



# EDC-2 Baseline Report

EDC-2 National Goals



**Center for Accelerating Innovation**

October 2013

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# EDC-2 Baseline Report

Every Day Counts is an initiative designed to identify and deploy market-ready innovations that deliver high-quality transportation projects, shorten project delivery, save time and resources, enhance safety, protect the environment, and save precious energy—key goals of the Federal Highway Administration. Specific innovations are selected for deployment over a two-year period, the second such group of innovations, or “EDC-2,” are the focus of this report.

The purpose of this document is to present the national goals for each of the EDC-2 innovations. The national goals are based on the baseline profiles that were completed by the FHWA Division Offices in June 2013.

The graphs on the following pages show the implementation progress of the innovation. It is comparing the state of the practice prior to EDC-2 (Baseline) with where the States want to be in two years (2 year Goal).

## Definition of the Innovation Deployment Stages

**Opt-Out of EDC:** The \*State is not selecting the innovation as an EDC initiative. The innovation is not applicable to the State. The State is not interested in pursuing this innovation.

**Pre-Demonstration:** Learning more about the innovation, actively gathering best practices, building support with partners and stakeholders.

**Demonstration:** Testing/piloting the innovation.

**Post-Demonstration:** Making adjustments to prepare for full deployment, adopting the innovation as a tool in the toolbox, process in place to include innovation as standard practice.

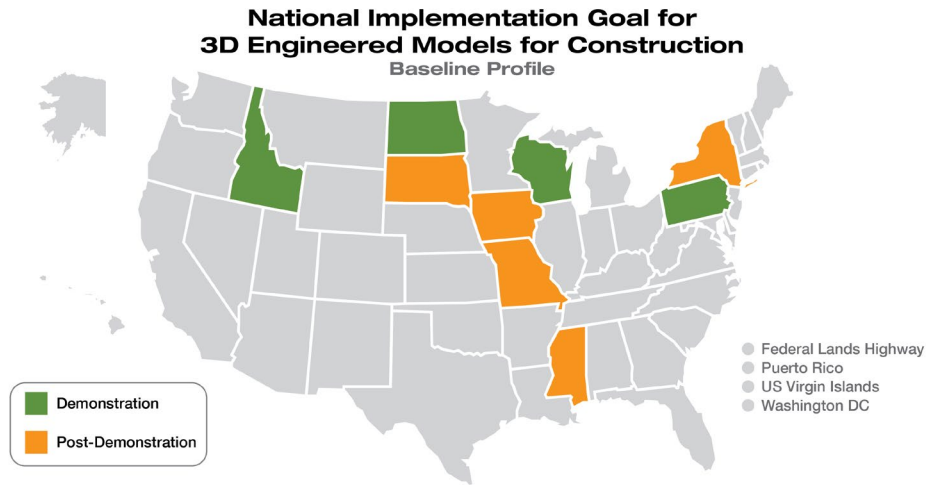
*\*State is defined as a general term to be all-inclusive  
(i.e. State Transportation Agency, local municipalities, contractors, consultants, etc.)*

# 3D Engineered Models for Construction

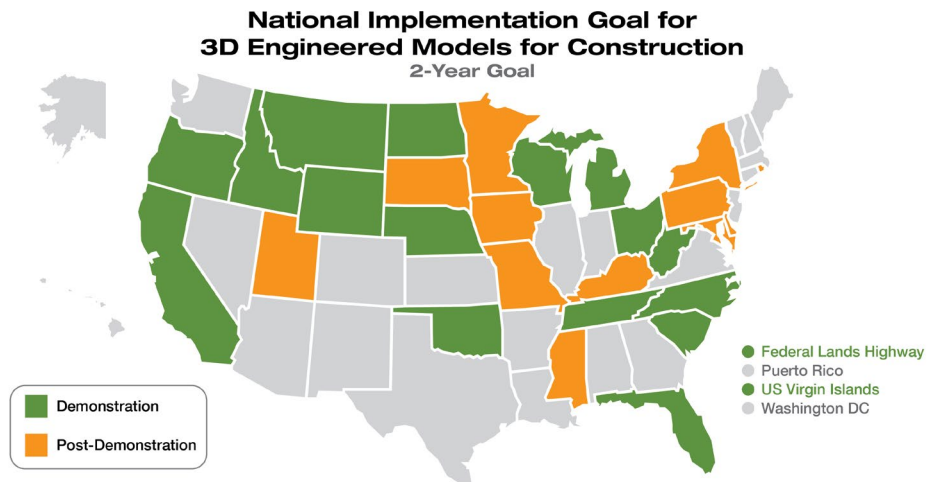
The objective of the 3D Engineered Models for Construction initiative is to promote technology transfer and project implementation of the 3D model for benefit to users such as more accurate quantity computations, clash detection, string-less paving and milling, and earthwork operations.

