Esri Roads and Highways:
An Introduction to Roadway Reporter
(Demo Theater)
Tom Brenneman
Agenda

- Roads and Highways introduction
- Roadway reporter overview
- Roadway reporter demonstration
What is Esri Roads and Highways?

- **Maintenance**
  - Focused route editing tools
  - Web-based Roadway Characteristics Editing solution
    - Address maintenance tools (10.3.1)

- **System Integration**
  - Dynamic integration of enterprise business systems
  - Automated synchronization of business systems with LRS

- **Application framework**
  - LRS web services functionality for collaboration & data quality
Focused LRS editing tools
Event Editor
Dynamic integration of enterprise business systems

Real time and temporal view of business data in the GIS

Features are dynamically generated from business systems
Automated sync of business systems with LRS

1. Geodatabase
2. Business systems
3. Web services communicate the last synchronization date
4. Web services communicate route and measure changes to business records
5. Rules define how events are updated
6. All edit activities are time stamped and stored

LRS Editor

LRS Change
Robust set of web services for a variety of LRS functions

*Improve data integrity & usability*
Roadway Reporter

- **Report types**
  - Mileage summary reports
  - Road locations & segments
  - Mile log

- **Filter and combine event layers**
  - Web based for PC or tablet
  - Opens data to decision makers

- Produces
  - Tabular reports, maps, data products
  - PDF, CSV
Roadway Reporter

• Leverages Web Services
  - Road and Highways for Server required

• Integrated with ArcGIS for Organizations and ArcGIS Portal
  - Provides user and sharing model
  - Per user licensing
  - Stores report configurations

• Uses Overlay Route Events
  - New tool for Roads and Highways
Overlay Route Events

• Supports …
  - Event feature classes
  - Dynamically segmenting multiple event layers
  - Event LRM measure translation

• Can produce publication dataset for Roadway Reporter
  - Faster reporting
  - Optional, not required

• Can produce dataset for other reporting tools
Sharing reports

- Share report configurations through ArcGIS Online groups
- Modify shared reports and share with others
- Report outputs
  - Share as files
  - Use CSVs in Esri Maps for office
Creating a publication data model from reporting

- Desktop
- RCE
- Roadway Reporter

Transactional Roads and Highways

Reporting Roads and Highways

Geoprocessing
e.g. Locate Features Along Routes
Demo

Probably the best demo you have ever seen. You will tell your friends about this demo. You may cry during this demo!
Resources


- Tom Brenneman – [tbrenneman@esri.com](mailto:tbrenneman@esri.com)

- Search “Roads and Highways” in the agenda
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“The mountains are calling and I must go.” – John Muir