

# 3D Features and Sub-Surface Analysis

Jie Chang

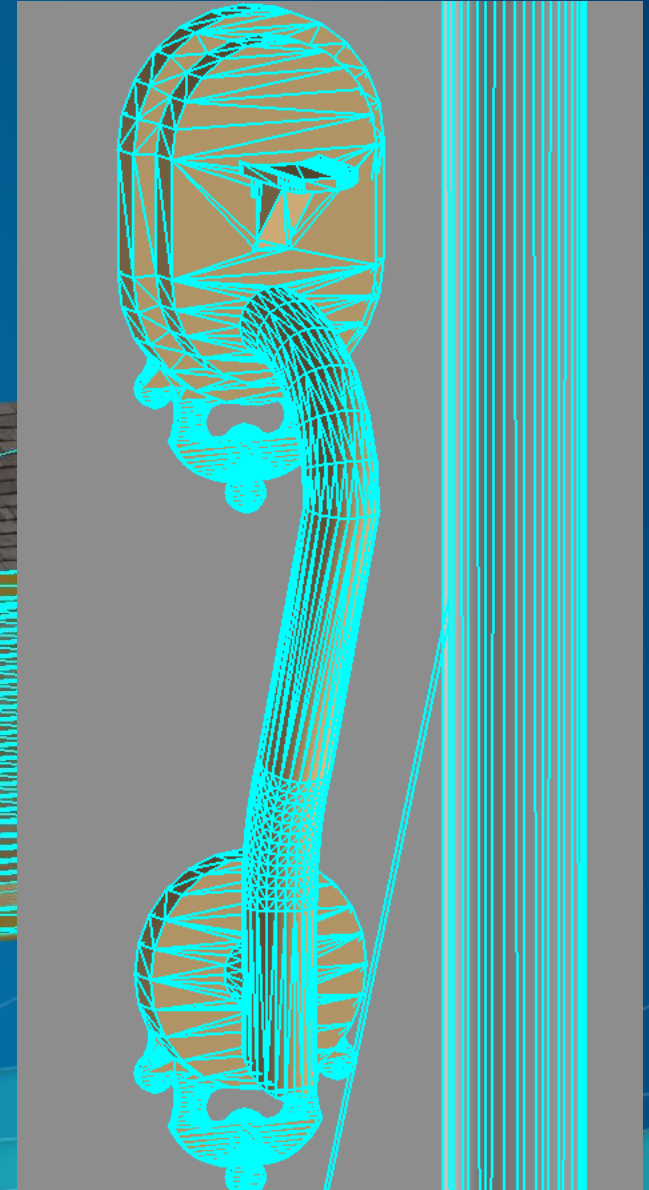
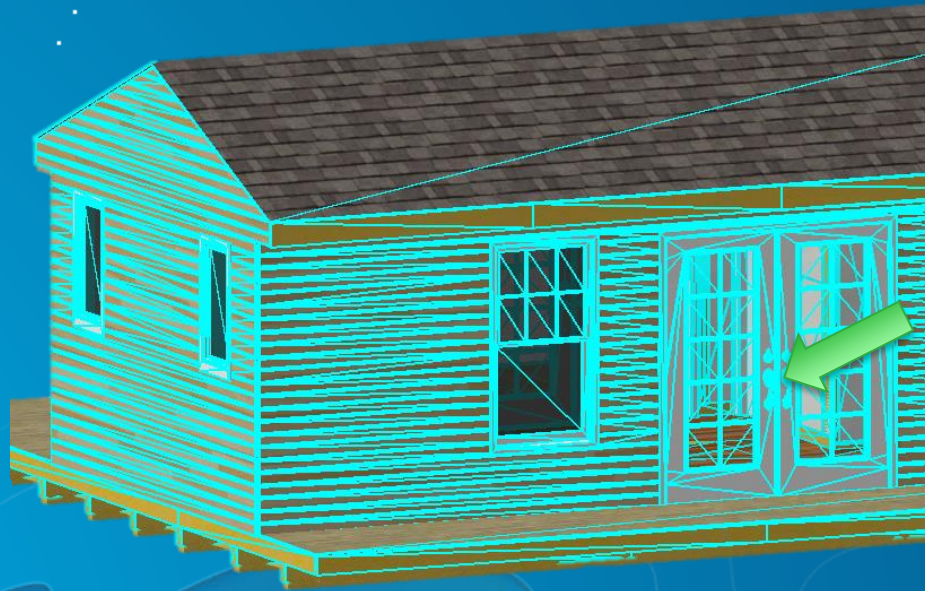
Product Engineer, 3D Analysis Team

