

Rebecca Curtis

Deputy Chief Bridge Engineer

2019 Bridge Management User Group

Meeting

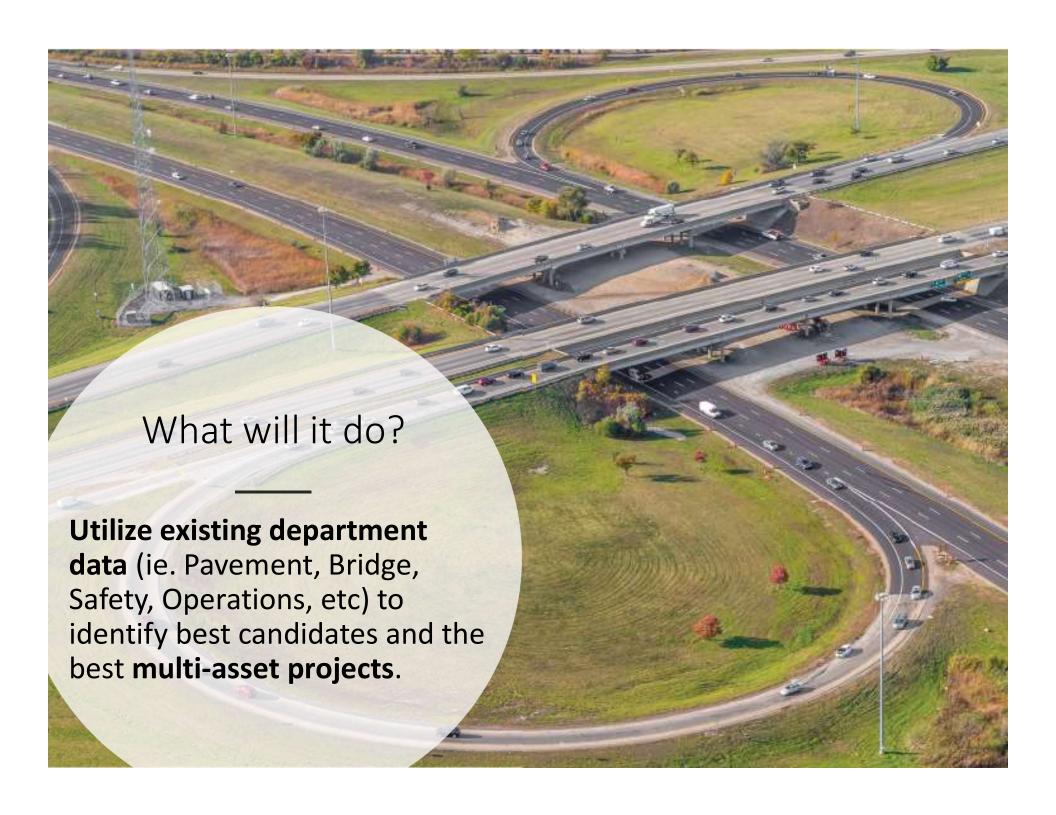


Bridge and Road Management

Leverage existing application and develop a web-based pavement management system that will enable MDOT to manage our pavement assets utilizing the existing BrM software.



