Update on FHWA’s Long Term Bridge Performance Program

Contact: Rob Zobel, Ph.D., P.E.
FHWA LTBP Program Coordinator

Presenter: Ben Graybeal, Ph.D., P.E.
FHWA Team Leader: Bridge Engineering Research
Long-Term Bridge Performance Program

**LTBP Program Focus Areas – Near Term**

**Data Collection**
- Untreated Bridge Decks
- Treated Bridge Decks

**Programmatic Support**
- Coordination, protocol development, bridge portal, gap analyses, etc.

**Data Access**
- Provide data access via LTBP Bridge Portal
Third round – 2 Mid-Atlantic Clusters (Spring 2017)

First round – 4 clusters NW, SW, Gulf (2) – Complete

Initiate Data Collection in Clusters/Corridors Nationally – (Late 2017 – Early 2018)
Untreated Decks
- 4 clusters in NE region
  - > 400 Bridges - Data Collection/Extraction Complete
- 10 Corridors, 10 Clusters
  - > 1200 Bridges - Data Collection/Complete Summer 2017

Treated Decks
- Legacy Data Mining for Treated Decks
  - Initiate Late 2017
### LTBP Bridge Breakdown

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**Near Term Data Collection Focus**
Long-Term Bridge Performance Program

Program Focus Areas – Data Collection

LTBP Bridge Breakdown

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Studies for Development of Protocols in Progress
Legacy Data Mining to Begin Soon

Preparation for Data Collection for Treated Bridge Decks
Long-Term Bridge Performance Program

Program Focus Areas – Data Access

- The LTBP Bridge Portal has been updated and is currently available
- Update includes search enhancements, modeling updates, new user interface features, and data updates
- NBI and NBE, Legacy Data, and LTBP Deterioration Modelling Implemented

Near Term Emphasis
- Standardize Updates
  - NBI/NBE/Environmental LTBP Field Data
- Improve Accessibility
- Maintain Functionality

Next Major Update
Expected in Summer 2017

Access Questions? Contact Rob Zobel (robert.zobel@dot.gov)
**Long-Term Bridge Performance Program**

**Program Focus Areas – Programmatic Support**

- Coordination meetings with states, FHWA, contractors, subcontractors, etc.
- Quality Assurance of Raw and Analyzed Data
- Communication and Dissemination
- Strategic Research Matrices
- Bridge Deck Performance Analysis and Modeling
- Development/Refinement of Protocols (Treated Decks, LT Monitoring)
- Assessment of ND and SHM Technologies
- Data Gap Analyses (untreated and treated decks, joints, bearings)
Implementation ....... Two New Contracts:

Programmatic Support

Technical Support Services Contract (TSSC) – recently awarded

Field Data Collection Support

Data Collection Contract – proposals received – expected to be awarded Summer 2017
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