



National Library of Medicine
National Center for Biotechnology Information

SRA

SRA

GenBank

Nucleotide



@A2_S2

ATATGAGGGGAA
TGCTCTGCGGCCCTA
TCCTCGTACATAACAA
ACGGGTGGGGAGAA
TCACTGCGCACCCAA
ACTACCAATACTG...

GTAACAATT
GCATCAGGCC
TGATGCCTGA
GTATG
ATAACACCAATACTG...



Who governs these data



Who gets to decide

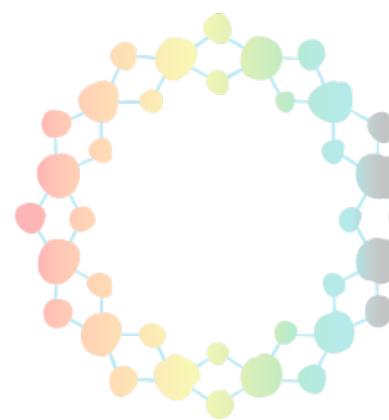
?



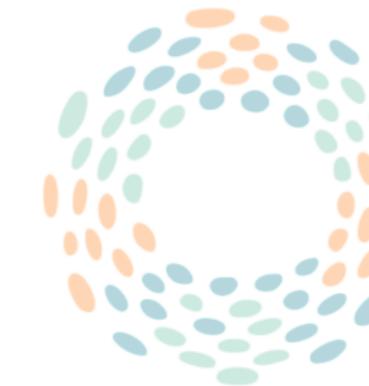
Indigenous data sovereignty and governance



