

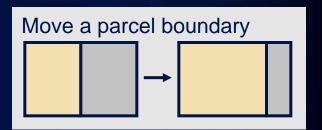
Esri International User Conference | San Diego, CA Technical Workshops | Tuesday, July 12th

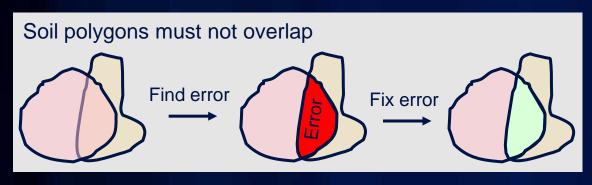
Finding & Fixing Errors Using Topology

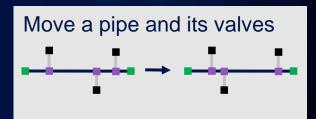
Jennifer Cadkin, Larry Young

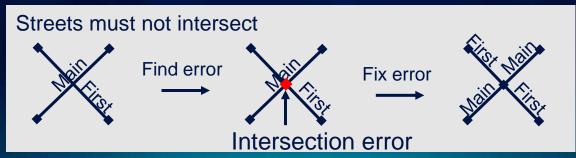
Topology manages spatial integrity

- With tools for editing coincident geometry between feature classes
- Based on rules
 - Tools for finding and fixing errors









Topology Rules

- For features classes or subtypes
- Checked during Validate Topology
 - Errors stored in geodatabase
- Saved or loaded
 - Binary file (.rul) Edit with ArcObjects not a text editor
- Examples
 - Soil polygons can't have gaps between them
 - Parcels can't overlap
 - Address points must be inside parcels

Topology Errors

- Created during Validate Topology when a topology rule is violated
- Violated rule determines error geometry
- Errors contain information
 - What rule was violated
 - Which features created the error parentage
 - How to draw the rule violation

Managing Errors

- Error management is based on work flow
- Errors cannot be deleted but can be managed
- Management options
 - Leave the error in the geodatabase
 - Fix the error using Fix Topology Error tool or some other method
 - Make the error an exception
 - e.g., rule applies everywhere except here



Summary of Finding & Fixing Errors Using Topology

- Build and validate geodatabase topologies to improve spatial integrity between your data layers
- Use the available editor tools to find and fix your errors
- Use automated fixes as much as you can, but they aren't the answer to every error
- Other sessions for Editing:
 - Road Ahead ArcGIS Desktop 10.1 Wed, 3:15 pm, Room 10
 - Designing and Authoring Maps for Editing Wed, 8:30 am & Thurs,
 1:30 pm, Room 6D
 - Editing Tips and Tricks Wed, 10:15 am & Thurs, 10:15 am, Room 3
 - Introduction to Editing in ArcMap Wed, 1:30 pm, Room 6D
 - Understanding Topology in Geodatabase Thurs, 8:30 am, Room 6C

