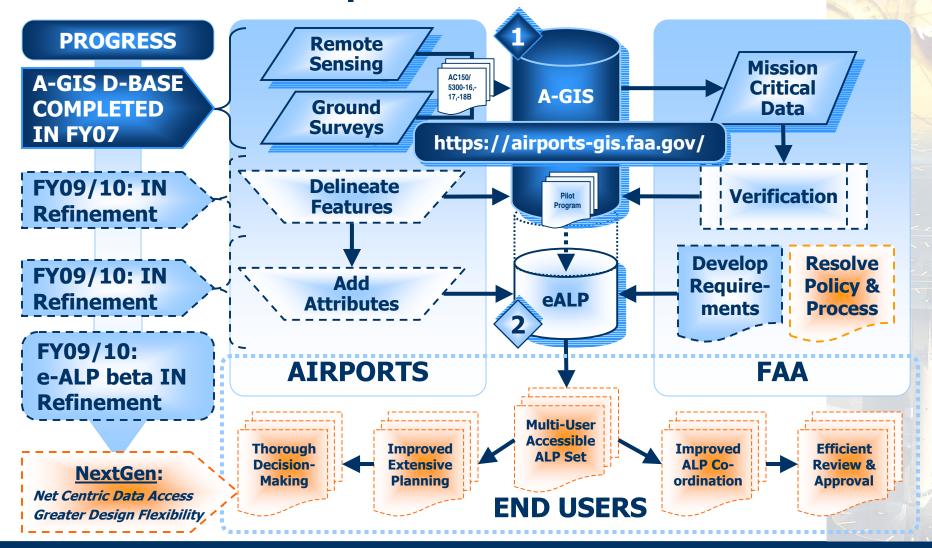




Vision | Airports GIS / electronic ALPs



A-GIS and e-ALP | PROCESS





Why is FAA developing eALP?

A-GIS

 Currency | all NPIAS airports required to keep their ALPs current (many are outdated)



 Versioning | paper copies of ALPs are typically housed in multiple locations and the "latest" version(s) often vary



- Accuracy | plotted ALPs frequently contain airport information that differs from airports data collected for use in other LOBs and/or other airport projects
- NextGen | needs real-time, web-based access of the same ("living" document) version by all stakeholders
- Diligence | efficient use of updated, precise data (input into A-GIS) for optimal NextGen airport planning, reporting, and decision making

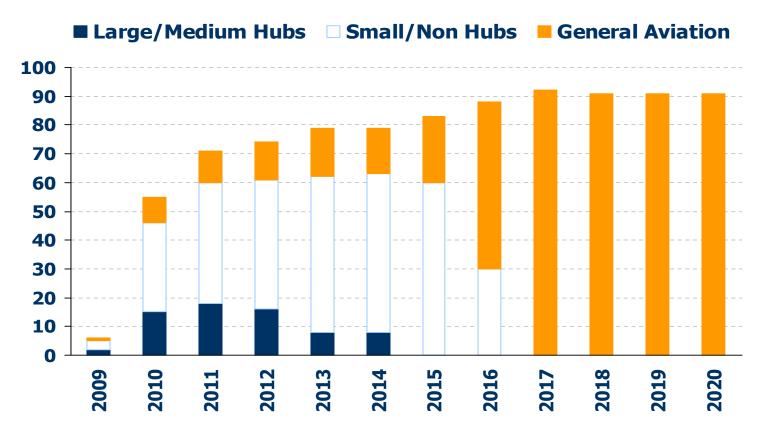


Benefits of the End-State A-GIS/eALP

	Federal Aviation Administration	Airport Sponsors	Air Carriers / Pilots
Green	>	>	+
Faster Actions with Reduced Costs	>	+	
Improved Airport Access		+	+
Improved Efficiencies through Envisioned Tools and Data	>	>	
Reduced Costs (additional)	+	+	
Provides Leverage for Local GIS System to Manage Non- FAA Related Items		›	
Think Internet, e-Mail, and Google Earth	>	+	+





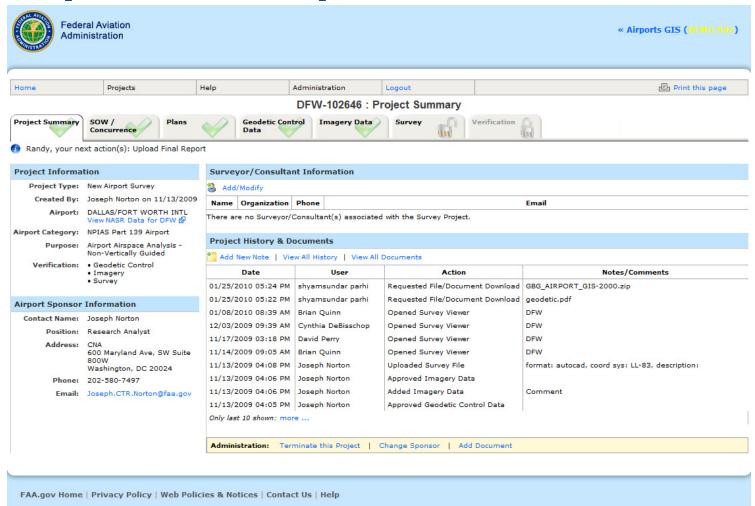


 Initial roll-out of A-GIS pilot program happening in the Southwest Region; other regions to follow



