



# ArcGIS for Aviation: Airports and GIS

Shane Barrett

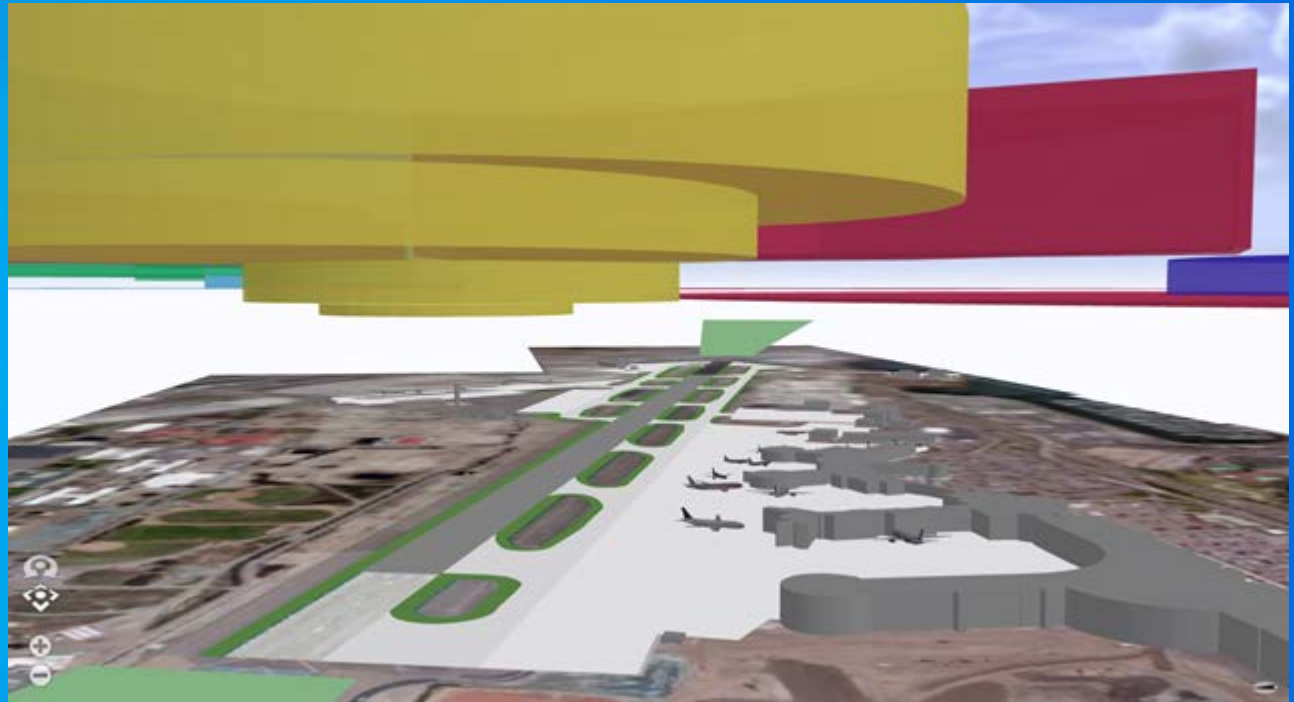
# Challenges Facing Airports

- **New & Evolving Airport Regulations**
  - Compliance Management
- **New Generation of Digital Information**
  - Analog to Digital Data Transition
  - Data Management is critical
  - Data Consistency/Integrity is paramount
- **Staff & Budget Resources are under pressure**
  - Improved business efficiencies required



