



May Meeting 5/8/2024

Roads and Highways User Group

AGENDA

- 1. Announcements
- 2. Roads & Highways Updates
 - Nathan Easley
- 3. iHUB for LRS Methodology and Training Communication within Agency
 - Peter Morey, Minnesota DOT Presentation
- 4. Open Discussion

ANNOUNCEMENTS

- GeoNet Become a part of the ESRI Community
 - https://community.esri.com/t5/roads-and-highways-usergroup-rhug/gh-p/roads-and-highways-user-group-rhug
- We are always looking for presentation volunteers
 - We have some interest from the SIG last month but still need confirmations and more future planned presentations
- GIS-T 2024 is now wrapped up
 - Thank you to everyone involved who volunteered, gave presentations, submitted maps, and just attended.
 - It was a success and looking forward to next year's conference in Portland, OR

Roads & Highways Updates

Nathan Easley

iHUB for LRS Methodology and Training Communication within Agency

Minnesota DOT Peter Morey



Open Discussion

- GIS-T SIG Recap
 - Experience Builder Widgets
 - Once we get into using them (after May release) we will have more conversation
 - Community looking for Route Dominance support in new EE
 - How will AI be used in RnH?
 - Kansas using AI to interpret Aerial photos and also to populate surface types for MIRE
 - Nevada using AI to build common words library in docs to have better search results
 - Georgia is using AI pulling definitions out of CADD files and putting into GIS
 - Other topics that were discussed that anyone would like to bring up?

Upcoming Meetings / Contacts

Wednesday June 12th, 12:30-2pm

Contact Info:

Erin Lesh <u>ealesh@ncdot.gov</u>
Patrick Whiteford <u>pwhiteford@azdot.gov</u>
Ryan Koschatzky <u>rjkoschatzky@ncdot.gov</u>
Shaun Perfect sperfect@azdot.gov



Product Team Update RHUG meeting 5/8/24 Nathan Easley

Capabilities currently under development

- Point event support in Overlay Events GP/Query Attribute Set REST (dynamic segmentation)
- LRS Reporting
 - Transform Reporting Data tool
 - Summarize by Polygon Boundaries
- Pro ribbon tool to execute Apply Event Behaviors and other post route editing processes
- Experience Builder
 - LRS Search: By Line and Measure
 - LRS Search: Output fields configurable
 - LRS Search: Open results in table

Support Incidents/Defects

- BUG-000165026 The Create Route, Realign Route, and Extend Route tools' centerlines table does not honor display field created from an Arcade expression (fixed in Pro)
- BUG-000164928 When using the Identify Routes tool on routes that have z-values populated, the measure value displayed in the tooltip is erroneous (working with core team to fix)
- BUG-000162194 Leaving Fields in a new related record blank that are esriFieldTypeSingle (ArcGIS Pro Float) and esriFieldTypeDouble (ArcGIS Pro Double) in Related Tables within ArcGIS Event Editor fail to save even with Allow Null values enabled (fixed in Event Editor)
- BUG-000161769 'Select by Geometry' in Event Editor 10.9.1 returns an "Unable to query event locks" error, despite not needing an event lock to perform a select function (currently investigating)
- BUG-000163003 Using specific queryAttributeSet queries from REST on RouteIDs with multipart geometries causes the linear referencing service to crash or the returned events are incorrect based on the query (fixed in Pro)
- BUG-000161089 An extent cannot be changed after running the Delete Route tool (transferred to geodatabase team for fix)

Support Incidents/Defects

- BUG-000166871 ArcGIS Pro crashes when filling out parameters for the Create LRS Event From Existing Dataset and Create LRS Event geoprocessing tools (data issue, adding better error message)
- BUG-000164869 MeasureToGeometry doesn't respect transformation definition on the map when requesting Geometry in a different projection with Transformation (fixed in Pro 3.4)
- BUG-000167177 Misleading error message "The chosen centerlines have overlapping sections or slivers which will result in a loss of geometric length." is returned when choosing two centerlines when attempting to Extend Route (adding better error message at Pro 3.4)

Other Announcements

- Thanks to everyone who visited the learning lab at GIS-T
- ArcGIS Pro 3.3 released yesterday (ArcGIS Enterprise 11.3 coming later this month)

 We want to talk to your event editors that will be using Experience Builder moving forward, please reach out to Nathan (<u>neasley@esri.com</u>)







MnDOT LRS Communications

Peter Morey | Roadway Data & Support Director
Office of Transportation System Management
5/8/2024



AGENDA

- Terms & Acronyms
- Roadway Data & Support (RDS)
 –Who we are
- Status
- Work Tracker
- RACER
- LRS Webpage
 - •/922emo Video

- Route Location
 Converter/Enterprise Location
 Services 2
- LRS Reports
- EMMA/Georilla/RPMA –
 Mapping Apps
- MN GeoCommons
- Metadata mover

TERMS AND ACRYOS.

