

This Interstate Technology and Regulatory Council (ITRC) online documentation includes Fact Sheets, Subtopic Sheets, Checklists, Case Studies, Interactive Tools, and Supporting Documents prepared by the Environmental Data Management Best Practices (EDMBP) Team. Links within the online document help the reader locate interrelated topics. The web-based nature of this document lends itself to updating key information in this continually evolving subject.

The documents are designed specifically for state, tribal and federal environmental staff, as well as others (including stakeholders, project managers, and decision makers), to gain a working knowledge of best practices for environmental data management (EDM). The document was developed by a team of over 400 environmental practitioners drawn from state and federal government, academia, industry, environmental consulting, and public interest groups.

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

Interactive Directory of Environmental Data Management Best Practices Team Work Products

The Interactive Directory below presents the relationship between work products prepared by the EDMBP team.

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*

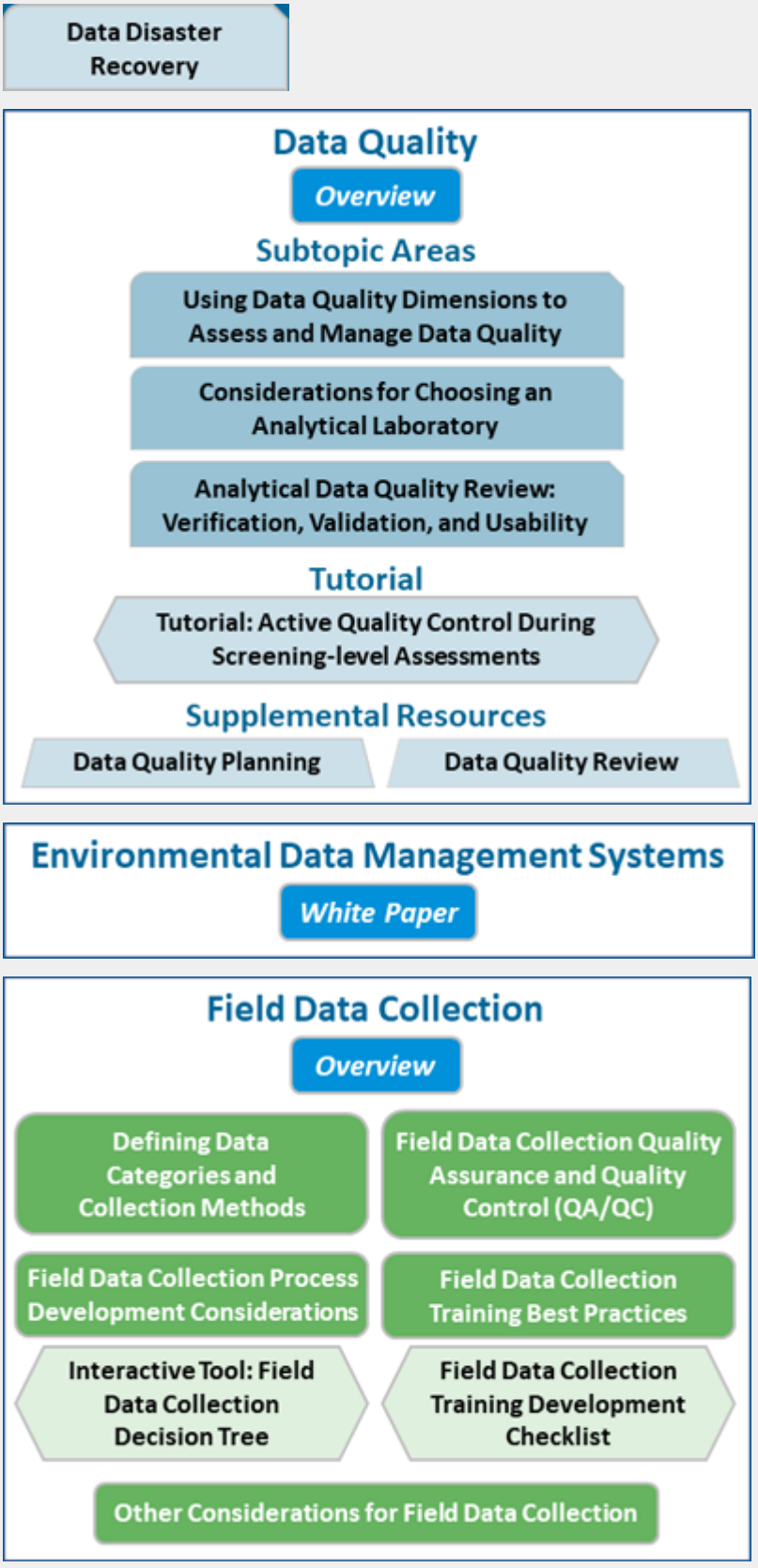
Data Management Planning

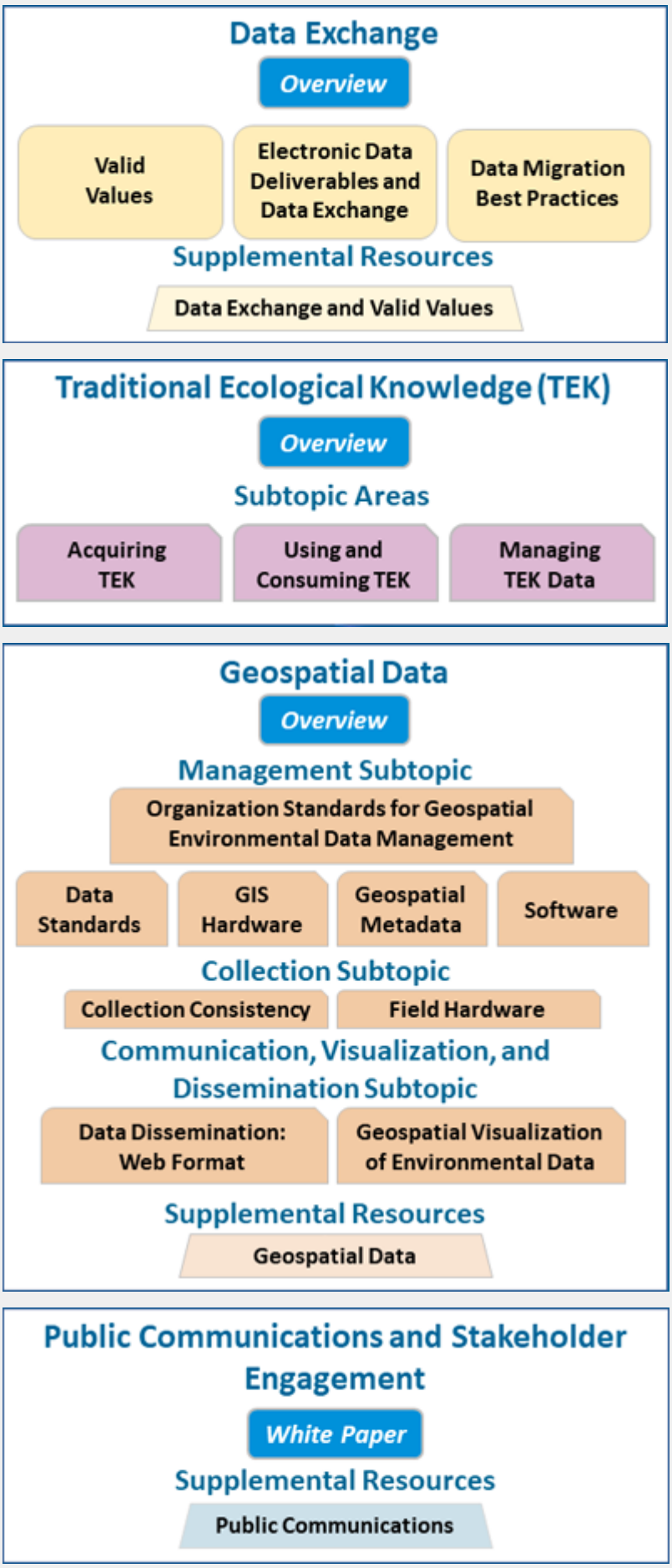
Overview

Subtopic Areas

Data Governance | Data Lifecycle

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


Data Disaster Recovery
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



Environmental Data Management Training

Environmental Data Management Best Practices Roundtables

The EDMBP Team developed three Roundtable training sessions to support the Guidance Document and case studies. These training sessions are complimentary to the guidance materials but cover different self-contained subjects.

- Data Management: Real Life Application of Data Management Planning and Field Data Collection Best Practices
- Data Exchange: Best Practices for Exchanging Environmental Data
- Data Quality: Best Practices for Achieving and Maintaining Quality within Environmental Data Management

Environmental Data Management Best Practices Overview Video

ITRC's Environmental Data Management Best Practices (EDMBP) Team developed an overview video detailing these guidance materials and clarifying how to best navigate this website.

Traditional Ecological Knowledge Podcast

The EDMBP Traditional Ecological Knowledge (TEK) Subgroup has published a full-length podcast introducing and

contextualizing this key type of ecological knowledge.

Published by the Interstate Technology & Regulatory Council, December 2022