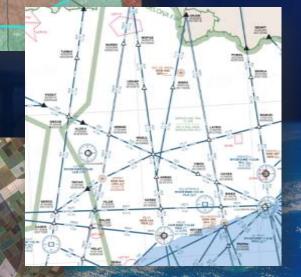
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Esri Aeronautical Solution



Esri Airports GIS Overview Terri Morganson

May 10, 2012



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Overview Agenda

- General GIS Overview
- Esri Resources
 - Esri Website
 - Aeronautical Solution Resource Center
 - ArcGIS Online
 - Airports GIS Package
 - Description
 - Demo video

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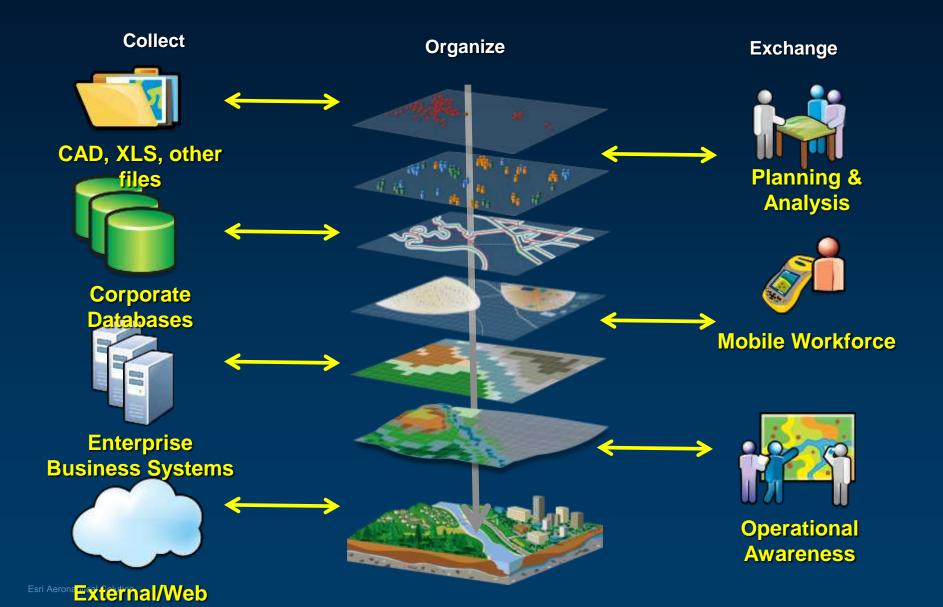
GIS Overview

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A Complete Definition of GIS



Data Management

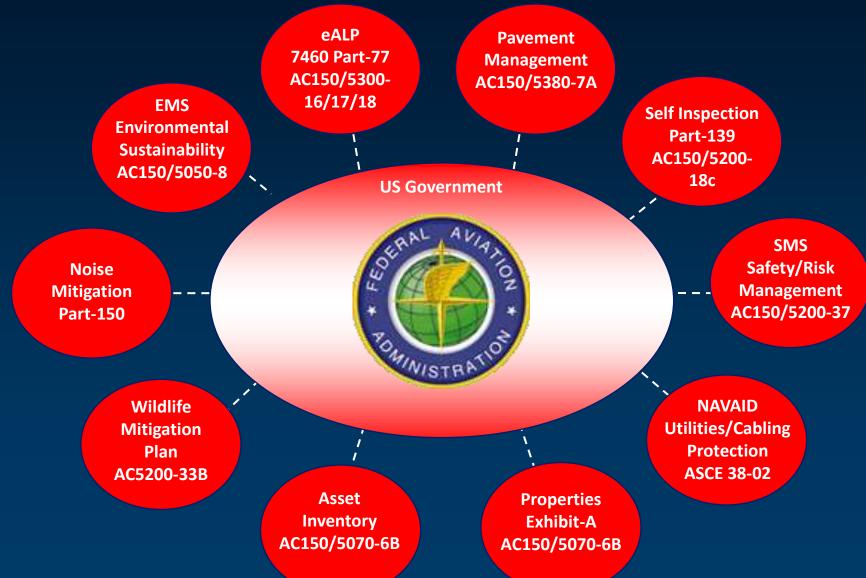


Information for Effective Decision Making

- Need Access to Information From Different Management Systems
- Inability to Share Information from Legacy Systems
- Need for Current and Accurate Information