# Outlines

- 3D concepts
- Sub-surface analysis workflow
- GP Tools
- Demo

# 3D Concepts

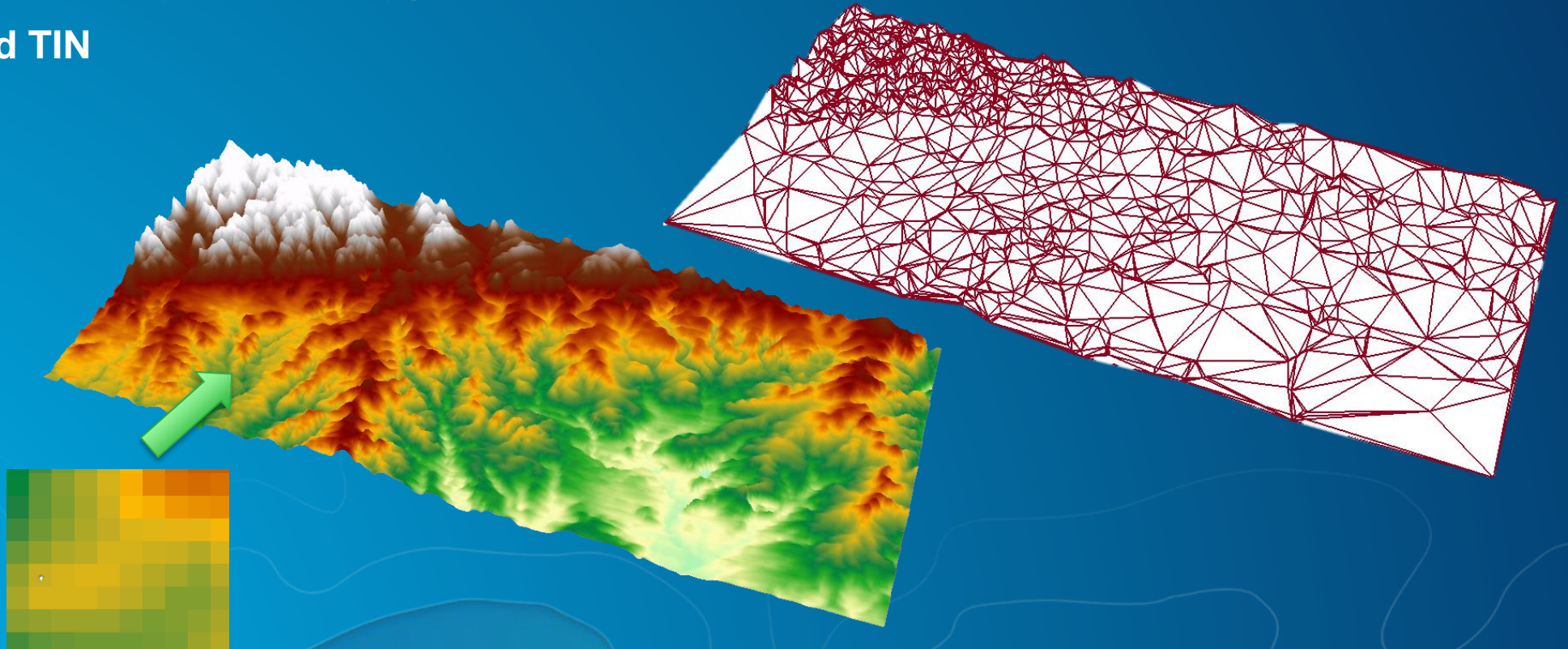
- 3D Features
  - 3D Points, 3D Polylines, 3D Polygons, and Multipatches
- Raster and TIN
  - 2.5D





