







### March TPI Meeting – 3/21/2019

Johnathan Croft & Kerry Alley VTrans Mapping Section





# What is MIRE?



- Model Inventory of Roadway Elements
- Listing of roadway and traffic elements critical to safety management
- Provides data dictionary definition, attributes, etc
- Similar to Model Minimum Uniform Crash Codes (MMUCC) but for roadway and traffic data.





# MIRE Model Inventory of Roadway Elements

#### Interchange/Ramp Roadway Segment Intersection Unique Junction Identifier Unique Interchange Identifier Segment Identifier (12) (178)(120)Location Identifier for Location Identifier for Road I Route Number (8) Roadway at Beginning Ramp Crossing Point (122) Terminal (197) Location Identifier for Location Identifier for Road 2 Route/street Name (9) Roadway at Ending Ramp Crossing Point (123) Terminal (201) Intersection/Junction Ramp Length (187) Federal Aid/ Route Type (21) Geometry (126) Intersection/Junction Traffic Roadway Type at Beginning Rural/Urban Designation (20) Control (131) Ramp Terminal (195) AADT (79) [for Each Roadway Type at Ending Surface Type (23) Intersecting Road] Ramp Terminal (199) Begin Point Segment Descriptor AADT Year (80) [for Each Interchange Type (182) Intersecting Road] End Point Segment Descriptor Unique Approach Identifier Ramp AADT (191) (139)Segment Length (13) Year of Ramp AADT (192) Direction of Inventory (18) Functional Class (19) Type of Governmental Functional Class (19) Ownership (4) Median Type (54) Access Control (22) One/Two-Way Operations (91) Number of Through Lanes (31) AADT (79) AADT Year (80)

#### Non-Local Paved Road

Type of Governmental Ownership	
(4)	
Unique Junction Identifier (120)	
Location Identifier for Road I	
Crossing Point (122)	
Location Identifier for Road 2	
Crossing Point (123)	
Intersection/Junction Geometry	
(126)	
Intersection/Junction Traffic	
Control (131)	
AADT (79) [for Each Intersecting	
Road]	
AADT Year (80) [for Each	
Intersecting Road]	
Unique Approach Identifier (139)	
Note: AADT = Annual average daily traffic	







#### Roadway Segment

Segment Identifier (12)

Functional Class (19)

Surface Type (23)

Type of Governmental Ownership (4)

Number of Through Lanes (31)

Annual Average Daily Traffic (79)

Begin Point Segment Descriptor (10)

End Point Segment Descriptor (11)

Rural/Urban Designation (20)

#### Local Unpaved Road

#### Roadway Segment

Segment Identifier (12)

Functional Class (19)

Type of Governmental Ownership (4)

Begin Point Segment Descriptor (10)

End Point Segment Descriptor (11)







Data Development Guidance Document

Intersection Data Dictionary

Road Width – based on HPMS Field Manual

# Intersection Data & Services



- Intersections, Road Width & Speed Limit Data on the FTP Server in a file GDB
- Nodes and Node Legs are currently served through ArcGIS Server and will be accessible for editing through a feature service
- ArcGIS Collector Application is available in prototype for editing of nodes and node legs in the field









# Editing Demo

# Next Steps



- VTrans needs to complete the testing and deployment of Collector and the editable feature services
- RPCs will need ArcGIS Online accounts and provide the names to VTrans
- Data links and credentials will be sent to each RPC
- Inventory work can begin

# Questions???









(The Herald, Bob Eddy)