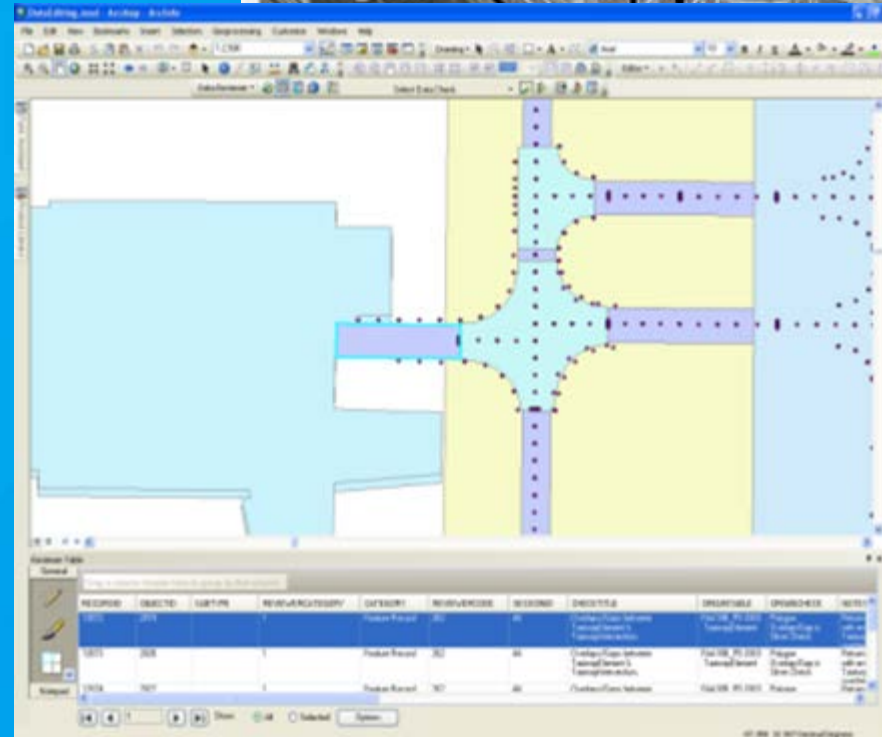
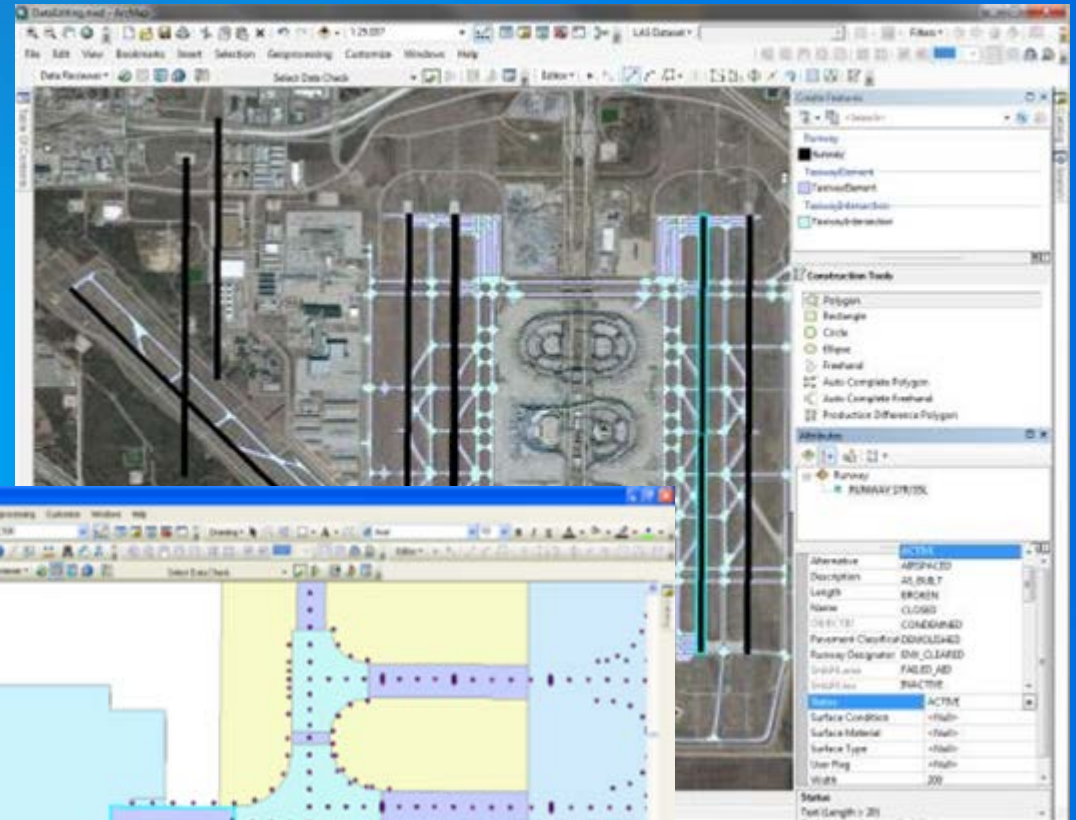
# ArcGIS for Aviation: Airports

