

ACCELERATING INNOVATION

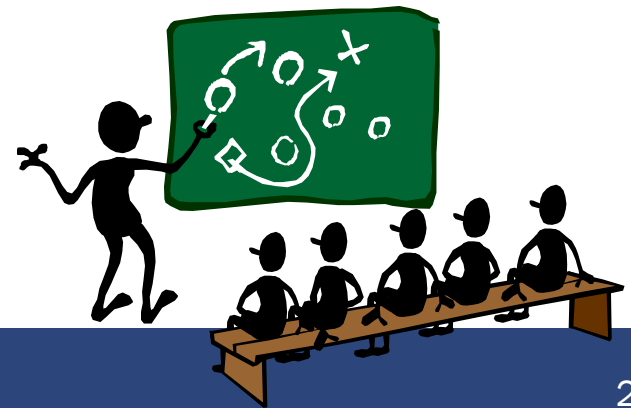
June 24, 2014

Matthew Hake, PE

Vermont Division Administrator
Federal Highway Administration

Agenda

- **Every Day Counts (EDC 1, 2, and 3)**
- **STIC Incentive Program**
- **Demonstration Program**



What Exactly is Every Day Counts?



Focused, State-based approach for rapid deployment of proven innovations

Humble Beginnings

Market-Ready Technology List

Example:

- Rumble Strips used since 1952 on NJ's Garden State Parkway
- 2001 – Added to Market-Ready Tech. List
- 2008 – Removed from List

The Original EDC

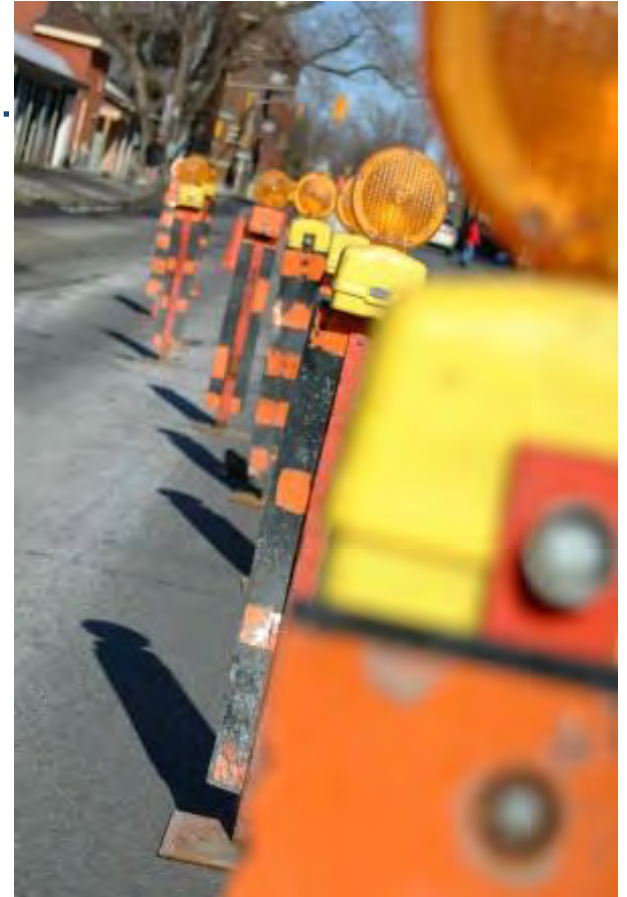
“It is my goal to reach out and engage FHWA employees as well as external stakeholders to deliver innovation that will enable us to become faster, better and smarter.”

