Introduction to Data Interoperability (FME)

Forward-Thinking Professionals
Helping Clients and Colleagues **ACHIEVE** Their **Goals.**

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Introduction

Forward-Thinking SOLUTIONS

Serving utilities, private industry, government entities, and associations across North America

- Established in 1974
- Employee-Owned
- Independent

Service Areas Include:

- **Communications Infrastructure**
- **Energy Resources**
- **Industrial Facilities**
- **Utility and Data Analytics**
- **Transmission and Distribution**
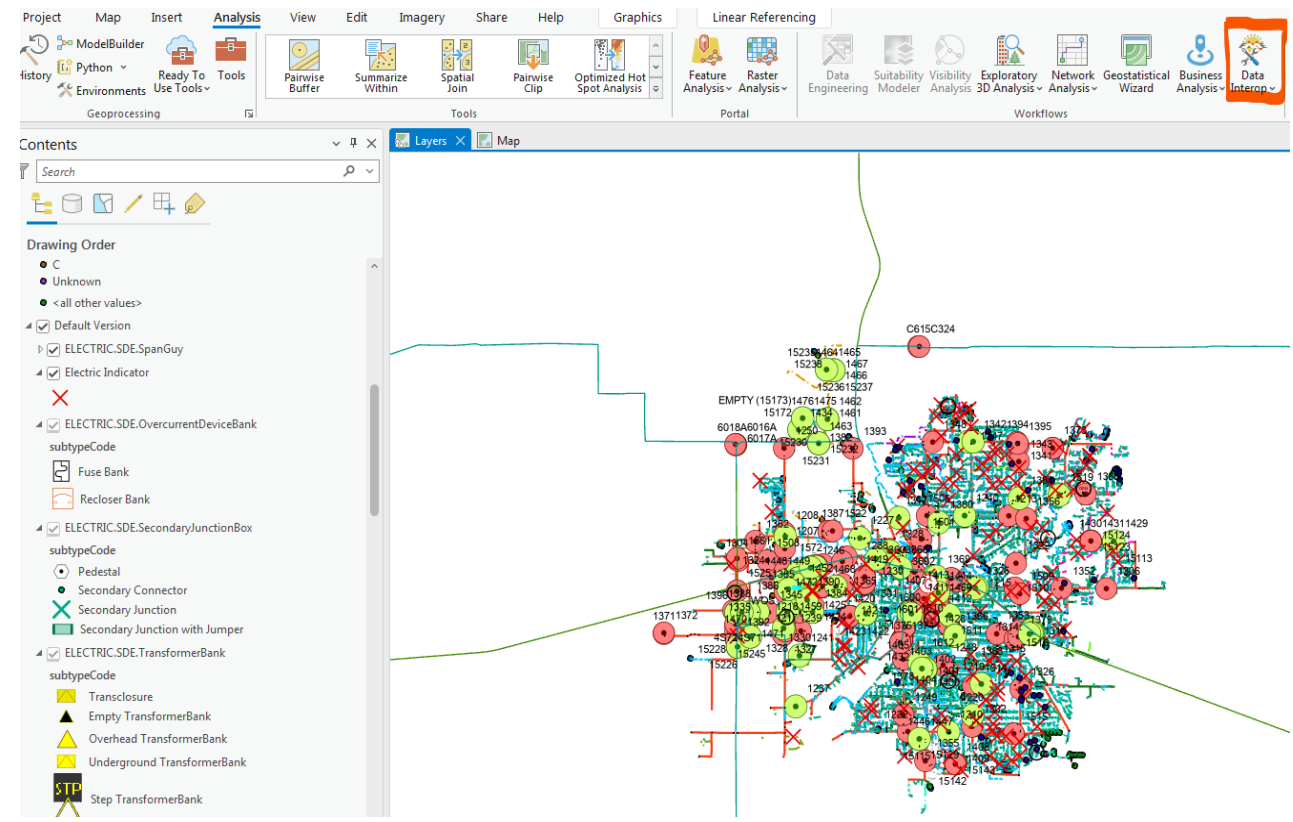- **Wedding DJ (just me, not PSE)**

Agenda

- Introduction

- What is Data Interop/FME?

