The Biocultural Labels Initiative: Supporting Indigenous Rights and Interests in Data

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Problems in data & information infrastructures

Every Indigenous community has enormous collections of tangible and intangible cultural material, knowledge, and data, held in archives, museums, libraries, repositories, and other online databases.

Significant information about these collections, including individual and community names and proper provenance information, is missing.

Indigenous peoples and communities are largely not the legal rights holders.

Issues of responsibility ownership, as well as the incomplete and significant mistakes in the metadata, continue into the digital lives of this material.

There are more researchers working and collecting data and samples from Indigenous communities than ever before.

In an era of Open Data, Big Data, Open Science

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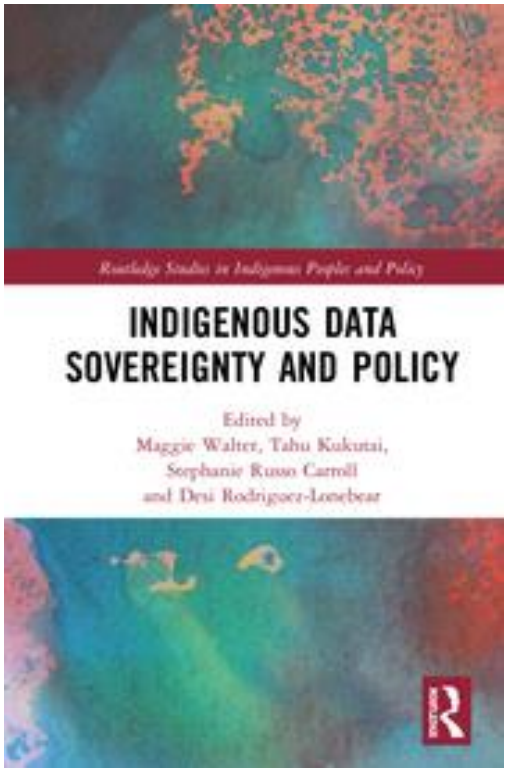
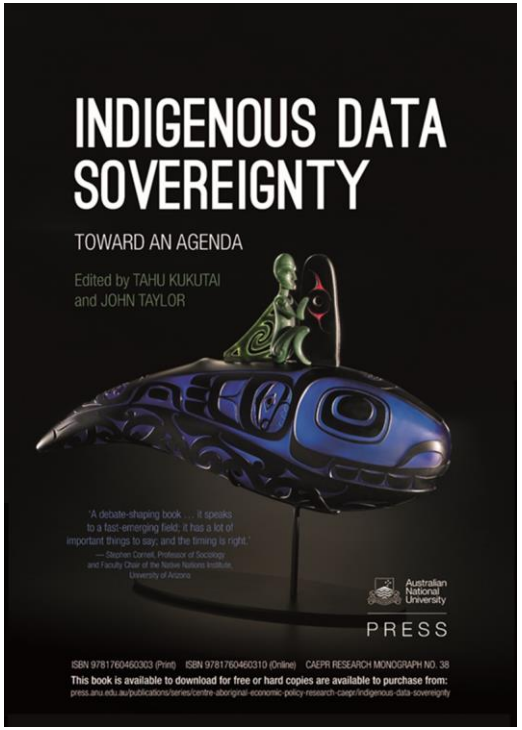
Indigenous Data Sovereignty

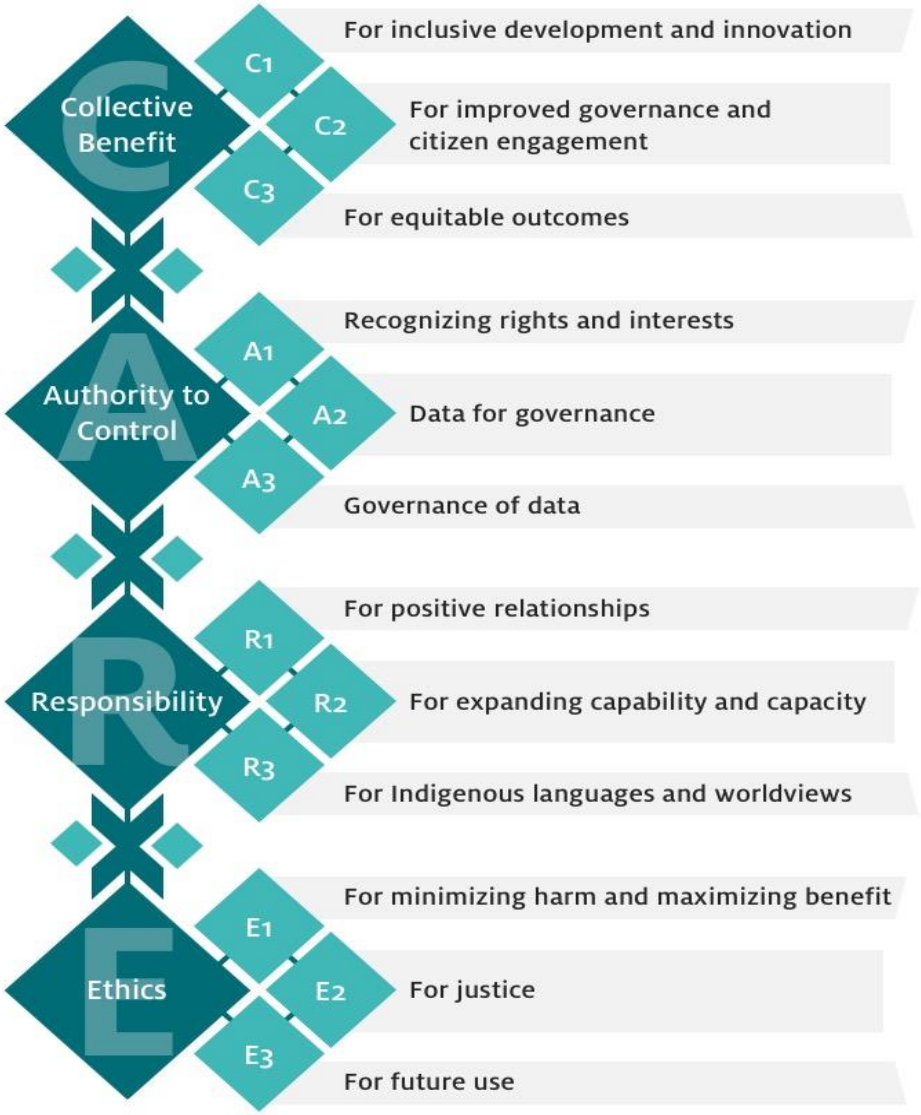
- **Indigenous Data Sovereignty is a discourse about rights and interests**
  - Indigenous / Treaty rights
  - Cultural Intellectual Property rights
  - Indigenous research ethics, data ethics

1. **Data for Governance:** Gaining access to use data to transform the lives of our people.
2. **Governance of Data:** Managing access to data to ensure use is relevant and responsive.