Victor Mendez (FHWA Admin)

Original EDC Focus Areas (2011-2012)

Shortening Project Delivery

- Planning and Environmental Linkages
- Programmatic Agreements
- Mitigation Banking
- In Lieu Fees
- Legal Sufficiency
- Scope of Preliminary Design
- Utility Accommodation
- Flexibilities in Right of Way
- Enhanced Technical Assistance
- Design Build
- Construction Manager /General Contractor (CM/GC)



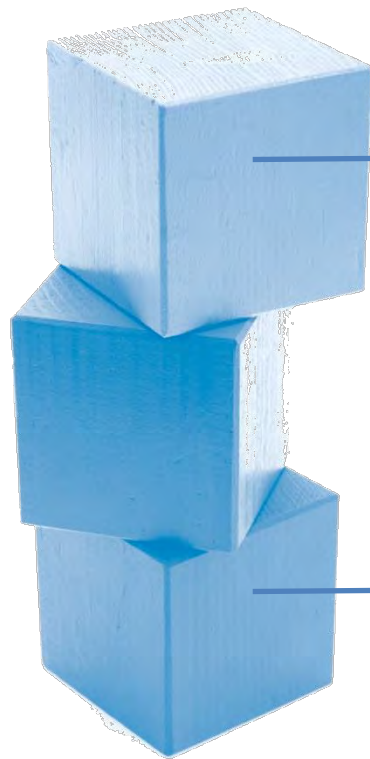
Original EDC Focus Areas (2011-2012)

Accelerating Technology Deployment

- Safety Edge
- Warm Mix Asphalt
- Geosynthetic Reinforced Soil Integrated Bridge System (GRS-IBS)
- Adaptive Signal Control
- Prefabricated Bridge Elements and Systems



Building on our Achievements



EDC-2

(2013 – 2014)

- Reducing Project Delivery Time
- Reducing Construction Time
- Innovative Contracting
- Safety
- Environment
- Mobility

EDC-1

(2011 – 2012)

- Shortening Project Delivery
- Accelerating Technology Deployment

EDC-2 Focus Areas (2013-2014)

**Shortening Project Delivery
Reducing Construction Time
Innovative Contracting**

- 3D Engineered Models for Construction
- Accelerated Bridge Construction
- Alternative Technical Concepts
- Construction Manager / General Contractor (CM/GC)
- Design Build
- Intelligent Compaction
- Locally Administered Federal-Aid Projects
- Programmatic Agreements



EDC-2 Focus Areas (2013-2014)

Environment Mobility Safety

- Geospatial Data Collaboration
- High Friction Surface Treatments
- Implementing Quality Environmental Documentation
- Intersection and Interchange Geometrics
- SHRP2 Incident Management Responder Training