- Differences between Data Interop and Model Builder

- Useful tools in Data Interop

- Utility Network conversion

- Time/cost investment

- Live demo

- Summary and questions

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What is Data Interop/FME?

- Feature Manipulation Engine (FME), created by Safe Software in 1996

- Data Interop is the third-party extension for ESRI Arc products

- Integrate non-native data into GIS

- Use geoprocessing tools or native FME tools

- Spatial ETL tools allow sharing inside a toolbox

- "Friendly" user interface

Model Builder vs FME

Model Builder

- ESRI created and owned

- ESRI supported data formats (.shape, .dbf, etc)

- Access to analysts and other ESRI based geospatial tools

- Easy export as a python script

FME

- Third party to ESRI

- Supports hundreds of different data formats

- Uses caching to create user friendly building process
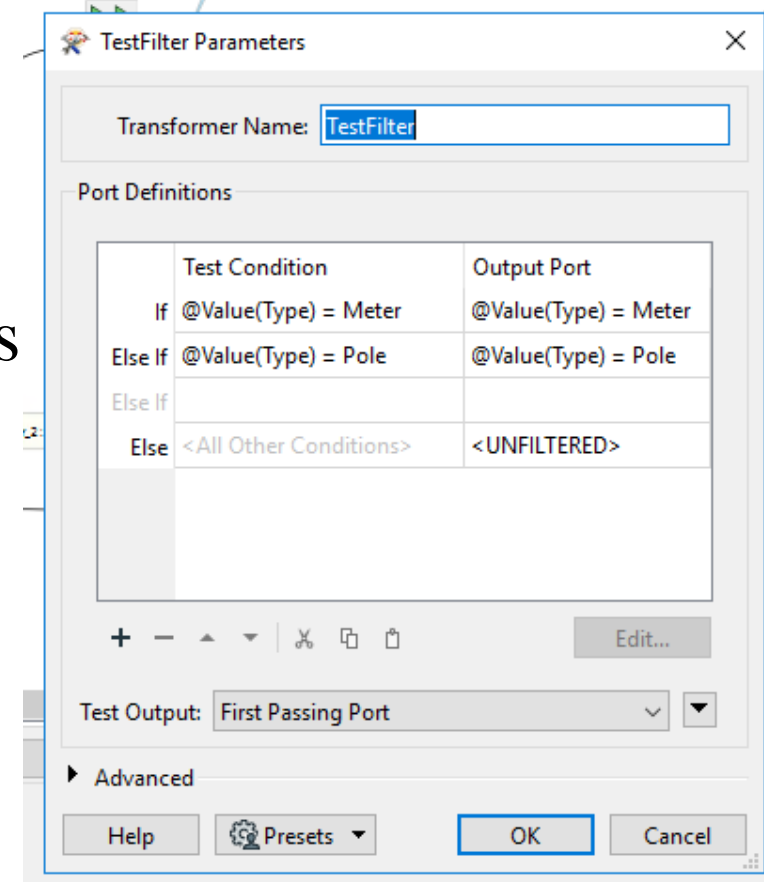
- Easily view and track progress

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Useful Tools in FME

Tools in FME are called transformers. There are hundreds of transformers to help accomplish a task. Users can also create custom transformers if they cannot find what they're looking for.

Transformers take out the syntax of coding!

- Filters

- Reprojectors

- Attribute managers

- Null attribute managers

- Snapping tools

- NeighborFinders

- Statistics Calculator

- Many many more!

Utility Network (UN) and FME

- ESRI recommends turning to FME to convert your existing data to a UN

- SafeSoftware provides templates for this conversion as well as a forum of other users just like us!

- UN uses associations to connect data, creating these associations manually is unfeasible for most utilities

- Geometric networks are not editable in ArcPro

- Time/dollar investment

Live Demo

Summary and Questions

Thank You

We look forward to helping you achieve your goals.

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