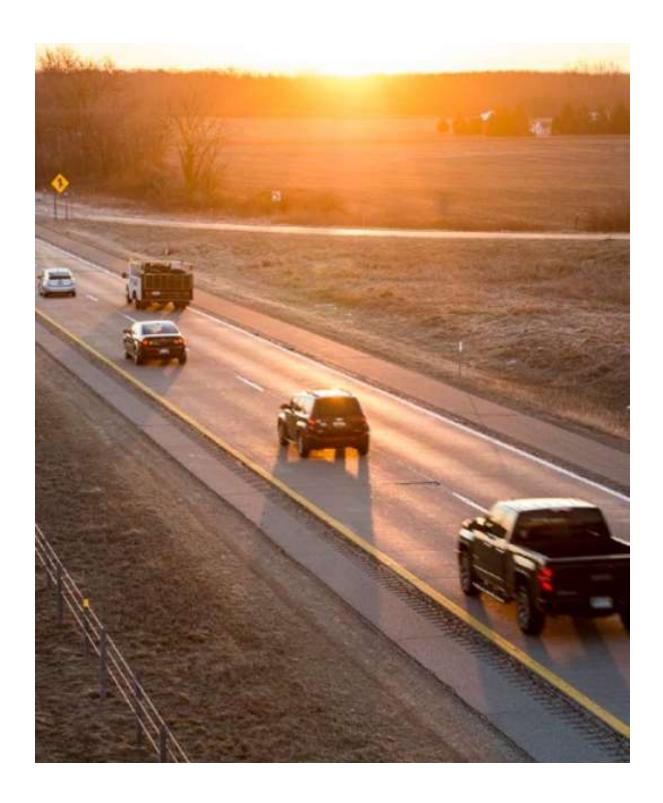






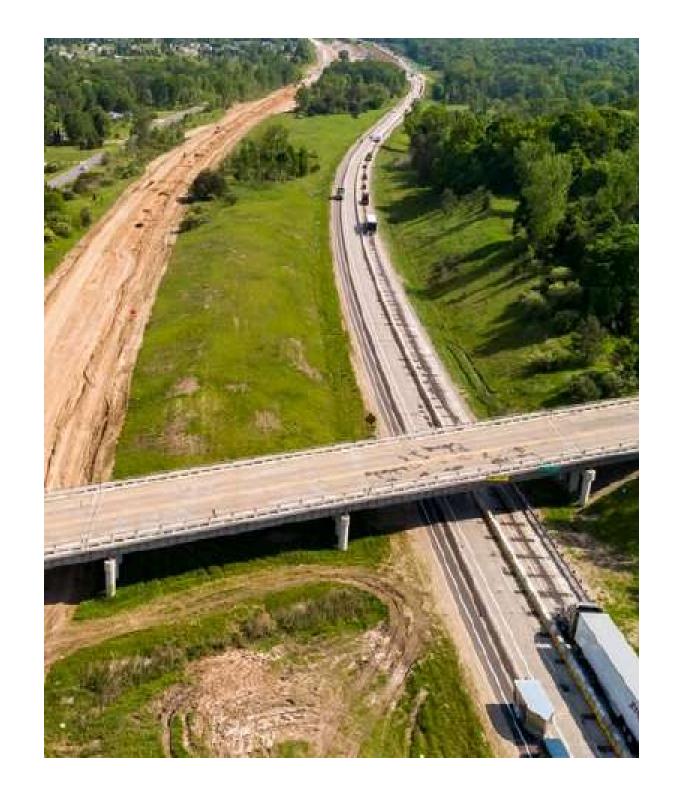
Why is it important?

Core responsibility of the department is to develop a program of projects to maintain our pavement asset.



Why is it important?

- Identify candidate pavement segments
- Identify the best fix for those segments and recommend projects
- Prioritize those projects based on cost/benefit and other factors

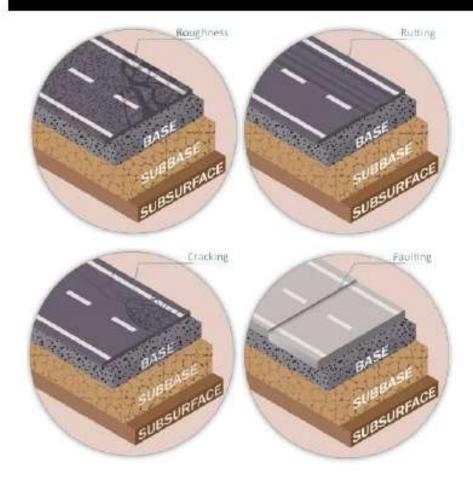


Why is it important?

 Ability to forecast pavement condition and run "what-if" scenarios based not only on RSL, but the new federally mandated pavement metrics (IRI, Cracking, Rutting, Faulting).



Figure 11: Pavement Condition Metrics



Bridge Inspection Enhancements

Leverage existing application and incorporate inspection enhancements into BrM







Michigan.gov Home MiBRIDGE Home I Contact MiBRIDGE | Feedback | Help Icome Rebecca Curtis Jurisdiction: MDOT - Region Bridge Management ▼ Administration ▼ Assignments ▼ Dashboards * Reports ▼ Structure Condition Dashboard rrisdiction ----- Default ------ ▼ Display ructure Inventory Summary Count Structure Condition Summary Count SD/FO Summary Count Total No. of Structures 5,891 *Structurally Deficient 276 Good/Fair (5 or Greater) 5,498 *Functionally Obsolete 1.014 4,486 Highway (NBI) Structures greater than 20' Highway included in NBI 4,205 *Non-Deficient Structures Highway Structures less than 20' 1,098 3,194 Non NBI Structures (<20, RR, Ped, etc.) 1,293 *No Current SD/FO Rating 594 Rail Road Structures (X) 126 Poor (4) 336 Pedestrian Structures (P) 166 **NBI Condition - Goals Summary** Pct. 245 Highway included in NBI Other Non-Highway Structures (V, Plaza) 15 *Good/Fair (5 or Greater) 93.8% Non NBI Structures (<20, RR, Ped, etc.) 91 Additional Bridge Inventory Information Freeway 93.8% Serious/Critical (3 or less) 50 Posted Structures 18 93.8% Non-Freeway Highway included in NBI 31 Closed Structures 24 *Poor/Serious/Critical (4 or Less) 6.2% Non NBI Structures (<20, RR, Ped, etc.) Fracture Critical Structures 81 6.2% Freeway Scour Critical Structures 415 **Unrated Structures** Non-Freeway 6.2% Charlied/Under Construction (S. G.) --- Area and in NRI

- Universal Dashboards
- Hyperlinked Bridge IDs
- Upgraded Maps with conditional information and mapping more bridges
- Data Warehouse



- New Shared Controls Across Inspection Pages
- Generate Crystal Reports
- Mapping
- Multimedia
- Inspection Work Candidates (separate from parallel inspections)
- Stoplight/Rating/Inspection information

- Assign Load Ratings
- Associate Load Ratings to Inspections
- Associate Multimedia with Load Ratings
- Load Rating Customization/Configuration of Fields
- Posting images based on selected posting type





- Associate Multimedia with Defects
- Separate Multimedia from Documents
- Multimedia Context Security
- Multimedia Compression
- User Certifications