Facilities Management

With
ArcGIS, AutoCad, and Archibus

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Idaho National Lab Facts

- 890 Square Miles
- 4000+ Employees
- 900+ Buildings and Structures
- First nuclear power
- 1.5 hours from Yellowstone
Overview

- Archibus
- AutoCAD
- GIS

How we leverage the advantages of the software to work together
- Web visualization and interface
- Space tracking
- Asset tracking
Archibus is used for building asset tracking
Archibus provides space utilization metric
Square footage used
Usage by organization
Usage by department
Employee look up
Employee move process
AutoCAD

Buildings and Floor Plans are maintained in AutoCAD

The INL uses AutoCad With Archibus Overlay

Using CAD and Archibus overlay makes the changes to the Archibus database seamless

We use the Entity Handles in the CAD Drawing to provide Unique IDs for polygons
Python script to convert CAD to GIS

ArcMap provides data manipulation and visualization of building assets

With the data converted to GIS we can now use the unique entity handle to ID polygons

ArcSDE and SQL provide Tables and Views for display and web interaction
Web Visualization

ArcServer is serving customized Flex application for visualization and interaction

Customized Flex application
Conversion to Java script
Web interface

Many online tools
Manage space
Claim and release tool
Employee look up
Find a conference room
Emergency management application
Space Tracking

By making the GIS connection to Archibus, space tracking can be provided through the web.
INL Facilities

Occupancy usage by campus
Buildings and Structures categorized by campus
Asset Tracking

Crosswalk GIS Building and Structures data with an asset database

Data will not show in web application if data does not match

Provides critical information on assets status
Questions