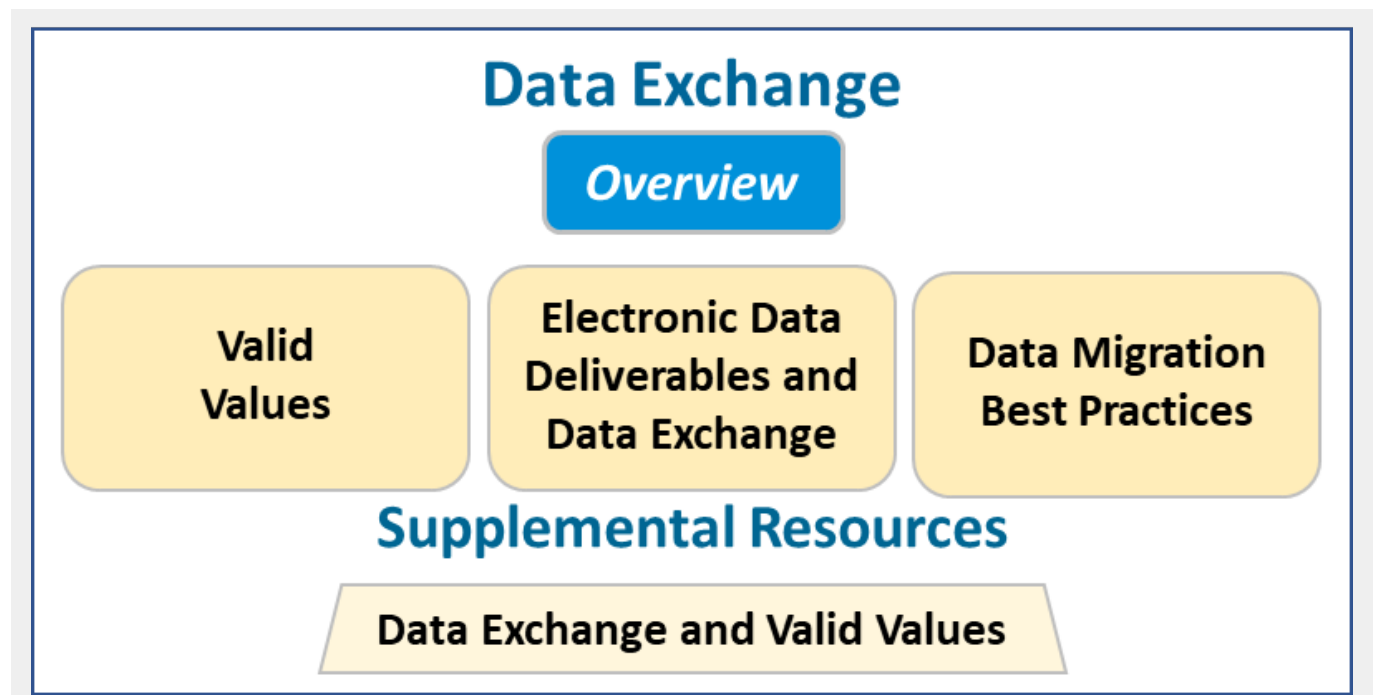The Data Exchange subgroup of ITRC's Environmental Data Management Best Practices team prepared an overview fact sheet, three subtopic sheets, and a table of supplemental resources.
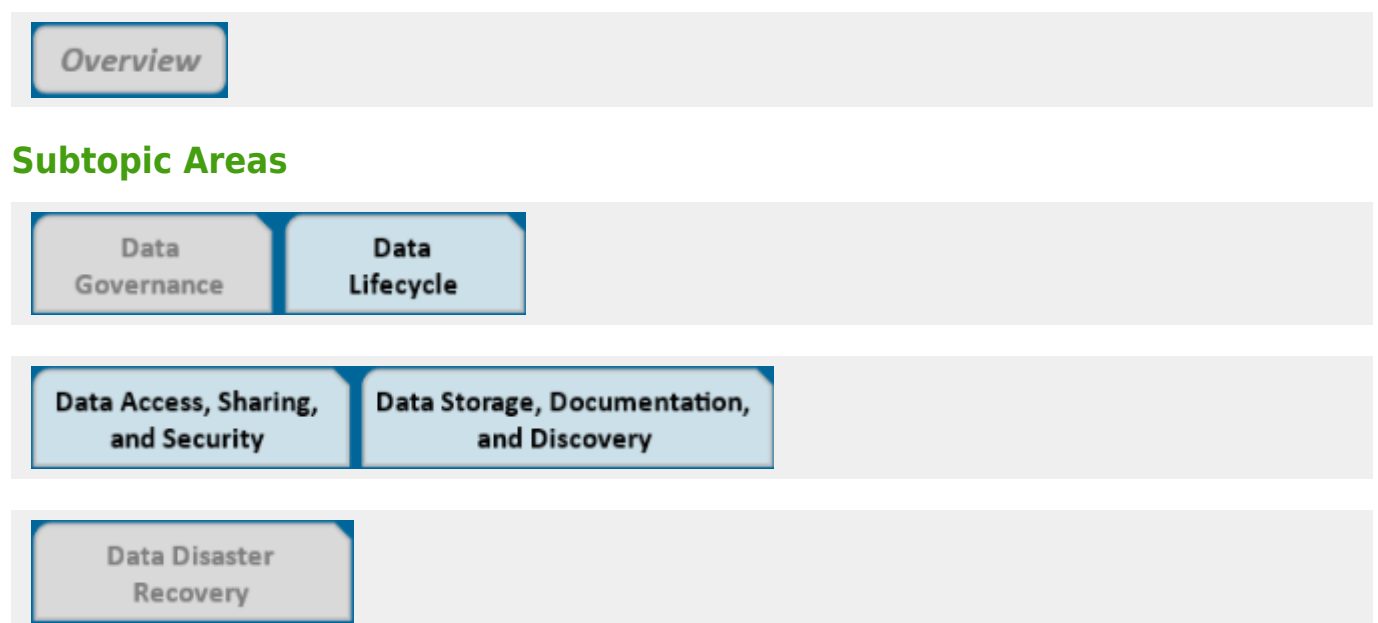
Instructions: Click on the individual buttons within the graphical interactive directory to navigate to each work product.