- **Data Management**
  - Standardized/Extensible Data Model
  - Data Exchange
  - Data Validation
- **Obstruction Management**
  - Surface Creation/Modification
  - Obstruction Analysis/Evaluation
  - Visualization
- **Complements and Extends the ArcGIS Platform**
  - ArcGIS for Desktop Extension
  - Web Application



# Data Management

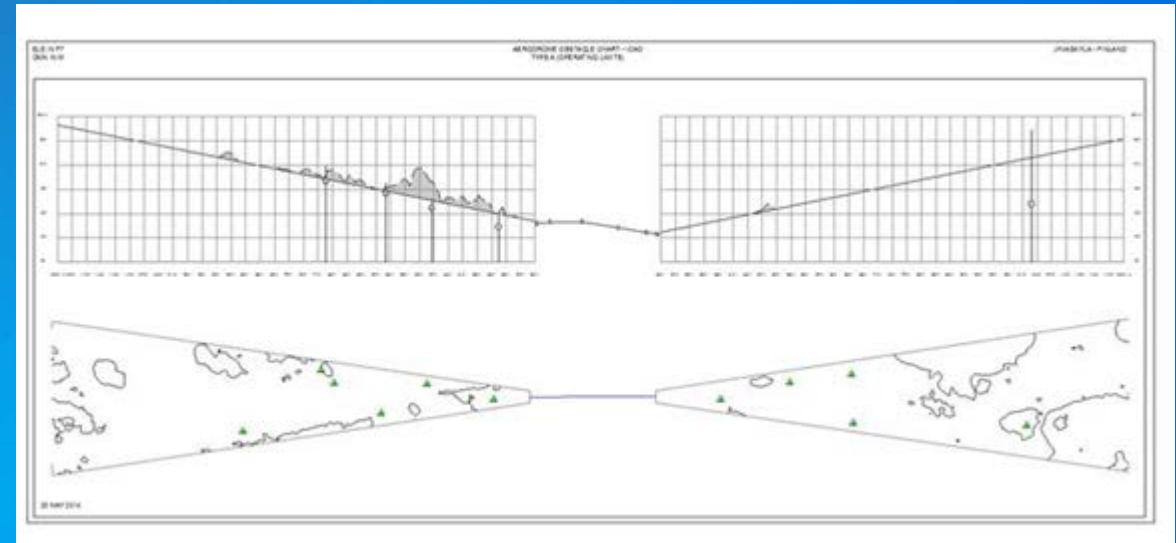
- **Standardized/Extensible Data Model**
  - FAA 18B
  - AMDB
  - eTOD
- **Data Exchange**
  - Import/Export FAA 18B Shapefiles
  - Import AMDB
- **Data Validation**
  - Leverages ArcGIS Data Reviewer
  - FAA 18B
  - AMDB
  - eTOD





# Obstruction Management

- **Surface Creation/Modification**
  - FAA 18B, 13A, Part 77
  - ICAO Annex 14 & 15
- **Obstruction Analysis/Evaluation**
  - Obstructions
  - Terrain
- **Visualization**
  - Esri 2D & 3D
  - Terrain and Obstacle Profile
  - Web View – Approach Profiler



# Demonstration

# Questions?



Understanding our world.

**aero@esri.com**