**National Goal:** In 2 years, increase the number of states using 3D Engineered Models for Construction from 9 to 30 states (counting Demonstration and Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



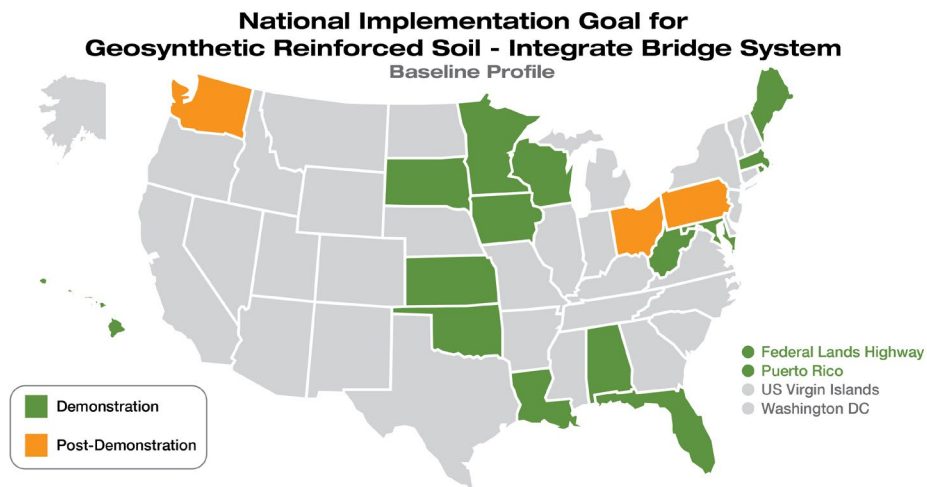
# Accelerated Bridge Construction

The objective of Accelerated Bridge Construction is to advance the rapid implementation of three technologies: Slide-in Bridge Construction, Geosynthetic Reinforced Soil Integrated Bridge System and Prefabricated Bridge Elements and Systems; by providing owners, contractors, consultants, and industry the knowledge and skills to decrease construction time, minimize mobility impacts, reduce cost, increase safety for workers and the traveling public, improve constructability, quality and durability, and reduce environmental impacts.

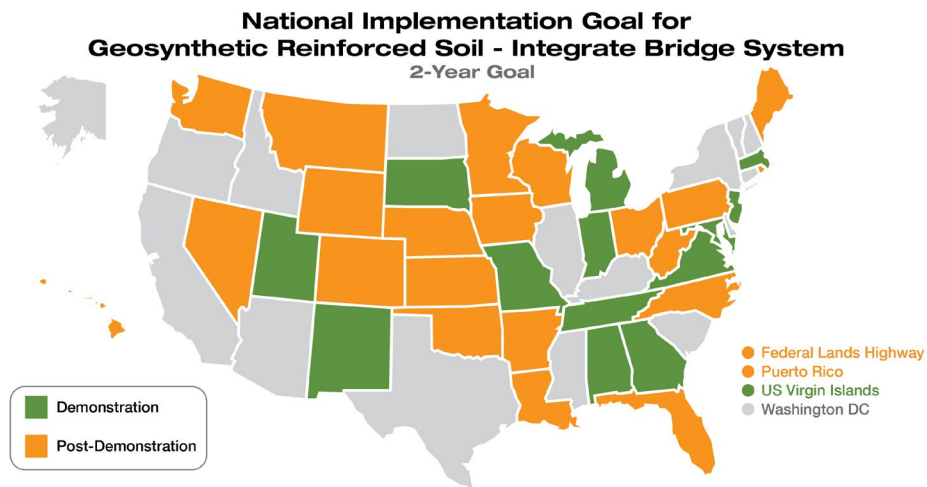
## Geosynthetic Reinforced Soil - Integrated Bridge Systems (GRS-IBS)