- ELS2 Enterprise Location Services (API)
- LRS Linear Referencing System
- R&H Esri's Roads & Highways ArcGIS extension
- RACER Roadway And Characteristic Editor Request
- RLC Roadway Location Converter
- SDW Spatial Data Warehouse
- EMMA Enterprise MnDOT Mapping Application
- Status Update process where we ask locals for input





Roadway Data & Support (RDS)

Linear Referencing System & core roadway data

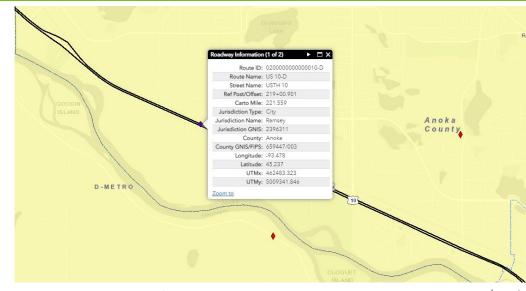
Engineering Station/Ref Point/Carto Mile conversion

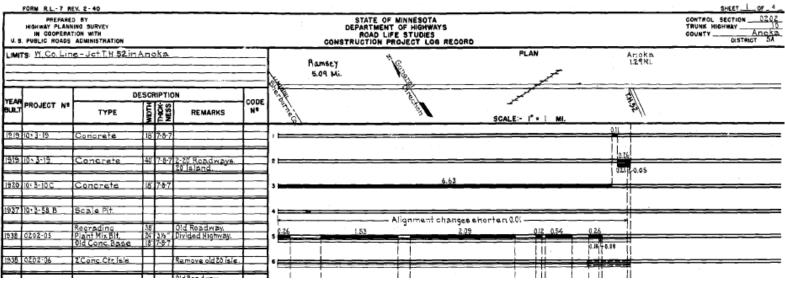
Reference Post Placement

Construction Project Log

Metadata Support

District Boundaries
 5/9/2024





Sustainability, Planning, and Program Management 395 John Ireland Blvd St. Paul, MN 55155

Bikeway Data - Additionally, please send all your spatial bikeway data to bicyclemap.dot@state.mn.us. To provide the best data, visit https://www.dot.state.mn.us/bike/state-bike-map.html to review your jurisdiction's data on the Minnesota Bikeways Web Map, and use the MN Bikeways Data Standard to organize and format your data. The Standard and Definitions document on the Data Standard webpage will help answer attribution and definition questions. Please contact bicyclemap.dot@state.mn.us with any questions and comments.

Public Roadway Miles - Please report all public roadway miles in the Annual Mapping Status Report. Federal funding is linked to the total public roadway miles in the state, so it is important to report all public roadway miles to ensure Minnesota receives its fair share of available federal funds.

To follow the progress of this year's status, please refer to the Status Tracking application

After status has been returned, if you find unresolved issues that need to be addressed concerning roads in LRS, please use RACER

To view the most recent linework available please refer to Enterprise MnDOT Mapping Application (EMMA)

a Department of Transportation Annual Mapping Status

naps are too large for email, a link to the GIM webpage dicate any changes or corrections. Please email the lbeck@state.mn.us. Maps should be returned even if on the map) or simply reply to the initial request

xisting, and platted road construction (including private d vacations, including street names and route system ignated route systems will be entered into LRS as symbolize and include an approximate road opening es needing correction such as bridges, one-way streets. Attached is a checklist of information needed. For ndary change area. Municipal changes must be verifie

atial bikeway data to bicvclemap.dot@state.mn.us. To nn.us/bike/state-bike-map.html to review your Map, and use the MN Bikeways Data Standard to ons document on the Data Standard webpage s. Please contact bicyclemap.dot@state.mn.us with any

dway miles in the Annual Mapping Status Report. miles in the state, so it is important to report all public share of available federal funds

the Status Tracking application

that need to be addressed concerning roads in LRS,

please use RACER

To view the most recent linework available please refer to Enterprise MnDOT Mapp

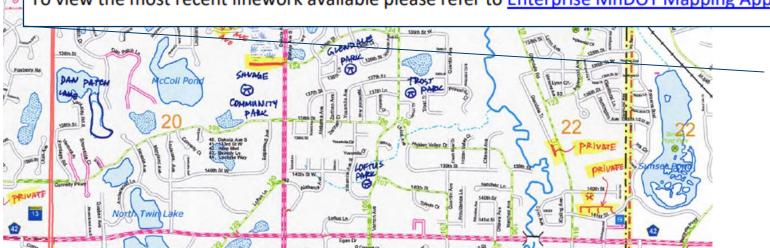
Please send any questions to Bob Wolbeck, MnDOT Geographic Information and Mapping Section, at Bob.Wolbeck@state.mn.us, or 651-366-3880. Thank you for your prompt attention to this request.

Sincerely.

Assistant Commissioner, Sustainability, Planning, and Program Management Minnesota Department of Transportation

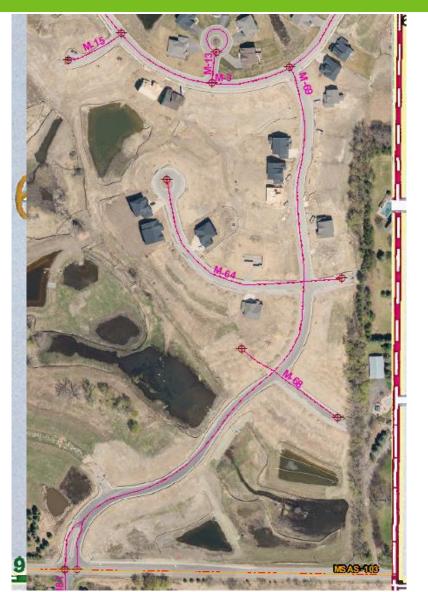
Cc. Bob Wolbeck, MnDOT Geographic Information and Mapping Section, MnDOT Transportation Data and Analysis