The work products prepared by this subgroup are supported by work products that were prepared by other subgroups within the Environmental Data Management Best Practices team. In the Interactive Directory below, work products that pertain to Data Exchange, whether prepared by this subgroup or a different subgroup, are highlighted to illustrate cross connections between subgroup areas.

Instructions: Click on a highlighted button within the graphical interactive directory to navigate to a work product on that topic.

Data Management Planning

Subtopic Areas

Data Quality

Overview

Subtopic Areas

- Using Data Quality Dimensions to Assess and Manage Data Quality
- Considerations for Choosing an Analytical Laboratory
- Analytical Data Quality Review: Verification, Validation, and Usability

Tutorial

Tutorial: Active Quality Control During Screening-level Assessments

Supplemental Resources

Data Quality Planning   Data Quality Review

Environmental Data Management Systems

White Paper

Field Data Collection

Overview

- Defining Data Categories and Collection Methods
- Field Data Collection Quality Assurance and Quality Control (QA/QC)
- Field Data Collection Process Development Considerations
- Field Data Collection Training Best Practices
- Interactive Tool: Field Data Collection Decision Tree
- Field Data Collection Training Development Checklist
- Other Considerations for Field Data Collection

Data Exchange

Overview

- Valid Values
- Electronic Data Deliverables and Data Exchange
- Data Migration Best Practices

Supplemental Resources

Data Exchange and Valid Values

Traditional Ecological Knowledge (TEK)

Overview

Subtopic Areas

- Acquiring TEK
- Using and Consuming TEK
- Managing TEK Data

Geospatial Data

Overview

Management Subtopic

Organization Standards for Geospatial Environmental Data Management

- Data Standards
- GIS Hardware
- Geospatial Metadata
- Software

Collection Subtopic

- Collection Consistency
- Field Hardware

Communication, Visualization, and Dissemination Subtopic

- Data Dissemination: Web Format
- Geospatial Visualization of Environmental Data

Supplemental Resources

Geospatial Data

Public Communications and Stakeholder Engagement

White Paper

Supplemental Resources

Public Communications

Case Studies
Data Exchange Focus

Historical Data Migration: Filling Minnesota's Superfund Groundwater Data Accessibility Gap

USGS: Challenges with Secondary Use of Multi-source Water Quality Monitoring Data

Traditional Ecological Knowledge Focus

Collection and Application of Local Knowledge to Local Environmental Management in Duluth, Minnesota

Improving Coastal Resilience in Point Hope, Alaska

Integration of TEK to the Remediation of Abandoned Uranium Sites

Local Ecological Knowledge of Historic Anthrax in a Natural Gas Field

Rest in Peace? A Cautionary Tale of Failure to Consult with an Indigenous Community

Use of TEK to Support Revegetation at a Former Uranium Mill Site

Additional Information

References   **Acronyms**   **Glossary**

Acknowledgements   Team Contacts

The acronyms, glossary terms, and references cited in these materials are also available on Environmental Data Management Best Practices website.

Return to the complete Interactive Directory of Environmental Data Management Best Practices Team Work Products.