CARE Principles for Indigenous Data Governance



Research Data Alliance International Indigenous Data Sovereignty Interest Group. (September 2019). "CARE Principles for Indigenous Data Governance." The Global Indigenous Data Alliance. GIDA-global.org

Local Contexts

REGISTER SIGN IN

HOME ABOUT LABELS NOTICES LICENSES LOCAL CONTEXTS HUB CONTACT

TK Labels

TK Attribution
(TK A)

TK Clan
(TK CL)

TK Family
(TK F)

TK Multiple Communities
(TK MC)

TK Outreach
(TK O)

TK Non-Verified
(TK NV)

TK Verified
(TK V)

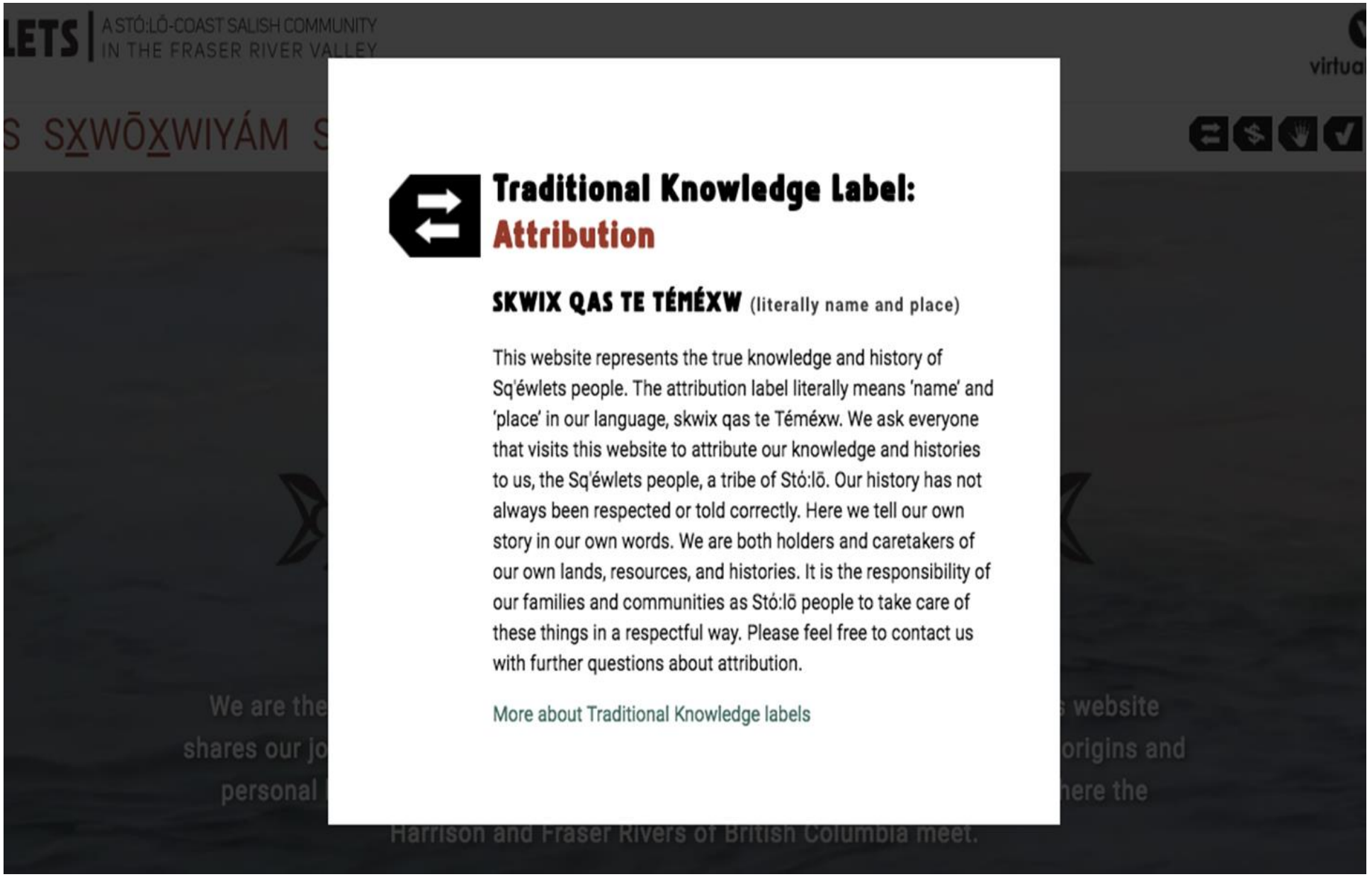
TK Non-Commercial
(TK NC)

TK Commercial
(TK C)

TK Culturally Sensitive
(TK CS)

TK Community Voice
(TK CV)

TK Community Use Only
(TK CO)


LETS | A STÓ:LŌ-COAST SALISH COMMUNITY
IN THE FRASER RIVER VALLEY
S SXWŌXWIYÁM S
virtua
Traditional Knowledge Label:
Attribution
SKWIX QAS TE TÉMÉXW (literally name and place)
This website represents the true knowledge and history of Sq'éwlets people. The attribution label literally means 'name' and 'place' in our language, skwix qas te Téméxw. We ask everyone that visits this website to attribute our knowledge and histories to us, the Sq'éwlets people, a tribe of Stó:lō. Our history has not always been respected or told correctly. Here we tell our own story in our own words. We are both holders and caretakers of our own lands, resources, and histories. It is the responsibility of our families and communities as Stó:lō people to take care of these things in a respectful way. Please feel free to contact us with further questions about attribution.
More about Traditional Knowledge labels
We are the
website
shares our jo
origins and
personal
here the
Harrison and Fraser Rivers of British Columbia meet.

LISTEN

EXAMPLE

TK Attribution (TK A)

Why Use This Label?

This label should be used when you would like anyone who uses this material to know who the correct sources, custodians, owners are. This is especially useful if this material has been wrongly attributed or important names of the people involved in making this material or safeguarding this material, are missing. This label allows you to correct historical mistakes in terms of naming and acknowledging the legitimate authorities for this material. This label asks for future users to also apply the correct names and attribution.

Each label is meant to be customized by a community. See below for a label template text.

LISTEN

EXAMPLE

TK Culturally Sensitive (TK CS)

Why Use This Label?

This Label should be used when you would like external users to know that this material has special sensitivities around it and should be treated with great care. These sensitivities could include: that it has only recently been reconnected with the community from which it originates, that the community is currently vetting and spending time with the material, and/or that the material is culturally valued and needs to be kept safe. This Label could also be used to indicate that there are cultural sensitivities around this material arising from legacies of colonialism, for instance, the use of derogatory language or descriptive errors within the content and/or content descriptions.

LISTEN

EXAMPLE

TK Seasonal (TK S)

Why Use This Label?

This label should be used when you want to let external users know that the material that is openly circulating has seasonal conditions of access and use. This could mean that some material should only be used and heard at particular times of the year. It could also mean that the environment and land where this material derives also influences and impacts its meaning and significance. This label can be used to help external users know that there are land-based teachings in this material which affect proper use and respectful understanding.