Compliance



Esri Aeronautical Solutior

Better, Faster, Cheaper

- Maximize Billing Opportunities
- Improve Security and Emergency Response
- Improve My Operational Performance
- Reduce Information Collection Costs
- Enhanced Competitive Advantage

How are airports using GIS ?

- Terminal management
- Property management & Land acquisition
- Airspace management
- Flight tracks and Noise complaints
- Airport layout
- Snow removal
- Planning
- Pavement management

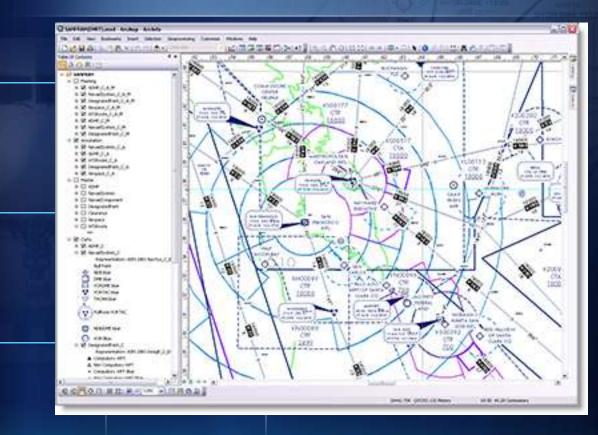
- Traffic Modeling
- Facilities & Utility management
- Construction Management
- Security
- Environmental Compliance
- Maintenance
- Approach & Transition zones
- Public information
- Lease tracking
- Emergency response

Application Areas



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Esri Resources





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Search



Civil and military organizations must quickly produce aeronautical information for safer navigation. Esri technology can help these agencies maintain, control, and disseminate data that meets their rigorous requirements.

Solutions for Aeronautical Organizations

With Esri technology, you can

- Create, visualize, analyze, and share information with others who depend on highly accurate, authoritative data Automatically update charts through your organization's AIS to reduce data latency, redundancy, and errors.
- Produce a wide range of charting products, including International Civil Aviation Organization (ICAO) compliant charts, from a central database.
- Spanish airports and air navigation streamline aeronautical charting with ArcGIS.
- Share data using the Aeronautical Information Exchange Model (AIXM).
- Readily share your information through mobile and web applications

Improve Your Workflow



Esri technology allows you to implement an effective workflow for data collection, management, production, and delivery.

Brochures/White Papers

Events

Demos

Partner Solutions

Related Resources

Newsletter Connect with Others Community Maps Program Ask Our Experts



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Home Industries Products **Events** About Training Support Services News Mapping and Charting Esri Aeronautical Solution Overview Airports GIS Now Available Airports GIS 12 Esri Aeronautical Solution provides a true GIS-based platform to manage aeronautical data and rapidly produce high-quality charts / Features that adhere to industry- and organization-specific requirements. With Demos Esri Aeronautical Solution, civil and military agencies, commercial 116.3 121.123 101.7 131.634 111.60 airlines, and chart producers can create, maintain, and use standard Chart Gallery aeronautical products based on the latest digital data. What You Get With Esri Aeronautical Solution, you can Brochures/White Papers Significantly reduce chart production time by managing and Common Questions generating aeronautical charts from a central database-driven system. System Requirements Produce charts to your cartographic specifications from the Success Stories database, including International Civil Aviation Organization (ICAO)-compliant charts. Pricing Add value for customers by supporting custom requests. Å Free 60-Day Trial Share data within the aeronautical community using the Aeronautical Information Exchange Model (AIXM). Aeronautical Solution supports the Enhance data quality through the direct loading of digital changes н. Instrument Approach Procedure What's New at 10 and automated change-verification workflow management. (IAP). Training Available for ArcGIS for Desktop 10 Get up to speed on ArcGIS 10 with instructor-led training. Watch free live training seminars and recorded seminars online. Latest Release See what's new in Aeronautical

Solution.



