

A Need for Better Infrastructure Roads in need of repair are more than just a nuisance; they cause wasted time, fuel, and are more dangerous for users. In lowa, roads are currently graded at a B-, with 24% in poor-fair condition (39% nationwide)² Total U.S. funding gap of \$684 Billion over the next 10 years¹



Why Pavement Management?

- · Cities face a long list of questions that need answered
 - · What is the desired condition of our roadways?
 - How much will it cost to reach/maintain that
 - · What would happen if we spend less?....more?
 - How do we get the most "bang for our buck"?





Why Pavement Management?

A Pavement Management System can help provide answers



Make objective, data-driven decisions for pavement maintenance, rehabilitation, and reconstruction.



Maximize the life of the pavements



Make the most efficient use of scarce public



Make a compelling argument to invest more in pavements



Modern Pavement Management

Pavement Management is NOT: Pavement Management IS:

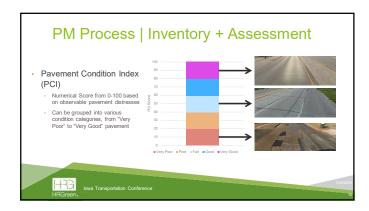
- A specific project or one time plan
- A software program
- Just doing condition
- Something that is done "for" you A collaborative undertaking
- A consistent activity
- A defendable way of prioritizing projects and resources
- Planning for what will be needed and how to pay for it









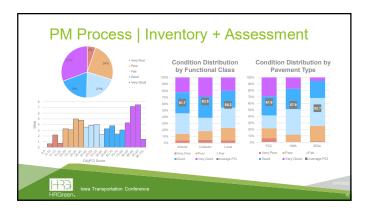


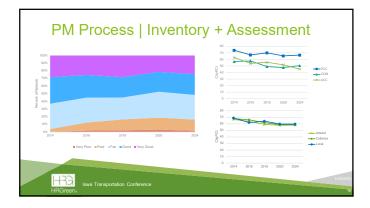
PM Process | Inventory + Assessment I lowa Pavement Management Program (IPMP) provides data to all local jurisdictions in lowa Statewide data collection started in 2013 Data now provided at minimum once every four years



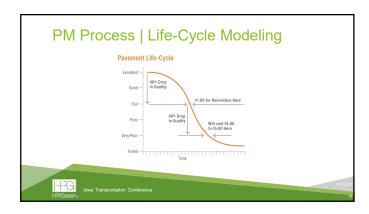


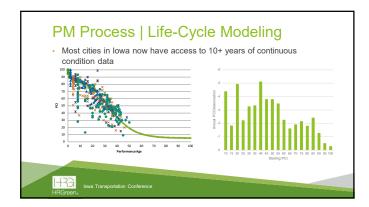




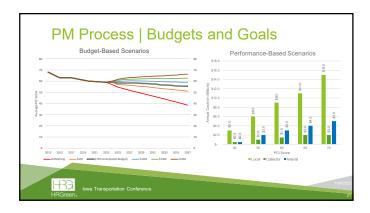


PM Process | Software Solutions Software can be used to analyze the entirety of a given street network through: Performance Modeling and Scenarios Projections based on desired performance and available funding Prioritizing improvements TIMS (IPMP Preferred), StreetSaver, Paver, and OpenGov (formerly Cartegraph) are all common





PM Process Treatments + Triggers . What treatments are available, and on which streets can they be applied? . How much do they cost, and what are the results of the treatments? . How much do they cost, and what are the results of the treatments? . How much do they cost, and what are the results of the treatments? . What treatments are available, and on which streets can they be applied? . How much do they cost, and what are the results of the treatments? . What treatments are available, and on the same of the street of th





PM Process | Capital Improvement Plan Typically, 5 to 15-year plan recommending projects, treatment type, and estimating costs Most efficient selection of projects based on available funding and chosen priorities How should projects be prioritized? Condition AADT (Traffic) Functional Classification Precincts/Council District

PM Process | Performance Metrics • Pavement Management is a Process – "Living Documents" • Measure performance over time, track against goals • Works best when plans adjust to meet changing needs of system • Compare to projections and ask questions