An equal opportunity employer



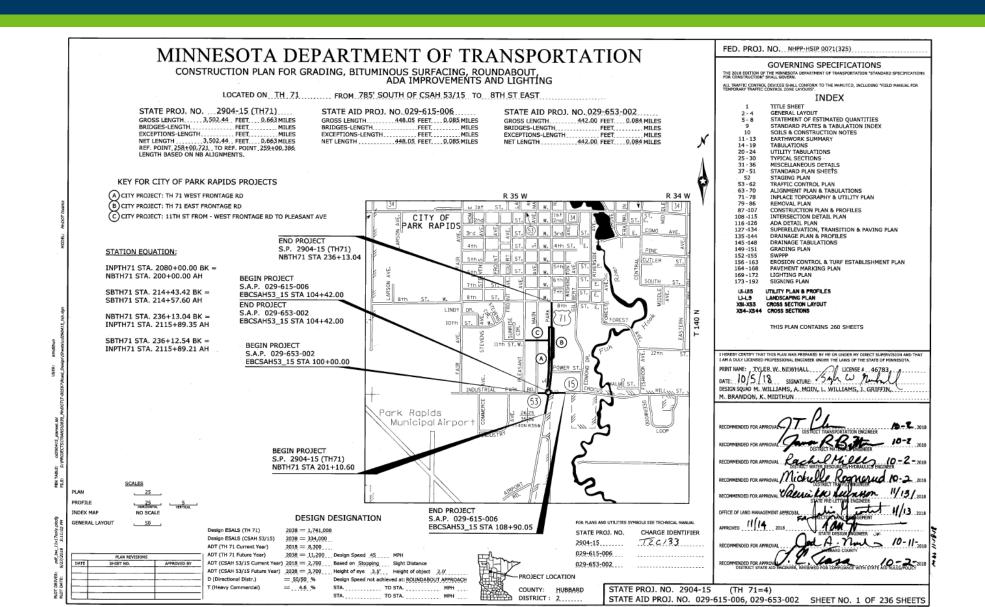
County Imagery







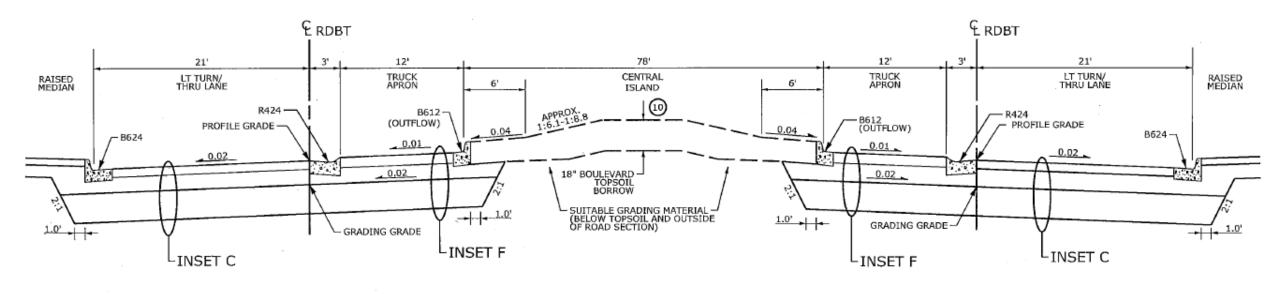
Construction Plans

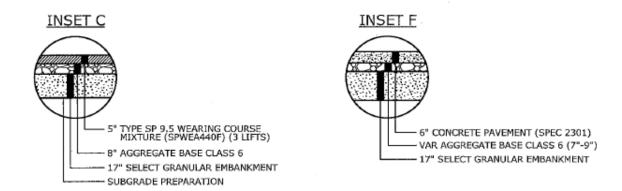


Construction Plans – Typical Section

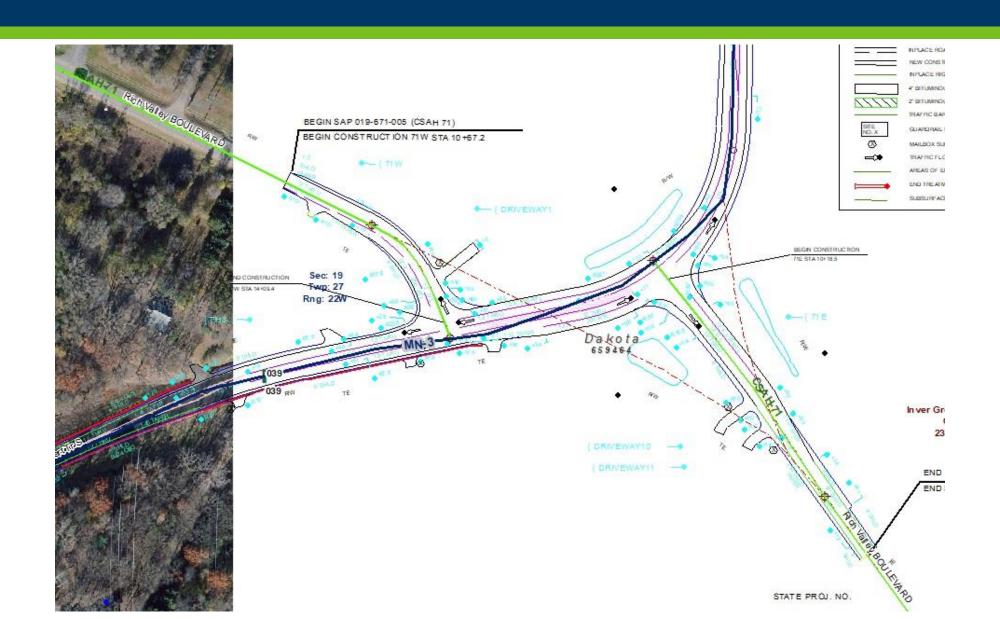
TH 71/CSAH 15/CSAH 53 ROUNDABOUT

RDBT STA 300+00 TO RDBT STA 303+39





CADD File



Commissioner's Order

- Official documentation that transfers a road from one jurisdiction to another
- We mostly use two types:
 - County
 - Cities over 5,000

ORDER NO. 97884

COMMISSIONER'S ORDER

Pursuant to Minnesota Statute, Section 162.02 (2009), the revocation of the following County State Aid Highway, or portions thereof, entirely within the county, as requested by resolution of the <u>RICE</u> County Board, dated December 11, 2018, is hereby approved:

REVOCATION OF COUNTY STATE AID HIGHWAY NO. 53

Beginning at the intersection of County State Aid Highway No. 45 (Albers Avenue) and County State Aid Highway No. 53 (265th Street) near the southwest corner of the southwest quarter of the northwest quarter of Section 32, Township 109 N, Range 20 W, thence easterly along the centerline of the roadway to the intersection of County State Aid Highway No. 21 (Cabot Avenue) on or near eastern section line of said Section, and there terminating.