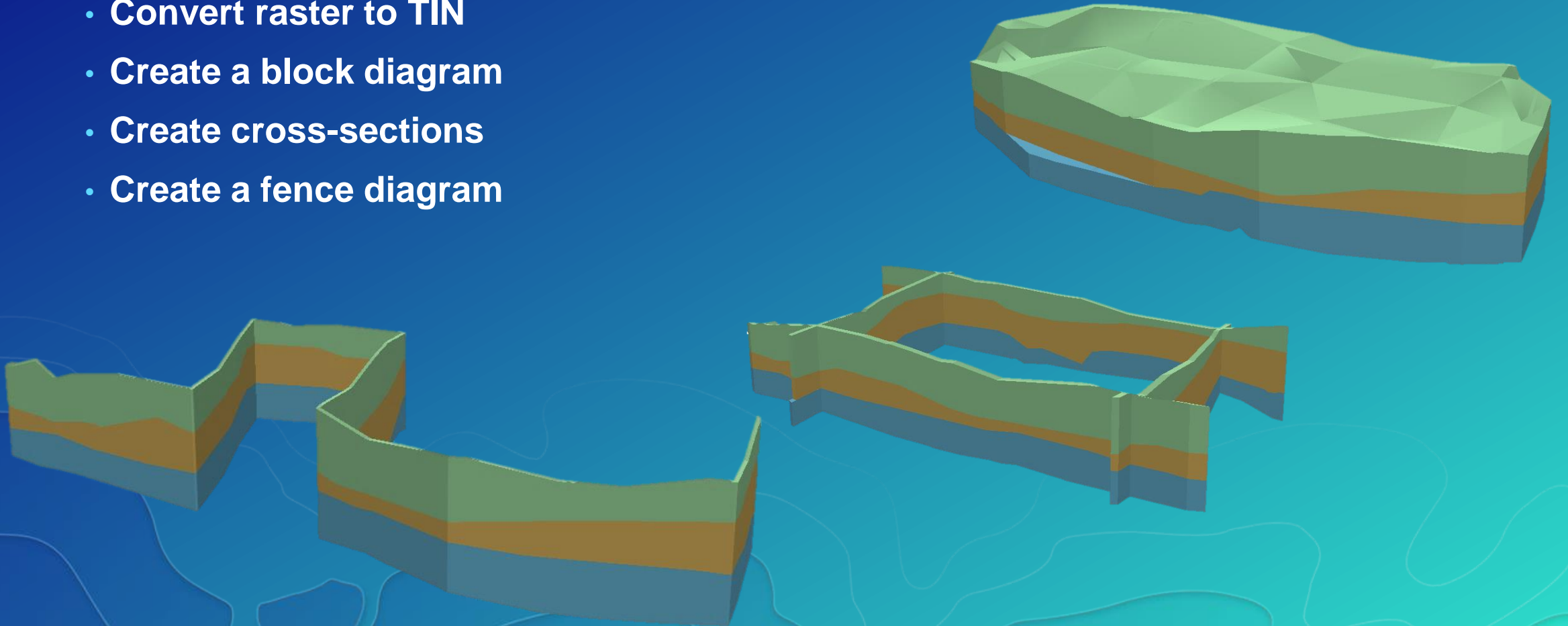
# 3D Concepts

- 3D Features
  - 3D Points, 3D Polylines, 3D Polygons, and Multipatches
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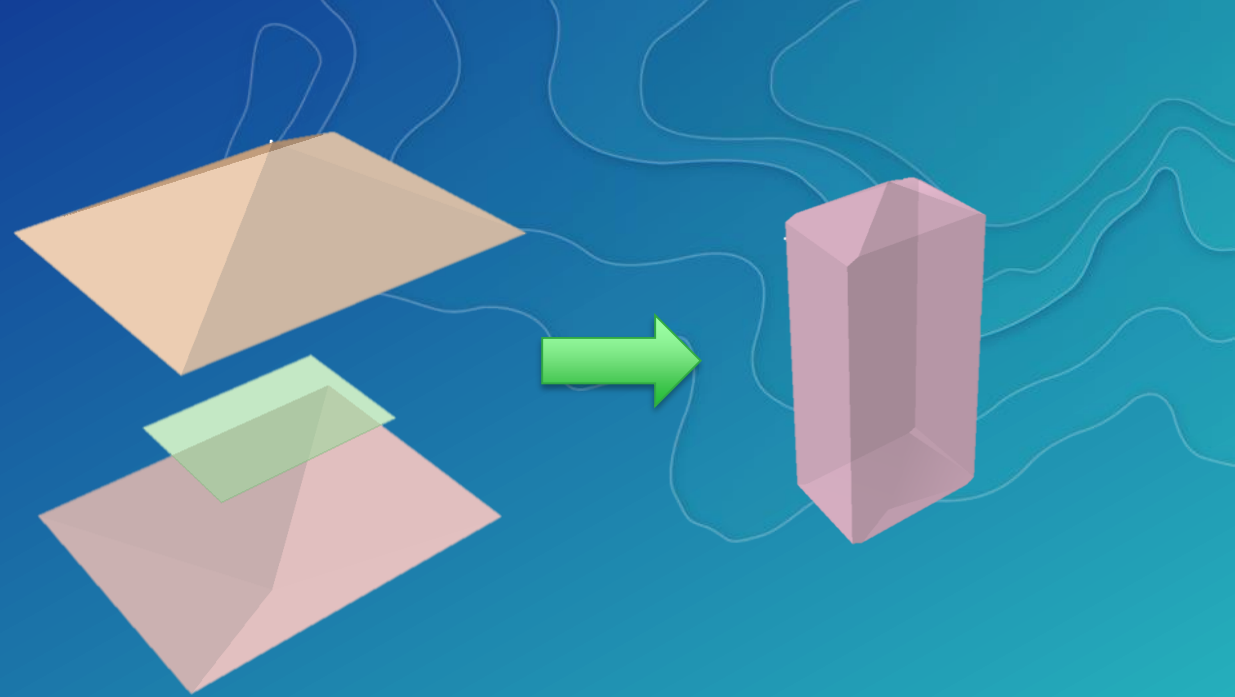