Indigenous data sovereignty and governance



ENRICH



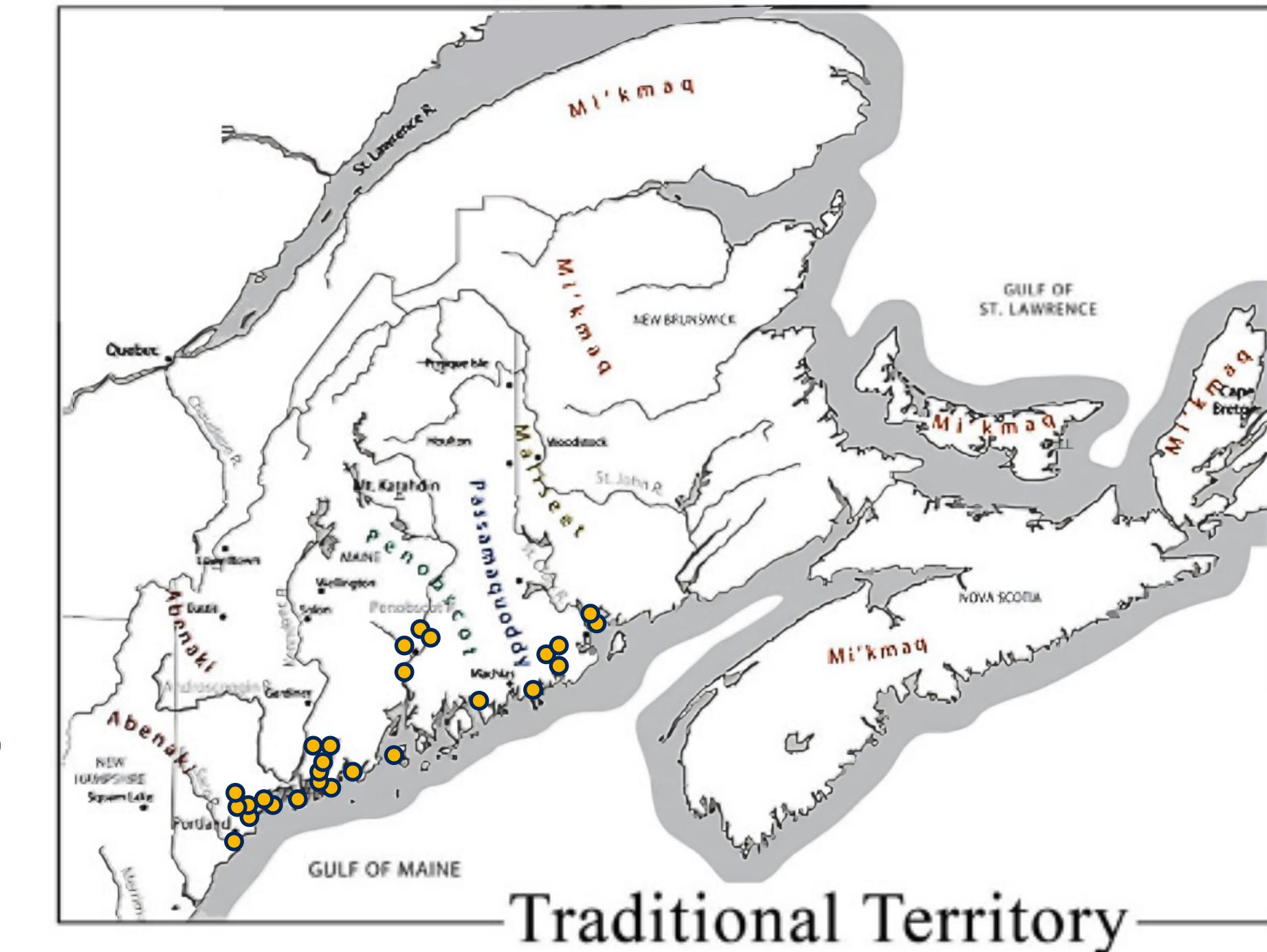
Local
Contexts



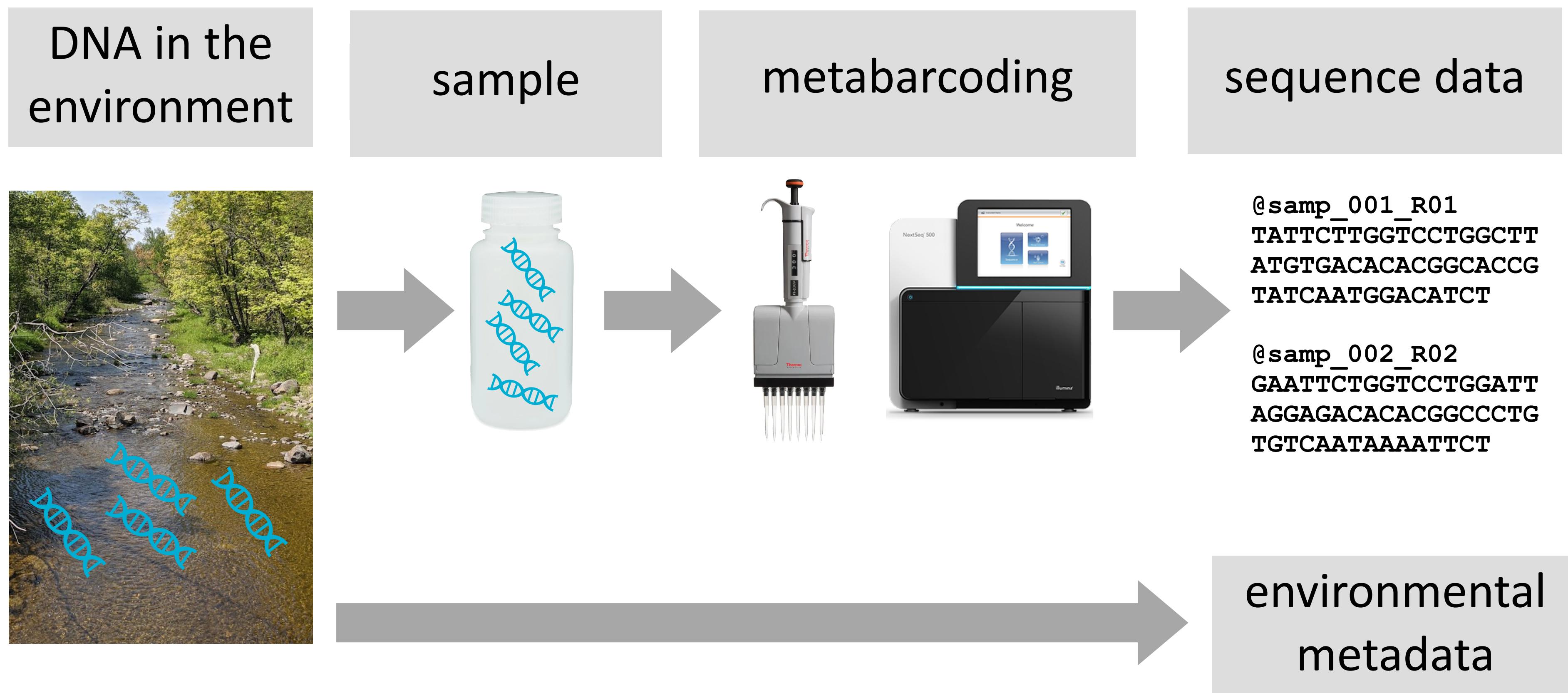
GIDA
Global Indigenous
Data Alliance

Biodiversity data with CARE

Maine-eDNA sample locations

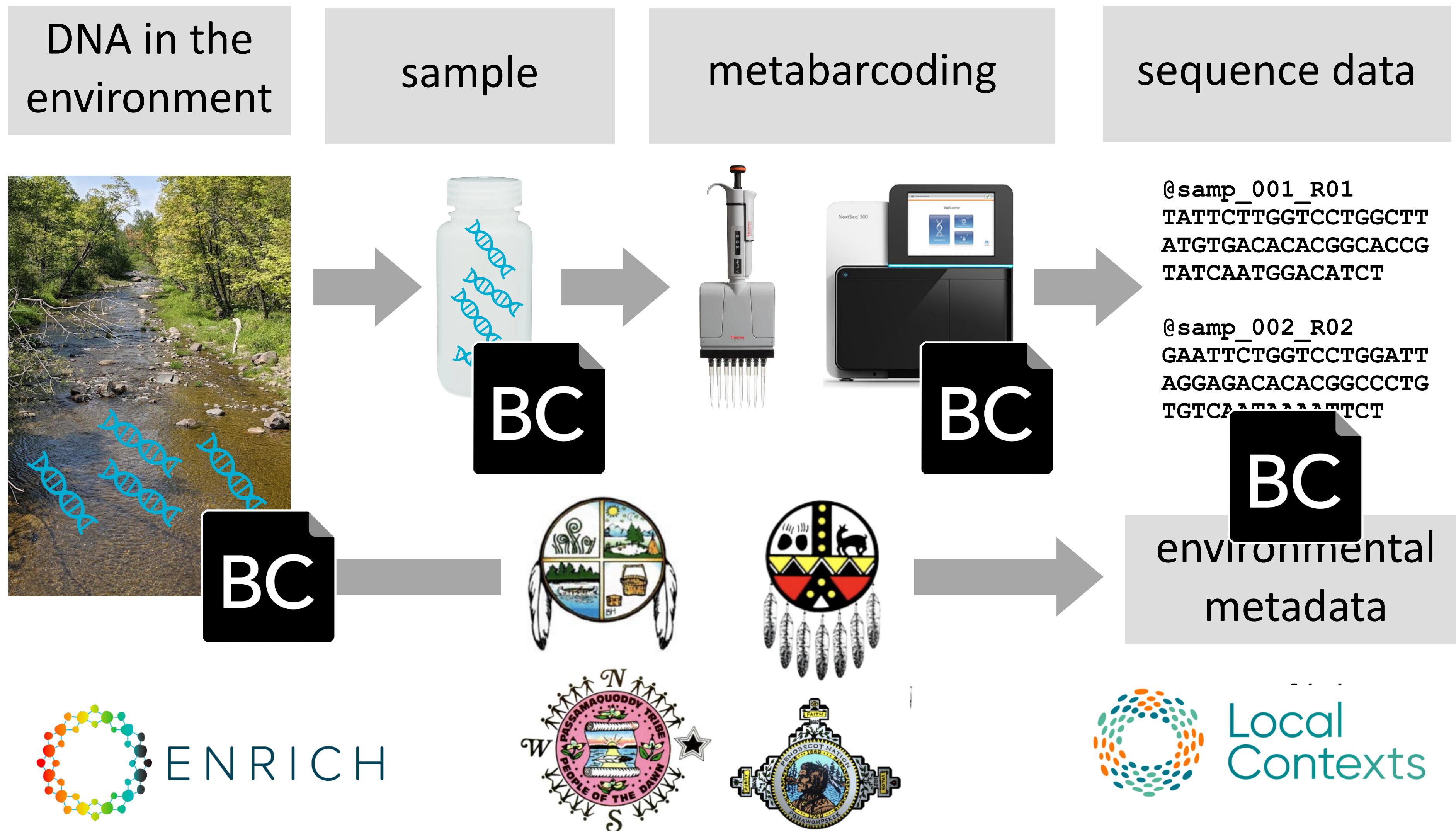


Biodiversity data with CARE

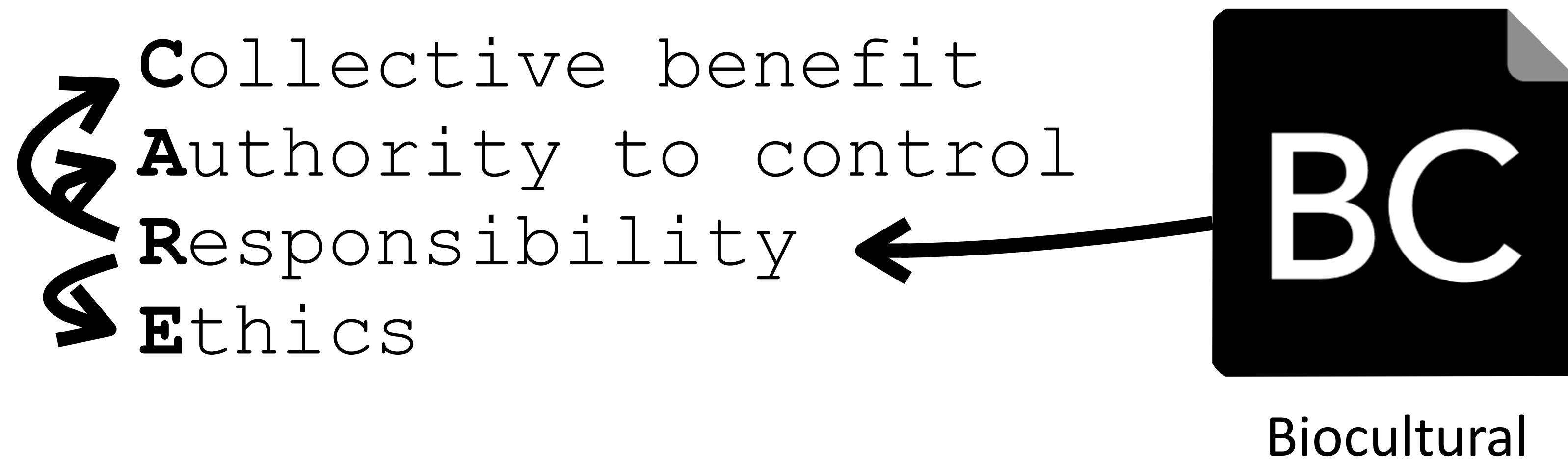


	salinity	pH
samp_001	0.01	7
samp_002	0.03	7

Biodiversity data with CARE



Indigenous data notices



ENRICH



Local
Contexts



GIDA
Global Indigenous
Data Alliance

Indigenous data notices



Open to
Collaborate



Attribution
Incomplete



Biocultural



Traditional
Knowledge



ENRICH



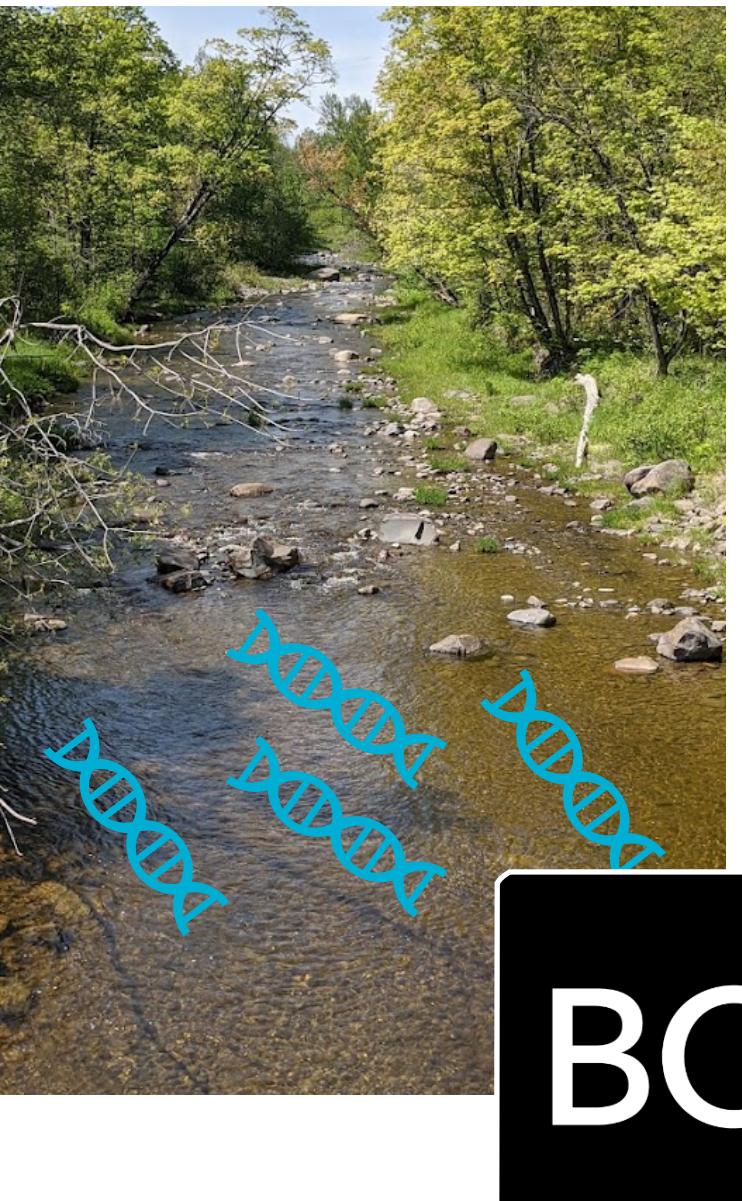
Local
Contexts



GIDA
Global Indigenous
Data Alliance

Biodiversity data with CARE

DNA in the environment



< eDNA Sampling v14 ⚡ ≡

 Maine-eDNA Field Sampling Survey
Owner: umednagis
Created: 6/17/21 4:28 AM
Modified: 6/20/22 4:48 PM

Field form for collecting site conditions and eDNA samples (water and/or sediment). This project is part of the RII Track-1: Molecule to Ecosystem: Environmental DNA as a Nexus of Coastal Ecosystem Sustainability for Maine (Maine-eDNA) at the University of Maine. Supported by National Science Foundation award #OIA-1849227 to Maine EPSCoR at the University of Maine.