Pursuant to Minnesota Statute, Section 162.02 (2009), the establishment, location, designation, and numbering of the following County State Aid Highway, or portions thereof, entirely within the county, as requested by a resolution adopted, November 13, 2018, by the <u>RICE</u> County Board, is hereby approved:

DESIGNATION OF COUNTY STATE AID HIGHWAY NO. 60

Beginning at the intersection of County State Aid Highway No. 46 (Bagley Avenue) and County State Aid Highway No. 8 (130th Street) near the northeast corner of Section 26, Township 111 N, Range 21 W, thence west along the centerline of the roadway to the northwest corner of said section, thence northerly along east section lines of Sections 22 and 15, Township 111 N, Range 21 W, to the intersection of County State Aid Highway No. 1 (Millersburg Avenue) near the northwest corner of Section 14, 111 N, Range 21 W, and there terminating.

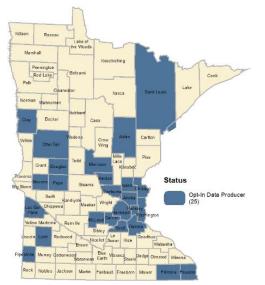
Change Detection Service

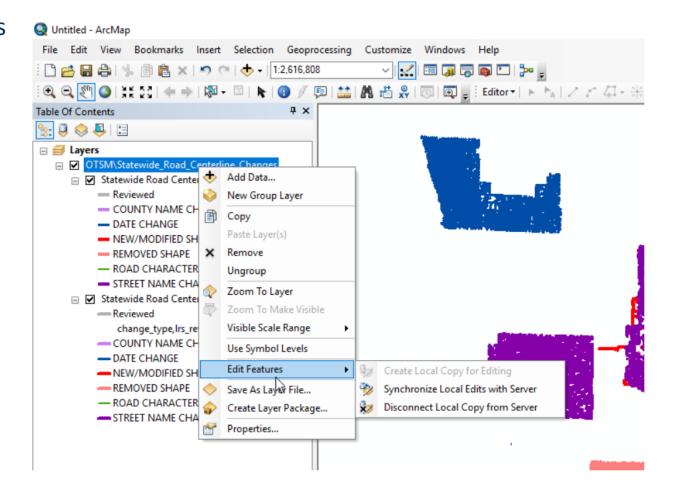
Statewide layer of NextGen911 addressable routes