Each label is meant to be customized by a community. See below for a label template text.

TK Label Template Text

This label is being used to indicate that this material traditionally and usually is heard and/or utilized at a particular time of year and in response to specific seasonal changes and conditions. For instance, many important ceremonies are held at very specific times of the year. This label is being used to indicate sophisticated relationships between land and knowledge creation. It is also being used to highlight the relationships between recorded material and the specific contexts where it derives, especially the interconnected and embodied teachings that it conveys.

ESPAÑOL / SPANISH +

FRANÇAIS / FRENCH +

MĀORI +

Passamaquoddy Tribe and the Library of Congress

Correcting Metadata on Existing Records and Establishing Community Authority

Full Record | MARC Tags

Main title

Passamaquoddy War song ; Trading song [sound recording] / sung by Peter Selmore.

Published/Created

1890-03.

Request this Item

Where to Request

MUSIC RECORDING

PRINT RECORD

SAVE RECORD

EMAIL RECORD

CITE RECORD

LCCN Permalink	https://lccn.loc.gov/2015655578
Description	1 sound cylinder (2:45 min.) ; 3.75 in.
Rights advisory	Rights are held by the Peabody Museum of Archaeology and Ethnology, Harvard University.
Access advisory	Access to recordings may be restricted. To request materials, please contact the Folklife Reading Room at http://hdl.loc.gov/loc.afc/folklife.contact
Local shelving no.	Cylinder 4260 AFS 14739: A1 RKF 0006 AFC 1972/003: SR29

MARCXML Record
MODS Record

Report Record Errors

LIBRARY OF CONGRESS

All Formats | Search Loc.gov

Subscribe Share/Save

AUDIO RECORDING

Passamaquoddy War song ; Trading song

Mihqelsuwakonutomon (Song of Remembrance in the Passamaquoddy War Song Series) ; Esunomawotultine (Trading dance/song) / Jesse Walter Fewkes collection of Passamaquoddy cylinder recordings SR29

About this Item

Title
Passamaquoddy War song ; Trading song

Other Title
Mihqelsuwakonutomon (Song of Remembrance in the Passamaquoddy War Song Series) ; Esunomawotultine (Trading dance/song)

Jesse Walter Fewkes collection of Passamaquoddy cylinder recordings SR29

Summary
The first song, Mihqelsuwakonutomon, means 'He/She tells memories of it'. This is a lament or mourning song. It is a fragment of one song in a series of songs and dances. Esunomawotultine, the trading dance, is the second song on Fewkes' wax cylinder 17 (Cylinder 4260; AFC 1972/003: SR29) recorded by Jesse Walter Fewkes in Calais, Maine, March 16, 1890.

Contributor Names
Fewkes, Jesse Walter, 1850-1930, recordist, speaker.

Selmore, Peter, performer.

Created / Published
1890-03-16.

Traditional Knowledge Labels

Attribution - Elihtasik (How it is done).

Outreach - Ekehkimkewey (Educational).

Non-Commercial - Ma yut monuwasiw (This is not sold).

Learn more about the traditional knowledge labels

Part of...
American Folklife Center (32,872)

Library of Congress Online Catalog (919,432)

Transforming Rights Recognition

Library of Congress Control Number
2015655578

Rights Advisory

Traditional Knowledge Label: Attribution - Elihtasik (How it is done). When using anything that has this Label, please use the correct attribution. This may include individual Passamaquoddy names, it may include Passamaquoddy as the correct cultural affiliation or it may include Passamaquoddy Tribe as the tribal designation.
http://localcontexts.org/tk/a/1.0

Traditional Knowledge Label: Outreach - Ekehkimkewey (Educational). Certain material has been identified by Passamaquoddy tribal members and can be used and shared for educational purposes. Ekehkimkewey means 'educational'. The Passamaquoddy Tribe is a present day community who retains cultural authority over its heritage. This Label is being used to teach and share cultural knowledge and histories in schools.
http://localcontexts.org/tk/o/1.0

Traditional Knowledge Label: Non-Commercial - Ma yut monuwasiw (This is not sold). This material should not be used in any commercial ways, including ways that derive profit from sale or production for non-Passamaquoddy people. The name of this Label, Ma yut monuwasiw, means 'this is not to be purchased'.
http://localcontexts.org/tk/nc/1.0

Rights are held by the Peabody Museum of Archaeology and Ethnology, Harvard University.

Access Advisory
Access to recordings may be restricted. To request materials, please contact the Folklife Reading Room at
http://hdl.loc.gov/loc.afc/folklife.contact

Transforming Records (MARC)

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Transforming Digital Infrastructures | Passamaquoddy Record in Dublin Core