Maine-eDNA projects collect samples on traditional Wabanaki territory. Maine-eDNA is collaborating with the Local Contexts Hub to document the indigenous provenance of and rights to these data.

land acknowledgement
in the field with
Survey123



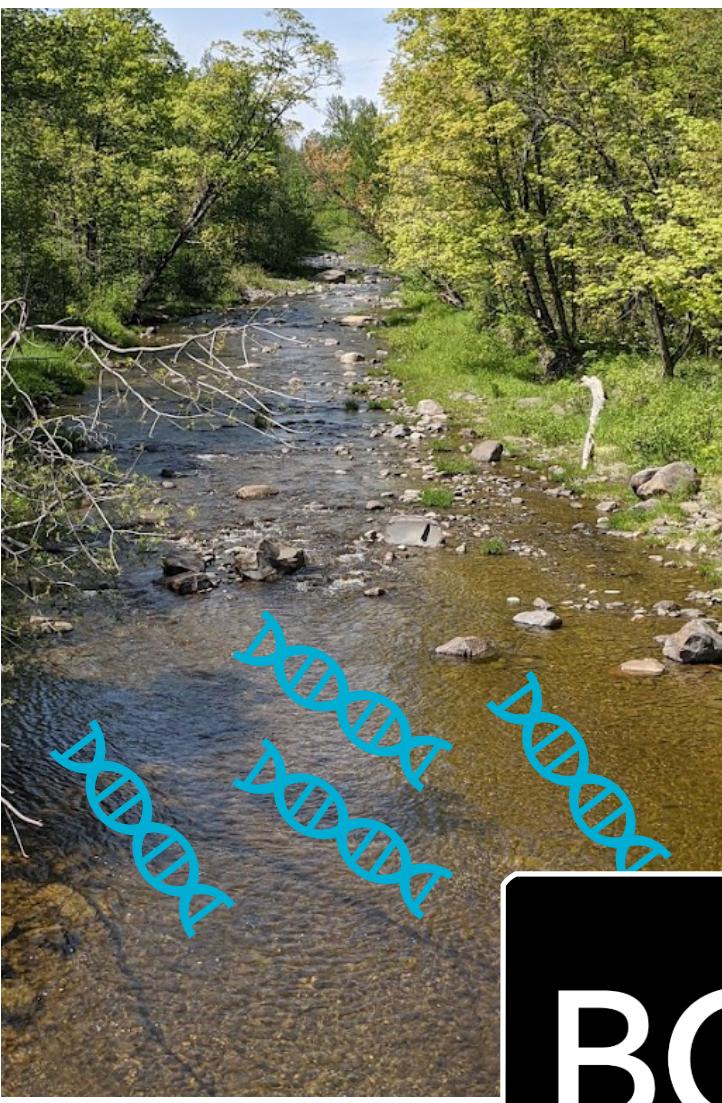
ENRICH



Local Contexts

Biodiversity data with CARE

DNA in the environment



< eDNA Sampling v14 ⚡ Ⓛ



Maine-eDNA Field Sampling Survey
Owner: umednagis
Created: 6/17/21 4:28 AM
Modified: 6/20/22 4:48 PM

Field form for collecting site conditions and eDNA samples (water and/or sediment). This project is part of the RII Track-1: Molecule to Ecosystem: Environmental DNA as a Nexus of Coastal Ecosystem Sustainability for Maine (Maine-eDNA) at the University of Maine. Supported by National Science Foundation award #OIA-1849227 to Maine EPSCoR at the University of Maine.

Maine-eDNA projects collect samples on traditional Wabanaki territory. Maine-eDNA is collaborating with the Local Contexts Hub to document the indigenous provenance of and rights to these data.

land acknowledgement
in the field with
Survey123

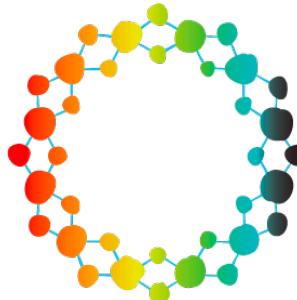


Local Contexts

Project Identifiers

Local Contexts Project ID
6d34be51-0f60-4fc5-a699-bed4091c02e0

link to Local Contexts Hub
project in the field with GUID



ENRICH



Local Contexts

Biodiversity data with CARE

The screenshot shows the Maine-eDNA Metadata website. The header features a landscape photograph of a forested hillside overlooking a body of water with small islands. The top left corner has the text "Maine-eDNA Metadata". The top right corner includes links for "About", "Help", and "Login". The main title "Local Contexts and Maine-eDNA" is centered above a subtitle "Documenting Indigenous provenance through sustained partnerships.". A large button labeled "Open to Collaborate" with a person icon is prominently displayed. Below it, a text box states: "Our institution is committed to the development of new modes of collaboration, engagement, and partnership with Indigenous peoples for the care and stewardship of past and future heritage collections." At the bottom, a section titled "Local Contexts Collaboration | Biocultural Notices and Labels" contains the text: "Maine-eDNA is committed to maintaining Indigenous provenance of and future interests in data collected on Indigenous lands and waters. As part of our commitment to sharing and".

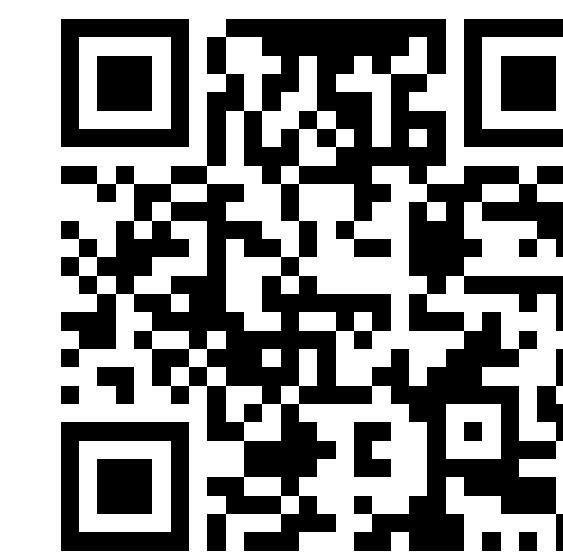
Maine-eDNA data portal



ENRICH



Local
Contexts



sequence data

@samp_001_R01
TATTCTGGTCCTGGCTT
ATGTGACACACGGCACCG
TATCAATGGACATCT

@samp_002_R02
GAATTCTGGTCCTGGATT
AGGAGACACACGGCCCTG
TGTCAATTAAATTCT



environmental
metadata

	salinity	pH
samp_001	0.01	7
samp_002	0.03	7

Biodiversity data with CARE

Local Contexts Projects within Maine-eDNA

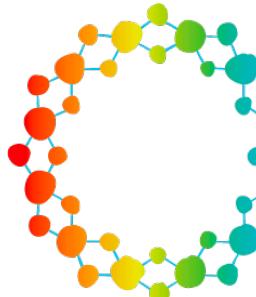
Index Sites (T3) Local Contexts' Project Detail (Notices and Labels)

Affiliated Institution: Maine Center For Genetics In The Environment

<https://localcontextshub.org/projects/6d34be51-0f60-4fc5-a699-bed4091c02e0/>

The BC (Biocultural) Notice is a visible notification that there are accompanying cultural rights and responsibilities that need further attention for any future sharing and use of this material or data. The BC Notice recognizes the rights of Indigenous peoples to permission the use of information, collections, data and digital sequence information (DSI) generated from the biodiversity or genetic resources associated with traditional lands, waters, and territories. The BC Notice may indicate that BC Labels are in development and their implementation is being negotiated.

