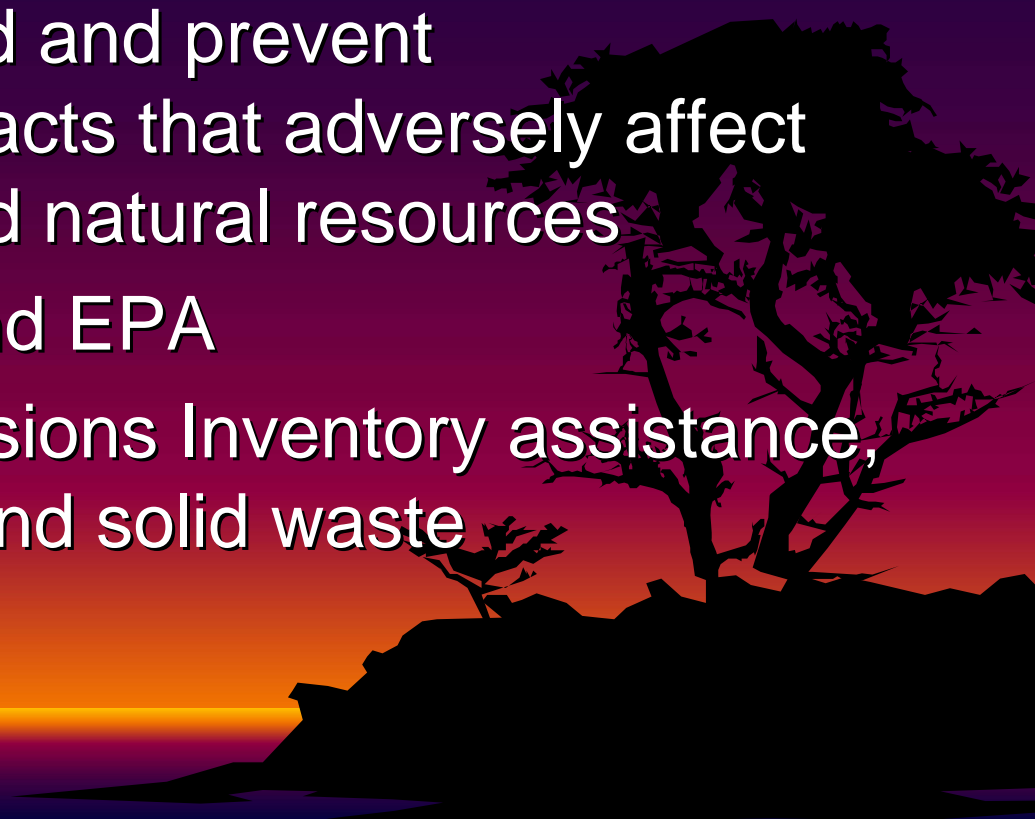
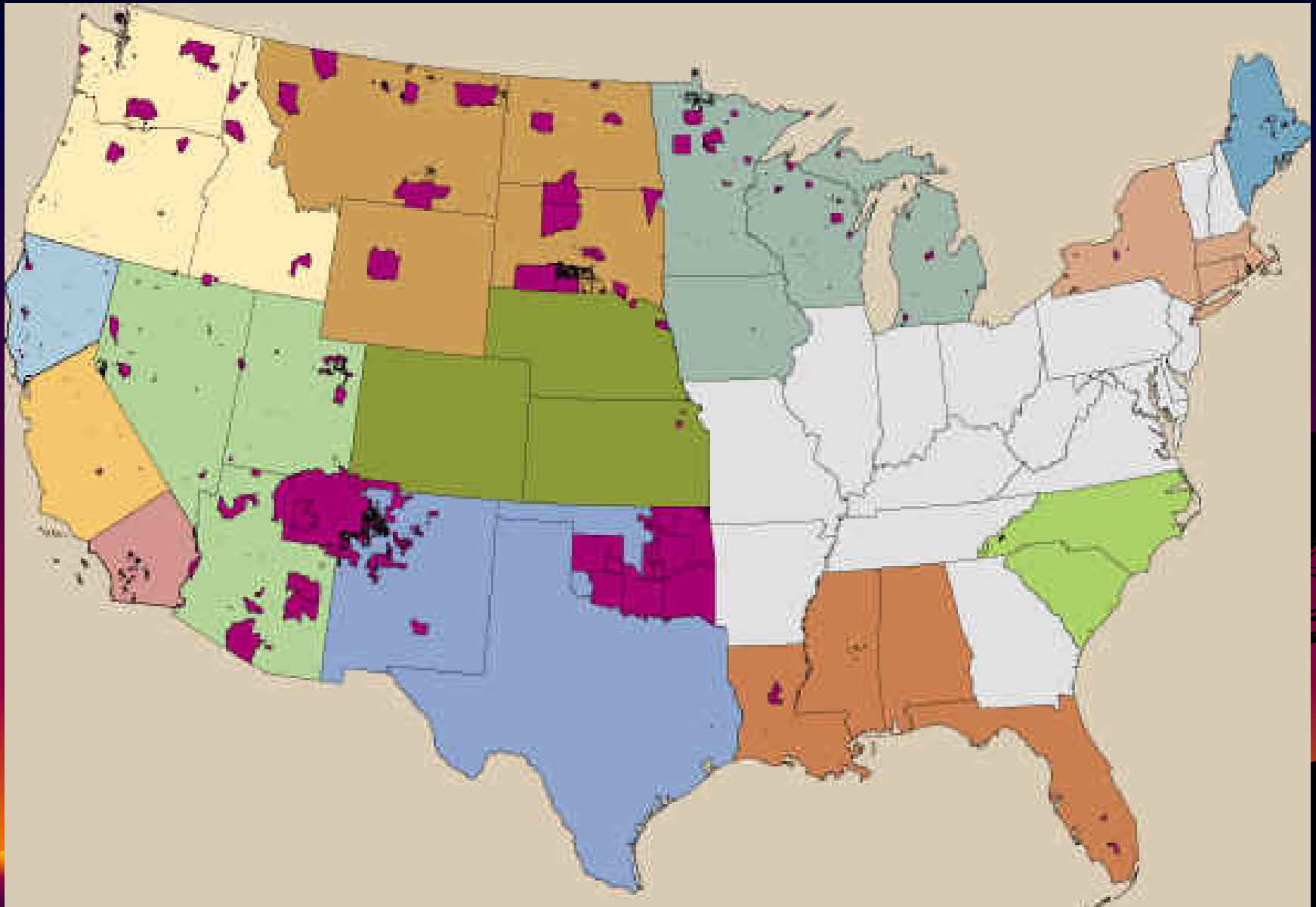