For Emergency Response and Crash coding

Detect changes monthly

Create LRS Redline layer

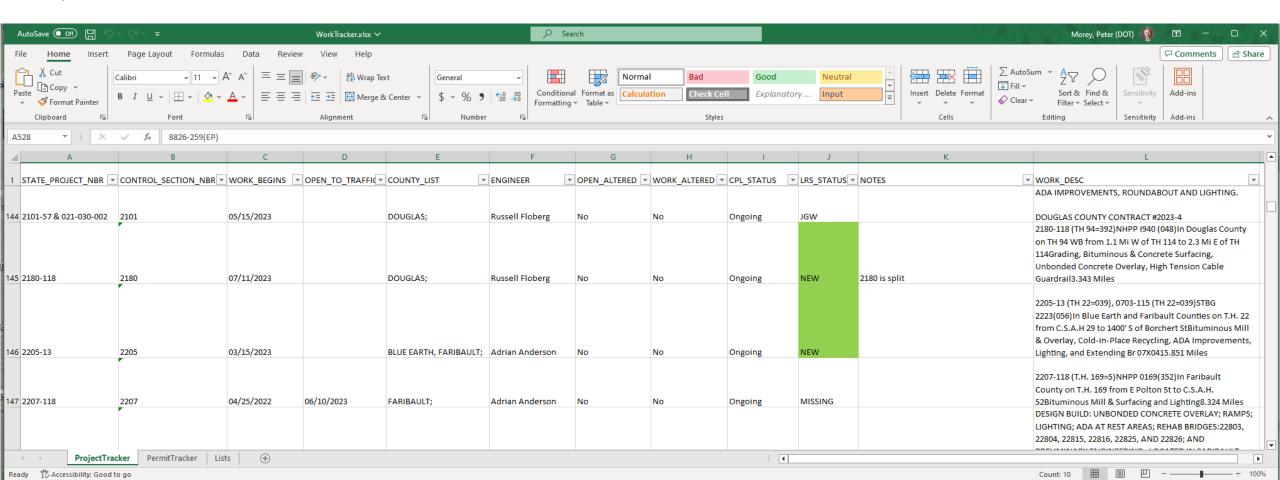




Work Tracker

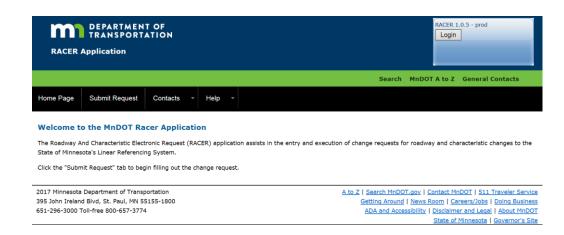
- Queries AASHTOWare Construction DB
- Users note when they complete work

Queries Permits DB



RACER:

- A web application
- Allows users of LRS data to initiate a data update/correction request
- Automatically notifies users of the status of their request
- Assists LRS management to track and record data requests



LRS Webpage

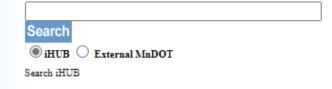
Internal webpage

- News
- FAQs
- Terms
- Reports/Data
- Interactive Maps
- Tools
- Contacts



Jump To Main Content | Contact Web Team

MnDOT GIS



Linear Referencing System (LRS)

GIS Users Workshop

Home | FAQs | Glossary | Specs | Reports | Status Tracker | RACER | RLC/ELS2 | Contacts

What is the LRS?

The Linear Referencing System (LRS) is an ESRI suite of tools. The first tool is an ArcGIS Extension called Roads & Highways (R&H) which enables us to manage the route network with multiple Linear Referencing Methods in a single application. The second is the Event Editor (EE), a web-based tool for editing of route-related characteristics. Third is Data Reviewer (DR), a QA/QC tool to verify that edits are good. Finally, the Workflow Manager (WMX) is similar to Model Builder in that the user creates flowcharts defining the workflow that all editors follow, which ensures standard workflows, consistent data entry and timely notifications. In addition, we also use Feature Manipulation Engine (FME) - a non-Esri software from Safe Technologies, to perform some QA/QC checks and to publish LRS data to the Spatial Data Warehouse (SDW).

GIS Newsletter ▼ Data ▼ Standards ▼ Software & Applications ▼ Training ▼ Help ▼

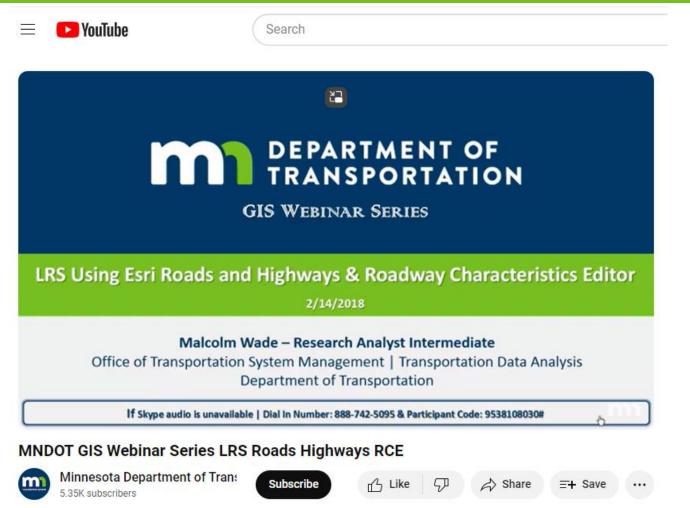
The suite is comprised of COTS products, mostly built on standard ESRI technology. The LRS allows the ability to "overlay" non-spatial data for analysis, providing a foundation for data sharing with MnDOT's public and private sector partners. The LRS has temporal capabilities allowing the display, analysis, creation, and management of location data in the past, present, and future. It is also a precursor to functionality, allowing locals to edit their own data as well as providing rule-based methods to automatically update registered data with changes to location information.

