Leveraging LRS Across the Enterprise
The ALDOT EGIS Project

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eGIS Project Recap

- Project Initiated in 2013
- Involves Modernization of Numerous Business Functions
  - LRS
  - Roadway Inventory
  - HPMS
  - Traffic Data Management
  - Executive Data Access
  - Field Data Collection
- Goals
  - Implement an authoritative, ARNOLD compliant LRS
  - Improve the HPMS Submittal Process
  - Provide data, services, and support for the enterprise
- R&H In Production in February 2015
- Vast improvement in HPMS Submittals in last two years
ALDOT’s EGIS LRS

Consolidated Routes, Measures, and Road Characteristics
- Milepoint based LRM
- Support for traditional Mileposts
- 147,510 Routes
- 101,464 Miles
- 42 Events Support Road Inventory and HPMS Data Items
- Remaining data items direct from business systems.
Route Management

- Roads and Highways Desktop
- 7 Route Editors in LRS Group responsible for route maintenance
Roadway Characteristics Editor (RCE) / Event Editor

Business users enter associated data along routes
Straight Line Diagramming
HPMS Productivity Tools
VideoLog
Traffic Data Management

Counter ID: Montgomery 46

2016 AADT: 114,990

County: 51 - Montgomery
Route: IN00000850000
Milepoint: 3.850
Segment: 3.167 - 4.898
Length: 1.731
Lane Total: 8
Counter Type: Permanent
Latest Collection Date: 12/31/2016

Category: Large Urban
Urban Area: Montgomery
Func. Class: Interstate
US Route: 
Alternate: S Holt St
Commercial Vehicles: ATR #: 172

ATR: 172
County: Montgomery
Route ID: IN00000850000
Segment: 3.167 - 4.898
2016 AADT: 114,990
Organizational Change....
Change the Message....

• From:
  • “Here are all of these great datasets and services, now start using them”

• To:
  • “Here are all of these great datasets and services”
  • “What kind of services can we provide to support your daily needs?”
  • Implement tools to help you do your job

The Answer – ArcGIS Online
Leveraging ArcGIS Online
ArcGIS Online Content

Alabama Department of Transportation - GIS

ALDOT Mission Statement

To provide a safe, efficient, environmentally sound intermodal transportation system for all users, especially the taxpayers of Alabama. To also facilitate economic and social development and prosperity through the efficient movement of people and goods and to facilitate intermodal connections within Alabama. ALDOT must also demand excellence in transportation and be involved in promoting adequate funding to promote and maintain Alabama's transportation infrastructure.
ArcGIS Online Content

Alabama Department of Transportation Featured Content

- Query ATRIP BINS
- Milepost search
- Permit-Test Web App
- Bridges by ALDOT
- Operation View
- Alabama Traffic Data
- Highway Functional Classification - STATIC -
- National Highway System - STATIC -
- Statewide Mileage by County and Urban Area
- HPMS Consistency Report
- Consistency Report
- FSysytem By County
Milepoint/Milepost Locators
Online Functional Class Maps
ATRIP Bridge Status
Rest Area Map and Status
Enforcement Application
Inter-Agency Communication And Data Sharing

The purpose of this app is to display road information in the Tuscaloosa County Public Works (Alabama) asset management system Lucity, and road segment data from Tuscaloosa Co. E911.

By Tusco
Last Modified: November 15, 2016

Web Mapping Application

Description

Data in the web map displays:

- Tuscaloosa Co. E911 road segment data
  - Road names
  - Address ranges
  - Community Information
  - Road aliases
  - Dates of addressing and updating
  - Data is updated when notified by E911

- Tuscaloosa County Public Works records from the Lucity asset management system
  - Road names, previous road names, and/or aliases
  - Details record numbers (Road ID)
  - Maintenance status (maintained by the department, or not maintained)
  - Maintenance length
  - Roadway length
  - ROW
  - Maintenance verification information
  - Additional comments

URL

http://aldot.maps.arcgis.com/apps/web
iPad Data Collection Tools
Collector for Sample Collections and Inspections
Traffic Data Reporting
Mapping Pavement Conditions
Thank You!

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