Notice Type	Biocultural (BC) Notice
Created	6/3/2022, 10:31:52 AM
Updated	7/19/2022, 5:37:44 PM



ENRICH



Local
Contexts

 **Local Contexts** 

Project Identifiers

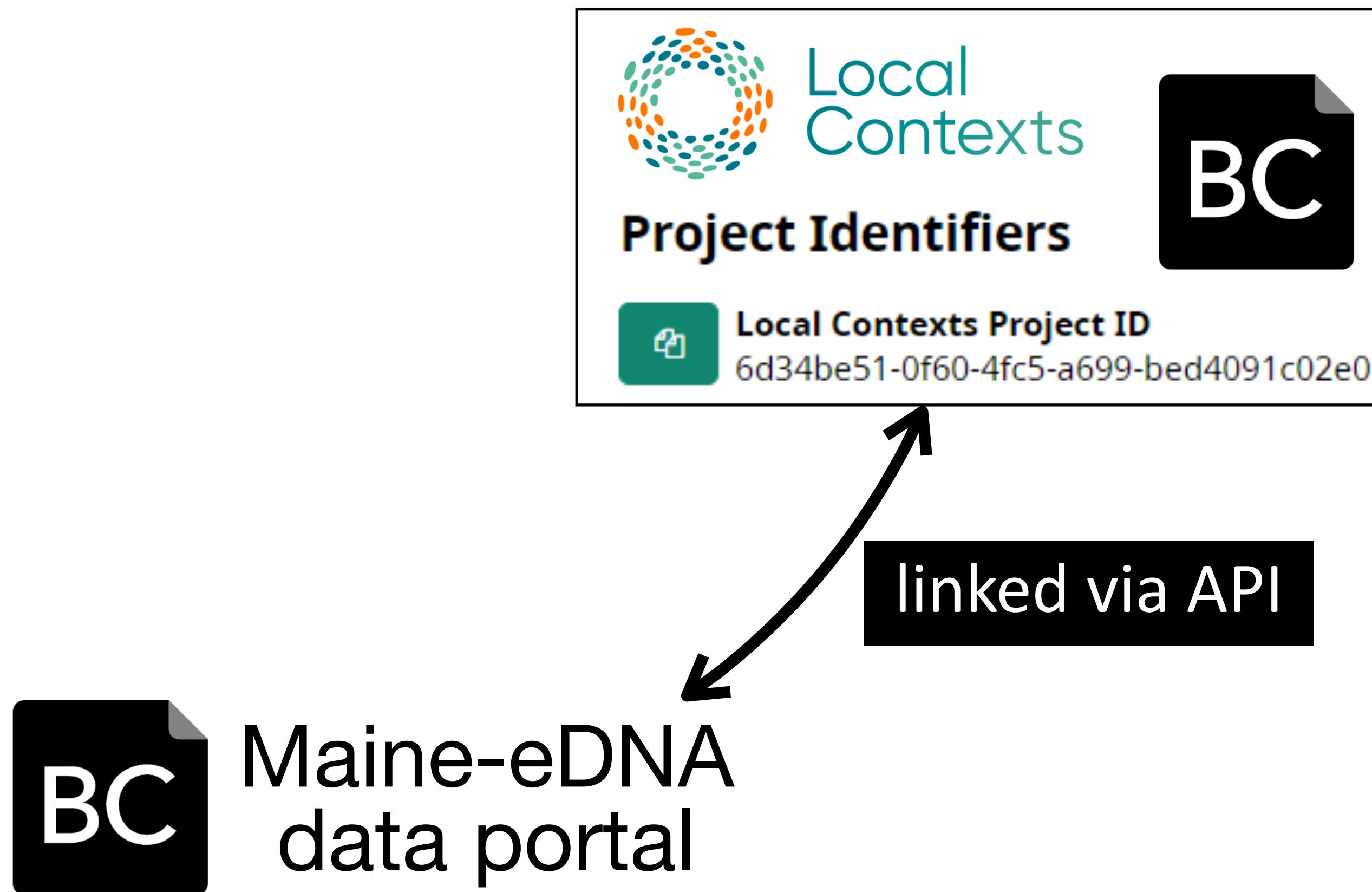
 **Local Contexts Project ID**
6d34be51-0f60-4fc5-a699-bed4091c02e0