Northern Arizona University's Institute for Tribal Environmental Programs

- Mission is to **develop tribal capacity** to assess, understand and prevent environmental impacts that adversely affect health, cultural, and natural resources
- Funded by NAU and EPA
- Air, including Emissions Inventory assistance, with some water, and solid waste



Tribal lands in continental US:



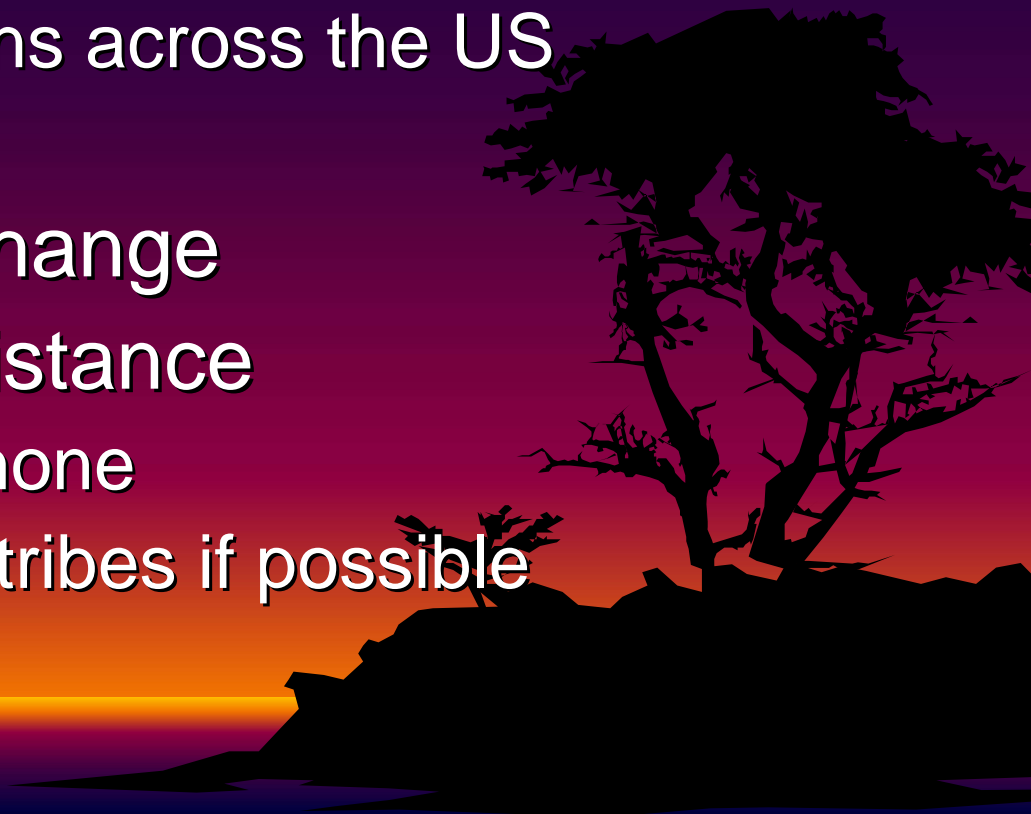
Capacity-Building:

