



Pavement & Bridges

Conference Track Summary

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9th National Conference on Transportation Asset
Management

Innovative Approaches I

- Assessing and incorporating risk for determining transportation system needs
- Using explicit methods in trade off analysis to allocate funding between asset types
- Improved organizational change management using process analytics
- Considering climate change and environmental impacts on the function and vulnerabilities of transportation assets

Innovative Approaches 2

- Technology advancements in data collection and communicating the benefits of preservation
- Performance measures and data to inform decision making
- Incorporation of Multi-Objective optimization in TAM
- Asset data integration

Action Items I

- Synthesis/Research on trade off analysis methods
 - Identify effective performance goals
- Further development of risk and uncertainty to inform TAM decision making
- Driving organizational changes
- Further development of utility/value functions to improve TAM tools
- Integrate the results of TAM into the decision making process

Action Items 2

- Compare and optimize the use of life cycle cost versus Association Rules Mining to select treatment strategies
- Research on how IRI changes with time (seasonally).
- Validate the stochastic model in comparison with other models
- Develop and incorporate high level asset management behaviors in P3 contracts
- Develop definitive climate change impact predictive analytics
- Refine service life assessment methods and service targets for treatments and assets for better TAM condition predictions