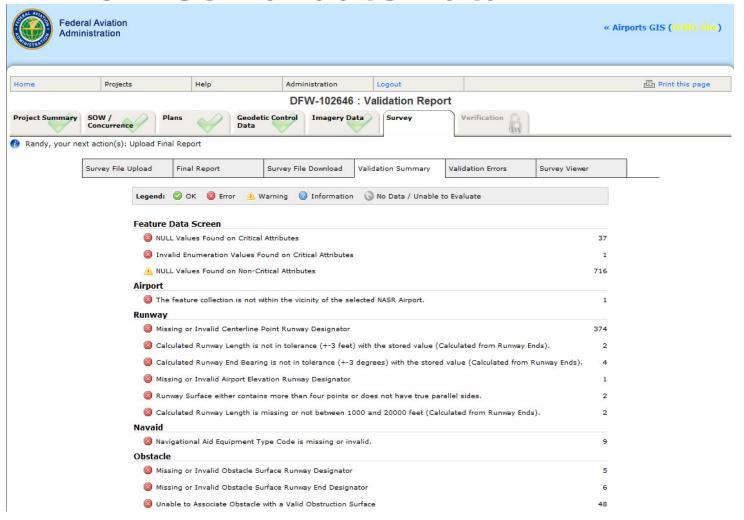
Airports Develop Data

Readers & Viewers: PDF Reader | MS Word Viewer | MS PowerPoint Viewer | MS Excel Viewer | WinZip