Watch this video to see how we edit the LRS: Walkthrough Demo Video

News:

5/9/2024

Demo Video



54 views 3 weeks ago

...more

MNDOT GIS Webinar Series LRS Roads Highways RCE (youtube.com)

Intro to Linear referencing

Demo of how we edit in R&H

Demo of Event Editing

LRS Users Group



55 Members

52 Attended first meeting on 1/31/24

Meet Quarterly

Hour meeting

- Announcements
- Updates
- LRS Team
- IT Support
- Customer Presentation/Feedback



Linear Referencing System Explained



LRS Users Group Survey

5/9/2024

First Meetings of the LRS Users Group

Agenda LRS Users Group 1/31/24:

- Welcome/Introduction
- Q&A on the LRS document (see attached)
- LRS Webpage
- Logistics
 - Meeting frequency
 - Length
- Project Updates
- Customer Feedback time
 - How do you use the data
 - What doesn't work/What does
 - Accuracy needs (more data or more accuracy)
 - o Others...?
- Suggestions for inputs to improve existing data



Agenda LRS Users Group 4/30/24:

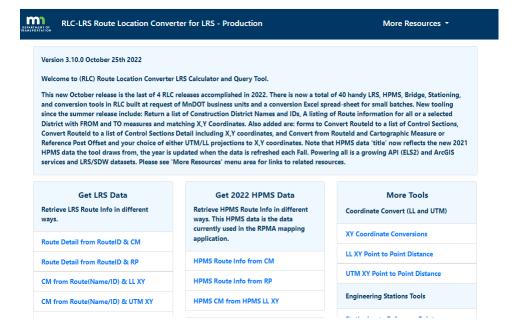
- Welcome/Announcements
 - Domain Updates
 - Control Section Update
- Project updates
 - 0 3.3 / 11.3
 - New events
- LRS team subjects
 - HPMS events/timeline
 - o I/I
- IT subjects
 - LRS in ArcPro downstream impacts
 - o SDW Timeline
- Customer Feedback time

5/9/2024

Route Location Converter/Enterprise Location Services 2

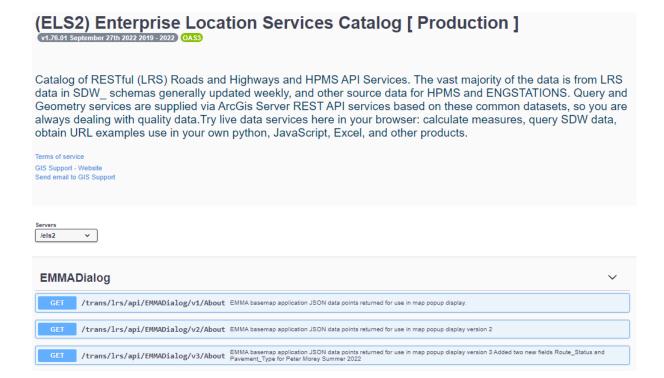
RLC:

- Carto Measure/Reference Point
- LatLong/UTM
- Control Section/Ref Posts
- Stationing Conversion



ELS2:

- Rest Services
- Current/HPMS
- Spreadsheet



LRS Reports

Static official Reports



- Based off HPMS
 - External

Ad-Hoc Current ___



- Based off HPMS
- Plans for 'current'
- Internal Only

Click on a folder to display the corresponding report



Vehicle Miles Traveled (VMT) - multiple of centerline mileage and number of motorized vehicles that travel past a certain location during a specific period of time

Data | Methods

(Centerline) Miles and Lane Mileage - Centerline Miles is a term for one mile of a single roadway, regardless of the number of lanes. (If a road is divided, mileage is not doubled.) Lane Mileage refers to a multiple of continual driving lanes and centerline mileage. Both types of figures can be organized by city, county, route system, surface type, and functional class.

Data | Methods

Construction Project Log - index of all past and present trunk highway construction projects, organized by county and control section

Data | Methods

Roadway Project Mapping Application (RPMA) - used to determine the begin and end points and Carto measures (used to be referred to as "True Miles") of projects going into CHIMES using the static HPMS subset of LRS data

RPMA page

Trunk Highway Keypoint Report and Keypoint by County reports - sequential listing of landmarks one crosses when driving along a trunk highway or local road in the increasing (reference posts) and decreasing (against reference posts) directions

Data | Methods

National Highway System (NHS) - roadways important to the nation's economy, defense, and mobility Data | MnDOT NHS page

Functional Classification - the process by which all roads are grouped into classes or systems according to the character of service they are intended to provide

Functional Classification page

Control Sections and Statutory Routes - divided and designated segments of the state highway road system

Data | Methods

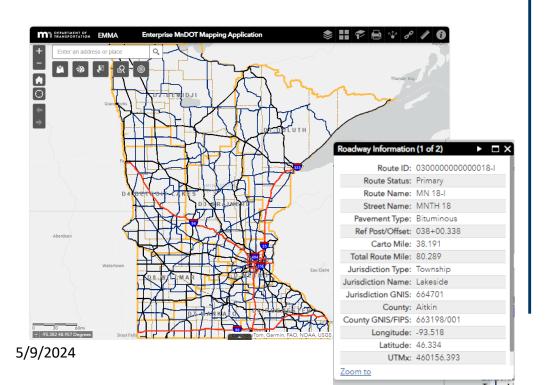
General Reference - lists of cities/counties/townships by county

Data

Mapping Tools

Enterprise MnDOT Mapping Application (EMMA)

