



**SUPPORTING TRIBES IN THE
MANAGEMENT, ANALYSIS, AND SHARING OF
ENVIRONMENTAL DATA**



HOW MANY PEOPLE HERE HAVE:

1. Heard of the Exchange Network or TXG?
2. Been at your position for less than 1 year? 2-4 years? 5+ years?

Finally, what types of data are you managing?



ABOUT TXG & THE EXCHANGE NETWORK

A collaborative effort from the EPA that strives to support better environmental decision-making through improving and expanding the ability for environmental agencies to manage and share environmental information.



**NATIONAL ENVIRONMENTAL
EXCHANGE NETWORK**

Tribal professionals working on aspects of the EN. TXG's primary purpose is to ensure representation and consideration of tribal perspectives and issues, and to support tribal participation in the EN through advocacy, mentoring, and technical assistance.



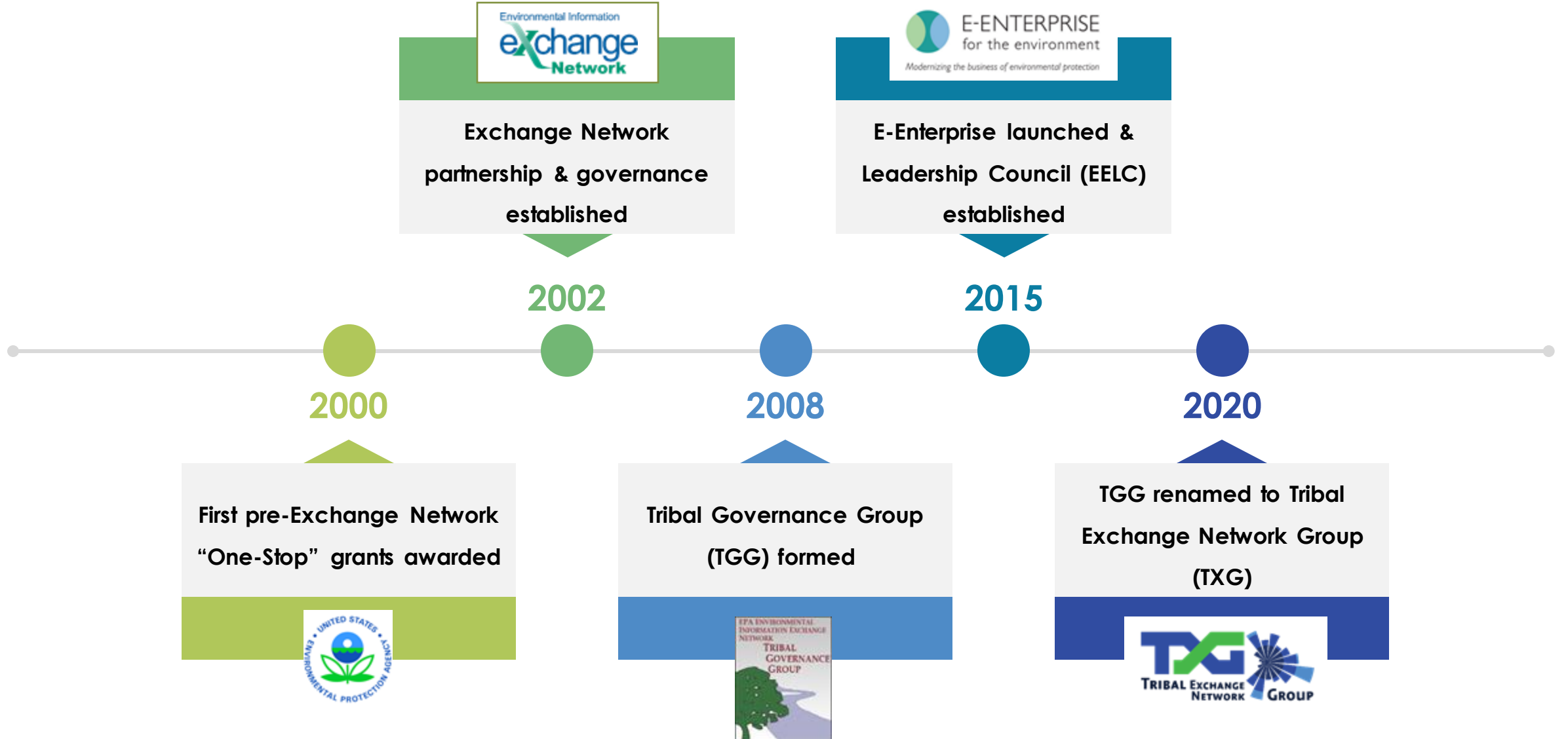
**TRIBAL EXCHANGE NETWORK
GROUP**

ITEP supports tribal involvement in the Exchange Network. ITEP works closely with the TXG to strengthen the tribal voice amongst EN stakeholders to identify ways to foster projects and initiatives that are both relevant and sustainable for tribes.



**INSTITUTE FOR TRIBAL
ENVIRONMENTAL PROFESSIONALS**

HISTORY OF EN & TXG



HOW CAN TXG SUPPORT YOUR TRIBE?

SUPPORTING TRIBAL LEGACIES WITH ENVIRONMENTAL DATA

01

TRAININGS & EVENTS

Tribal Data & Technology Academy workshops
Tribal Exchange Network Conference

02

TRIBAL ASSISTANCE

Developing skills & knowledge through peer-to-peer support.

03

EXCHANGE NETWORK GRANTS

EPA competitive funding supporting tribal environmental data systems.

04

RESOURCES & ADVOCACY

Promoting tribal access, equity, & inclusion in the EN.