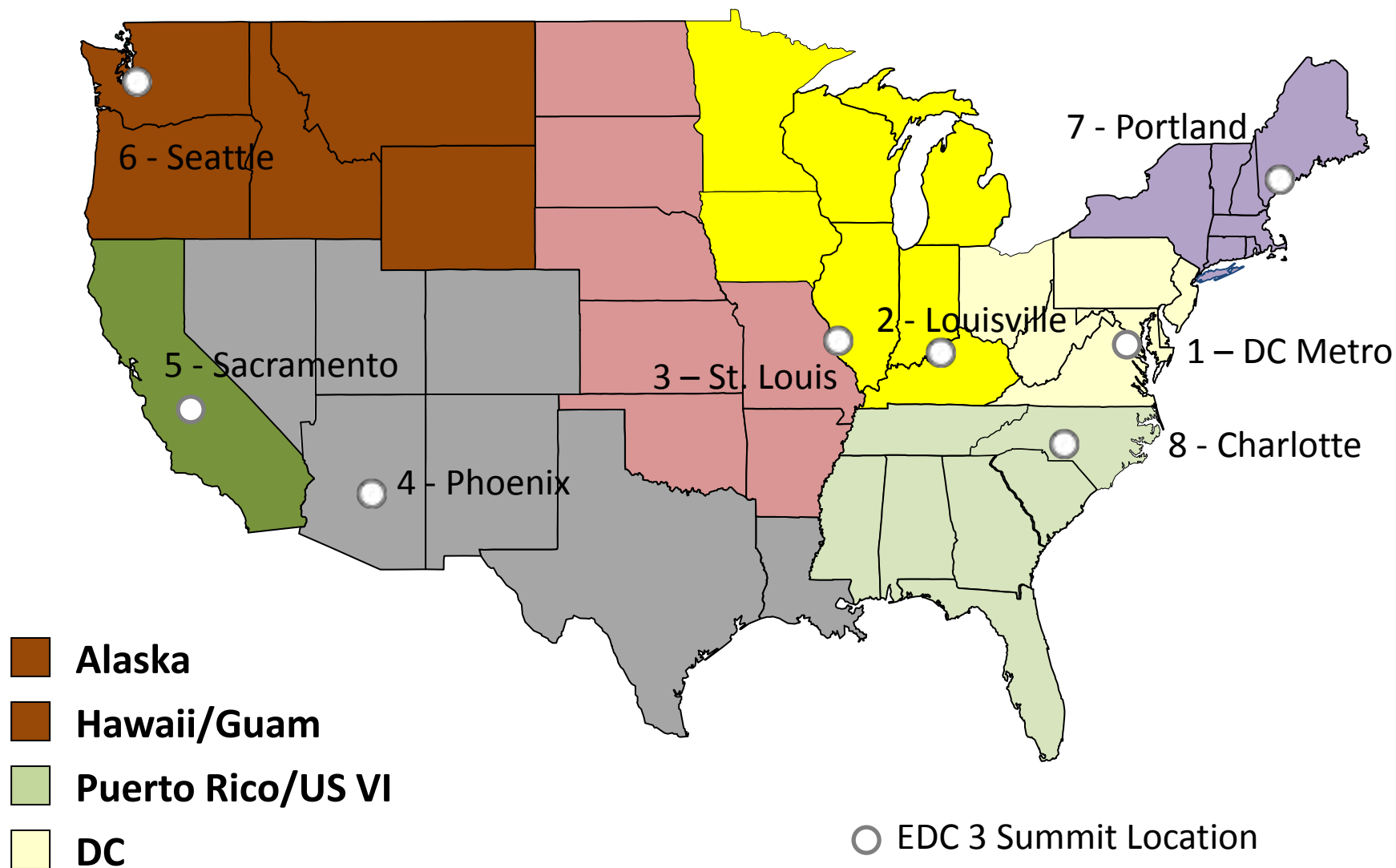


EDC-3 (2015-2016)



- Started with over 100 ideas from solicitation
- Settled on 11 innovations
- 8 Regional summits to introduce and discuss innovations this fall (Oct/Nov)

EDC-3 Regional Summit Locations



EDC-3 Focus Areas (2014-2015)

Shortening Project Delivery

- Regional Models of Cooperation
- Locally Administered FA Projects – Stakeholder Partnerships
- 3D Engineered Models
- Improving DOT and Railroad Coordination
- Accelerated Bridge Construction; Geosynthetic Reinforced Soil – Integrated Bridge System
- E-Construction: Electronic Project Document Management System



EDC-3 Focus Areas (2014-2015)

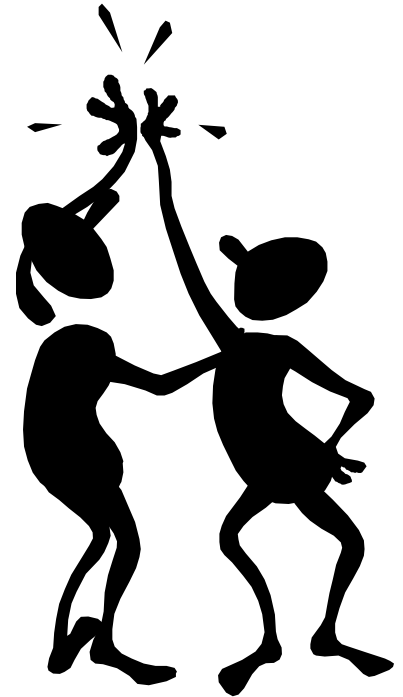
Mobility Safety Quality Environment

- Smart Work Zones
- Data-Driven Safety Analysis
- Road Diets (Roadway Configuration)
- Ultra-High Performance Concrete Connections for Pre-Fabricated Bridge Elements
- e-NEPA Implementing Quality Environmental Documentation