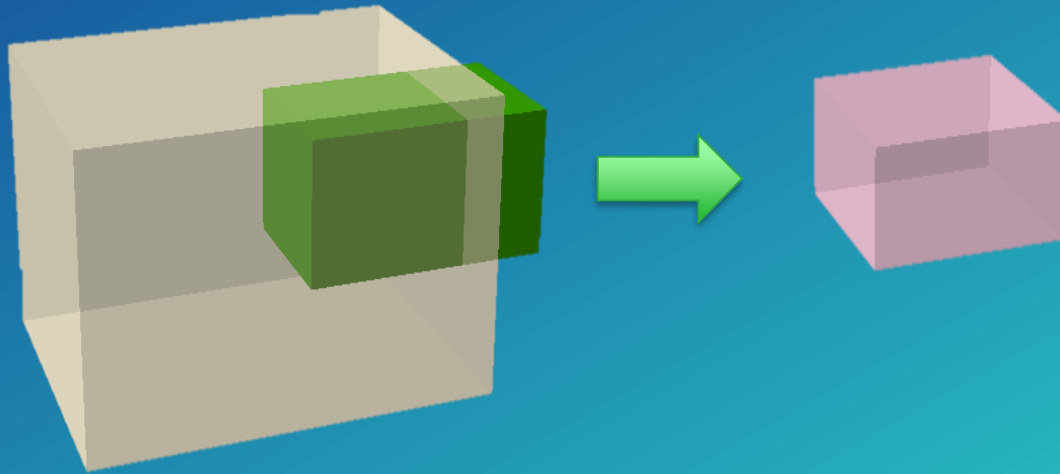
# Workflow

- Generate raster surface for each rock formation
- Convert raster to TIN
- Create a block diagram
- Create cross-sections
- Create a fence diagram