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Esri Aeronautical Solution

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How Do You Get It

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Success Stories

Pricing

Free 60-Day Trial

What's New at 10

Training Available for ArcGIS for Desktop 10 Get up to speed on ArcGIS 10 with instructor-led training. Watch free live training seminars and recorded seminars online.

Airports GIS

What You Get

The Esri Aeronautical Solution—Airports GIS tools and templates use a free and ready-to-use -18B geodatabase template provided by the FAA. This eliminates costly and time-consuming database design and helps to ensure consistency and compliance with -18B requirements. Also included is detailed, easy-to-use documentation outlining configuration and getting started with the solution information.

Key capabilities available with the Esri Aeronautical Solution—Airports GIS Package include:

E Show/Hide All Capabilities

- I Preconfigured map product templates
- E A single integrated workflow management application
- Automated data validation tools
- Preconfigured -18B data editing templates
- E Automated tools for creating and visualizing obstacle surfaces

As the Airports GIS program continues to evolve, Esri will continually expand and update its support for this mandate. New tools and templates will be offered via download from the Esri Resource Center.



Preconfigured map product templates.



Search

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nautical Solution or

have other questions regarding the Airports GIS package, please contact the Esri Aeronautical Team at aero@esri.com.

Now airports can easily generate obstacle surfaces in iterative "what if" planning scenarios.

Demos

Chart Gallery

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Get Support

The Esri Aeronautical Solution provides a true GIS-based platform to manage aeronautical data and rapidly produce high-quality charts that adhere to industry- and organization-specific requirements. Civil and military agencies, commercial airlines, and chart producers can create, maintain, and use standard aeronautical products based on the latest digital data.

ArcGIS.com

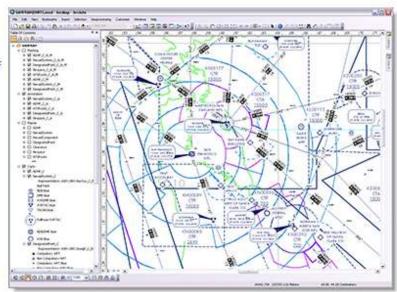
Airports GIS is a program mandated by the FAA that requires U.S. airports and their consultants to submit accurate and high quality GIS data that will be subjected to rigorous quality checks as part of the review process. Esri Aeronautical Solution - Airports GIS Package includes tools, templates and workflows specifically developed to assist airports and their consultants in meeting the data requirements set forth by this program.

To learn more about the Aeronautical Solution, see What is the Aeronautical Solution?

Click here, to request a fully functional 60 day trial of Esri Aeronautical Solution.

Helpful Resources:

- What's new in Aeronautical Solution 10?
- Take a quick tour of the Aeronautical Solution
- FAQ's