- 'Current' LRS
- Crash Coders/State Aid



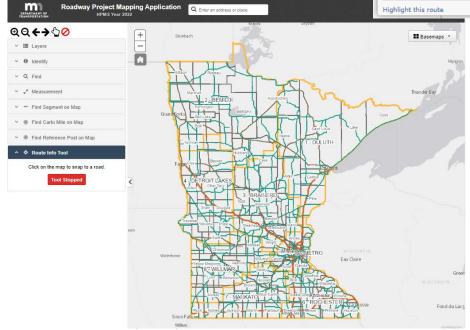
Roadway Project Mapping Application

(RPMA)

HPMS Freeze

FMIS projects



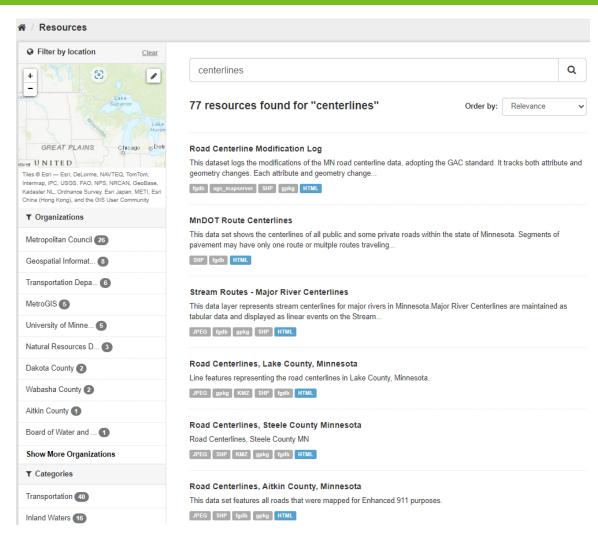


MN GeoCommons

https://gisdata.mn.gov/

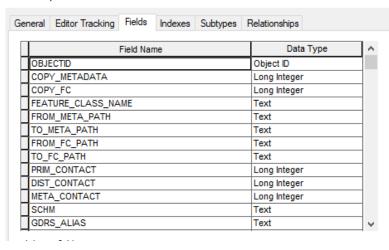
All Agency Geographic data





Metadata Mover

Table Properties



- Developed in house
- Updates & Publishes data & Metadata
- Variables managed in 2 tables

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        </cntperp>
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   </cntinfo>
</ptcontac>
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Contents Preview Description									
OBJECTID	* NAME	TITLE	ADDRESS	CITY	STATE	ZIPCODE	PHONE	FAX	EMAIL
•	1 Blaine Hackett	LRS Unit Supervisor	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3852	651-366-3886	blaine.hackett@state.mn.us
	2 Kyle House	Research Analyst Intermediate	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3873	651-366-3886	linearreferencingsystem.admin.dot@state.mn.us
	3 Peter Morey	Data Systems and Coordination Section Director	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3872	651-366-3886	linearreferencingsystem.admin.dot@state.mn.us
	4 Mike Eull	Research Analysis Specialist	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3859	651-366-3886	michael.eull@state.mn.us
	5 Scott Patnode	HPMS Program Coordinator	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3870	651-366-3886	scott.patnode@state.mn.us
	6 Artulo Botello	Research Analysis Specialist	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3860	651-366-3886	art.botello@state.mn.us
	7 Pat Phenow	state Program Administrator Principal	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3672	651-366-3720	patrick.phenow@state.mn.us
	8 Ryan Gaug	Planning Director Transportation	222 East Plato Blvd.	Saint Paul	MN	55107	651-234-7236	651-296-9089	ryan.gaug@state.mn.us
	9 Chris Morgan	Planner	222 East Plato Blvd.	Saint Paul	MN	55107	651-234-7263	651-296-9089	christopher.morgan@state.mn.us
	10 Michael Ligday	state Program Administrator Principal	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-3587	651-282-9904	michael.ligday@state.mn.us
	11 Robert H. Williams	Landscape Architect Senior	395 John Ireland Blvd.	Saint Paul	MN	55155	651-366-4702	651-366-4699	robert.williams@state.mn.us
	12 Jesse Pearson	State Program Administrator Coordinator	395 John Ireland Blvd	Saint Paul	MN	55155	651-366-3881	651-366-4111	linearreferencingsystem admin dot@state mn us

5/9/2024 22



Thank you again!

Peter Morey

Peter.Morey@state.mn.us

651-366-3872

from Patrick Kemble - NYSDOT - HDSB to Everyone

12:30

Look at all those fancy RHUG folks!

from Koschatzky, Ryan J to Everyone

12:33

https://community.esri.com/t5/roads-and-highways-user-group-rhug/gh-p/roads-and-highways-user-group-rhug

from Koschatzky, Ryan J to Everyone

12:36

The ted talks were great and the team should present some of those talks here.