automatically
generated Biocultural
info via API integration



Biodiversity data with CARE

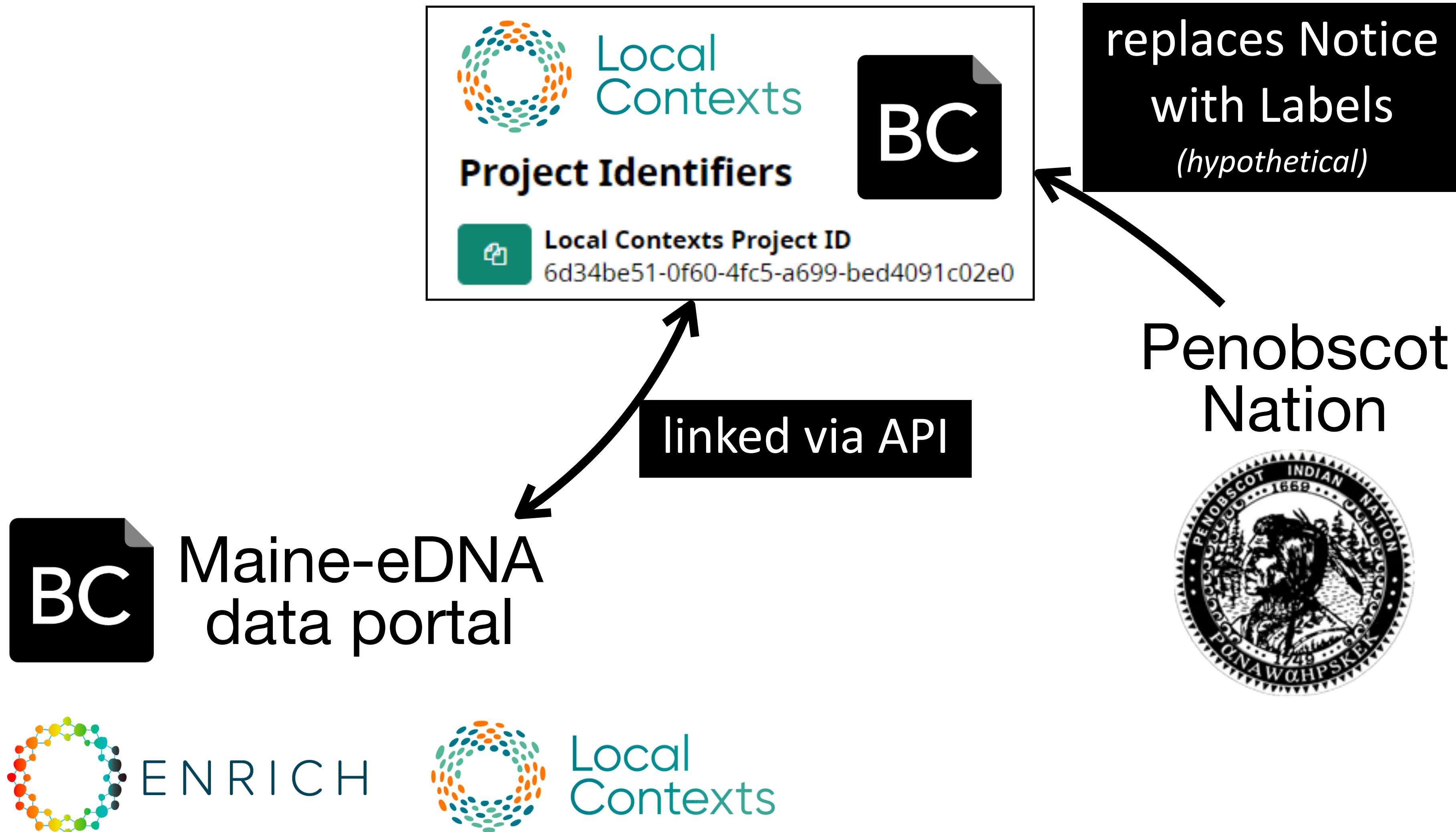


ENRICH

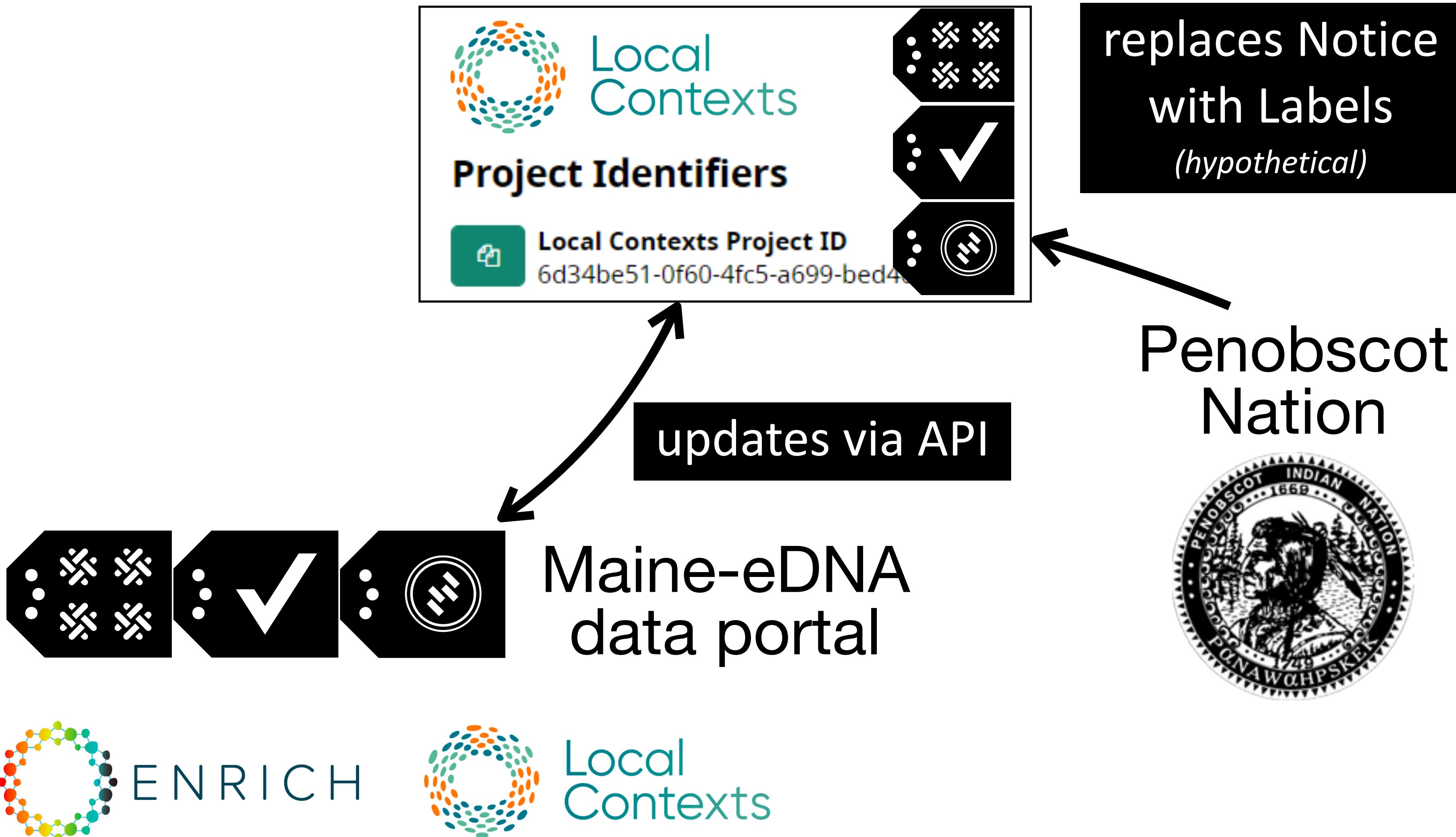


Local
Contexts

Biodiversity data with CARE

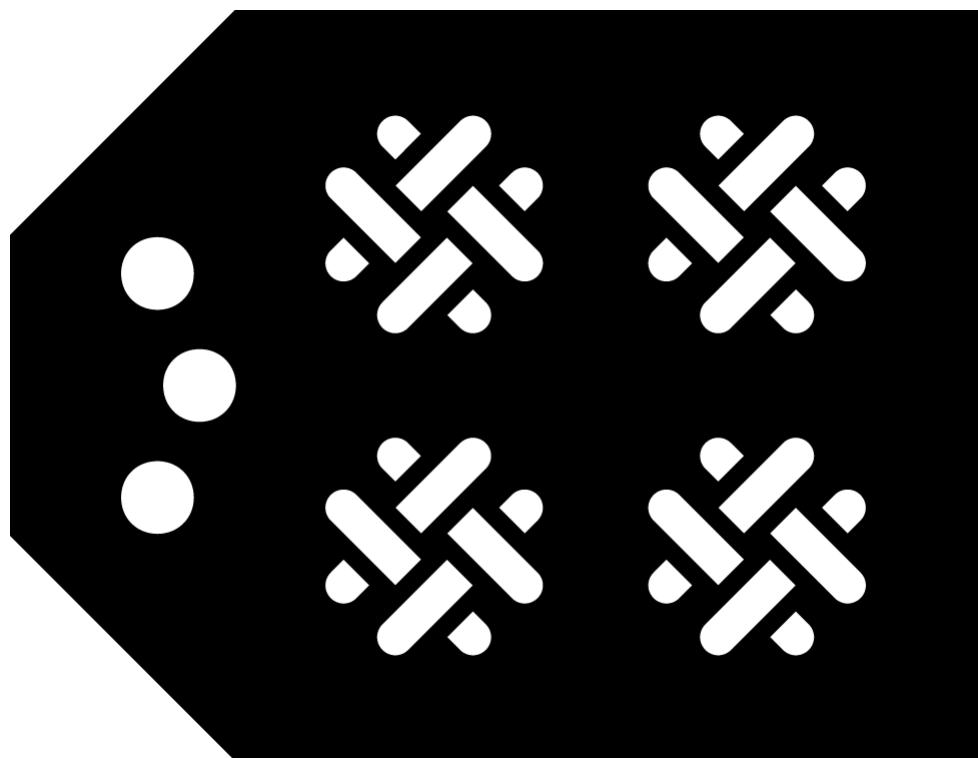


Biodiversity data with CARE



Indigenous data labels

Provenance



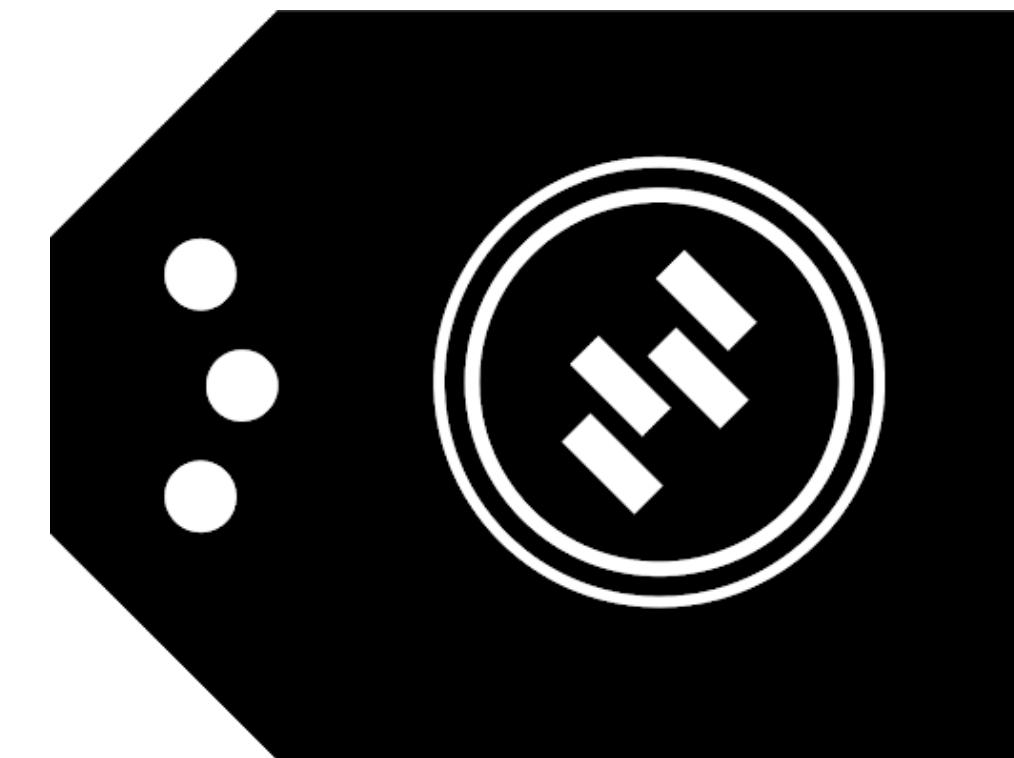
