Roadsoft Update

Nick Koszykowskis
Sr. Project Manager
Center for Technology & Training
Roadsoft Update

• 2021 Work Plan
• 2022 Work Plan
• Framework Basemap Migration
  – V21 to v22
• Bridge Data Update
• Crash Data Update
• Training Update
2021 Work Plan (what we did)

• Mobile Data Collection: Guardrail
• Framework Migration v20 to v21
• Culvert Custom Fields
• Sign Custom Fields
• Pavement Management Improvements
• Generic Point/Line Modules
• Culvert update for data collection
• Current Roadsoft/LDC Version: 2022.1
2021: Culvert/Sign Custom Fields

- Sign Generic Fields migrated to Custom Lookup fields
- Separate fields for Support and Sign
- Multiple data types
- Filterable and available for legends
2021: Pavement Management Improvements

- Deterioration Modeling Options
2021: Pavement Management Improvements

• Curve Fit calculation
  – Alternative to RSL Confidence
    • RSL Confidence compares how well segment deterioration fits the base curve for a segment (derived from that segment’s data)
  – Compares how well segment deterioration fits the model curve
    • Better way to see how segment performs versus predicted deterioration
2021: Generic Point/Line Modules

- Ongoing effort (continues through 2022)
- Gives user ability to create a ‘user-defined’ module for Point or Line assets
- Mix of how Drainage Network and Custom Fields work
2021: Culvert update for data collection

- Updated module to meet MI Non-NBI Culvert Structure Inspection Guide for TAMC data collection and submission
- Standardized Fields:
  - Material
  - Shape
- Culvert Inspection
2022 Work Plan (what we are going to do)

• Generic Point/Line Modules
• Road Module Custom Fields
• Guardrail Module Custom Fields
• Mobile Data Collection for Point Pavement Marking
• Pavement Management Improvements
2022: Pavement Management Improvements

- Investigate generating new deterioration curve from existing segment history
- Strategy/Optimization: Set a Good/Fair/Poor goal
- Tools to identify bad/missing data
- Generate map/chart/report for a past year
  - For example, show me my paved network condition in 2016
Framework v22/Bridge/Crash Data Update

- 2022.3 will include migration from v21 to v22 of the centerline
- Bridge Data
  - Getting updated inventory and inspection data from MDOT. Update is imminent
- Crash Data
  - Reminder: Previous year data not available until April-June
Training Update

• Getting Started with the Mobile App (2/22/22)
• Laptop Data Collector (3/2/22)
• Not yet scheduled:
  – Intro to Roadsoft – The Basics (Spring)
  – Utilizing Roadsoft for Asset Management (Spring)
  – Roadsoft Hands On Workshop (Fall)
MERL & MI Local Project Administration Updates

Nick Koszykowski
Sr. Project Manager
Center for Technology & Training
MERL & MI Local Project Administration Updates

• MERL Desktop
  – Current version: 2021.12

• MI Local Project Administration
  – How do we manage local jobs when Field Manager goes away?
Proposed Field Manager Replacement

- Field Manager ‘sunsetting’ in 3 years
  - When last job started in Field Manager is closed out
- InfoTech/MDOT will no longer support Field Manager
- MDOT cannot support local jobs in new AASHTOWare Project
Proposed Field Manager Replacement

- New Un-named project (Transportation Construction Management System or TCMS)
  - Web-based
  - Initial development funded by money from Counties, Municipalities, and MDOT
  - Additional development, support and training funded by fees
  - Managed by County Road Association
Proposed Field Manager Replacement: TCMS

- 3 years to implement initial phase
  - Similar MERL Local Job Manager functionality expanded based on Advisory Group requirements
- Additional year for Materials/Certifications and Mobile
Questions?

- Nick Koszykowski
- Sr. Project Manager
- MTU – CTT
- Roadsoft@mtu.edu
- MERL@mtu.edu
- 906-487-2102