**National Goal:** In 2 years, increase the number of states using GRS-IBS from 20 to 37 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



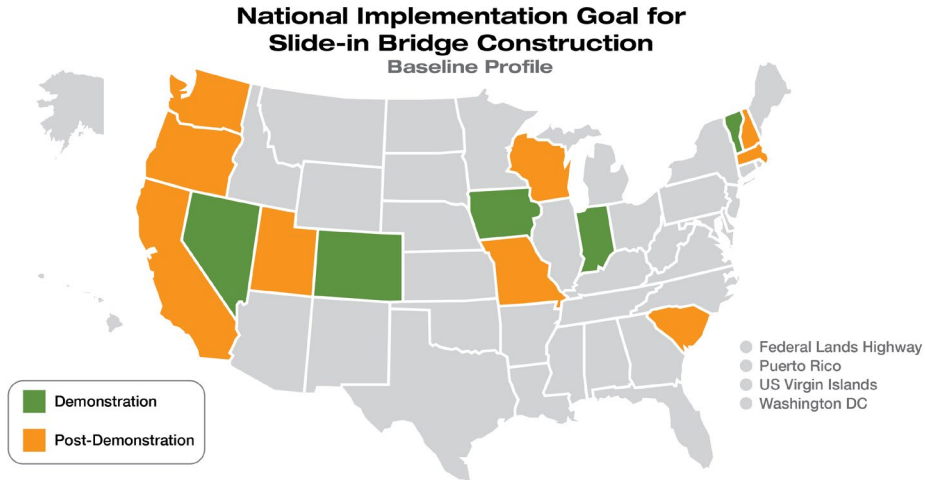
**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



## Slide-in Bridge Construction (SIBC)

**National Goal:** In 2 years, increase the number of states using SIBC from 14 to 32 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



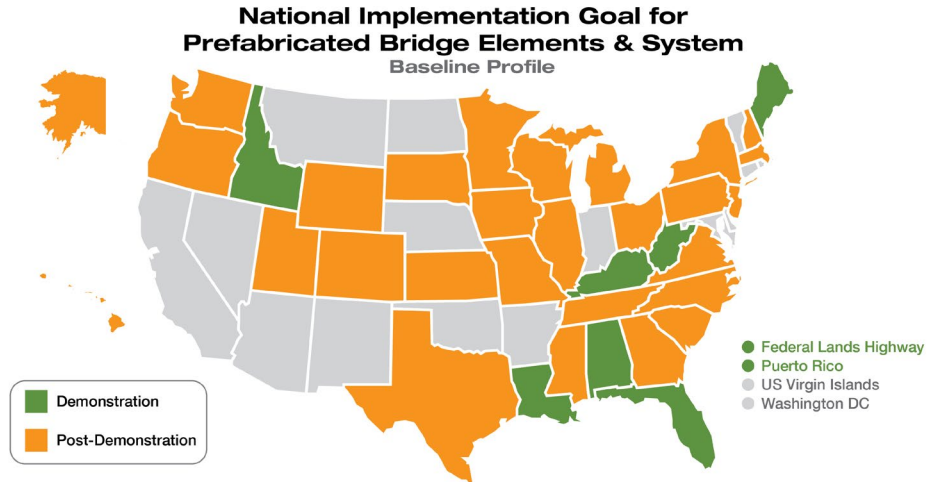
**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



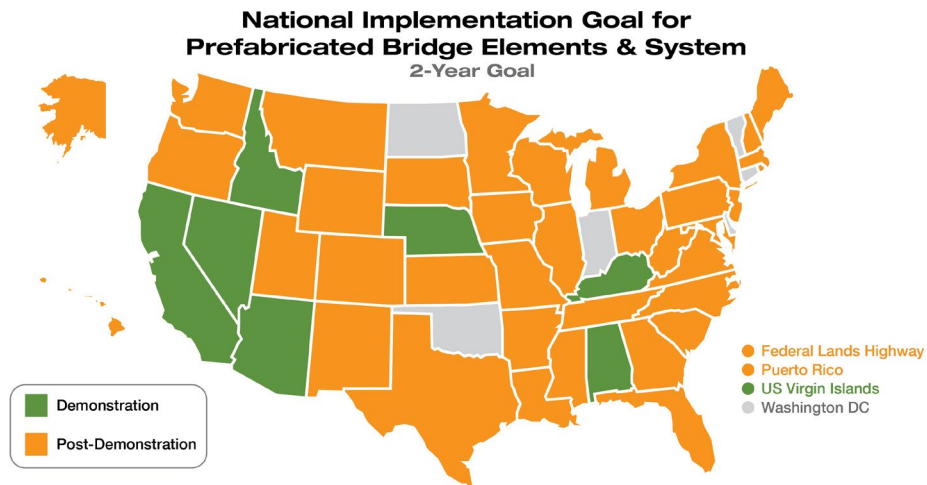
## Prefabricated Bridge Elements and Systems (PBES)

