required for a **range of purposes** and each purpose requires a different set of data
- 3

Both **social** and **technical** challenges of implementing a data standard needs to be examined
- 4

An **alliance** is needed between multiple organisations who would **co-design** and **co-own** the data standard
- 5

Is a **single system** approach OR a **data standard** approach where data is ingested from each tool following the data standard better for New Zealand?

## CREATING & IMPLEMENTING A DATA STANDARD

*Governance and technical development*

### Governance

An advisory group, organisation, trust or other entity could become the data steward and be responsible for:

- Creating and overseeing an implementation plan
- Defining the data standard principles
- Preparing the data standard
- Making the standard accessible
- Managing the standard review process

### Governance structure options

- 1
- Create a Data Standards Advisory Group e.g., [www.wildlifeinsights.org](http://www.wildlifeinsights.org)
- 2
- Publish the data standard as a part of a journal, for example, Biodiversity Data Journal or Biodiversity Information Science and Standards
- 3
- Utilise an existing organisation that is independent from any data collection tools, for example, <https://econet.nz>

### Technical- *outcomes from the first data standard workshop*

#### Defining the purpose of the data standard (Mandatory vs. Optional)

**Mandatory:** This version of the data standard would allow high-level data sharing between data collection tools to inform on,

- Mapping trapping effort
- Predator catch
- Time effects
- Index of abundance
- Bycatch
- Relative device performance

**Optional:** These fields would outline best practice for using additional data fields that allow for further analysis of predator control data, to assess:

- Lure type and effectiveness
- Bait type and bait take
- Vegetation cover
- Predator age patterns
- Predator gender patterns
- Asset management and/or trap status upon check/visit

**See full report for list of suggested Mandatory and Optional data fields**

## TIMELINE