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<rights>Access to recordings may be restricted. To request materials, please contact the Folklife Reading Room at</rights>
<rights>Traditional Knowledge Label: Attribution - Elihtasik (How it is done). When using anything that has this Label, please use the correct
attribution. This may include individual Passamaquoddy names, it may include Passamaquoddy as the correct cultural affiliation or it may include
Passamaquoddy Tribe as the tribal designation.</rights>
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and can be used and shared for educational purposes. Ekehkimkewey means 'educational'. The Passamaquoddy Tribe is a present day community who
retains cultural authority over its heritage. This Label is being used to teach and share cultural knowledge and histories in schools, and to
raise greater awareness and respect for Passamaquoddy culture and worldviews.</rights>
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ways, including ways that derive profit from sale or production for non-Passamaquoddy people. The name of this Label, Ma yut monuwasiw, means
'this is not to be purchased'.</rights>
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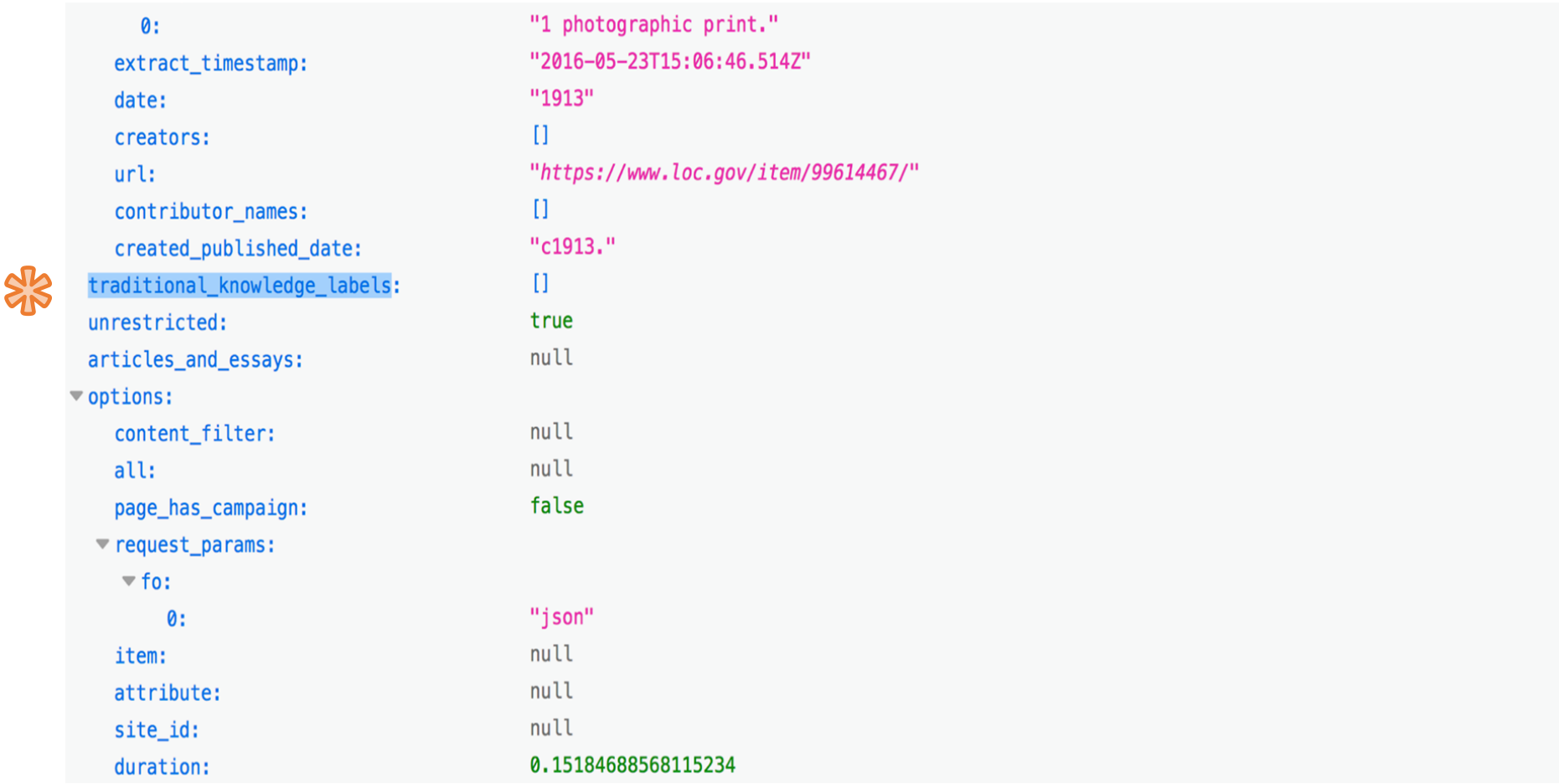
Transforming Digital Infrastructures



Biocultural (BC) Labels

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Key Issues for Indigenous peoples

1. HOW TO **RECOGNIZE INDIGENOUS RIGHTS** AND INTERESTS IN RAW DATA AND DSI WITHIN AN OPEN DATA ENVIRONMENT

2. HOW TO SHARE DSI, AND **COLLABORATE AROUND ETHICAL ACCESS AND USE**, IN WAYS CONSISTENT WITH EXISTING COMMUNITY PROTOCOLS

3. HOW TO **NEGOTIATE EQUITABLE OUTCOMES** FROM THE USE OF DSI INCLUDING POTENTIAL COMMERCIALIZATION

Local Contexts

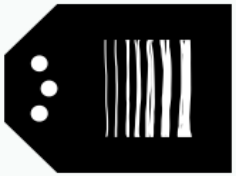
REGISTER SIGN IN

HOME ABOUT LABELS NOTICES LICENSES LOCAL CONTEXTS HUB CONTACT

BC Labels

Click on a BC Label below to learn more about its usage.

Haz click en las Etiquetas de BC a continuación para aprender más acerca de su uso.



BC Provenance
(BC P)

BC Consent Verified
(BC CV)

BC Research Use
(BC R)

BC Open to Collaboration
(BC OC)

BC Open to Commercialization
(BC OC)

BC Multiple Communities
(BC MC)

LISTEN

EXAMPLE

BC Provenance (BC P)

Why Use This Label?

Indigenous peoples have the right to make decisions about the future use of information, biological collections, data and digital sequence information (DSI) that derives from associated lands, waters and territories. This Label reflects a significant relationship and responsibility to the species or biological entity, associated scientific collections and data, and supports the practice of proper and appropriate acknowledgement into the future.

LISTEN

EXAMPLE

BC Open to Commercialization (BC OC)

Why Use This Label?

Indigenous peoples have the right to benefit from information, biological collections, data and digital sequence information (DSI) that derives from traditional lands, waters and territories. This Label is being used to indicate an express interest in being a primary party to any future negotiations if future commercialization opportunities arise.

LISTEN

EXAMPLE

BC Consent Verified (BC CV)

Why Use This Label?

Indigenous peoples have the right to permission the use of information, biological collections, data and digital sequence information (DSI) that derives from associated lands, waters and territories. This Label verifies that there are consent conditions in place for uses of information, collections, data and digital sequence information.

BC Label Template Text

This Label is being used to verify that [community name or authorizing party] have consent conditions in place for the use of this information, collections, data and digital sequence information. [These can be found at ….].

ESPAÑOL / SPANISH +

FRANÇAIS / FRENCH +

MĀORI +

Notices

BC Notice

The BC Notice is a visible digital identifier applied by researchers or institutional/repository staff. The BC Notice recognizes the rights of Indigenous peoples to define the use of information, collections, data and digital sequence information generated from the biodiversity and genetic resources associated with their traditional lands, waters, and territories.

The text for the BC Notice cannot be changed or customized. An optional Notice use-statement can be applied for publication or for additional information including contact information.

To use the BC Notice, you will need to register with the Local Contexts Hub which will generate your BC Notice, connect project metadata to it, and send a notification about the use to the relevant community. To register for the Local Contexts Hub, click **here**

TK Notice

The TK Notice is a visible digital identifier applied by researchers or institutional/repository staff. The TK Notice recognizes that there could be accompanying cultural rights, protocols and responsibilities that need further attention for future sharing and use of this material.

The text for the TK Notice cannot be changed. An optional Notice use-statement can be applied for publication or for additional information including contact information.

To use the TK Notice, you will need to register with the Local Contexts Hub which will generate your TK Notice, connect project metadata to it, and send a notification about the use to the relevant community. To register for the Local Contexts Hub, click **here**

Attribution Incomplete

Why Use This Notice?

The Attribution Incomplete Notice is attached to a collection or at an item level where there is incomplete, inaccurate, or missing attribution. This Notice indicates to the public that the record and/or metadata is incomplete. Visibly identifying missing attribution within collections is the first step towards correcting existing attribution to include: contributors, collaborators, other authors and/or communities of origin.

Open to Collaborate

Why Use This CI Notice?

The Open to Collaborate Notice indicates that an institution is committed to developing new modes of collaboration, engagement, and partnership over collections that have colonial and/or problematic histories or unclear provenance. This notice indicates an institutional commitment to change and to develop new processes for the care and stewardship of past and future heritage collections.