FAA's Airport GIS Program

1 - C - Iling faa.gov https://airports-gis.faa.gov/public/ Federal Aviation Administration Airports GIS FAA Airport Surveying - GIS Program Login Login to Airports GIS web application. Newsletters/Publications Airports GIS Online Help Airports GIS Airports Geographic Information System (AGIS) News & Highlights Issues/Questions FAQs Latest News Letter The Airports Surveying-GIS program helps the Federal Aviation Administration (FAA) Airports collect airport and aeronautical data to meet the demands of the Next Generation System Release Newsletter (3.0) o Steps to Follow National Airspace System. a Airport Regions Guided by Advisory Circulars, you, the airport sponsor or proponent, are a key link in Airport Improvement the information chain. A single web app lets you access airport data and submit Program (AIP) changes. The changes match defined business rules to ensure the proper FAA office AC 150/5300 is notified. contractor Security e Airport Sponsor We hope to reduce reporting and processing time for an airport change from "up to a Benefits year" to a publication cycle or two o Planning Considerations The FAA is streamlining the existing survey application and integrating other Surveyors aeronautical applications into a single Internet portal for submission and delivery of airport and aeronautical data. Airports GIS currently supports open data standards, Survey Intro enhanced worldlow and tracking capabilities, automatic validation of all submitted a Airport data and a GIS viewer. Familiarization o Aviation Glossary We are developing electronic Airport Obstruction Charts and electronic Airport Layout o Aeronautical Plans (for Phase 2). Our ultimate goal is to integrate multiple versions of the airport. Information Manual data: preliminary, current, planned, and temporary. And to share data with other FAA (AIM) systems such as iOEAAA and eNASR. Stay tuned for future implementations. e Airport Visual Aids e Airport There is a tremendous amount of work ahead, but it will be worth it. Please continue markings/Signs visiting to see our progress. **a** Phonetic Alphabet Airport Design Tools e Wind Analysis FAA.gov Home | Privacy Policy | Web Policies & Notices | Contact Us | Help Readers & Viewers: FDF Reader | MS Word Viewer | MS PowerFoint Viewer | MS Excel Viewer | WinZip-

A Good Impetus to Start Esri Airport GIS Program



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ArcGIS.com

Forums

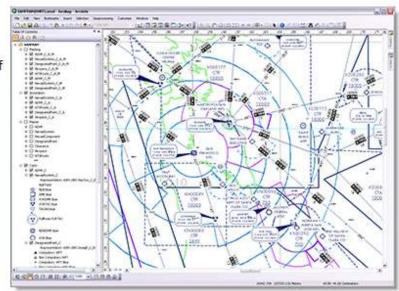
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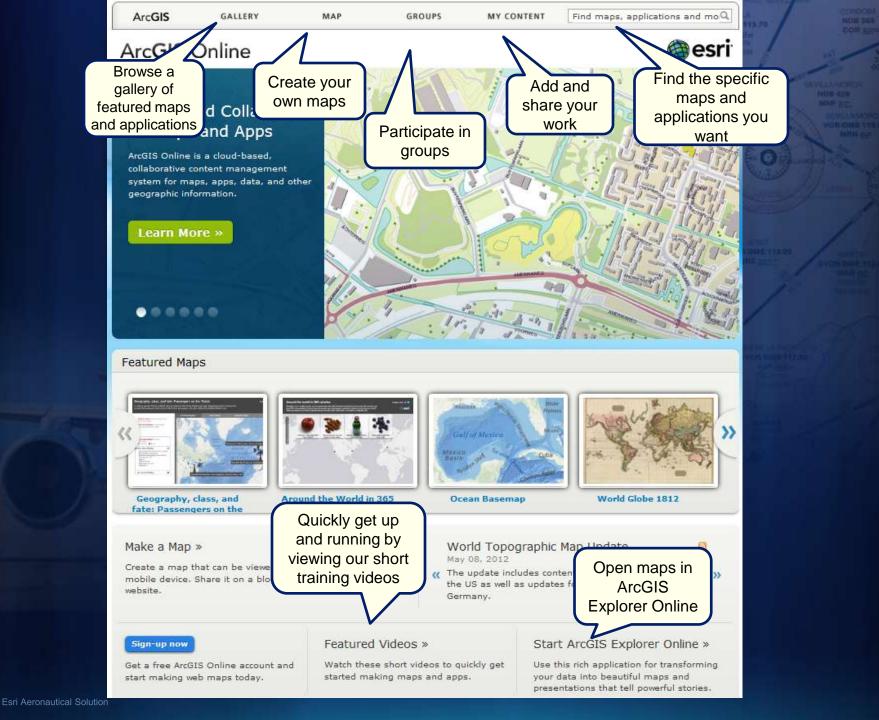
Helpful Resources:

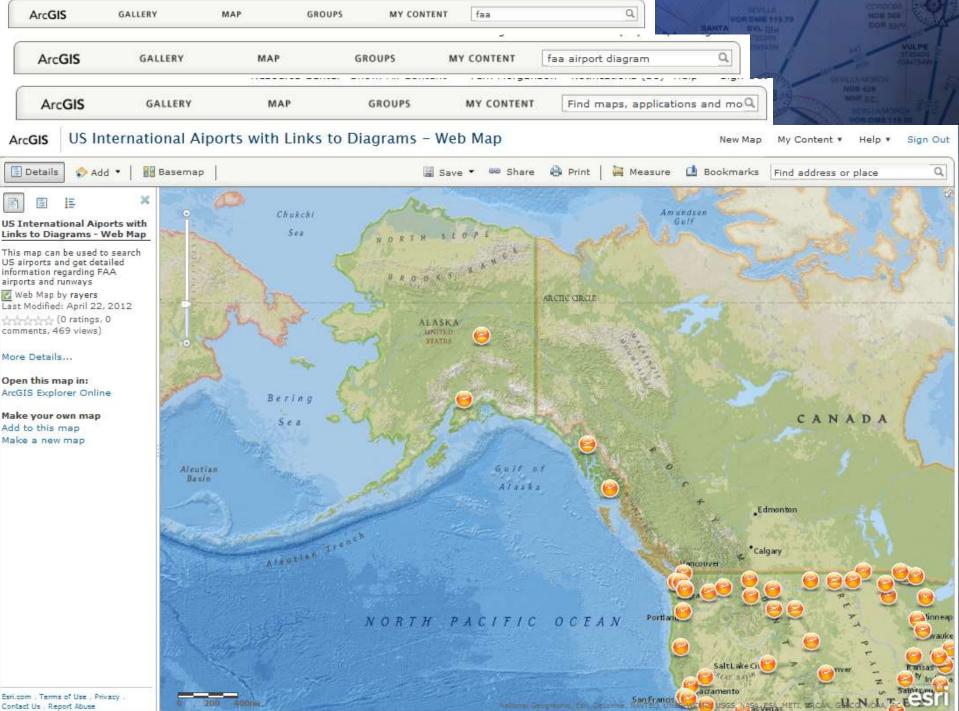
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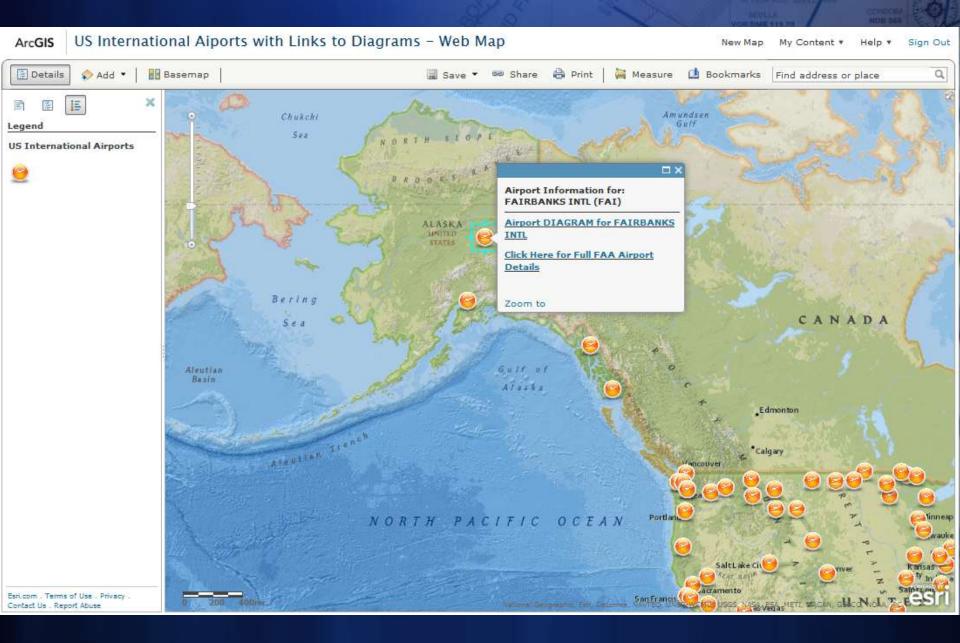
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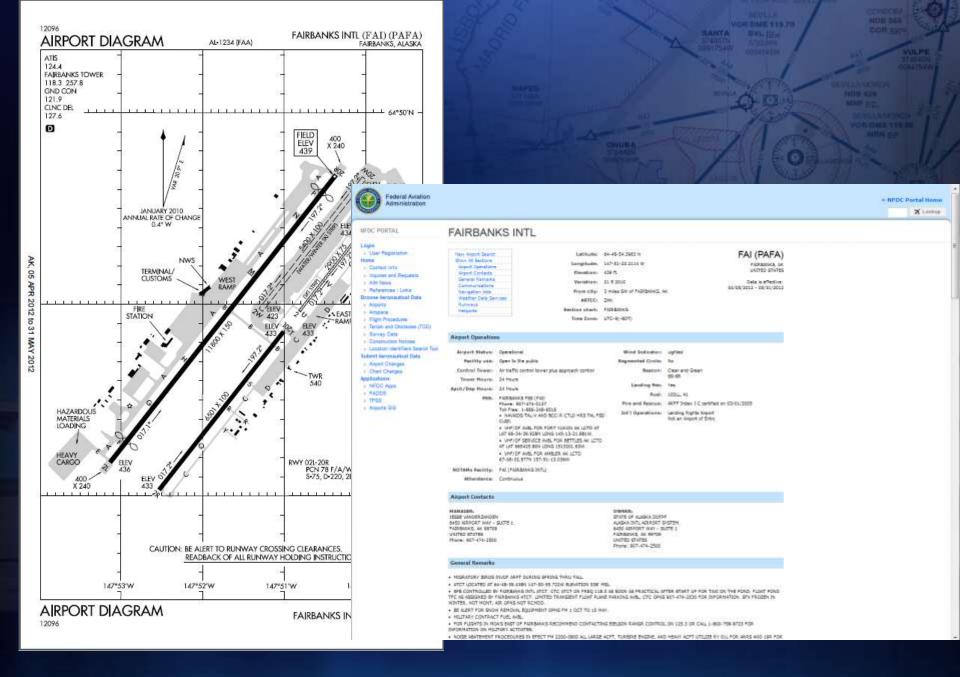




