What Does A Digital Strategy Mean for Tribes

TRIBAL GOVERNANCE GROUP (TGG)
PARTNERSHIP GROUP WITH EPA OFFICE OF MISSION SUPPORT
EPA National Information Exchange Network

One-way transaction

1. PARTNERS CREATE AGREEMENTS
2. DATA PUBLISHERS MAINTAIN DEDICATED COMPUTER
3. XML PROVIDES STANDARD DATA STRUCTURES
4. PARTNERS EXCHANGE INFORMATION SEAMLESSLY

Nodes
- Node Clients
- WQX Web
- Custom apps

Priority Data flows
- AQS
- WQX
- RCRA Info
- TRI
- More...
Why a Digital Strategy

✓ Technology has changed since the original blueprint of the Exchange Network in 1999
✓ The cost/resources associated with maintaining individual software is expensive and inefficient
✓ Collaborative efforts and products such as Virtual Exchange Services (VES)
✓ Promoting the e-enterprise partnership and the sharing/reuse of collaborative products
E-Enterprise Digital Strategy: Partnership for Digital Transformation

1. CUSTOMER-CENTRIC DESIGN
   - User-Centric Design and Design Thinking remove the complexity of government to users allowing easy access to data, systems, and services
   - Embrace Agile Development
   - Enable Constant Transparent Comm (i.e., Huddle Boards)
   - User Needs Come First
   - Stakeholder Reachback
   - Share Knowledge
   - User Interfaces
   - Easy Access to Data and Services
   - Improved Search
   - Mobile Access
   - Easier Data Reporting

2. INFORMATION-CENTRIC PRACTICES
   - EPA, States, and Tribes provide greater access to externally facing data through APIs, data standards, and data sharing while maintaining ownership of their own systems
   - Existing/Updated Access Methods to Mission Systems

3. CLOUD/SHARED PLATFORMS
   - Shared platforms allow access to data, services, development platforms, and hosting that realize efficiencies and cost savings for all partners and regulated entities
   - API for Data Access and Reporting
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INFORMATION-CENTRIC PRACTICES FOR EXTERNALLY FACING & MISSION SUPPORT SYSTEMS

- EPA SYSTEMS AND DATA
- STATE SYSTEMS AND DATA
- TRIBAL SYSTEMS AND DATA

CLOUD-SHARED PLATFORM (Example Services)
- Shared E-Enterprise Digital Services
  - API Management Services
  - Open Data Discovery Services
  - Data Lake/ Data Commons
  - Modeling as a Service
  - Visualization/Advanced Analytics Tools
  - IOT/Sensor Platforms

Co-Managed Repositories
- Facility/Substance ID
- Shared Business Rules
- Code Repositories
- Data Standards
- Metadata Standards/Taxonomy
- Data Catalog
- Shared/Federated ID
- Shared QA/QC to Improve Data Quality
- Development Sandbox
- Business Rules Engine

BENEFITS TO CONSUMERS AND PROVIDERS
- Shared Knowledge
- Spur Innovation
- Cost Savings Through Burden Reduction and Faster/Better Information Access
- Increased Data Quality
- Improved Decision Making Processes
- Enable Citizen Science

GOVERNANCE
- Change Management
- Governance
- Communications
- Updates to Digital Strategy, Architecture, Roadmap
- Collaboration Resulting In Business Process Improvement Priorities
- LEANing of Processes, Policies, Procedures for Reporting and Other Business Areas
Digital Strategy from a Distance

- **Developer/Technical lead**
  Establish standards and the type of technology that might be used

- **Program Staff**
  User case; tools that support data collection/submission

- **Leadership/Decision Maker**
  Respectful use of data; Partnerships/Funding
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Informal Participation
Formal Governance
What does this mean for Tribes

- A wide arrange of topics for tribes pertaining to data
- States are focusing their efforts on permitting and Drinking Water data systems
- Aligning resources with priorities
- Non participation means that there will be limited input from tribes on the digital strategy
- Web based systems that may not work best for tribes
How can we get your participation

- There is something for everyone to participate
- Informal or formal participation
- Work with the Tribal Governance group, Tribal EELC representatives
- We need your help