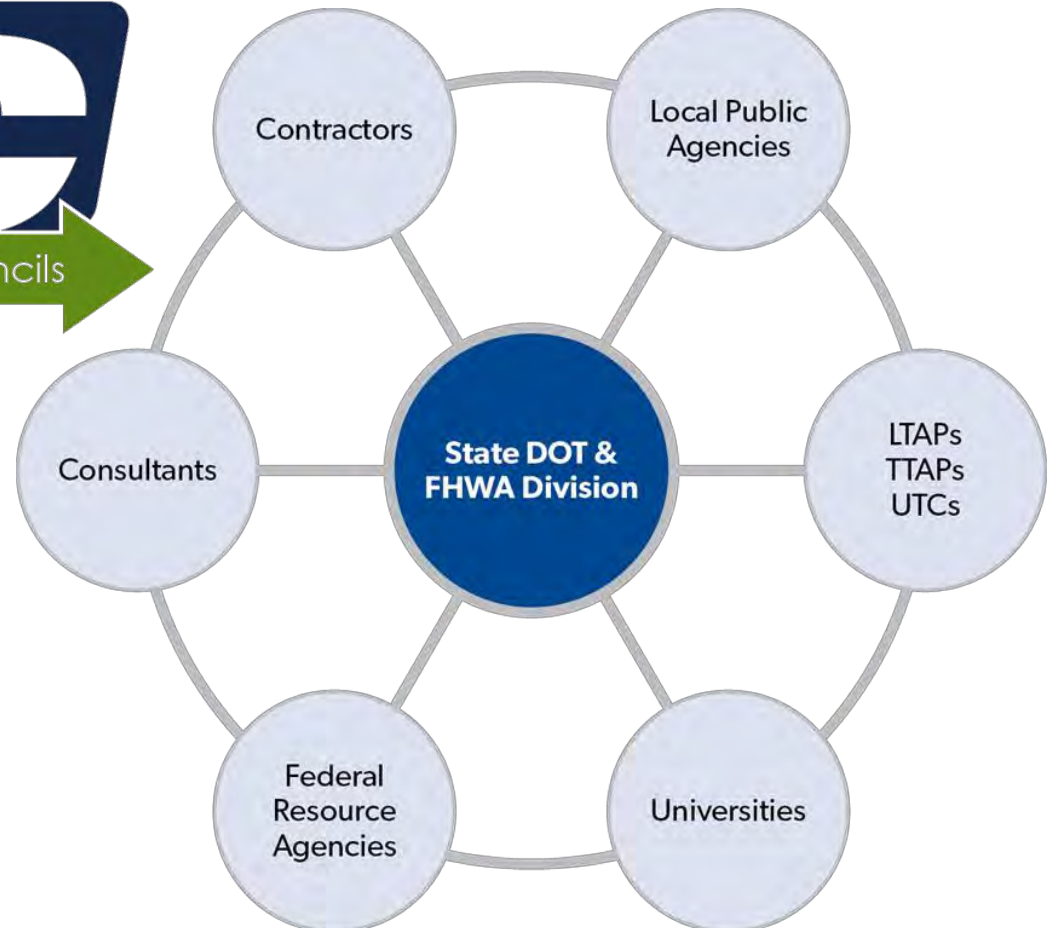


EDC Results

- ✓ Accelerating Innovation Deployment
 - ✓ Shortening Project Delivery
 - ✓ Protecting the Environment
 - ✓ Enhancing Safety
- ✓ Creating an Innovation Culture