BC Multiple
Communities

Permission



BC Consent
Verified

Protocol



BC Research Use



ENRICH



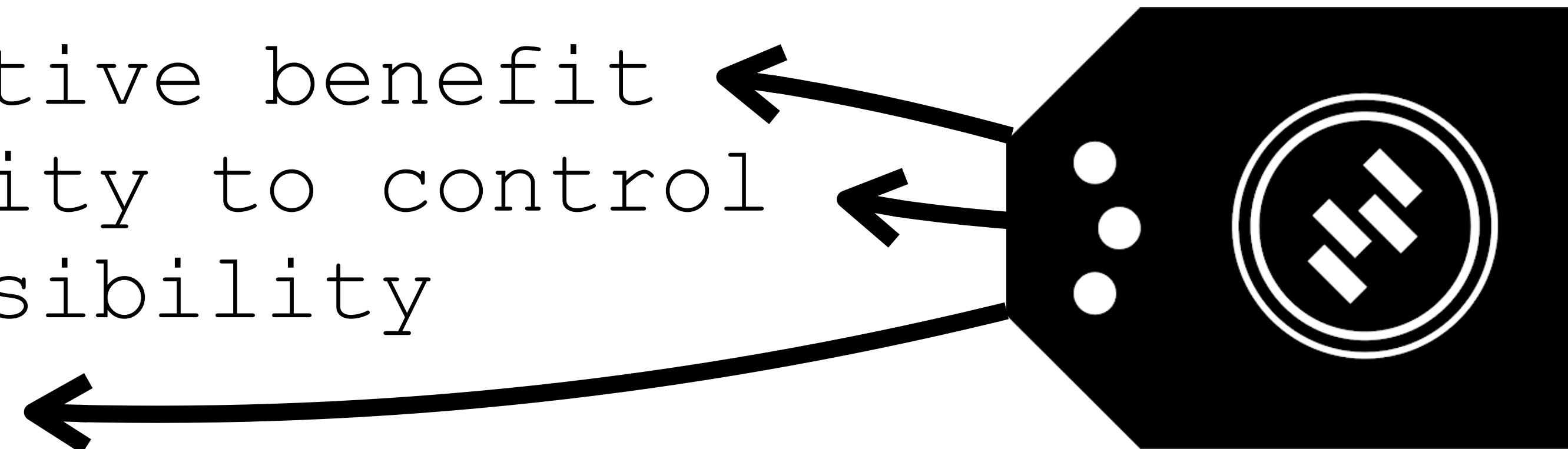
Local
Contexts



GIDA
Global Indigenous
Data Alliance

Indigenous data labels

Collective benefit
Authority to control
Responsibility
Ethics



BC Research Use



ENRICH

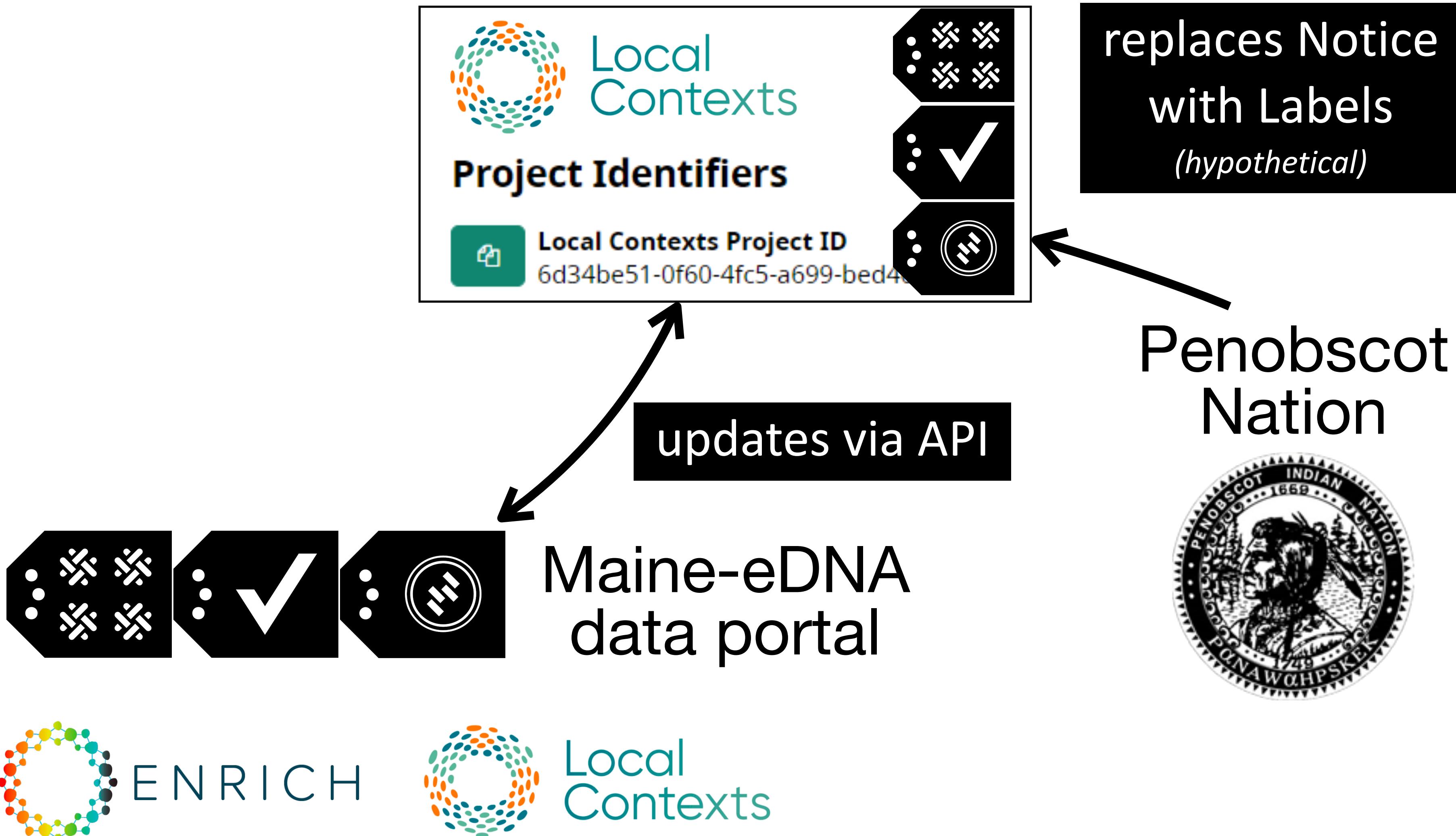


Local