- Enhance tribal capacity in air program management
- Work with the tribal values and context
- Build from the necessary holistic, cross-media approach
- Provide high-quality, up-to-date technical training
- Use “learn-by-doing” approach




Assistance methods:

- Workshops
 - Hands-on, with instruments, computers
 - Variety of locations across the US
 - on-line courses
- Professional Exchange
- Professional Assistance
 - Via e-mail, telephone
 - On-site, multiple tribes if possible



Professional Exchange:

- More formal, individualized training
 - Identify host sites based on interns' needs
 - Host sites include tribal agencies, EPA regions, OAQPS and state/local agencies
 - Projects are 2-3 weeks long, depending on need
- 
- A silhouette of a tree is positioned on the right side of the slide, set against a background of a sunset or sunrise. The sky transitions from a deep blue at the top to a bright orange and yellow near the horizon, where a thin line of light suggests the sun is low. The tree's branches are dark and intricate, contrasting with the lighter sky.

Workshops:





Professional Assistance:

- On-site or in central location
- Emphasis on sharing experience and tools
- Multiple tribes
- Can be focused on equipment, documentation, data management or analysis

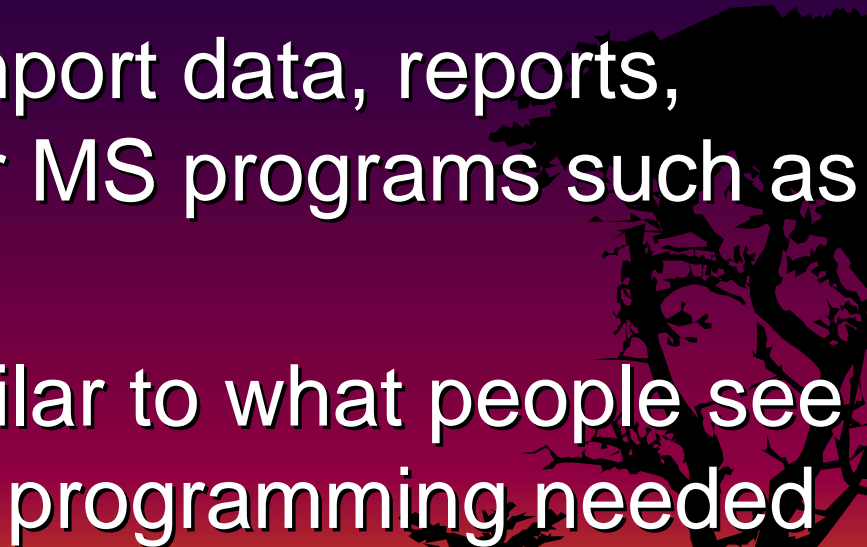


Example of one ITEP Project: The Tribal Data Toolbox--a Free, Comprehensive Data Base for Tribes