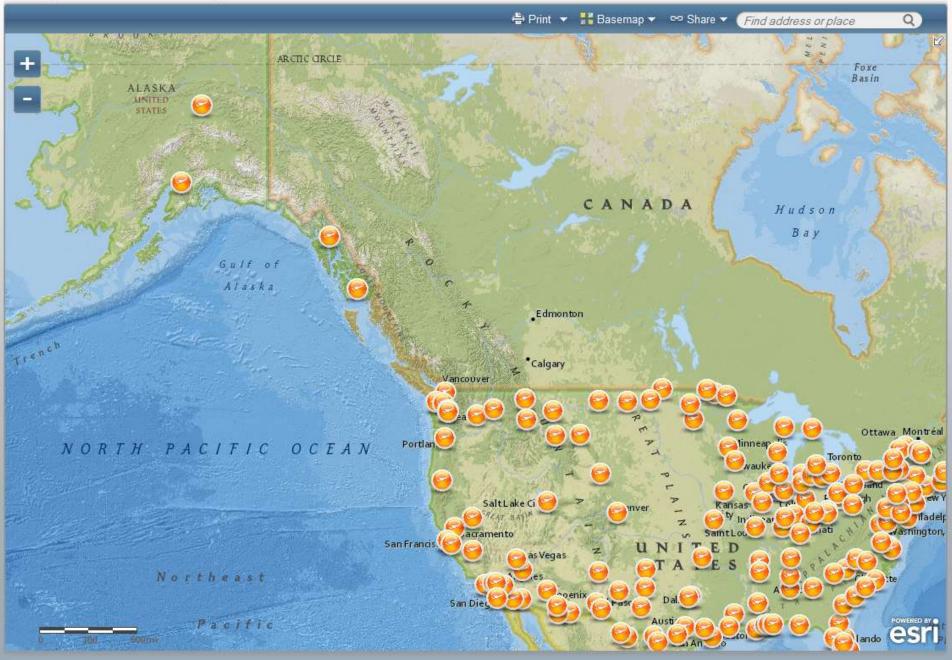
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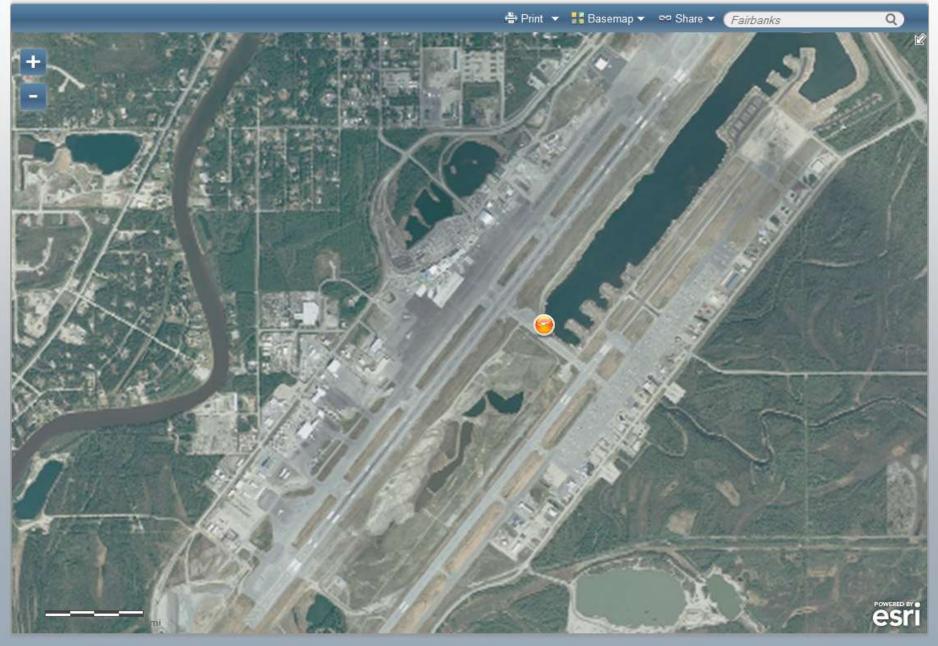


