Introduction to FHWA
FHWA Current Initiatives

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Today’s Topics

- FHWA New Organizational Structure
- Every Day Counts-4 (EDC-4) Initiatives
- Risk Based Stewardship and Oversight (RBSO)
FHWA Organization

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EVERY DAY COUNTS (EDC)
§1444 Every Day Counts Initiative – WHY?

(a) IN GENERAL.—It is in the national interest …—

(1) to identify, accelerate, and deploy innovation aimed at shortening project delivery, enhancing the safety of the roadways of the US, and protecting the environment;

(2) to ensure that the planning, design, engineering, construction, and financing of transportation projects is done in an efficient and effective manner;

(3) to promote the rapid deployment of proven solutions that provide greater accountability for public investments and encourage greater private sector involvement; and

(4) to create a **CULTURE OF INNOVATION** within the highway community.

(b) EVERY DAY COUNTS INITIATIVE.—…to identify and deploy proven innovative practices and products that—

(1) accelerate innovation deployment;

(2) shorten the project delivery process;

(3) improve environmental sustainability;

(4) enhance roadway safety; and

(5) reduce congestion.

(c) INNOVATION DEPLOYMENT.—

(1) IN GENERAL.—At least every 2 years, the Administrator shall work collaboratively . . .
Every Day Counts
Better, Faster, Smarter

EDC-1 (2011-2012)

Adaptive Signal Control Technology
Clarifying Scope of Prelim Design
CM/GC
Design-Build
Enhanced Technical Assistance
Environmental Impact Statements
Flexibilities in Right-of-Way
Flexibilities in Utility
GRS-IBS
Planning and Environmental Linkages
Prefabricated Bridge Elements and Systems
Programmatic Agreements
Safety Edge™
Use of In-Lieu Fee & Mitigation
Warm Mix Asphalt
3D Engineered Models for Construction
Accelerated Bridge Construction (ABC)
CM/GC
Design-Build
Alternative Technical Concepts (ATC)

Geospatial Data Collaboration
High Friction Surface Treatments
GRS-IBS
Implementing Quality Environmental Doc
Intelligent Compaction

Programmatic Agreements
Intersection & Interchange Geo.
Locally Administered Federal-Aid Projects
National Traffic Incident Management Responder Training (SHRP2 L12)
Every Day Counts
Better, Faster, Smarter

EDC-3 Overview Video
3D Engineered Models
Data-Driven Safety Analysis
e-Construction

eNEPA and IQED
Geosynthetic Reinforced Soil-Integrated Bridge System
Railroad Coordination
Regional Models of Cooperation

Road Diets
Smarter Work Zones
Stakeholder Partnering
Ultra-High Performance Concrete Connections
Center for Accelerating Innovation

Have Completed Round EDC-4 Selections

EDC-1
2011-2012
14
Innovations

EDC-2
2013-2014
13+
Innovations

EDC-3
2015-2016
12+
Innovations

EDC-4
2017-2018
11 Innovations:
- Automated Traffic Signal Perf. Measures
- Collaborative Hydraulics
- Community Connections
- Data-Driven Safety Analysis
- e-Construction and Partnering
- Integrating NEPA and Permitting
- Pavement Preservation
- Weather-Savvy Roads
- Safe Transportation for Every Pedestrian
- Ultra-High Perf. Concrete Connections
- Data to Improve Traffic Incident Mgmt.

https://www.fhwa.dot.gov/innovation/everydaycounts/edc_4/
Data-Driven Safety Analysis (DDSA)

• More sound approach to allocating resources
  ○ Save lives… fewer & less severe crashes
Pavement Preservation (When, Where, and How)
at the right time (when),
on the right project (where),
with quality materials and construction (how)

critical investment strategy to help meet pavement performance expectations
e-Construction and Partnering: A Vision for the Future

• ... take advantage of e-Construction technologies to enhance partnering among the project team
  o improve communications and workflow for the efficient delivery of projects in the electronic age
“Culture of Innovation”

-- Where are the opportunities to accelerate innovation in your organization?
RISK BASED STEWARDSHIP AND OVERSIGHT (RBSO)
RBSO: Improvements Through “Enhanced” Federal-State Partnership

• Federally assisted, state administered program
• Risk assessments are completed in partnership
• State DOTs can share in S&O responsibilities that manage risk to Federal program objectives
Key Terms

**Risk:** Effect of uncertainty on objectives

**Risk Management:** Standard process to focus resources, strengthen program management, and improve communications to manage risk

**Stewardship:** Ensure efficient and effective use and management of Federal-aid highway funds

**Oversight:** Ensure program and project compliance with Federal laws and regulations
Reasons for RBSO: The Shifting Federal S&O Role Over Time

Responsibility remains with NDDOT Authority/Oversight remains with FHWA
FHWA RBSO Involvement Principles

The ABCDs

- Added Value
- Based on Risk
- Consistent
- Data-Driven
Balancing Resources and Risk

S&O Objectives (Program vs. Project):

• Effective and Efficient Project Delivery
  o Projects of Division Interest (PoDI)

• Program Compliance
  o Compliance Assessment Program (CAP)

Program and Project Involvement

National and Local Risks

National and Division

RBSO
Questions?

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