Pavement Rehabilitation Selection
Background Information
Workshop Definitions

- Pavement or Pavement Structure
  - Wearing surface layers
  - Base
  - Subbase
  - Subgrade
Workshop Definitions

• **Maintenance & Preservation**
  – Well timed activities to extend pavement life
  – Some examples include:
    • Crack Treatments
    • Surface Treatments
    • Pothole Patching and Repair
  – This topic is covered in other LTAP classes:
    • Asphalt Pavement Maintenance and Preservation
    • Concrete Pavement Rehabilitation for Local City Street and County Roads
Workshop Definitions

- **Rehabilitation & Reconstruction**
  - The restoration of pavement serviceability
  - Some examples include:
    - Cold In-place Recycling
    - Full Depth Reclamation
    - Bituminous Overlay
    - Concrete Overlay
    - Total Reconstruction
Workshop Definitions

Pavement Life Cycle

- Routine Maintenance
- Pavement Preservation
- Defer Action
- Rehabilitation
- Reconstruction

PSI (Pavement Serviceability Index)

Years

LRRB Pavement Rehabilitation Selection
Workshop Assumptions

- The minimum acceptable level of serviceability has been reached and/or it is no longer cost-effective to perform maintenance activities on the pavement.
- You need to select a rehabilitation strategy for the pavement.

What do you do?
Workshop Objective

To provide a general overview to help you select the most appropriate and cost-effective rehabilitation technique for your pavement.
Workshop Resources

Local Road Research Board
LRRB – www.lrrb.org

Minnesota Department of Transportation
Mn/DOT – www.mrr.dot.state.mn.us/research/mnresearch.asp

Federal Highway Administration
FHWA – www.fhwa.dot.gov/pavement

Pavement Interactive Website - www.pavementinteractive.org

Minnesota Local Technical Assistance Program
MN LTAP – www.mnltap.umn.edu
Workshop Resources

American Concrete Pavement Association
ACPA - [www.pavement.com](http://www.pavement.com)

Asphalt Recycling and Reclaiming Association
ARRA – [www.arra.org](http://www.arra.org)

Concrete Paving Association of Minnesota
CPAM – [www.concreteisbetter.com](http://www.concreteisbetter.com)

International Grooving and Grinding Association
IGGA – [www.igga.net](http://www.igga.net)
Workshop Resources

Minnesota Asphalt Pavement Association
MAPA – www.asphaltisbest.com

National Asphalt Pavement Association
NAPA – www.hotmix.org

National Center for Pavement Preservation
NCPP - www.pavementpreservation.org

National Concrete Pavement Technology Center
CP Tech Center – www.cptechcenter.org

Transportation Engineering and Road Research Alliance
TERRA – www.terraroadalliance.org