CI Notice in GEOME: Metadata database for geological and genetic sequences

GEOME

GETTING STARTED QUERY WORKBENCH

Genomic Observatories MetaDatabase (GEOME)

The Genomic Observatories Meta-Database (GEOME) is a web-based database that captures the who, what, where, and when of biological samples and associated genetic sequences. GEOME helps users with the following goals:

- Ensure the metadata from your biological samples is findable, accessible, interoperable, and reusable
- Improve the quality of your data and comply with global data standards
- Integrate with R, ease publication to NCBI's sequence read archive, and work with an associated LIMS

Getting Started

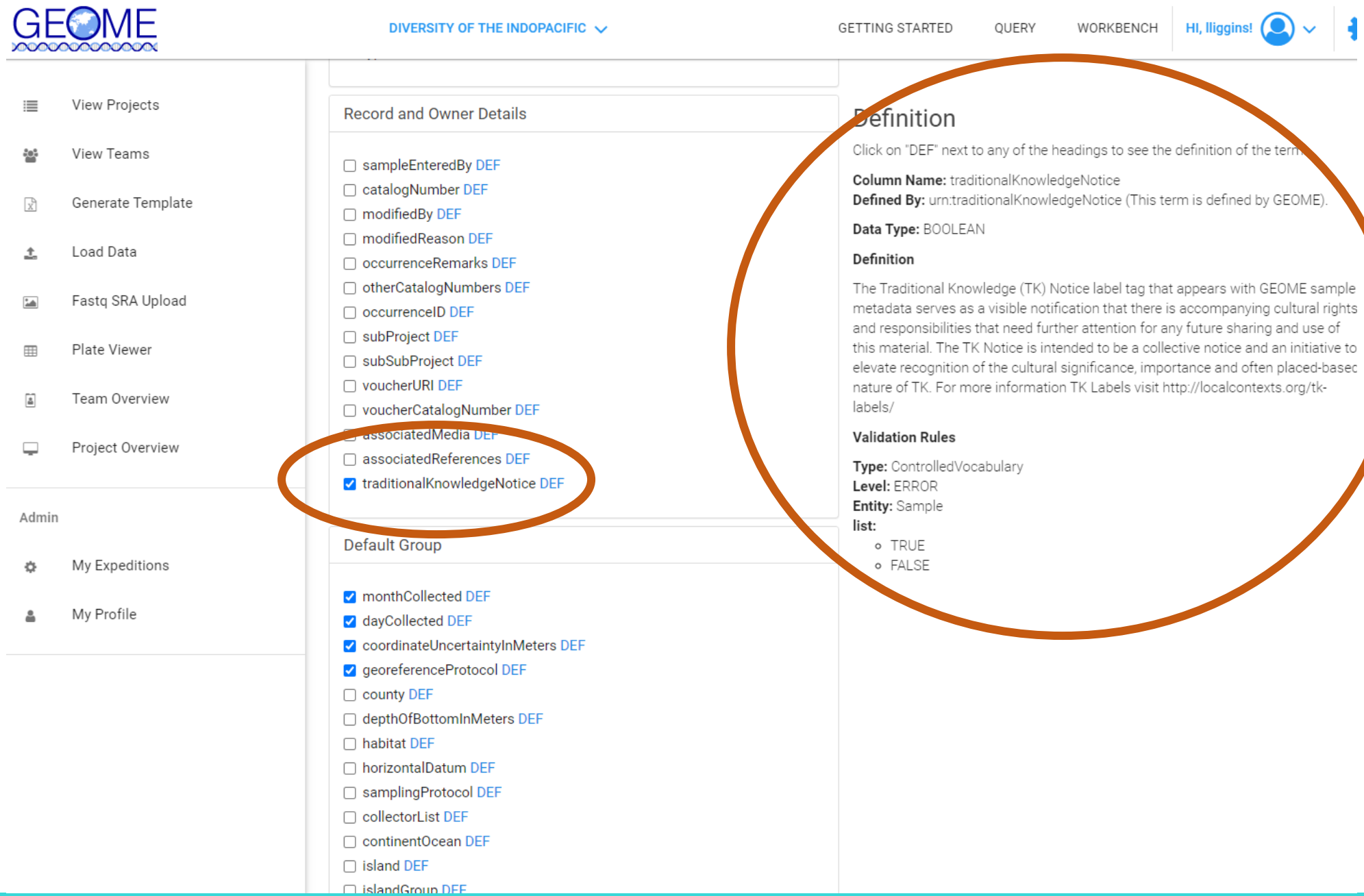
Getting started and additional information about GEOME

Query

Search and download sequence files and associated metadata

Workbench

View and manage project specific data


GEOME
DIVERSITY OF THE INDOPACIFIC
GETTING STARTED
QUERY
WORKBENCH
HI, lliggins!
View Projects
View Teams
Generate Template
Load Data
Fastq SRA Upload
Plate Viewer
Team Overview
Project Overview
Admin
My Expeditions
My Profile
Record and Owner Details
sampleEnteredBy DEF
catalogNumber DEF
modifiedBy DEF
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occurrenceRemarks DEF
otherCatalogNumbers DEF
occurrenceID DEF
subProject DEF
subSubProject DEF
voucherURI DEF
voucherCatalogNumber DEF
associatedMedia DEF
associatedReferences DEF
traditionalKnowledgeNotice DEF
Default Group
monthCollected DEF
dayCollected DEF
coordinateUncertaintyInMeters DEF
georeferenceProtocol DEF
county DEF
depthOfBottomInMeters DEF
habitat DEF
horizontalDatum DEF
samplingProtocol DEF
collectorList DEF
continentOcean DEF
island DEF
islandGroup DEF
Definition
Click on "DEF" next to any of the headings to see the definition of the term
Column Name: traditionalKnowledgeNotice
Defined By: urn:traditionalKnowledgeNotice (This term is defined by GEOME).
Data Type: BOOLEAN
Definition
The Traditional Knowledge (TK) Notice label tag that appears with GEOME sample metadata serves as a visible notification that there is accompanying cultural rights and responsibilities that need further attention for any future sharing and use of this material. The TK Notice is intended to be a collective notice and an initiative to elevate recognition of the cultural significance, importance and often placed-based nature of TK. For more information TK Labels visit http://localcontexts.org/tk-labels/
Validation Rules
Type: ControlledVocabulary
Level: ERROR
Entity: Sample
list:
TRUE
FALSE

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Indigenous communities can generate TK and BC Labels, with customised text.

e.g.

BC Provenance (BC P)

COMMUNITY

Indigenous communities *are notified when a* ***researcher/institution*** *generates a Notice*

Researchers/institutions can generate TK, BC, and CI Notices.

INSTITUTION RESEARCHER

BC Notice

TK Notice

Attribution Incomplete

Open to Collaborate

LOCAL CONTEXTS HUB

Indigenous communities and researchers have unique profiles. The Hub generates and hosts Labels and Notices, including contextual information.

LABELS

NOTICES

Indigenous communities *can apply Labels to replace Notices providing information regarding the provenance of genetic resources, and communicating protocols and permissions for future access and benefit sharing of the genetic resources and derived data.*

THE APPLICATION OF NOTICES to genetic resources or sample and/or specimen data, or benefits arising from access and use of genetic resources. Notice icons can be visibly shown, or their persistent unique identifier reported or maintained as metadata

e.g.