Includes AQS pipe formatting

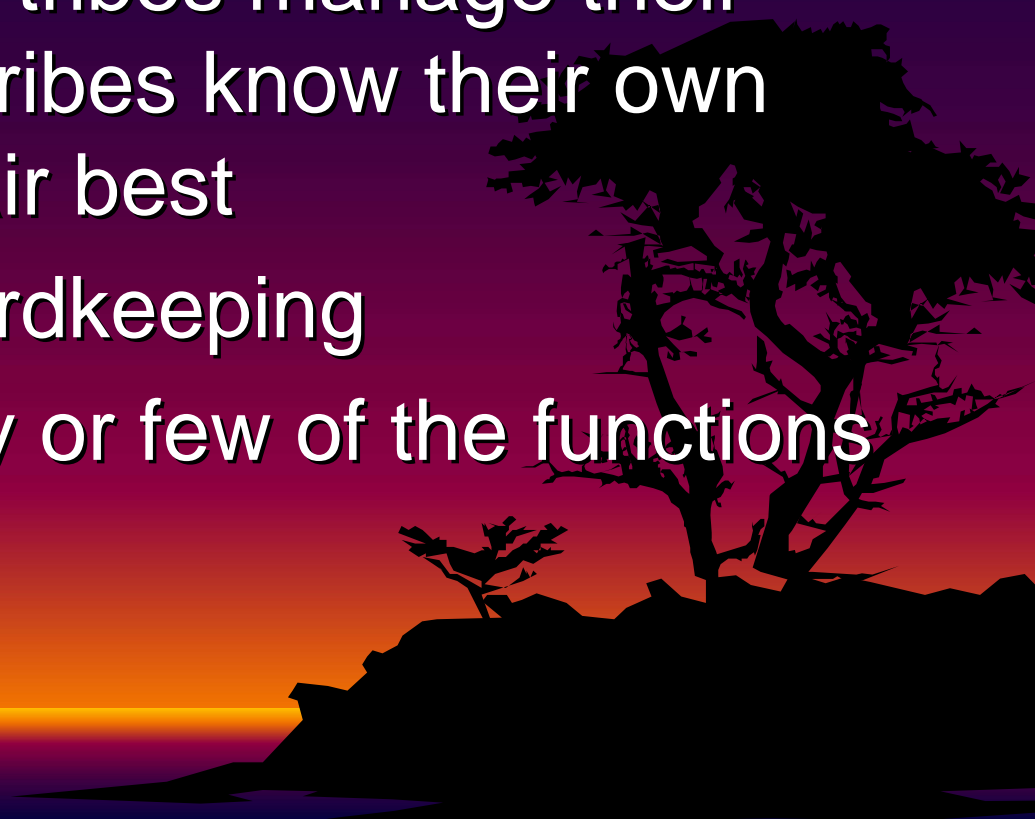
Developed in response to need for flexible
data management system for small
organizations

Uses MS Access:

- Already on most computers with MS Office
 - Easy to export/import data, reports, graphs with other MS programs such as Word and Excel
 - Form-driven, similar to what people see on websites—no programming needed
- 
- A silhouette of a tree and rocks against a sunset background. The sky is a gradient of orange, yellow, and blue. The tree is on the right side, and the rocks are at the bottom right.

Designed for small offices:

- Structures a data management system
- Designed to help tribes manage their own data, since tribes know their own data, sites, and air best
- Streamlines recordkeeping
- Can use as many or few of the functions as you need



Existing data can be easily imported:

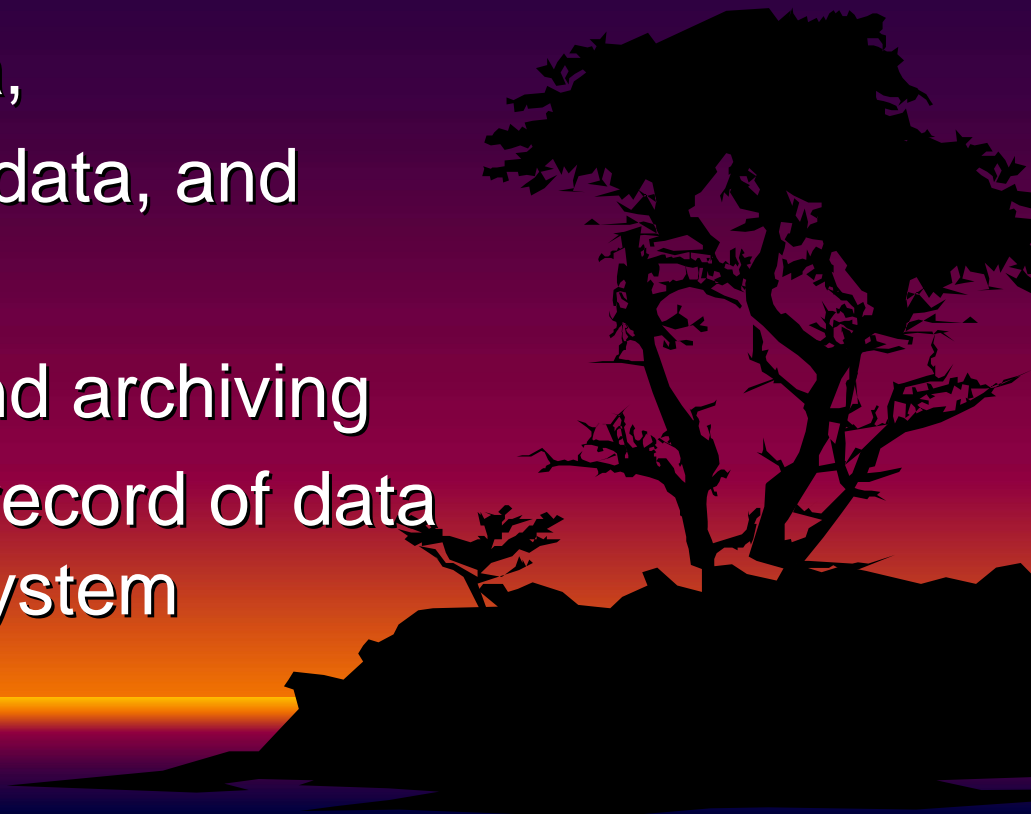
- Text files
- Excel files
- Access files
- Personal help available from ITEP to import existing data
- Functions built-in to migrate from one version of the toolbox to the next



Tribal Data Toolbox: 5 major functions

1. Administrative

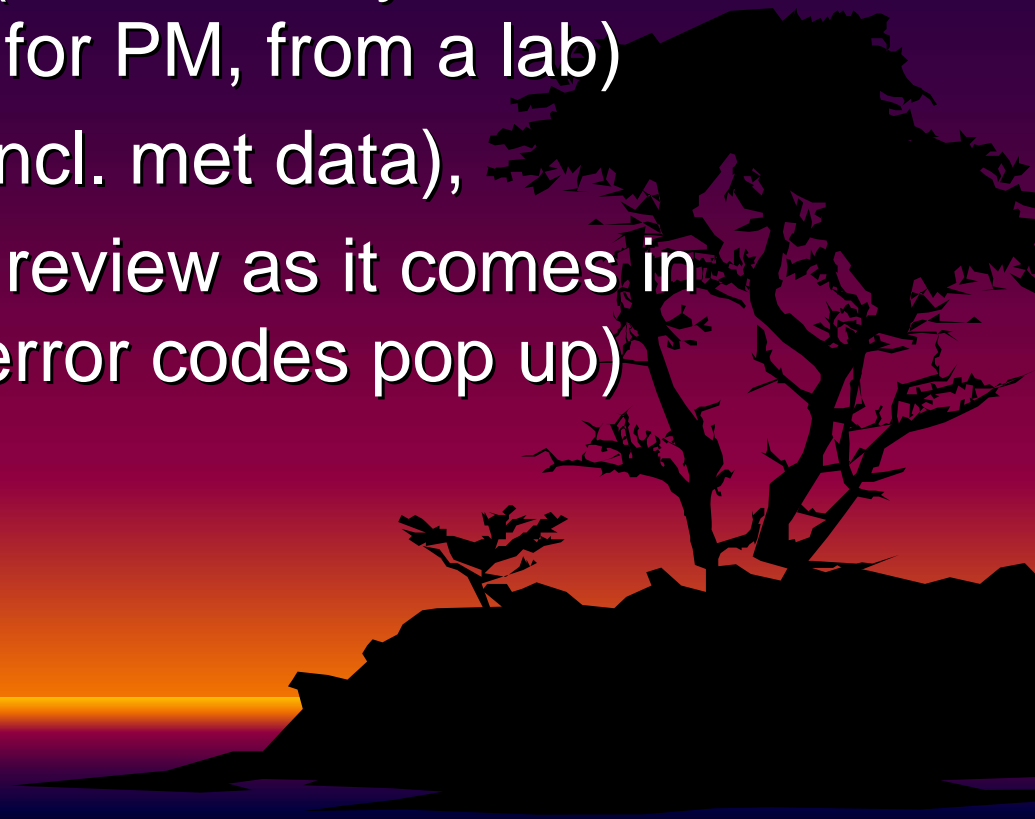
- Site data,
- Instrument data,
- QC equipment data, and
- personnel data
- Data backup and archiving
- Provides legal record of data management system



