IOWA PAVEMENT MANAGEMENT PROGRAM - OVERVIEW

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2018 MUNICIPAL STREETS SEMINAR

November 14, 2018 – Scheman Building (Rooms 220-230)
Iowa State University, Ames, Iowa
AGENDA
IPMP MISSION

- Providing local agencies
  - pavement management information,
  - tools and training
- supporting PROJECT, NETWORK, and STRATEGIC level activities

"IPMP promotes optimal, cost-effective decisions on highway maintenance, rehabilitation, and reconstruction, using accurate past and projected pavement conditions.

IPMP integrates data collection and a database to track the condition of pavements on non-National Highway System (non-NHS) federal-aid-eligible roads. Non-NHS roads may be in state, county, and city jurisdictions."
STRATEGIC LEVEL

- What is the condition of our roads?
- Performance measures and targets
- Funding impacts

TARGET AUDIENCE?

- Elected officials
- Department heads
NETWORK LEVEL

- How much money should we allocate?
- How should we prioritize investments?
- How do we divide up the money?
- What projects should we do, and what year?
- What are the alternatives?
- Delay risk
PROJECT LEVEL

- Preservation, Maintenance or Rehab
  - Last resurfacing - When? What?

- Pavement history

- Performance?
  - How well has this section performed?
  - How are similar projects performing?

TARGET AUDIENCE?

- Project staff
- Maintenance staff
IPMP data is the feedback tool for evaluating previous decisions.

IPMP provides an important knowledge transfer tool for future road managers.
1999 – IPMP design phase is completed.

2002 – 2005 Collected all county paved roads

2013- Statewide collection of all public paved roadways begins
DATA COLLECTION
DATA COLLECTION

- Roughness (IRI) – left, right
- Rutting – left, right
- Alligator cracking – SLMH, sq. feet
- Transverse cracking – SLMH, linear feet
- Longitudinal cracking – SLMH, feet
- Longitudinal wheelpath cracking – SLMH, feet
- Patch – good, bad, sq area
- Patch count
- Failure
- Bearing
- Durability cracking – MH, count
- Joint spalling – count
- Faulting – total joints, faulted joints, average, min, max, cumulative by wheel path
SERVICES

Data Integration

- Processing pavement condition data
  - Surface type
  - Pavement history
  - Additional inventory information
SERVICES

- Pavement condition summary
Video log

Pathweb
http://rams.iowadot.gov/pathweb/
SERVICES

- PMS Software
- Customized dTIMS Setup template
- Training and support
- Historic data
- Engaging stakeholders
- Forecasting

Annual PCI Distribution

Network PCI for Various Budgets
SERVICES

- Peer Exchange
  - Quarterly
  - Training and support

End of Year Workshop

Radisson Hotel Ames Conference Center At ISU
2609 University Blvd, Ames, IA 50010
December 6, 2018

http://ctre.iastate.edu/ipmp/events/
TOOLS

- Project Selection Tool
  - Web-based
  - Customizable
TOOLS

- Historic data download