SPECIMEN/TISSUE/DNA COLLECTIONS

METADATA REPOSITORY

SEQUENCE DATA REPOSITORY

PUBLICATIONS

THE APPLICATION OF LABELS to genetic resources, or benefits arising from access and use of genetic resources. Label icons can be visibly shown, or their persistent unique identifier reported or maintained as metadata

e.g.

SPECIMEN/TISSUE/DNA COLLECTIONS

METADATA REPOSITORY

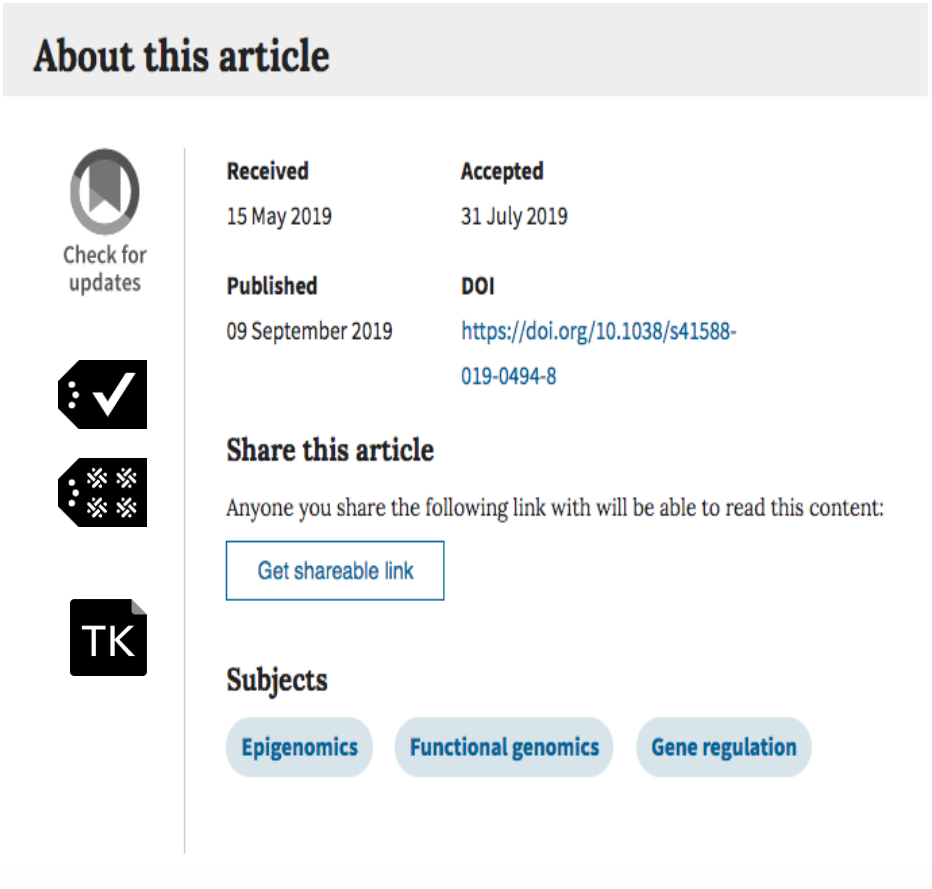
SEQUENCE DATA REPOSITORY

PUBLICATIONS

Researchers/institutions *can apply Notices to support the recognition of Indigenous interests in collections and data And invite* ***Indigenous communities*** *to provide their own perspectives.*

Liggins, L., Hudson, M., & Anderson, J. Creating space for Indigenous perspectives on access and benefit-sharing: encouraging researcher use of the Local Contexts Notices. Molecular Ecology. Accepted for Submission

Transparency in Research| NATURE & ORCiD



About this article

Check for updates

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15 May 2019

Accepted
31 July 2019

Published
09 September 2019

DOI
https://doi.org/10.1038/s41588-019-0494-8

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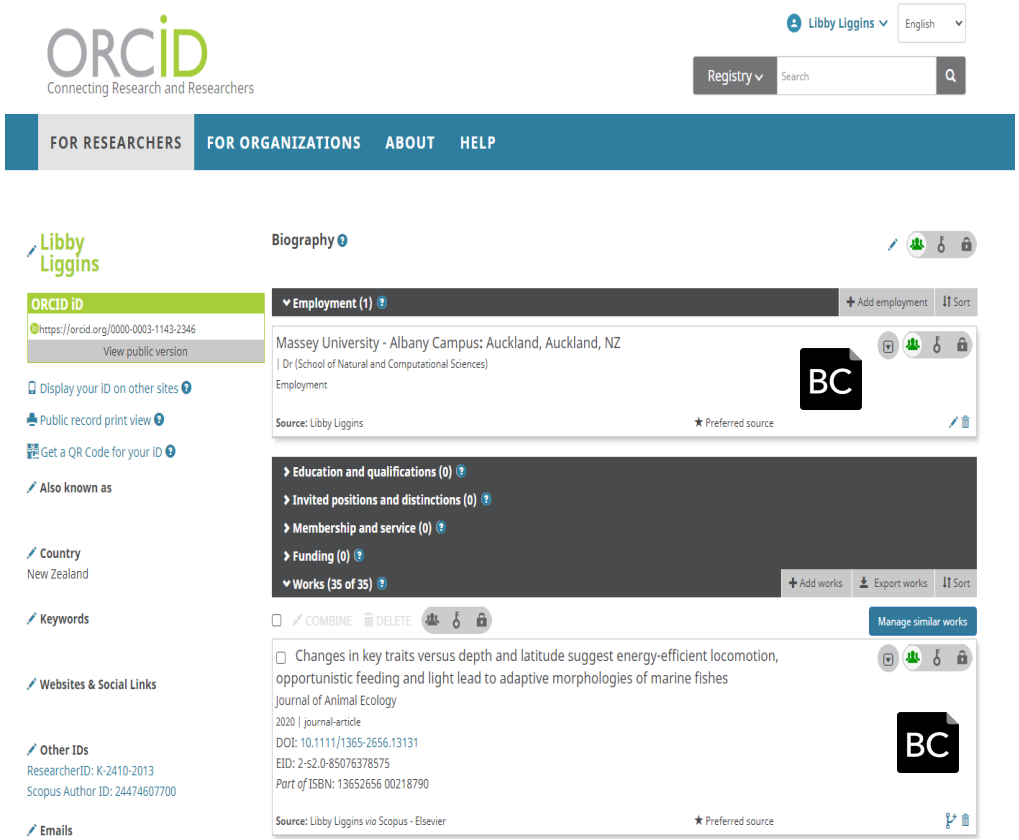
Get shareable link