Routine data moving:

2. Operational

- importing data (both directly from an instrument and for PM, from a lab)
- tracking units (incl. met data),
- phase I of data review as it comes in (weird values, error codes pop up)



Enables you to look at your data as it comes in:

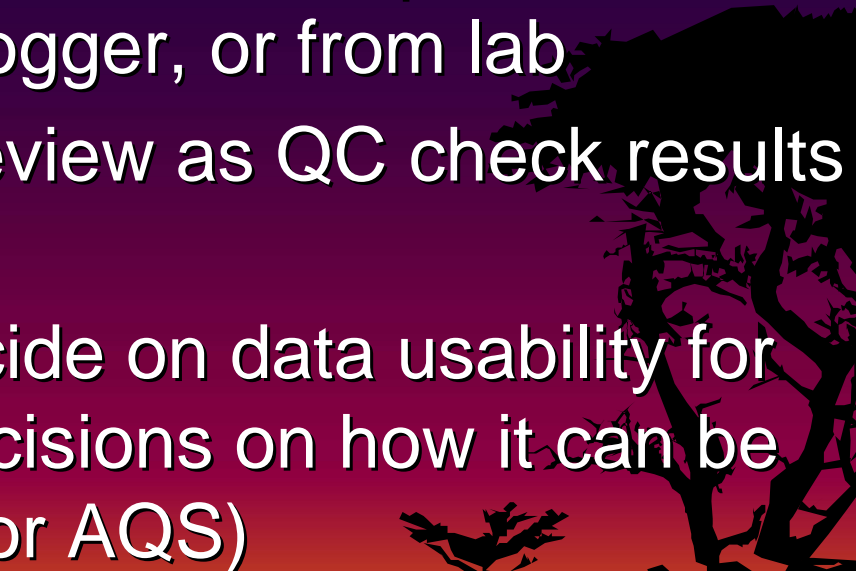
3. Analytical

- QC reports (calculates %, uses latest EPA guidance)
- Summary reports,
- Charts,
- Ozone NAAQS calculations
- PM lab, blank, collocated reports



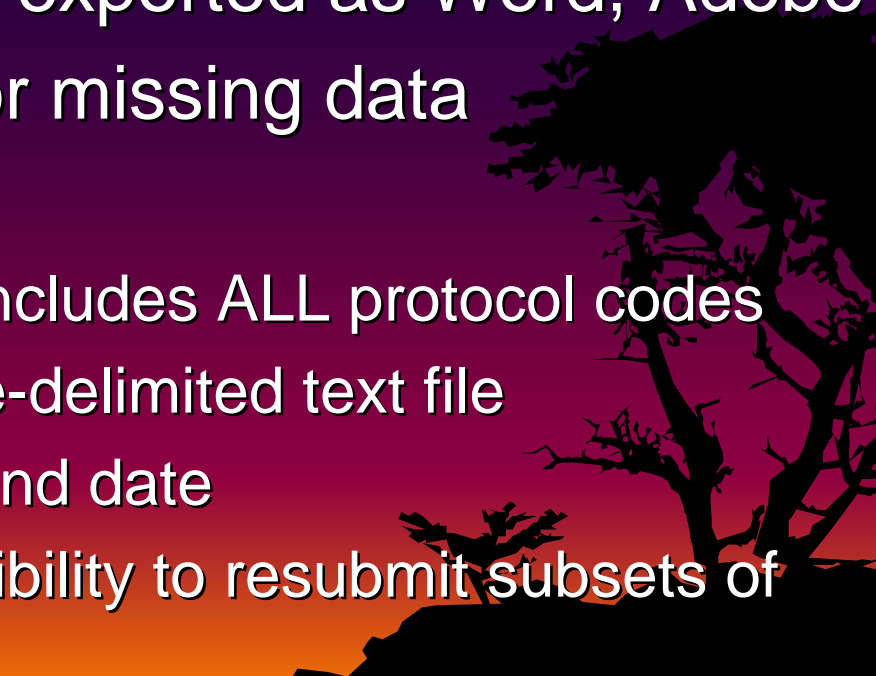
Data review and flagging:

