

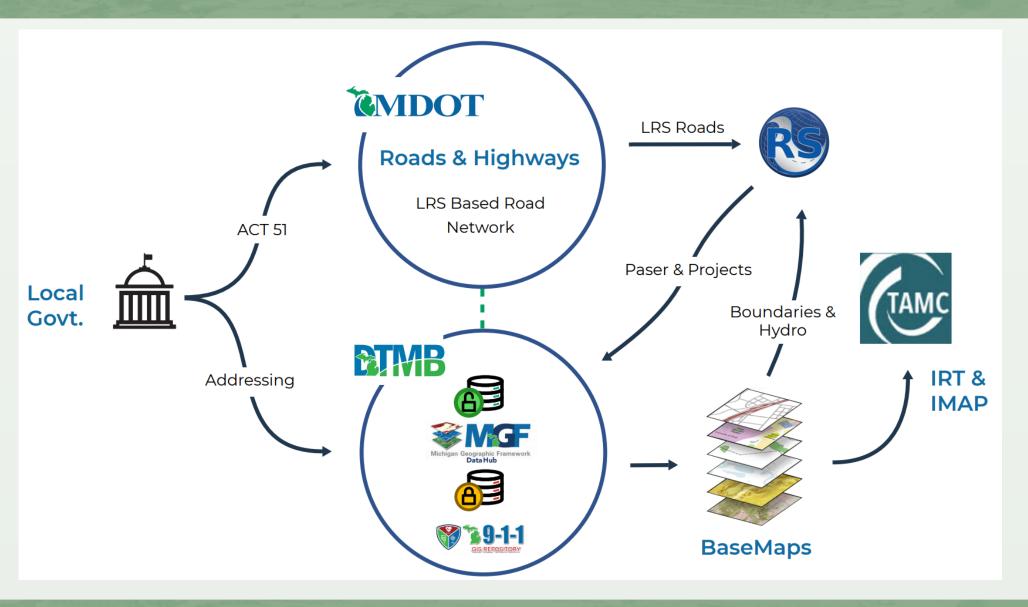


New GIS Technology and Data Flows

GIS Data Flow for Road Network and TAMC Apps





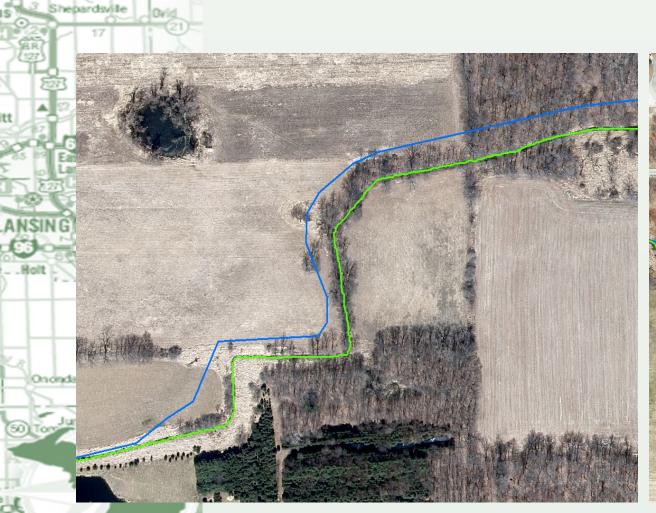






- Kalamazoo River Watershed Pilot Project
 - MSU developing new flow lines based on QL2 LiDAR data
 - Culverts gathering
- Coordinating with USGS on new standards and NHD attributes
- Machine learning being tested
- Benefits to other projects wetlands delineation
- Importance of culverts to provide more accurate results and for future flow modeling











Effects of Missed Culverts and Barriers

Missed culverts result in misplaced flowlines

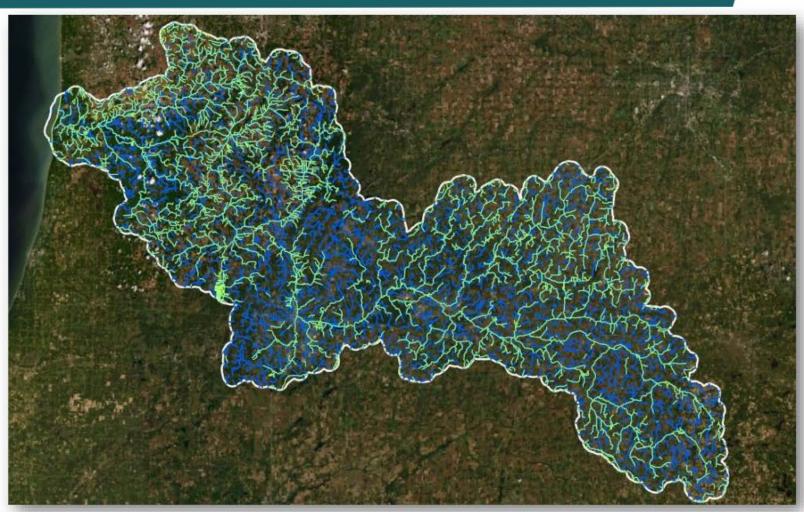








Draft Flowlines



NHD New Flowlines