Subjects

Epigenomics | Functional genomics | Gene regulation



ORCID
Connecting Research and Researchers

Libby Liggins | English

Registry | Search

FOR RESEARCHERS | FOR ORGANIZATIONS | ABOUT | HELP

Libby Liggins

ORCID iD
https://orcid.org/0000-0003-1143-2346
View public version

Display your iD on other sites
Public record print view
Get a QR Code for your iD
Also known as
Country
New Zealand
Keywords
Websites & Social Links
Other IDs
ResearcherID: K-2410-2013
Scopus Author ID: 24474607700
Emails

Biography

Employment (1) | + Add employment | Sort

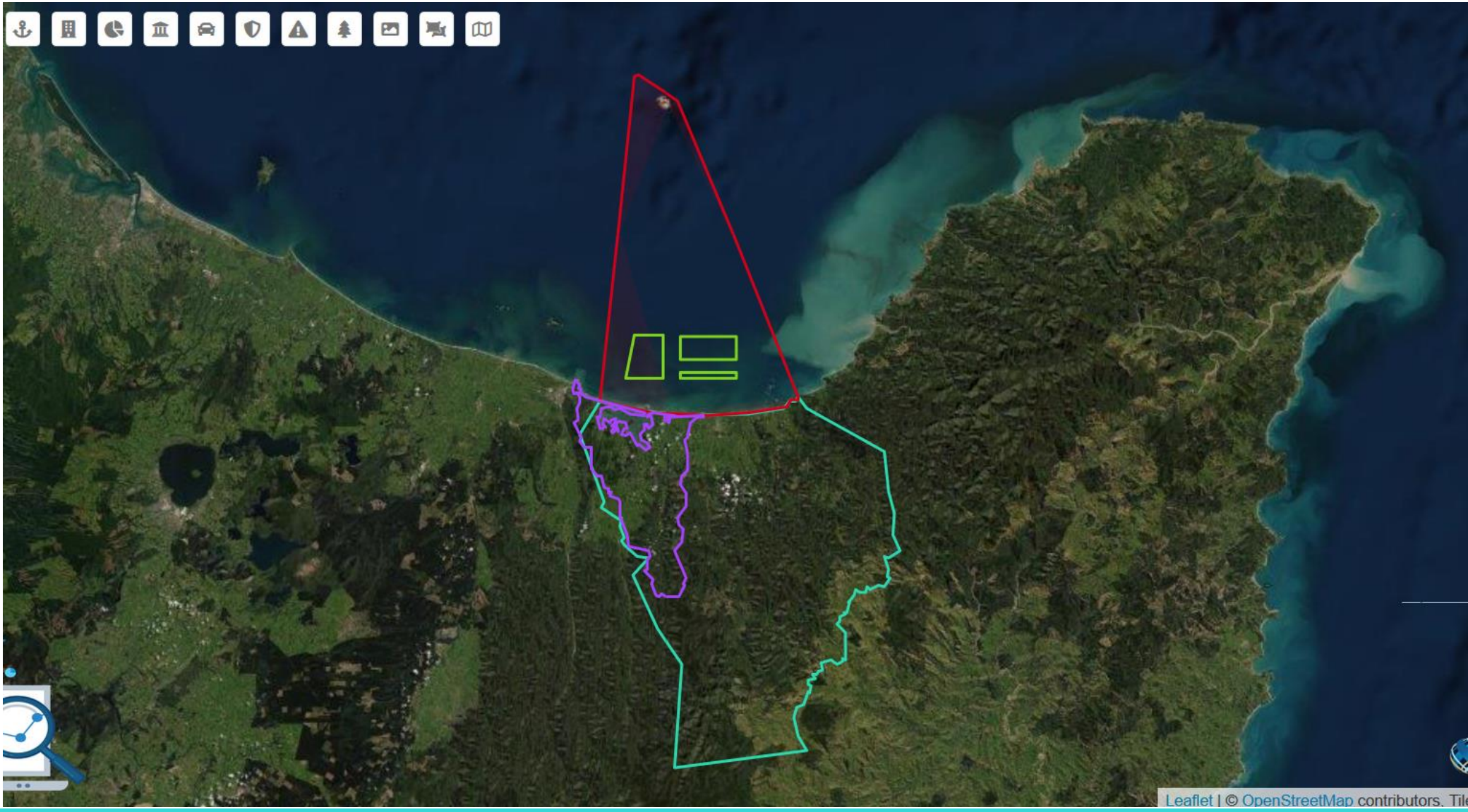
Massey University - Albany Campus: Auckland, Auckland, NZ
| Dr (School of Natural and Computational Sciences)
Employment
Source: Libby Liggins ★ Preferred source

Education and qualifications (0)
Invited positions and distinctions (0)
Membership and service (0)
Funding (0)
Works (35 of 35) | + Add works | Export works | Sort

COMBINE | DELETE | Manage similar works

Changes in key traits versus depth and latitude suggest energy-efficient locomotion, opportunistic feeding and light lead to adaptive morphologies of marine fishes
Journal of Animal Ecology
2020 | journal-article
DOI: 10.1111/1365-2656.13131
EID: 2-s2.0-85076378575
Part of ISBN: 13652656 00218790
Source: Libby Liggins *via* Scopus - Elsevier ★ Preferred source

ENRICH



Maruhia atu - ArcGIS StoryMap

https://storymaps.arcgis.com/stories/7b347a7f1a634ee18547892 120%

Maruhia atu

Introducing Whakatōhea connections to Te-Moana-a-Toi (Bay of Plenty, NZ) through pātere