TXG SUPPORTS TRIBAL
MANAGEMENT, ANALYSIS,
AND SHARING OF
ENVIRONMENTAL DATA

TRAININGS & EVENTS

UPCOMING:

Monthly Data Drop-In Sessions

- Thursday, August 17th
- Thursday, September 21st
- Thursday, October 19th
- Thursday, November 16th

Intro to SQL Databases: Sept. 26 & 28th

Git and GitHub: Nov. 14th

Advanced SQL: Nov. 16th

Tribal Exchange Network Conference 2024

TRIBAL DATA & TECHNOLOGY ACADEMY WORKSHOPS

- Database Management
- Geospatial systems & mapping tools
- Basic coding, data analysis, and data science

TRIBAL EXCHANGE NETWORK CONFERENCE

Networking and information sharing opportunity on EN projects, grants, & technology.

- Travel scholarships available



TRIBAL ASSISTANCE (TA)

TXG Members provide useful information, recommendations, guidance, and valuable insight based on their experiences, to other tribal professionals who are in need of practical solutions and tribally-relevant data & technology strategies.

TXG MEMBERS ARE EXPERIENCED IN:

DATA MANAGEMENT

- Data workflow analysis
- Data exchanges
- Statistics & Data Quality

HARDWARE, SOFTWARE & PROGRAMMING

- GIS Mapping tools
- SQL & R Programming
- Open Source Solutions & Node Technology

ENVIRONMENTAL MONITORING DATA

- Water, Air, Hazardous & Solid Waste Data quality & monitoring
- Geospatial Data & Mapping

TA connects you to tribal professionals experienced in managing, sharing & analyzing environmental data.

OPPORTUNITIES TO SUPPORT TXG EFFORTS



Get involved in TXG activities by:



JOINING A PROGRAM TEAM

Teams focus on specific workplan projects such as the Tribal EN Conference team or the Training Team. Contact an ITEP staff member to get involved.



TELLING OTHERS ABOUT TXG

Heading to a conference or RTOC meeting? Spread the word about TXG by sharing-out information on TXG's (free!) opportunities for tribal environmental programs and professionals.



PROVIDING TRIBAL ASSISTANCE

Share your skills with others by supporting a tribal environmental professional. Examples of support include one-on-one training in R or other programs, providing tutorials on data collection, or sharing a custom data exchange.



SHARING YOUR PASSIONS

Have an interest in a particular topic? Passionate about data sovereignty, the future of the EN, or new ways to support tribal environmental professionals? Bring your ideas to the TXG meetings, and volunteer your time to make them a reality.

Please contact Ashley.Gries@nau.edu so that we can pair your interests & skills to TXG's needs.

TXG Tribal Assistance Case Study

At A Glance

TXG Time Spent on this Request:

92 hours +
16-hour Data
Academy
Workshop

Number of BPT staff trained:

Three: BryAnna
Vaughan (2019),
Phoebe Nichols
(2020), and Brianda
Hernandez (2022).

2-Day TXG-led Data Academy Workshop on R November 2019

Bishop Paiute's WQ program staff connected with [The Carpentries](#) trainers and TXG Members through TXG's Data Carpentry Ecology workshop, where BPT staff learned the basics of R program language.

The relationships borne out of this workshop created the groundwork for BPT WQ staff to pursue small-group and one-on-one tribal assistance from Angie Reed (Penobscot Nation), as offered through TXG.

TXG-hosted Bi-weekly R Chats January 2020 - June 2020

Facilitated by Angie Reed (TXG), Melinda Ronca-Battista (ITEP), Kunal Marwaha (Carpentries), and others, this webinar-style series offered demonstrations of various R features and uses to BPT WQ staff and others, and provided a continuation of learning from the November 2019 R Workshop.

Weekly TXG Tribal Assistance Calls June 2020 - December 2022

Bishop WQ staff requested one-on-one tribal assistance from Angie Reed through TXG's Tribal Assistance program for more specific training in R. Through virtual calls with Angie, BPT staff learned coding, graphing, and data cleaning in R and R Studio, and remotely outlined the format, content, and calculations needed for their annual [BPT Water Quality report](#).

In 2023, BPT's newest Water Quality professional, Brianda Hernandez, became a TXG member after working with Angie through TXG's Tribal Assistance Program.

RESOURCES & ADVOCACY



TXG ADVOCATES FOR TRIBES BY:



Communicating tribal data management needs



Identifying resources to help tribes meet their environmental protection goals



Promote tribal access, equity, and inclusion in the Exchange Network

TXG MEMBERS



Angie Reed
Penobscot Indian
Nation



April Hathcoat
Cherokee Nation
Environmental
Programs



Bruce Jones
Northwest Indian
Fisheries
Commission



Sheryn Olson
Columbia River
Inter-Tribal Fish
Commission



**Brianda
Hernandez**
Bishop Paiute Tribe



Darold Wallick
Pala Band of
Mission Indians



Frank Harjo
Muscogee Nation



Jennifer Reyher
Muscogee Nation



Lisa Gover
Gila River Indian
Community

MEMBERSHIP

The Tribal Exchange Network Group (TXG) is a diverse team of tribal environmental professionals working with federally recognized tribes across the US to provide access to knowledge, tools, and resources to accomplish tribal environmental data management goals.

SUPPORT
TRIBAL
SOVEREIGNTY
& CAPACITY

ADVOCATE
FOR TRIBAL
RESOURCES &
ISSUES

PROMOTE
TRIBAL
ACCESS &
INCLUSION IN
THE
EXCHANGE
NETWORK



“Provide tribes with the skills and knowledge to manage and utilize EN grant funding to build decision making tools.”

Frank Harjo

REQUEST TO JOIN!

RESOURCES
& CONTACTS



txg@tribalexchangenetwork.org | tribalexchangenetwork.org



NAU.edu/ITEP
Ashley.Gries@nau.edu

EPA.gov/exchangenetwork

