

Overview

QA/QC

Understand

Document

Implement



Understanding QA/QC

- Fit For Use
 - support your GIS applications?
 - support your Business Systems?



- Decision-making
 - Good data → good decisions → save time & money
 - Bad data → bad decisions → more time & more money
- Reporting
 - Accuracy & Accountability



Understanding QA/QC





Daily Maintenance





Acquisition of Data (Free or Purchase)



Annual Data Revisions

Understanding QA/QC

What is the difference?



Quality Assurance—Processes or methods to help prevent errors from being introduced into the data.

- Examples:
 - Data Model, Industry-specific Editing Templates,
 Attribute Assistant, data-specific editing tools



Quality Control—Processes or tools to identify errors that are already in the data.

- Examples:
 - GP tools (Select by Attribute, Select by Location),
 GP Model, Data Reviewer Batch Jobs

Documenting QA/QC



Documenting QA/QC

- GIS Applications, Business Systems
 - Required fields, feature connectivity, topological relationships
- What can be automated?
- What will need to be checked manually/visually?
 - Data Reviewer Sampling



Implementing QA/QC



- Automated Data Validation
 - Geoprocessing Tools & Models (Toolbox)
 - Python Scripts
 - ArcGIS Data Reviewer

- Manual Data Validation
 - ArcMap Document
 - ArcGIS Data Reviewer
 - Checklist

Implementing QA/QC

Performing



- Daily or when editing
 - Step in a workflow
 - Current extent



- Periodically (weekly or monthly)
 - Scheduled, automated
 - Full database



- New or Updated Dataset
 - When received
 - Full dataset

Summary

QA/QC is important & perform regularly



- Create a QA Plan & define QC requirements
- Develop a repeatable, automated process



Resources

- LGIM data model
- Industry-related Editing Templates
 - Tools
 - Attribute assistant
- Industry-related Data Reviewer Templates
 - Sample Reviewer Batch Jobs





http://solutions.arcgis.com/