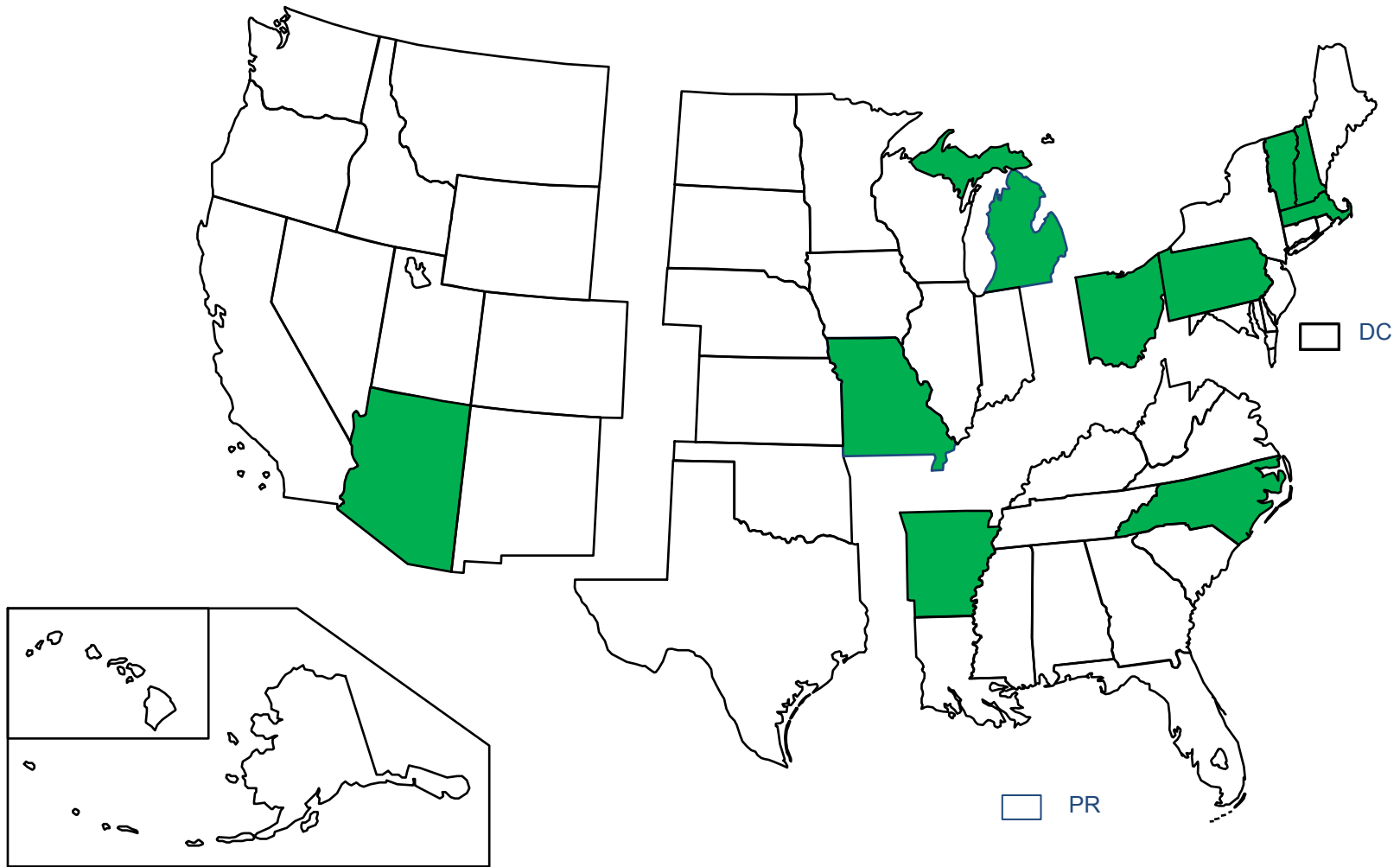
Creating an Innovation Culture



STIC Incentive Program

- Up to \$100,000 available to each STIC per year
- Fund activities which will have a statewide impact on making an innovation a standard practice
- Example activities include: developing standards and specifications, preparing SOPs or technical guidance, developing/delivering training, etc.

STIC Incentive Allocations



AID Demonstration Program

- Notice of Funding Availability published in Federal Register on February 19, 2014
- Incentive funding to offset risk of using an innovation on a project
- Eligible projects may be in *any* aspect of **highway transportation** including:
planning, financing, operation, structures, materials, pavements, environment, and construction.
- Project must be ready to initiate within 6 months

AID Demonstration Program

- Award amount may be full cost of innovation on project, up to a maximum of \$1,000,000
- Application process through www.grants.gov using an open, rolling solicitation
- State DOTs (MPOs and local governments), Federal Land Mgmt. Agencies, and tribal governments are eligible
- Monitoring, assessment, and technology transfer commitments

For More Information...

Accelerating Innovation Web Site

www.fhwa.dot.gov/accelerating/



Thank You!

Matthew Hake, PE

Division Administrator

Federal Highway Administration

Federal Building

87 State Street

Montpelier, VT 05601

(802) 828-4423

matthew.hake@dot.gov