Airports w/ Diagrams



Esri Aeronautical Solution

Airports w/ Diagrams





Airports GIS Package Objectives

- Tailored GIS capabilities supporting FAA requirements
- Configurable and Extensible
- Agile Development and Deployment Pattern



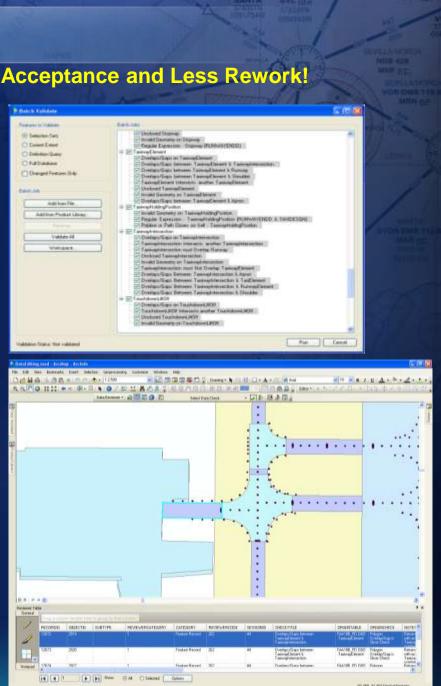
Airports GIS Package Highlights

- Improved Data Quality
- Workflow-based Operations
- Preconfigured Map Products
- 18B Template-based Editing Environment
- Automated Obstacle Identification Surface Tools
- Uses FAA Provided 18B Geodatabase Template

Improved Data Quality

Submit Quality Data to FAA – Faster Acceptance and Less Rework!

