This page provides an interactive directory for finding the fact sheets, white papers, subtopic sheets, interactive tools, and checklists prepared to describe best practices for environmental data management (EDM).

Lists of acronyms, glossary terms, and references cited in these materials are also available on this website.

User Instructions for Interactive Directory: Click on the individual buttons within the graphical interactive directory to navigate to each work product shown in this interactive directory.

Environmental Data Management Best Practices

Introduction *Overview of Guidance Documents*

Data Management Planning

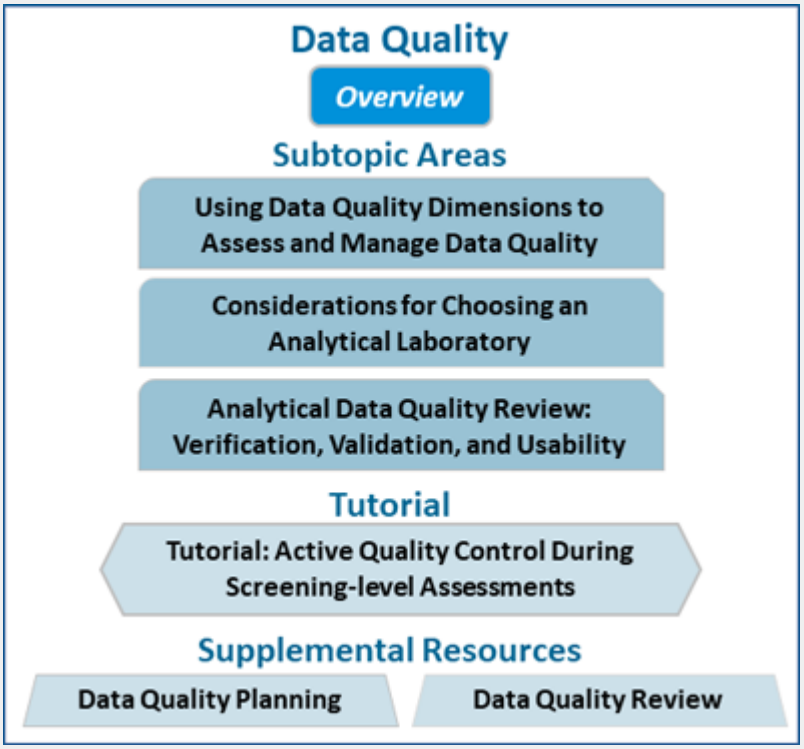
Overview

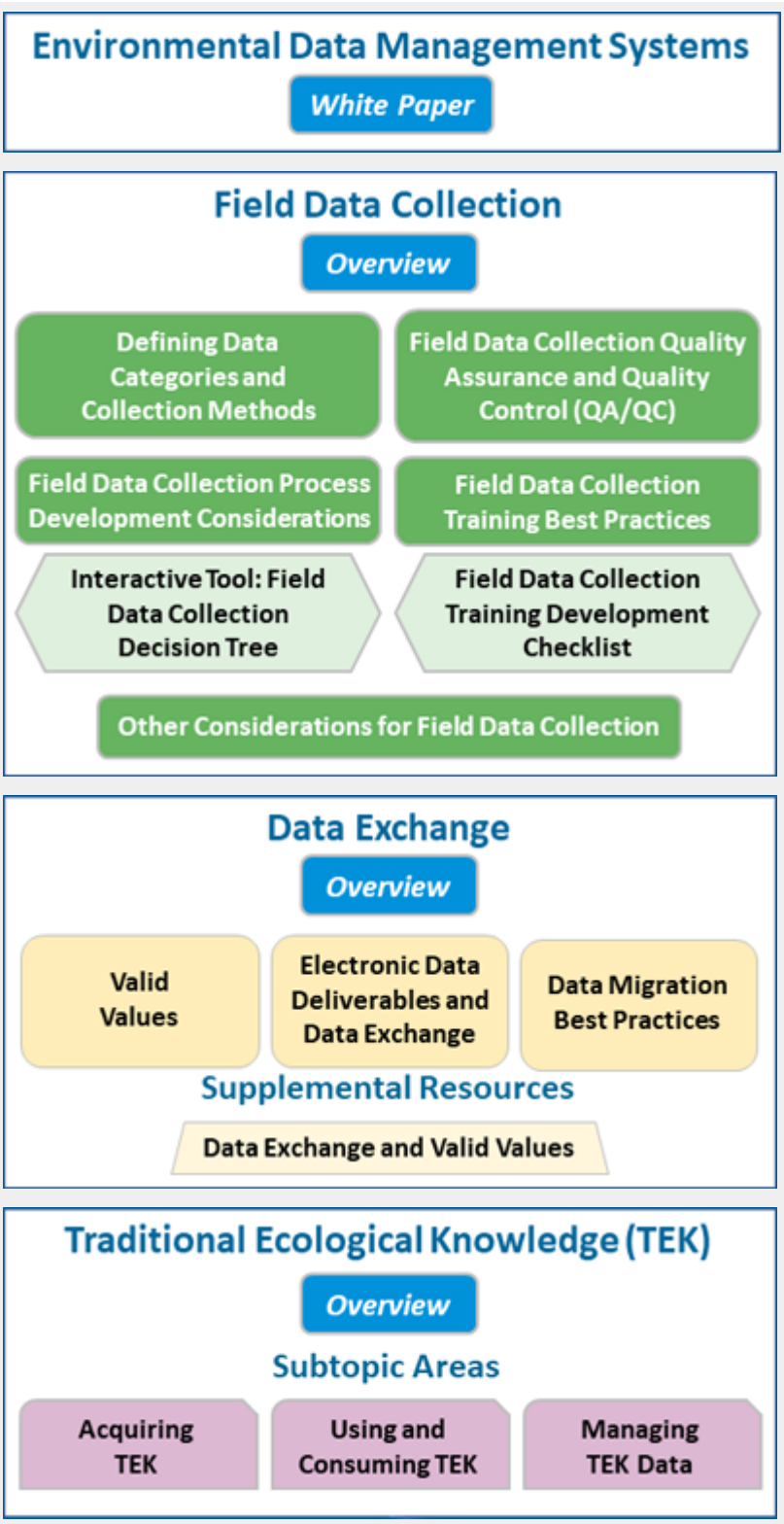
Subtopic Areas

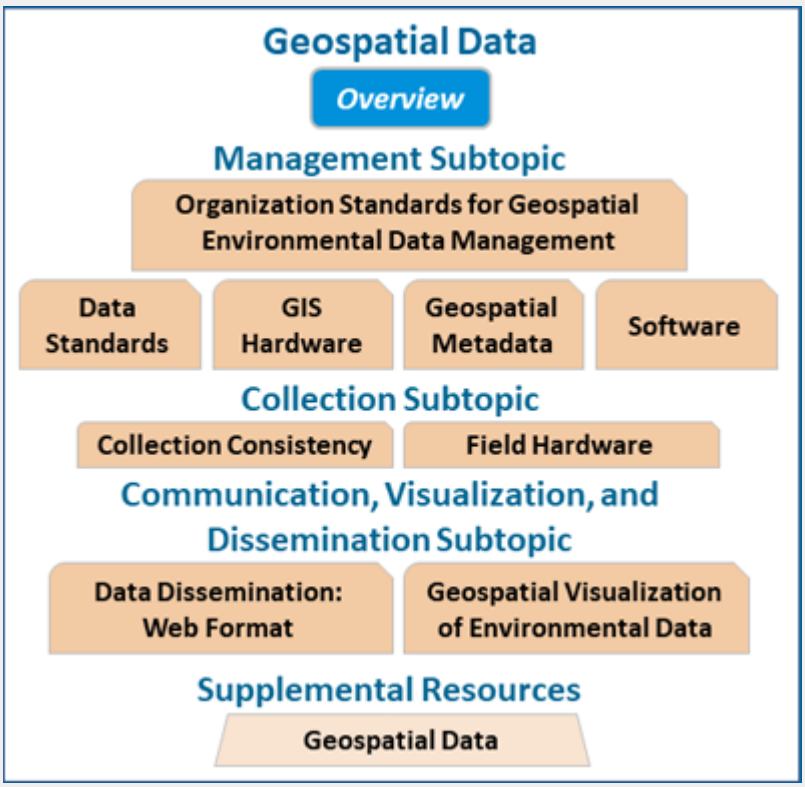
Data Governance | Data Lifecycle

Data Access, Sharing, and Security | Data Storage, Documentation, and Discovery

Data Disaster Recovery




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