Using 3D GIS to Assist Executive Decision Making

Derek Hunt, SD1
Sanitation District of Northern Kentucky (SD1)
- Has a service area that spans three counties.
  - Boone, Campbell, and Kenton Counties
-Maintains approximately 1,600 miles of sanitary sewer pipe.
  - 142 pump stations
  - 15 flood control stations (Ohio and Licking Rivers)
Boone County Development

• Large undeveloped tracts of land.
  - Real estate development
  - Economic opportunity

• Geographic, Financial, and other constraints
  - Construction difficulties
  - SD1 budget
  - Geopolitical differences
Terrain
Creating a Terrain

✓ ESRI’s Terrain wizard makes creation simple.*
  ✓ *Once all of your data is organized correctly.

✓ The Terrain file sits in a feature dataset in a geodatabase.
  ✓ Contributing Layers also reside here.

✓ Point File Information
  ✓ Average point spacing must be known.
Creating a Terrain

- **Data Sources**
  - Determine the roles for each feature class.

- **Pyramid Levels**
  - Calculate Properties for default.

- **Review and Build.**
  - Terrain completion.
Flyover Videos
Questions?