- Automated Tools for -18B Data QC Processes
- Preconfigured and Customizable
 -18B Rule Base Provided
- Document QC Review Processes
- Report Quality Information

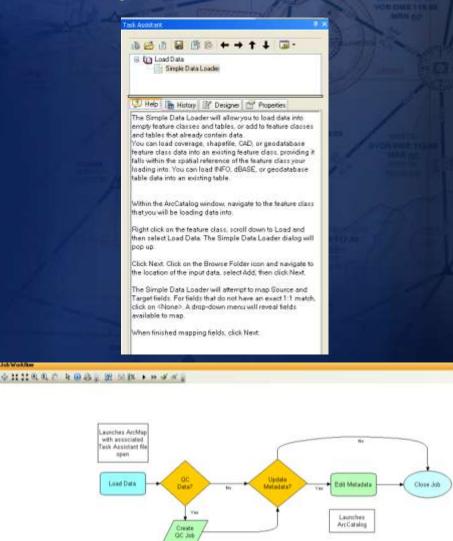


Workflow-based Operations

Standardize Your Best Practices – Structured, Repeatable and Efficient

- Manage GIS and Non-GIS Tasks
- Simplifies Software Tools with Automation
- Stores Transaction History of Data Maintenance

 Sample Airports GIS Workflows Provided





Preconfigured Map Products

Use Out-of-the-Box or Customize to Your Requirements

- Enhanced Cartography
- Supports Your Planning and Operations Activities

 Product Library
 ** ×

 Search for:

 Product Library
 Authority
 Authority
 Airport
 Airport GIS
 Airport Land
 Airport Overview
 Data Editing Example
 RWY Environment

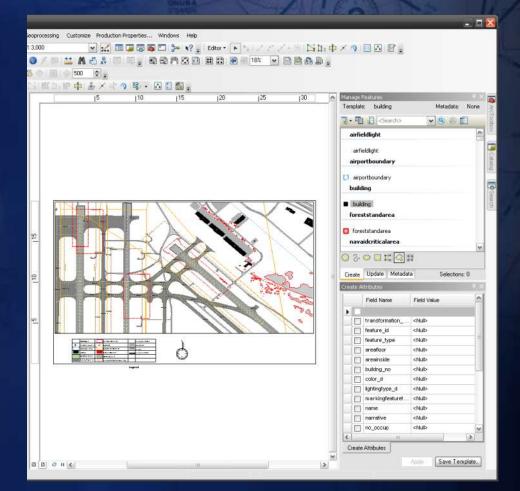
 Sample Product Library for Efficient Creation & Management



Template-based Editing Environment

Simplified Data Creation and Editing Experience

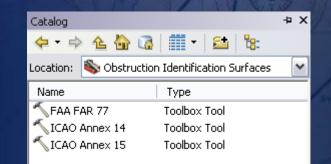
- Preconfigured -18B Editing Templates
- Integrated Spatial and Attribute Editing Interface
- Coded Value Domains
- On-the-Fly Business Rule Validation

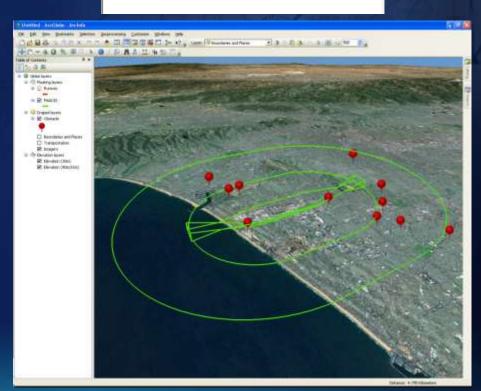


Obstacle Identification Surface Tools

Automated and Efficient

- Support Domestic and International Specifications
 - FAR Part 77
 - ICAO Annex 14 &15
- Parameter-based feature construction
- Use on the Desktop or Deploy as a GP Service





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Esri Aeronautical Solution – Airports GIS Package

Demo Video