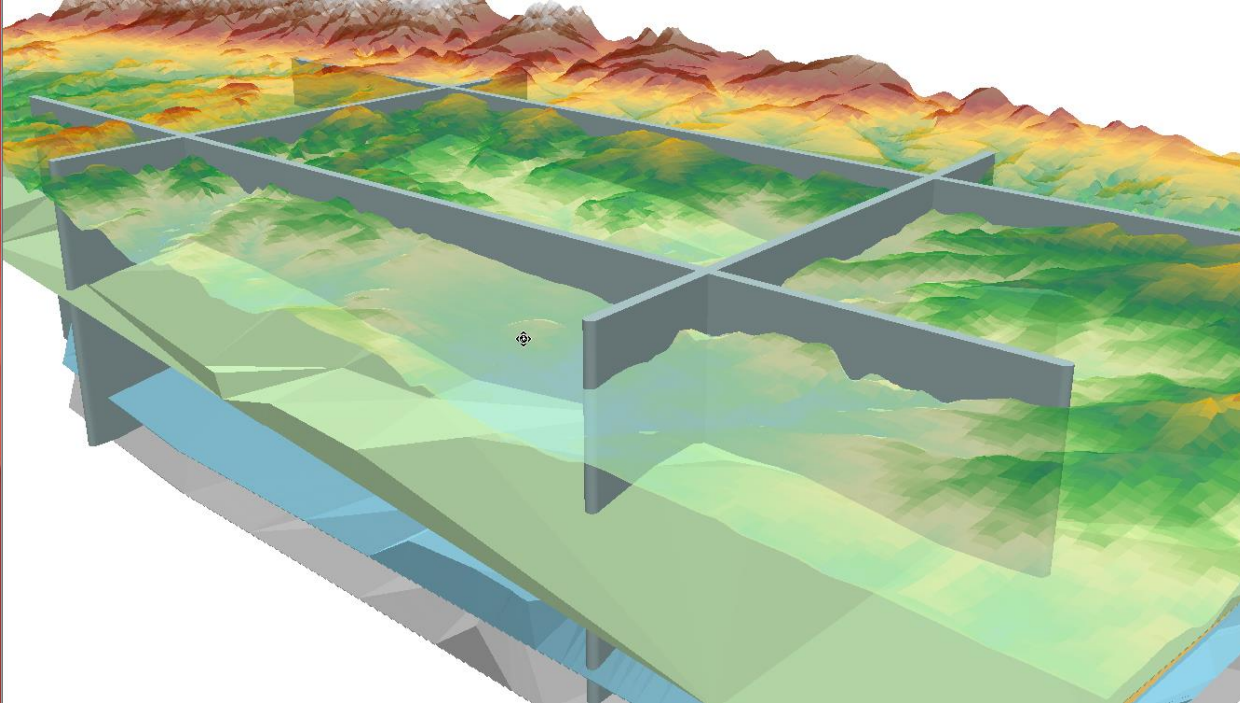


# GP Tools

- Natural Neighbor tool
- Raster to TIN tool
- Extrude Between tool
- Layer 3D to Feature Class tool
- Intersect 3D tool





