

# Research





# Brainstorming Topics

- Clearinghouse
- State of the practice
- Test section(s) for MnROAD (pooled fund)
- Remaining Service Life (structural and functional)
- Condition Indices
- QC/QA for Maintenance

# Brainstorming Topics cont.

- Treatment effectiveness
- Treatment selection tools
- Project scoping-selection
- Network and project level strategy development
- Collection of region-wide performance data for fixes (pavement condition before and with time after fix)
- Normalization of condition data to aid communication

# Brainstorming Topics cont.

- Literature search of mid-west preventive maintenance research and list for access by all
- Integration of pavement preservation into Asset Management
- Impact of centralized versus decentralized (fragmented) organizations on decision making
- Update on automated construction, inspection, and condition assessment equipment (wireless, GPS, etc.)
- Expert system decision tool

# Top Three after Grouping and Ranking

#3 -- Collection of region-wide performance data for existing fixes (pavement condition before and with time after fix) with maybe additional test section(s) for MnROAD (pooled fund). Normalization of the condition data is needed to aid communication among agencies.

# Top Three after Grouping and Ranking

#2 -- Establishment of a clearinghouse for information regarding the state of the practice, specifications, manuals, etc. and a literature search and posting of midwest preventive maintenance research. (Note that this flows out of the #3 effort.)

# Top Three after Grouping and Ranking

#1 -- Development of an expert system with network and project level strategy development, project selection and scoping, and treatment selection tools (right fix for the right road at the right time).

**Questions?**

# CLEARINGHOUSE

- State of the practice
- Specifications
- Materials
- Procedures/Manuals
- Literatures
- Education/Short Courses

# EXPERT SYSTEM

- Network and project level strategies
- Project scoping process (evaluation, distress types, causes of distress, Candidate fixes, cost, preferred action) leading to the right fix for the right road at the right time.
- time.