from peter morey MnDOT to Everyone

12:37

Could also do an informal discussion of people writing Attribute Rules, what worked or what challenges are they having

from Clive Reece to Everyone

12:39

FYI to all, ArcGIS 3.3 is released and avalable. See these blogs: What's New in Pro 3.3 (https://www.esri.com/arcgis-blog/products/arcgis-pro/announcements/whats-new-in-arcgis-pro-3-3/) and ArcGIS Pro moves to .NET8 (https://www.esri.com/arcgis-blog/products/arcgis-pro/announcements/arcgis-pro-3-3-moves-to-net-8/)

from Ethan ODOT to Everyone

12:39

In ArcPro does anyone else have the bug (?) / issue where you can't transfer a version or delete it after changing to another version. We have to close Pro and reopen it inorder to do it

from Jared Mitchell - RIDOT to Everyone

12:41

Will the widgets for Experience Builder require licensing to use?

from Lesh, Erin A to Everyone

12:42

@Ethan - NC is not at Pro yet or we could have tested that

from Nicole Hanson to Everyone

12:43

ITD probably has some folks to try Experience Builder Nathan.

from Alex Carter to Everyone

12:43

Ethan, I believe i have had the same issues with trying to delete child versions.

from Ethan ODOT to Everyone

12:44

No, I'm asking if anyone has this issue

from Kevin Hunt to Everyone

12:45

@Ethan - Starting to work with Pro but not that far along yet. Thanks for the heads up.

from Jared Mitchell - RIDOT to Everyone

12:45

OK, thanks!

from Alex Carter to Everyone

12:45

Is there a best option when choosing the options for a support ticket, seems like this piece of software is missing on the drop downs?

from Ethan ODOT to Everyone

12:45

ok thanks

from Kevin Hunt to Everyone

12.46

Why isn't R & H in the pull down list though?

from Lesh. Erin A to Everyone

12:47

@Alex - I haven't submitted a ticket lately but I think it was listed under industry solutions

from Kevin Hunt to Everyone

12:47

....on support.esri.com. Seems like every other product is there. Strange.

from Alex Carter to Everyone

12.47

I don't think it is, but maybe it's been added lately.

from Alex Carter to Everyone

12:47

Thanks

from Kevin Hunt to Everyone

12:47

Thanks Nathan.

from Ethan ODOT to Everyone

12:55

@Nathan - Looks like this bug has already been reported: https://support.esri.com/en-us/bug/the-error-message-the-version-is-currently-in-use-is-re-bug-000152519

from Lesh, Erin A to Everyone

13:00

I can unmute folks - let me know if you would like to be unmuted

from INDOT - Kevin Munro to Everyone

13:01

Peter - what were some of the permitting events that were being missed and were important to you? from Nathan Easley to Everyone

13:01

@Ethan, looks like this was fixed in Pro 3.1 and 3.0.6. Are you on an earlier version?

from Ethan ODOT to Everyone

13:04

3.2.1

from Nathan Easley to Everyone

13:06

I'd definitely open the support case. It's either a slightly different issue or the fix has regressed or appeared a different way from the previous version.

from Ethan ODOT to Everyone

13:12

ok thanks for the help Nathan

from Shaun Perfect to Everyone

13:19

sorry, 1pm CST

from Alex Carter to Everyone

13:32

@Ethan is your email Ethan.Pointer@dot.ohio.gov? Going to send you an email regarding the versioning issue.

from Kevin Hunt to Everyone

13:36

@Peter – you mentioned the benefit of giving the agency executives a better appreciation of the level of effort involved in maintaining the LRS. What are a couple of the other biggest benefits or return on investment you have observed from publishing so much information about the LRS and how it is and may be used?

from Kevin Hunt to Everyone

13:39

A good answer. An impressive effort to share information on your business processes. Thank you for sharing with us.

from Erin Westfall to Everyone

13:40

Is there a financial or non-financial incentive for municipalities to send you their roadway changes?

from Dorothy - ITD to Everyone

13:40

What kind of response do you get from users reporting changes?

from INDOT - Kevin Munro to Everyone

13:41

You talked about improving communication with your permits department. What permit data were you interested in using that affected what events in your LRS?

from INDOT - Kevin Munro to Everyone

13:42

Thanks!

from jennifer campbell to Everyone

13.4

How do you identify if its a public road?

from Ethan ODOT to Everyone

13:45

@Alex yes

from Mohla, Kathleen@DOT to Everyone

13:48

Excellent presentation...Thank you Peter!

from peter morey MnDOT to Everyone

13:48

Peter.Morey@state.mn.us

from Alex Carter to Everyone

13:49

Very good, thanks!

from Nicole Hanson to Everyone

13:54

Why did you chuckle Shaun?! LOL

from Nicole Hanson to Everyone

13:54

Was it remembering I said ArcMap was dead?

from Nicole Hanson to Everyone

13:55

If anyone wants a copy of the picture we took at the SIG, it's been shared on the GIS-T Social media sites!

from Lesh, Erin A to Everyone

13:56

made me laugh @Nicole:)

from Tyler Hislop to Everyone

13:56

which social media site?

from Nicole Hanson to Everyone

13:56

LOL FB, Twitter, Linked In, IG

from Tyler Hislop to Everyone

13:56

or, all of them?

from Chervunkong, Chingsou K@DOT to Everyone

13:56

Thanks, ever

from Glendora to Everyone

13:56

thanks

from Cameron Cole to Everyone

13:56

thanks all

from peter morey MnDOT to Everyone

13:56

Thanks all

from Nicole Hanson to Everyone

13:56

wasn't laughing at you Tyler - that LOL was for Erin

from Hong Liang - GDOT to Everyone

13:56

thanks!