SHRP 2 R04

Innovative Bridge Designs for Rapid Renewal

Project Update

Presented to: AASHTO Subcommittee on Bridges and Structures

July 8, 2009
Project Objectives

- Rapid renewal
- Design and construction
- Complete bridge systems
Project Deliverables

- Tool Box of Options
- Specifications
- Demonstration

UNCLE SAM NEEDS YOU
Project Strategy

Balance - Two sides of the Coin

- Proven technology
- Innovative concepts
THREE PHASES

- Define
- Develop — Promising New Concepts
- Deploy
FOUR TASKS

Task 1 – What has been done?
Task 2 – What are the challenges?
Task 3 – Design Concepts?
Task 4 – Construction Concepts?
UNCLE SAM NEEDS YOU

- Owner Surveys
- Contractor - Fabricator Surveys
- On your Table
Focus Group Telecons

- Owners - July 20th
- Contractors by August 10th –

Workshop – September 10

- Kansas City
- Promising new concepts
DEVELOP CONCEPTS

SUPERSTRUCTURES

- Steel composite systems
- Precast systems
DEVELOP CONCEPTS

SUBSTRUCTURES

- Piers (No caps)
- Abutments
- Walls
DEVELOP CONCEPTS

FOUNDATIONS

- Micropiles
- Shafts
- Eliminate Pile Caps
CONSTRUCTION TECHNOLOGY

- Gantries
- Straddle carriers
PHASE III - DEPLOYMENT

- Demonstration Project
- Tool Box of Options
- LRFD Specifications
WE NEED YOU!

- Collaboration
- Creativity
- Opportunity