Contexts

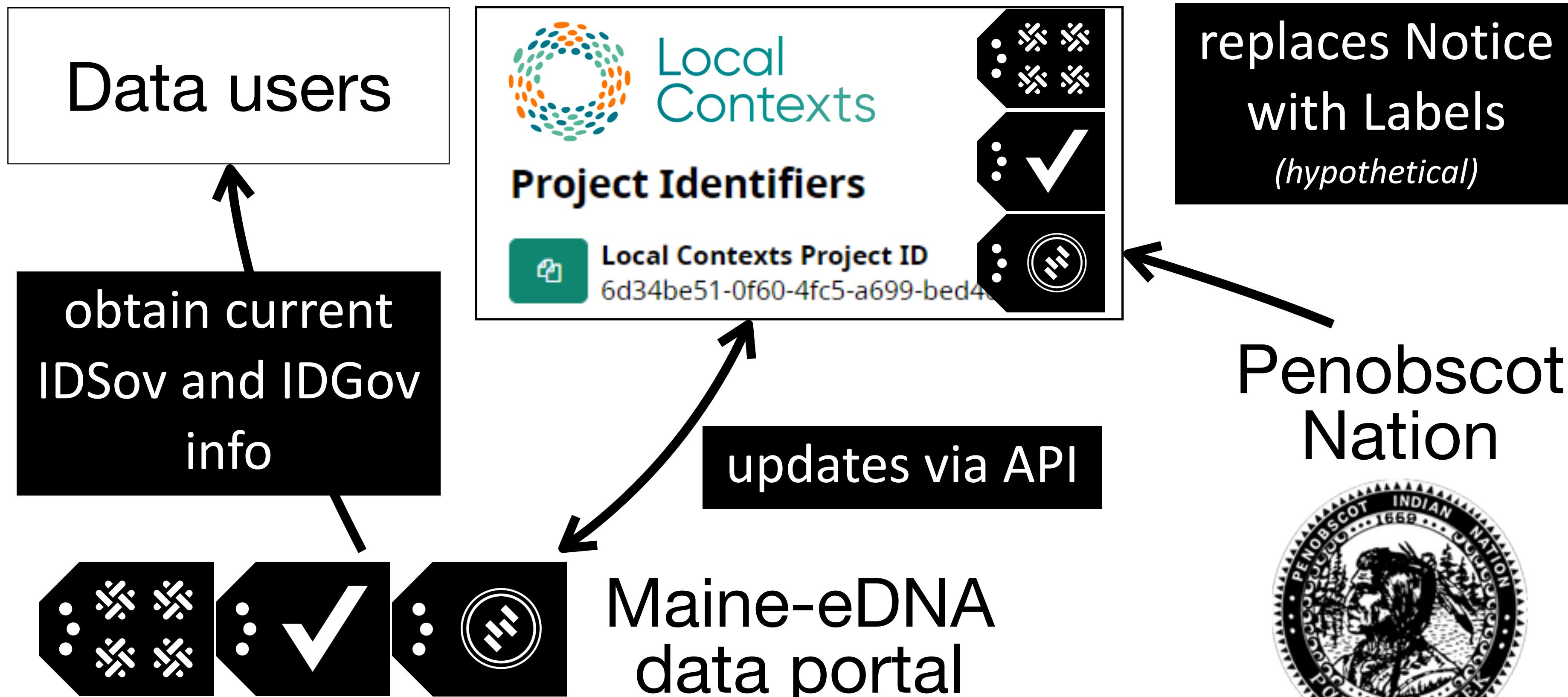


GIDA
Global Indigenous
Data Alliance

Biodiversity data with CARE



Biodiversity data with CARE



ENRICH



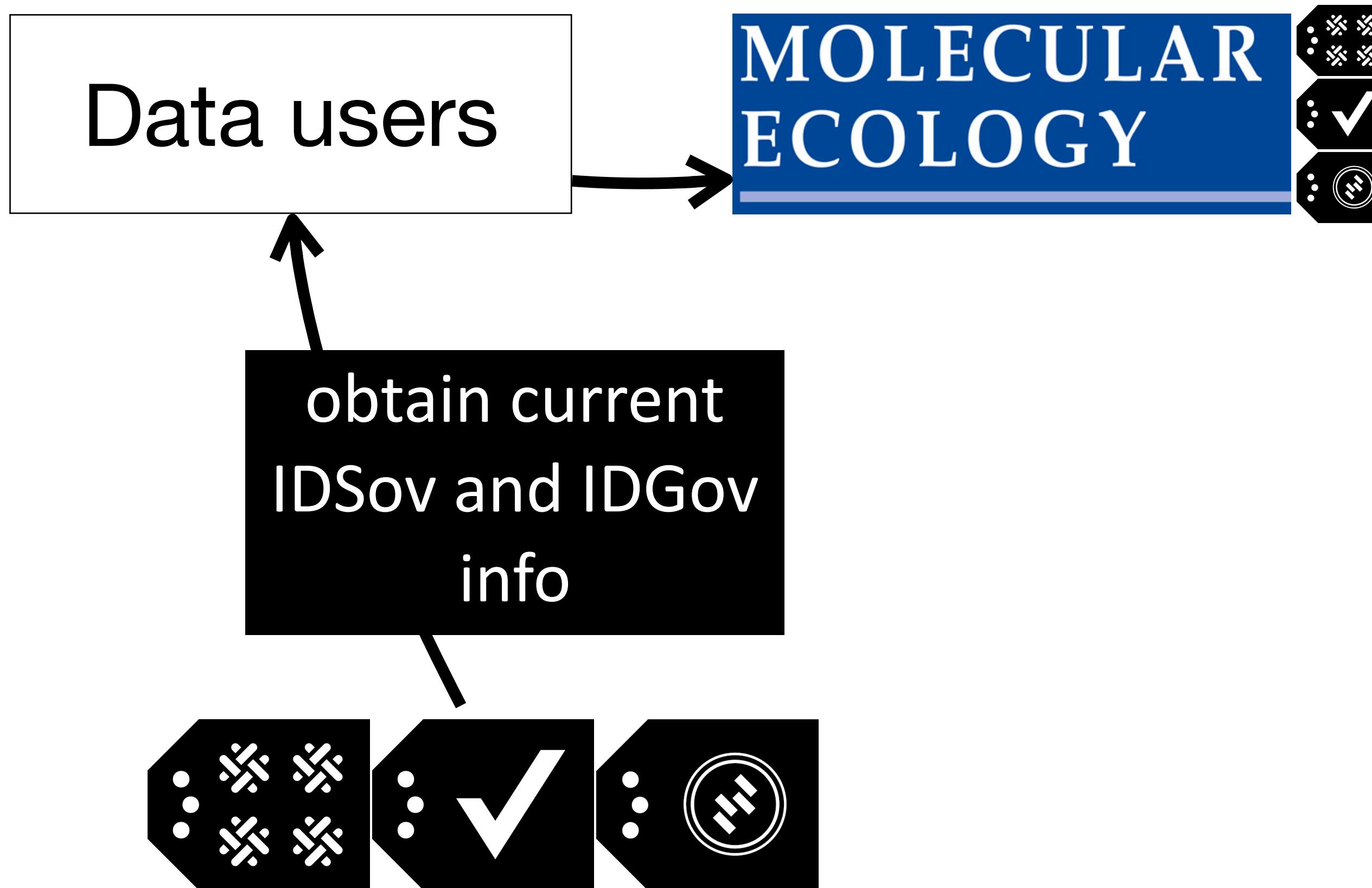
Local
Contexts



Penobscot
Nation



The road ahead



ENRICH



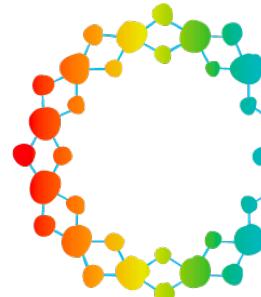
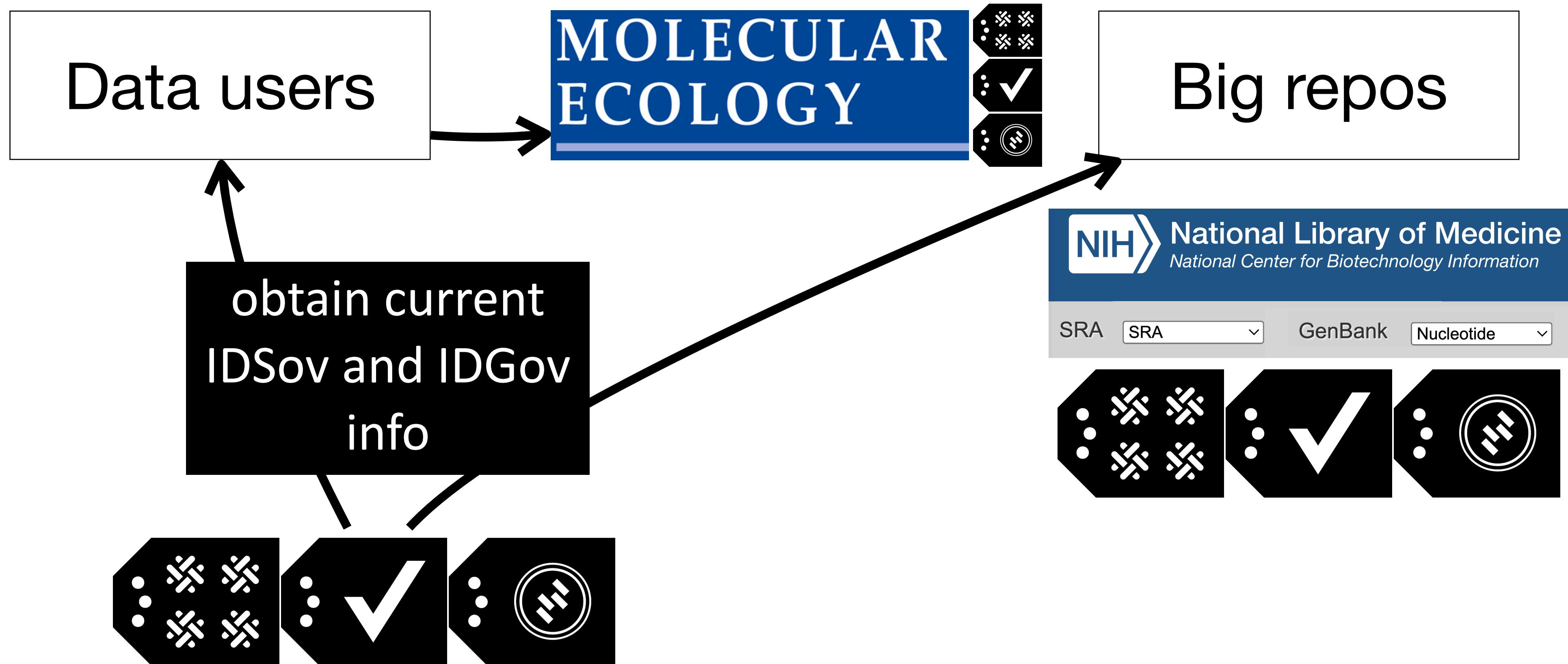
Local
Contexts



