

Geospatial Platform for Aeronautical Data Management

Esri has released ArcGIS for Aviation, a new solution to support users in aeronautical information management, air navigation service providers, and airport markets. This solution enables users to create, manage, review and share aviation data. ArcGIS for Aviation includes ArcGIS for Aviation: Charting, and ArcGIS for Aviation: Airports. Together, these products provide a comprehensive geospatial platform for aeronautical chart production and airport operations data management

ArcGIS for Aviation: Charting (previously Esri Aeronautical Solution) improves, standardises, and increases data and workflow management by allowing standards-based aeronautical data to be captured, maintained, and managed in a centralised database. With it, users can produce standardised and customised electronic and paper aeronautical charts.

ArcGIS for Aviation: Charting provides the ability to do the following:

- Significantly reduce chart production times via automated batch cartographic processing
- Share data within the aeronautical community using the Aeronautical Information Exchange Model (AIXM) standard
- Enhance data quality through direct loading of digital changes and automating change verification

ArcGIS for Aviation: Airports assists airports and their consultants in complying with data management and quality standards such as the Federal Aviation Administration's (FAA) Airport Surveying - GIS program. It provides tools, templates, and analysis functionality that introduce efficiencies and new capabilities into the planning, maintenance, and day-to-day operations of airports.

ArcGIS for Aviation: Airports allows organisations to do the following:

- Efficiently collect and manage airport data using a fully implemented airport data model based on the Advisory Circular 150/5300-18 standard
- Improve airport data quality and compliance via automated validation against a preconfigured rule base of more than 450 data checks
- Automatically generate 3D Obstacle Identification Surfaces for planning and analysis against obstacle datasets

GIS is used across all sectors of aviation, but each sector has unique requirements, said Bruce Frank, Esri's ArcGIS for Aviation programme manager. ArcGIS for Aviation provides aeronautical information management and airport customers with an optimised solution for their unique business needs.