

Esri International User Conference | San Diego, CA Technical Workshops |

Automating Geodatabase Creation Through Model Builder

Russell Brennan – Geodatabase Product Engineer

Lan Wittenmyer – Helistic Test Product Engineer

Ian Wittenmyer – Holistic Test Product Engineer

Assumptions for this session

- Geodatabase Fundamentals
- Experience with geoprocessing
- Understanding of geodatabase design.

- Please save questions until the end of the presentation.
- Please turn off cell phones.

Agenda

- Deploying a geodatabase
- Basic deployment strategies
- Using Script tools
- Schema Changes
- Enterprise considerations
- Road ahead

Introduction

- Multiple ways to create a geodatabase.
 - Geoprocessing
 - ArcCatalog clicking
 - ArcObjects
 - CASE Tools

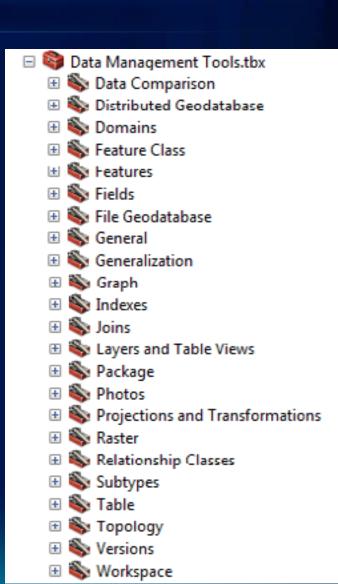


Geoprocessing Environment

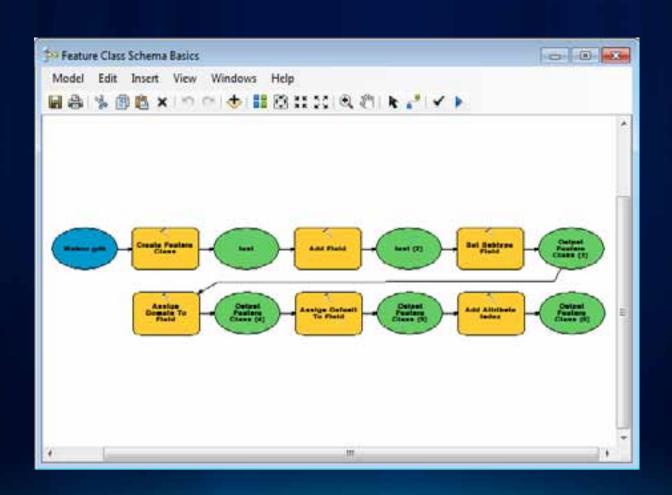
- Can be accessed using:
 - Geoprocessing tools
 - Model Builder
 - Python
 - ArcObjects

Geodatabase Tools

- Most tools are found in the Data Management toolset.
- Many tools to create geodatabase objects



Model builder geoprocessing environment





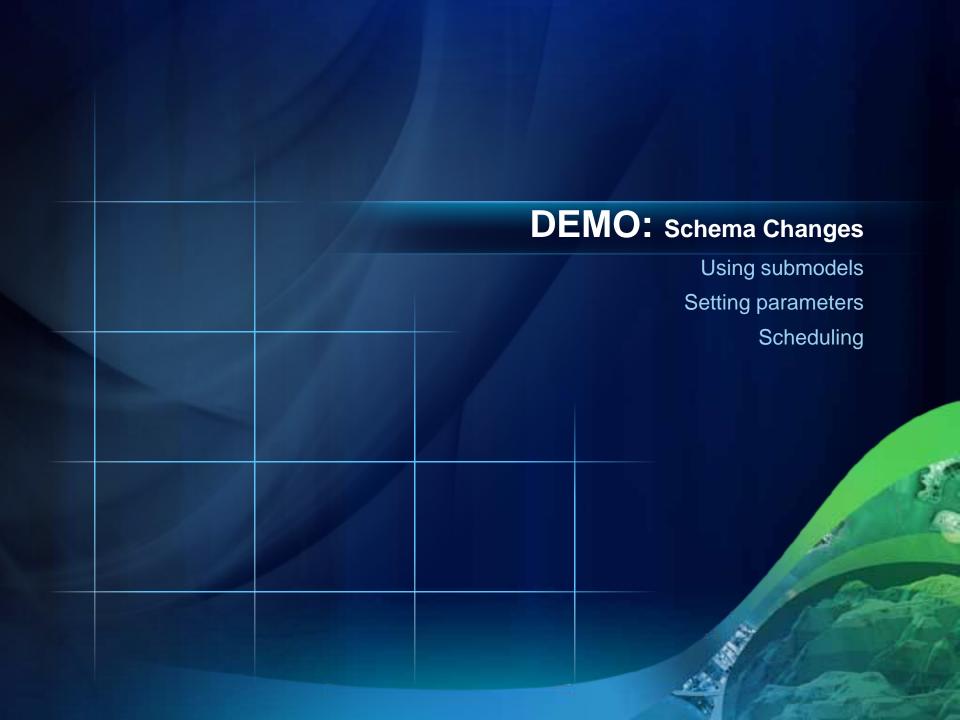
Script Tools

- Python is accessible in Model Builder.
- Identify tools which are being run multiple times.
- Identify tools being run with redundant information.



What about schema changes?

- Over time your data model may change.
- Use additional models or scripts to push out updates.
- Planned and scripted and deployed at an appropriate time.



Considerations for enterprise databases

- Who owns the data will affect...
 - who can make schema changes
 - who can grant privileges
- Need to assign privileges
 - Change privileges tool
- Creating versions and replicas
 - Create Version tool
 - Create Replica Tool
- Registering data as versioned
 - Register as Versioned tool



Limitations

- Create Network Datasets, Parcel Fabrics
- Create Annotation
- Create Schematic Dataset
- Geometric Network (available at 10.1)
- Enable Archiving

Road ahead... ArcGIS 10.1

- Improved sharing capabilities
- Create Enterprise Geodatabase
- Create Geometric Network (among other GN tools)
- Sort Coded Value Domain
- Enable Attachments
- Enable Enterprise Geodatabase
- Add topology rules to versioned data.
- Create Database View
- Create Versioned View

Road ahead... (post 10.1)

- We will be looking at providing more options for batch processing.
- Create a model from an existing geodatabase.
- Options for creating geodatabase schema diagram from your model.

Final Thoughts

- Fully featured geodatabases
- Schema changes are easy
- Python



Related Sessions

- Road Ahead GDB Admin
 - Thursday 3:40 Room 27B
- Getting Started With Model Builder
 - Wednesday 1:30-2:45 Room 6 A/B
- Building tools with Model Builder
 - Wednesday 10:15-11:30 Room 14B
 - Thursday 3:15-4:30 Room 4

Related Sessions

- Python Automating Geodatabase Administration
 - Thursday 11:05am Room 24A
- Getting Started with Python
 - Thursday 8:30-9:45 Room 2
- Building Tools with Python
 - Thursday 10:15-11:30 Room

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Feedback

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