LTPP
Long Term Pavement Performance
Today and in the Future

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FHWA - LTPP
LTPP’s GOAL is... to provide answers to **HOW** and **WHY** pavements perform as they do!
LTPP Today
Where Are We

– Data Collection is ongoing
  • FWD
  • Profile
  • Distress
  • Materials on Overlays
  • Traffic Data
  • Traffic Control from States

– Data Analysis is ongoing

– Product Development
Deputy Administrator Gregory Nadeau stated this document expresses "FHWA’s view of work that will be needed beyond 2009 to realize the full potential of the program."
The additional work is identified in four main areas:

– Provide ongoing security and maintenance of the LTPP database and manage the MRL
– Continue to support LTPP database users
– Further develop the LTPP database including additional data collection and database refinements
– Continue data analysis and product development
Provide Security & Maintenance of the LTPP Database

- Secure storage of backup copies of all the databases and updates to the software and hardware.
- Continue to maintain the MRL AASHO Road Test Data
Support Users of the LTPP Database

- Technical support is key to users of the LTPP database
  - Support takes several different forms
    - Answer user questions
    - Face-to-face interaction
    - Custom extractions
    - Training for government agencies
      - Professor training workshop
    - University students working on their theses
  - Over 5000 requests
Further Develop the LTPP Database

1. Test Section Monitoring

2. Database Refinements
Test Section Monitoring

- 950 test sections remain active
- SPS-2 in service for fewer than 15 years
- 155 - GPS-6 & 7 AC overlay on AC & PCC
- SPS Traffic Data Collection
- Capture the final performance
Database Refinements

- Internet accessibility
- Consolidation of data tables
- Additional computed parameters
  - Layer moduli derived from deflection data
- Ready-to-use analysis data sets
- Electronic documentation
- Data visualization
- Time history data sets
Continue Data Analysis and Product Development

• Data Analysis
  – LTPP Strategic Analysis Plan provides the framework
  – Updates
  – ~60 projects completed 300 research papers
  – Much more remain to be done
Continue Data Analysis and Product Development

• Product Development
  – LTPP has created many products during the course of its mission:
    • Distress Identification Manual (DIM)
    • FWD Calibration Procedures
    • LTPPBind
    • Pavement Manuals of Practice
    • ProVAL
    • LTPP*
    • DataPave Online
New Experiments

- Approved by FHWA
  - Long Term Performance of Warm Mix
  - Long Term Performance of Pavement Preservation
LTPP’s Partners

State DOTs

AASHTO
The Voice of Transportation

TRB

USA DOT

C-SHRP

LTPP

Long Term Pavement Performance
Questions?

Comments?

Issues?