4. Data Review-- 3 tiers of data review:

- initial data review as it is imported off the analyzer, datalogger, or from lab
 - periodic data review as QC check results are entered
 - quarterly to decide on data usability for release and decisions on how it can be used (NAAQS or AQS)
- 

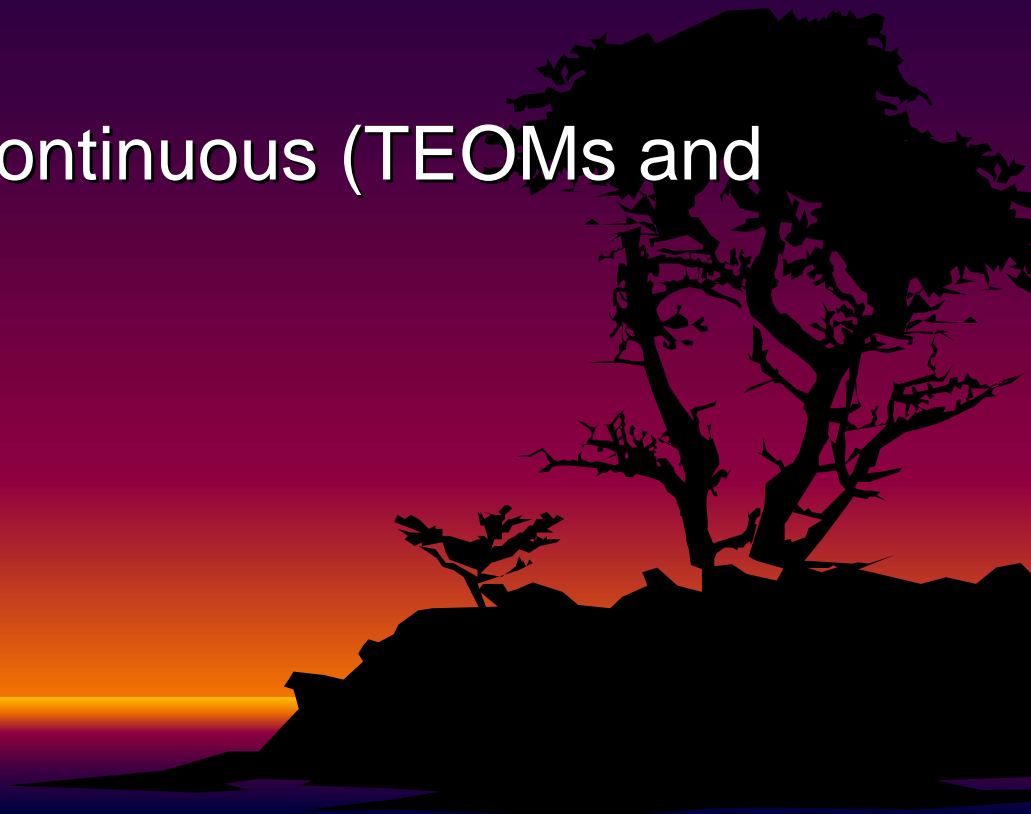
Data Reporting:

5. Final Data File Generation

- Data files can be exported as Excel, text
 - Reports can be exported as Word, Adobe
 - shows codes for missing data
 - AQS formatted
 - AQS function includes ALL protocol codes
 - Generates pipe-delimited text file
 - Any start and end date
 - Gives tribe flexibility to resubmit subsets of data
- 
- A silhouette of a tree is visible on the right side of the slide, set against a background that transitions from a deep blue at the top to a bright orange and yellow at the bottom, suggesting a sunset or sunrise. The tree's branches are dark and intricate, extending towards the top right corner.

Documented and tested:

- 150 pages of hyperlinked Help files
- Tested with data from:
 - PM2.5 manual
 - PM10 filter and continuous (TEOMs and BAMs)
 - Ozone
 - Met
 - Dataloggers



Training available:

- On-site at your office
- On-line ITEP course available in August
- Classroom courses beginning in August

LET'S GO!