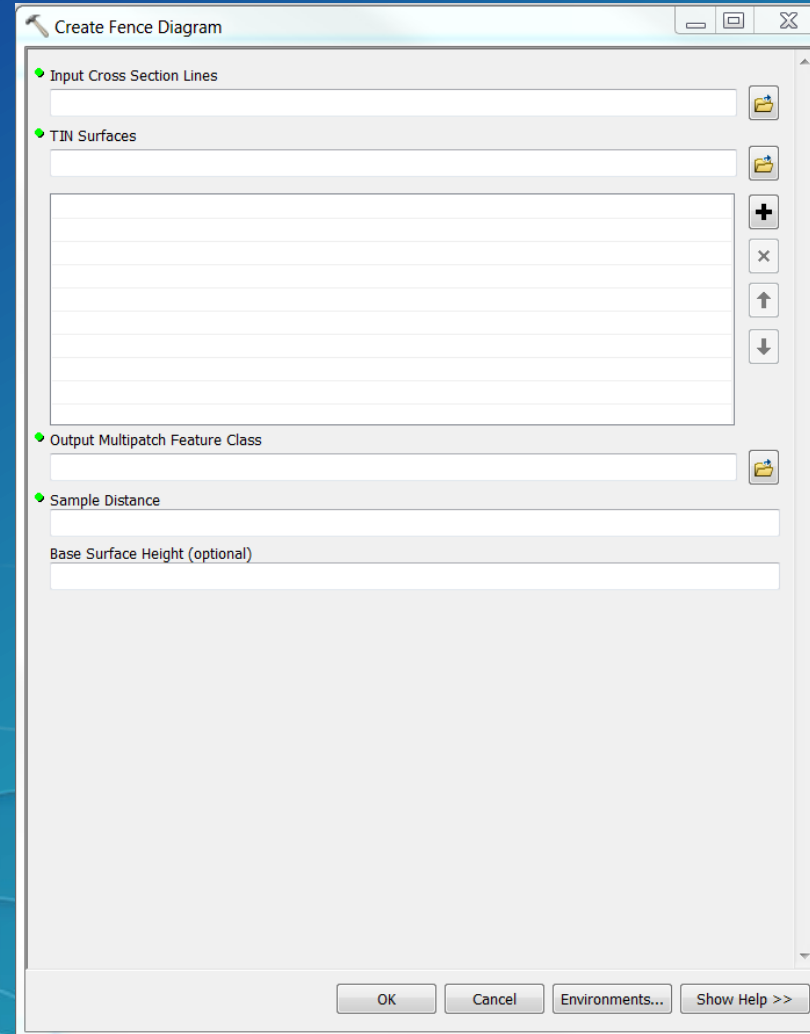
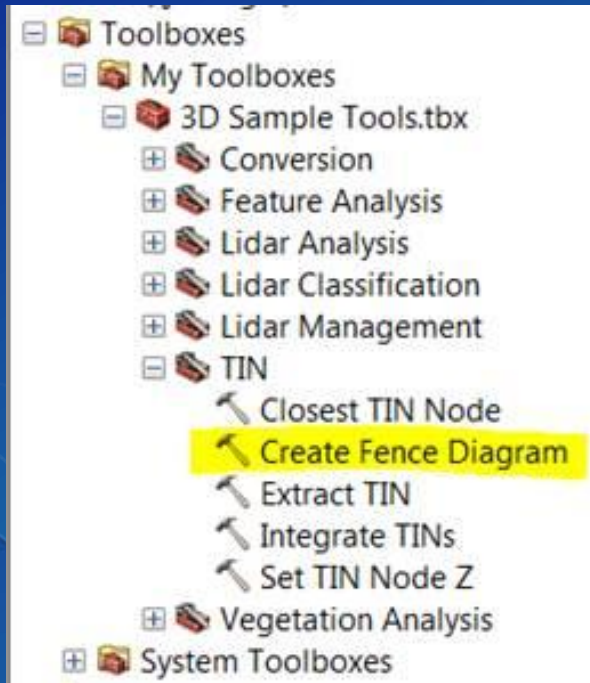
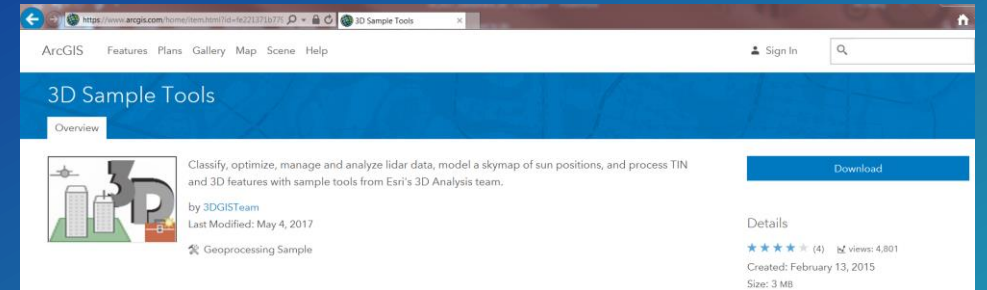


# Demo

- Create a block diagram, cross sections, and a fence diagram

# Create Fence Diagram Tool

- 3D Sample Tools





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