Earthstar Geographics

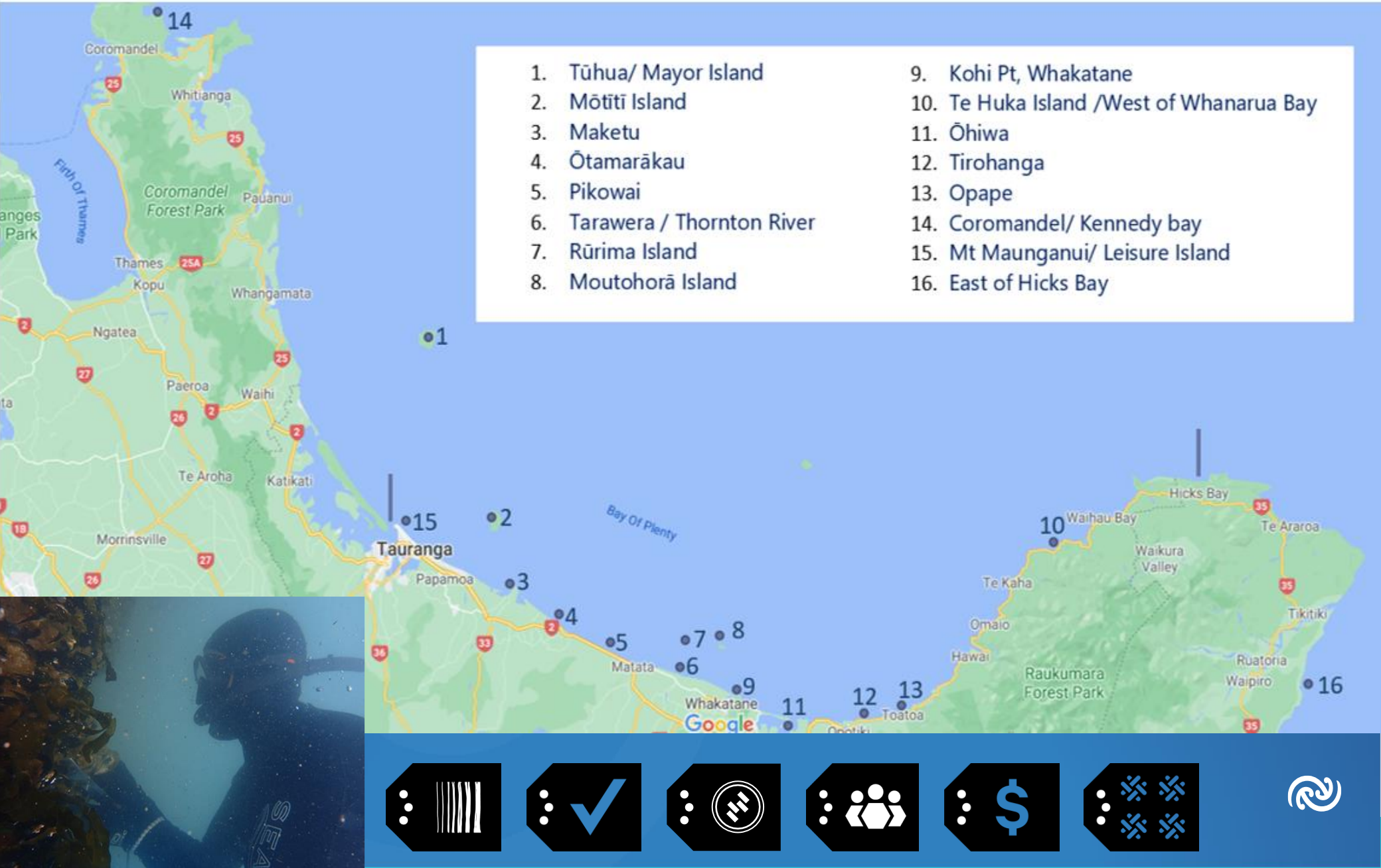
Maruhia atu - ArcGIS StoryMap | Inbox (1) - kimberle@waikato.a

https://storymaps.arcgis.com/stories/7b347a7f1a634ee18547892 120%

Whakaari

In the Bay of Plenty the plume of Whakaari (White Island) this is the main compass showing how the wind is blowing. For example, when you see the volcanic smoke at Whakaari pointing towards the land, the wind is in the right direction for canoes to sail.

LINZ, Earthstar Geographics


1. Tūhua/ Mayor Island
2. Mōtītī Island
3. Maketu
4. Ōtamarākau
5. Pikowai
6. Tarawera / Thornton River
7. Rūrima Island
8. Moutohorā Island
9. Kohi Pt, Whakatane
10. Te Huka Island /West of Whanarua Bay
11. Ōhiwa
12. Tirohanga
13. Opape
14. Coromandel/ Kennedy bay
15. Mt Maunganui/ Leisure Island
16. East of Hicks Bay
Coromandel
Whitianga
Coromandel Forest Park
Pauanui
Firth Of Thames
Thames
Kopu
Whangamata
Ngatea
Paeroa
Waihi
Te Aroha
Katikati
Morrinsville
Tauranga
Papamoa
Bay Of Plenty
Matata
Whakatane
Google
Hicks Bay
Waihau Bay
Te Araroa
Waikura Valley
Te Kaha
Omaio
Hawai
Raukumara Forest Park
Tikitiki
Ruatoria
Waipiro
Toatoa

Local Contexts

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Local Contexts Hub

Miss Tahi » Whakatōhea

Settings

Whakatōhea

Account: Administrator
Members: 05
Location: Opotiki, New Zealand

17	04	02
Labels	Training	Relationships

Activity Requests Labels Relationships Members Training

Recent Activity

TK Community Use Only (TK C)
Adapted by Miriame Barbarich

BC Research Use (BC RU)
Adapted by Breila Barbarich

TK Secret/Sacred (TK SS)
Replaced by Miriame Barbarich

Whakatohea

Role: **editor**
Members: **4**
Location: **Opotiki, New Zealand**
Your community application has been approved.

17	04	02
Labels	Members	Relationships

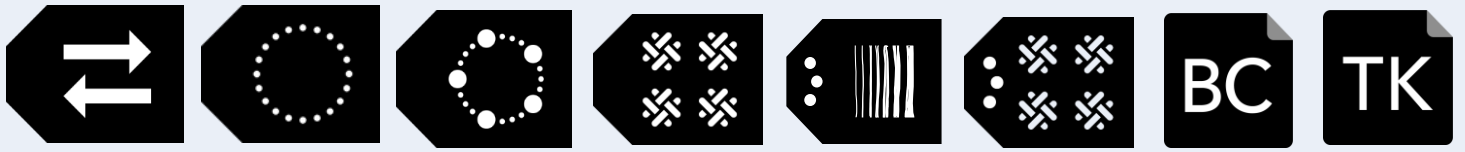
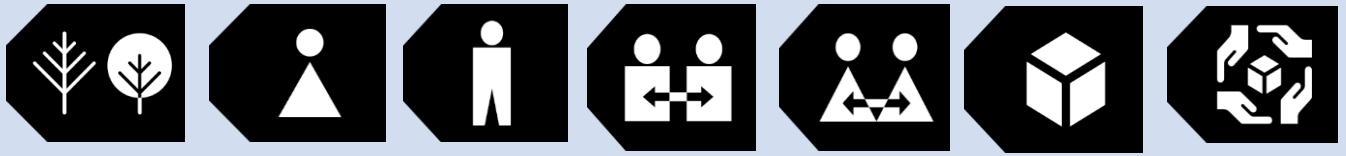
Biocultural (BC) Labels

Show More

Traditional Knowledge (TK) Labels

Show More

Taxonomy of TK & BC Labels & Notices

Provenance	
Protocols	
Permissions	

ENRICH

The Value of Labelling Collections & Data

Provenance **Connection** **Control** **Governance**	*An expression of **Indigenous Data Sovereignty** by explicitly recognizing the Indigenous rights and interests as Metadata* • Engages researchers by providing clear details about where data comes from and who to engage with for future use • Engages institutions to establish appropriate relationships with communities over control and decision-making
Protocols **Worldviews** **Education**	*An expression of **Indigenous Data Sovereignty** by enabling Indigenous worldviews within infrastructures* • Educates user publics and limits inappropriate/derogatory use • Engages institutions and researchers to apply proper care and Indigenous rules for knowledge sharing
Permissions **Responsibility** **Transparency** **Integrity**	*An expression of **Indigenous Data Sovereignty** by supporting ethical and equitable research* • Make transparent Indigenous expectations and intentions of use and engagement • Engages institutions and repositories to develop use policies and agreements

Ngā mihi ki a koutou katoa - Thank you

Image – James Francis Snr, Penobscot Nation