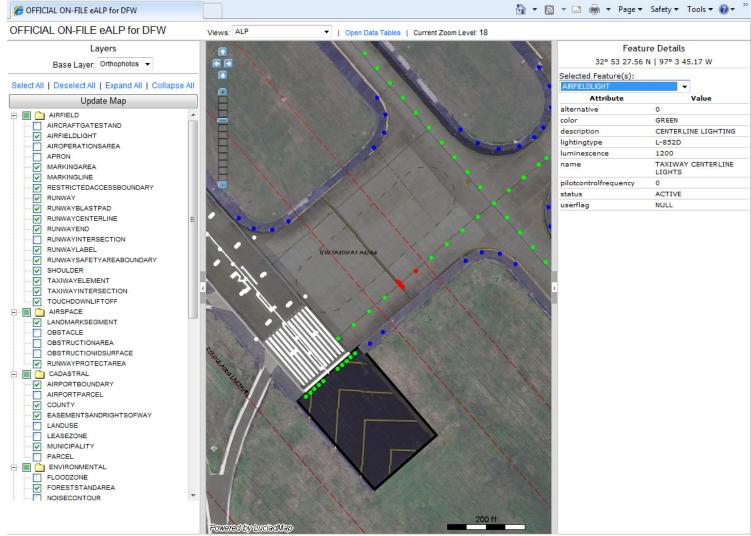


FAA & NGS Validate Data



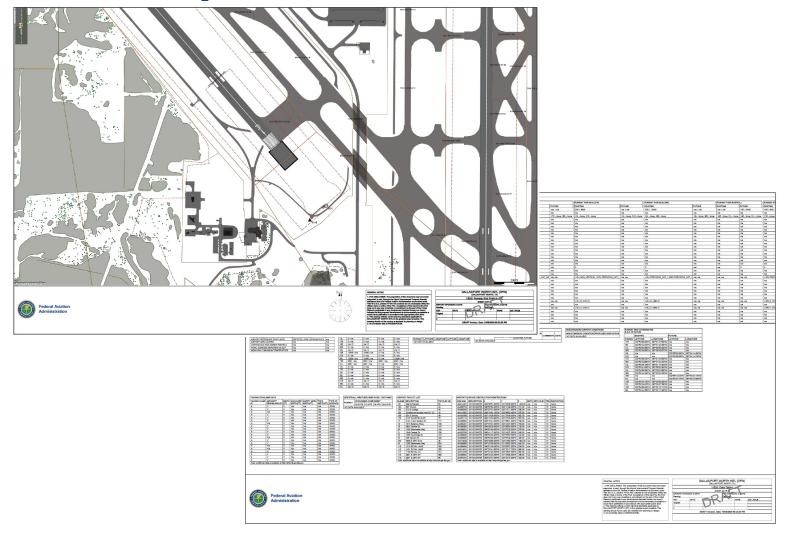


FAA & Airports Use Data – On Line



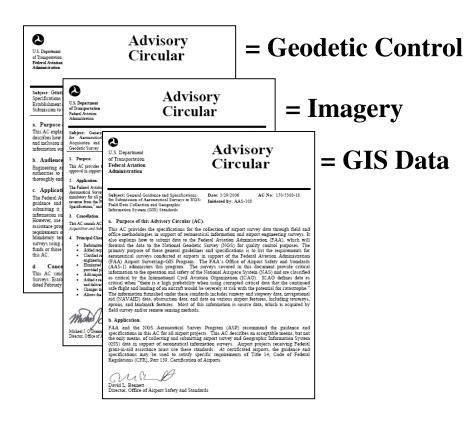


FAA & Airports Use Data – Off Line





Three "ACs" Define the Requirements



Evolution of AC150/5300-18B

AAAE GIS Sub-Committee

SDSFIE HJAIA GIS ALP

A/E/C CADD National CADD
Standard
AIA
NIBS

AirMAT

LBCS FGDC Security SUE

FGDC Metadata ISO 19105 **ED-99a**

DO-272 DO-276

AICM

AIXM

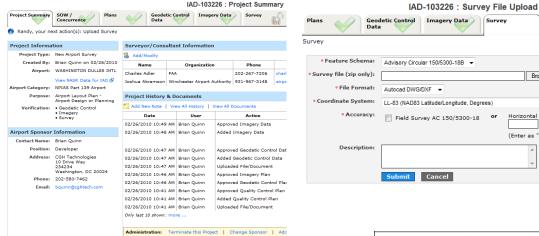
AIXM5

AIXM5.1

 $GOS \Rightarrow FGDC \Rightarrow ANSI \approx AC 150/5300-18B$

Got Metadata?

Source & Quality at "project" level



Version & Status in Attributes

Feature Attributes			
Attribute (Datatype)			
name (VARCHAR2 (50))			
description (VARCHAR2 (255)			
status (Enumeration: codeStatus			
userFlag (String 254)			
Alternative (Number(2))			

Browse...

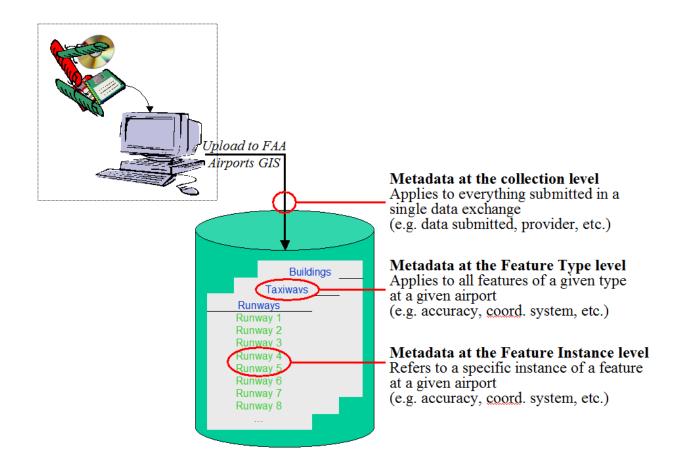
(Enter as "Feet at 95% Confidence Level")

FAA Airports-GIS Metadata Needs

- Airports change so should the data
 - Constant construction and maintenance
 - Natural changes also need to be recorded
- Use sources of varying qualities
- Different versions of the specs
- Contacts needed for validation
- Easy and intuitive to populate



Metadata Needed at Different Levels





Focus on Key Elements at Each Level

Table 3-1. List of MetaData elements

	Collection	Set	Feature
Overview			
Abstract	X	X	X
Status	X	X	X
GeometricObjectCount	X	X	
Scope			
Dataset	X		
Features	X	X	
Attributes			X
Usage			
SpecificUsage	X	X	X
BegusageDateTime	X	X	X
EndUsageDateTime	X	X	X
Source			
Statement	X		
IndividualName	X		
OrganizationName	X		
PositionName	X		
DeliveryPoint	X		
City	X		
AdministrativeArea	X		
PostalCode	X		
ElectronicMailAddress	Χ		
VoicePhoneLine	X		
Coordinate System			
Projection	X	X	
HorizontalDatum	X	X	
VerticalDatum	X	X	
Code	X	X	
Data Quality			
HorizontalAccuracy	X	X	X
VerticalAccuracy	X	X	X
EvaluationMethodName	X	X	X
EvaluationMethodDescription	X	X	X
Pass	X	X	X
GroundSampleDistance	X	X	X





