STRATEGIC INITIATIVE: Every Day Counts

Rich Barrows, PE
WFLHD
Daniel Commission Projects
FHWA EDC Launch

- Victor Mendez, FHWA Administrator, AASHTO Announcement May 2010
- Refinement and Performance Metrics
- Summits, Partnerships, Deployment
FHWA Every Day Counts Initiatives:

“Identify and deploy innovative techniques and technology to help the highway community meet the needs of the 21st century transportation system and economy.”

- Shortening Project Delivery
  - (Gloria Shepherd & King Gee)

- Accelerating Technology & Innovation Deployment
  - (Amy Lucero & Michael Trentacoste)

- Going Greener (internal to the FHWA)
  - (John Baxter & Pat Prosperi)
EDC: Shortening Project Delivery FLH Initiatives

- Design-Build
- Construction Manager / General Contractor at Risk
- Expanding Use of Programmatic Approaches
- Flexibilities in Utility Accommodations & Relocation
EDC Technologies for Tribal Roads

- Warm Mix Asphalt
- Safety Edge
- Prefabricated Bridge Elements
- GRS
Warm Mix Asphalt Benefits

- Lower batch temperatures
- Reduced greenhouse gas emission
- Longer haul times
- Longer compaction time
- Cost savings
Warm Mix Asphalt Goals

- National: 40 DOTs & FLH have specifications by 12/11
- FLH: 25% use on qualifying jobs
Safety Edge Benefits

- 30-35 degree angle eliminates edge drop off
- Allows run-offs to safely recover
- Reduces accidents
- Minimal cost
Safety Edge Goals

- National: 40 DOTs have used, and 15 DOTs & FLH have adopted by 12/11
- FLH: 80%+ on qualifying jobs
Prefabricated Bridge Elements & Systems Benefits

- Higher quality of materials
- Faster on-site construction
- Less disruption to traffic
- Potential cost savings
Prefabricated Bridge Elements & Systems Goals

- National: Use on 100 bridges by 12/12
- National: 25% of bridges use at least one major element to shorten time
- FLH: 5 Structures
Geosynthetic Reinforced Soil – IBS Benefits

- Aesthetically pleasing face
- Ease of light weight construction: small blocks, fabric, layered soil
- Eliminates girder bearing pads, and back walls
- Fast to construct
- Cost savings
Benefits: Non-Specialized Labor
Open to Traffic - 47 days
Geosynthetic Reinforced Soil – IBS Goals

- National: 20 DOTs have specifications by 06/12
- National: Use on 75 off-NHS bridges by 12/12
- FLH: Support National Goals
EDC Summit Invitees

State DOT
- Construction Engineer
- Planning Manager
- ROW Engineer
- Environmental Manager
- Project Development /Design Engineer
- Bridge Engineer
- Traffic / Operations Engineer
- Safety Engineer
- Materials / Pavement Engineer
- Chief Engineer
- Utilities Engineer
- Chief Counsel

Others
- LTAP/TTAP Representative
- USF&W
- BIA
- USACE
- EPA
- NACE
- APWA
- AGC/ARTBA
- MPO
- ACEC
- Forest Service
- National Park Service
- FHWA Division Administrator
- FHWA FLH Division Engineer
- FHWA EDC Representative