GIDA
Global Indigenous
Data Alliance



The road ahead



ENRICH



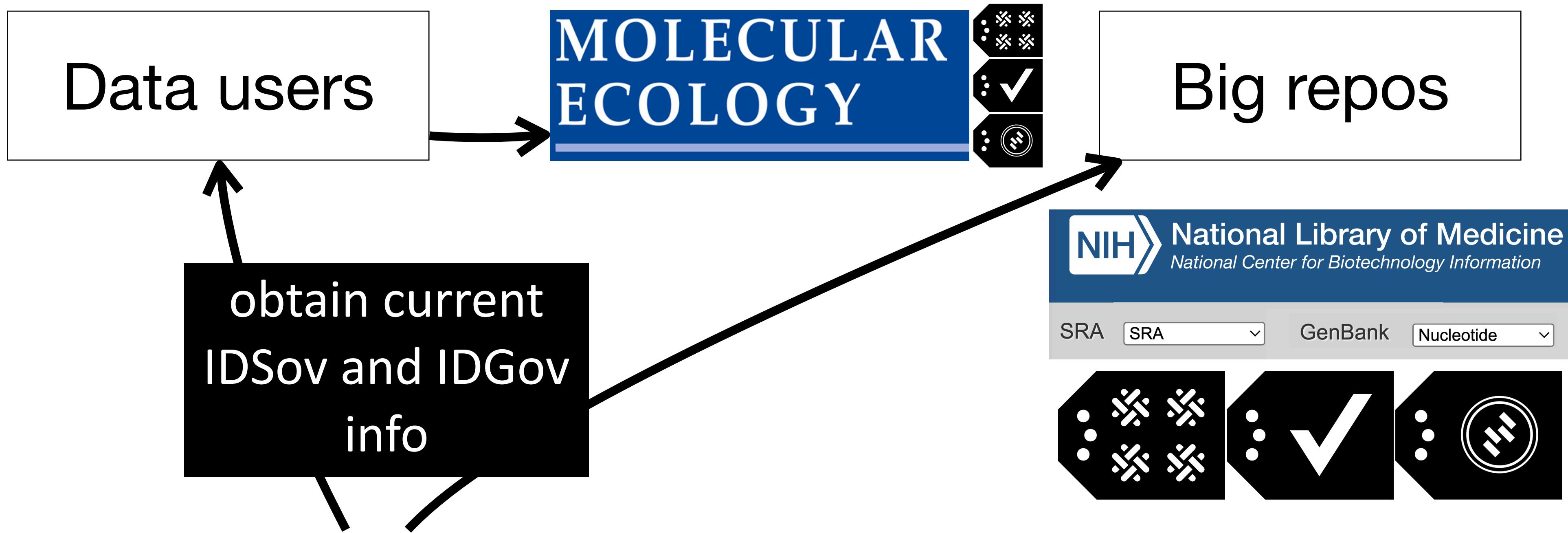
Local
Contexts



GIDA
Global Indigenous
Data Alliance



The road ahead



*Technical Implementation
Working Group*



ENRICH



Local
Contexts

*Repositories
Consortium*



GIDA
Global Indigenous Data Alliance

Insights from the process



ENRICH



Local
Contexts



GIDA
Global Indigenous
Data Alliance

Maui Hudson

Jane Anderson

Janette Hamilton-Pearce

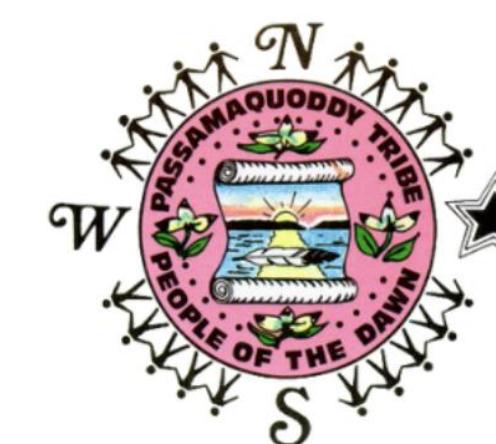
Corrie Roe

Felicia Garcia

Stephanie Russo Carroll

Riley Taitingfong

Andrew Martinez



Kendyl Reis

Chris Sockalexis

Isaac St. John

Donald Soctomah

Maine-eDNA

Darren Ranco

Beth Davis

Jen Smith-Mayo

Kay Hernandez

Melissa Kimble

Andy Rominger

*it takes a
collaborative
team*

Insights from the process



ENRICH



Local
Contexts



GIDA
Global Indigenous
Data Alliance

Maui Hudson

Jane Anderson

Janette Hamilton-Pearce

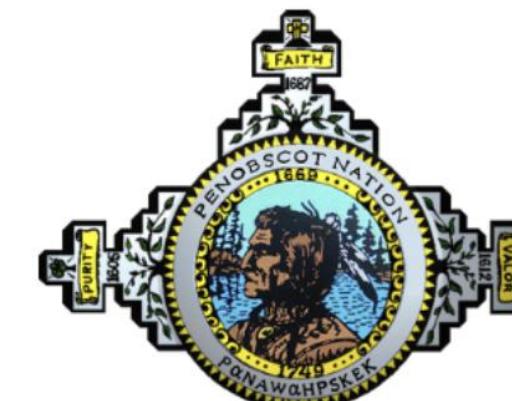
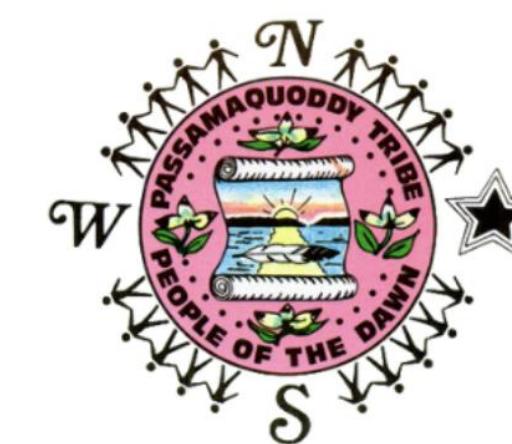
Corrie Roe

Felicia Garcia

Stephanie Russo Carroll

Riley Taitingfong

Andrew Martinez



Kendyl Reis

Chris Sockalexis

Isaac St. John

Donald Soctomah

Maine-eDNA

Darren Ranco

Beth Davis

Jen Smith-Mayo

Kay Hernandez

Melissa Kimble

Andy Rominger

*settlers learn
to listen and
follow*

Insights from the process



ENRICH



Local
Contexts



GIDA
Global Indigenous Data Alliance

Maui Hudson

Jane Anderson

Janette Hamilton-Pearce

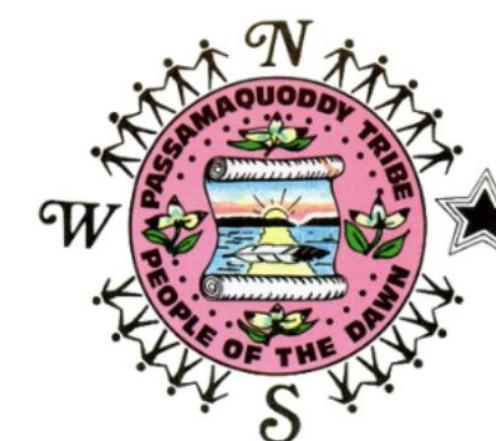
Corrie Roe

Felicia Garcia

Stephanie Russo Carroll

Riley Taitingfong

Andrew Martinez



Kendyl Reis

Chris Sockalexis

Isaac St. John

Donald Soctomah

Maine-eDNA

Darren Ranco

Beth Davis

Jen Smith-Mayo

Kay Hernandez

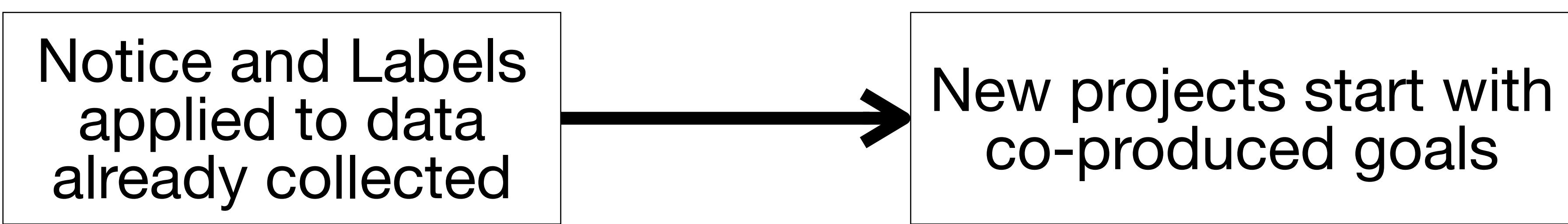
Melissa Kimble

Andy Rominger

*grant funds
should go to
tribal nations*

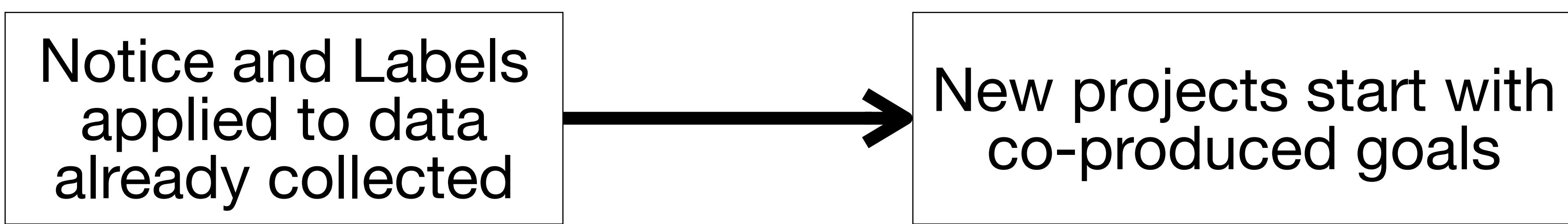
Insights from the process

*moving from
retroactive permission to co-production*



Insights from the process

*moving from
retroactive permission to co-production*



Penobscot Nation



Darren Ranco



Beth Davis

using eDNA to quantify river health

Insights from the process

*moving from
retroactive permission to co-production*

Notice and Labels
applied to data
already collected



New projects start with
co-produced goals

it takes time



Penobscot Nation



Darren Ranco



Beth Davis

using eDNA to quantify river health