**National Goal:** In 2 years, increase the number of states using PBES from 37 to 47 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



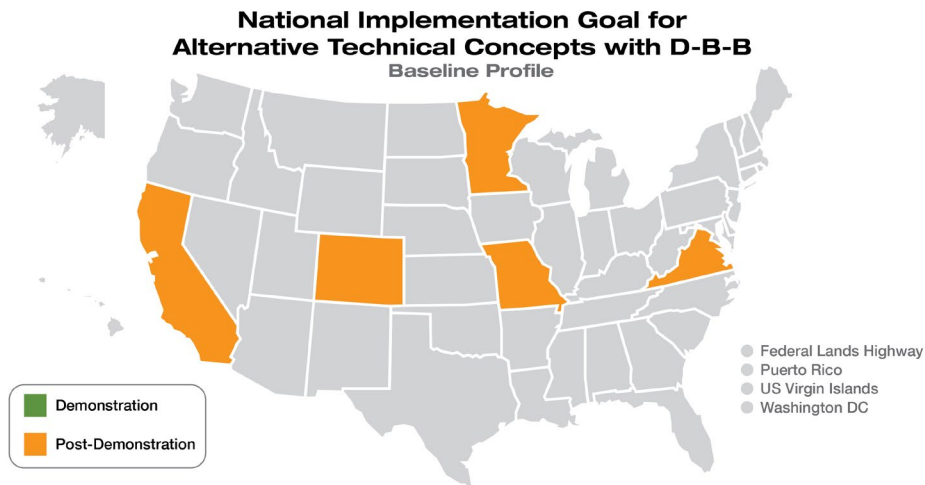
# Alternative Technical Concepts

To increase the rapid deployment of Alternative Contracting Methods (ACMs) and harness innovation through early contractor involvement, while providing Public Owners and Industry with the knowledge, tools, and skills to successfully implement Alternative Technical Concepts (ATCs) as a contracting method.

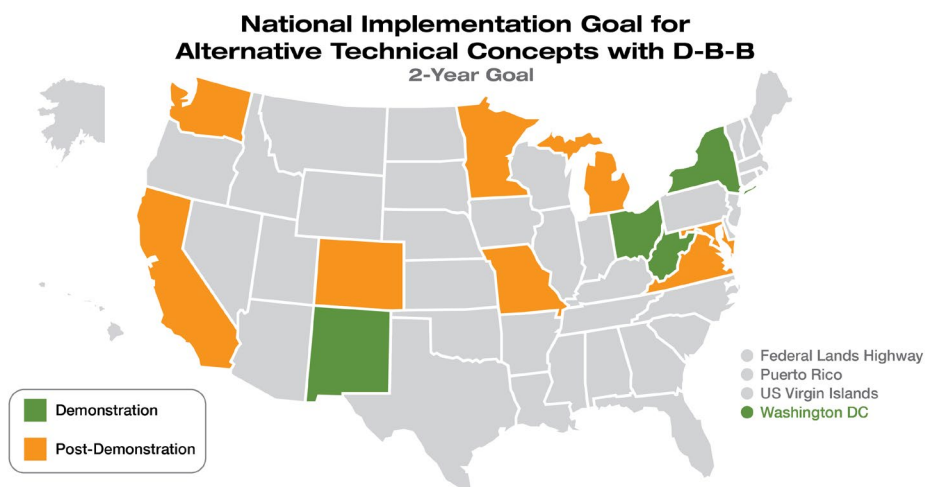
## Alternative Technical Concepts – Design-Bid-Build (ATC D-B-B)

**National Goal:** In 2 years, increase the number of states using ATC D-B-B from 5 to 12 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



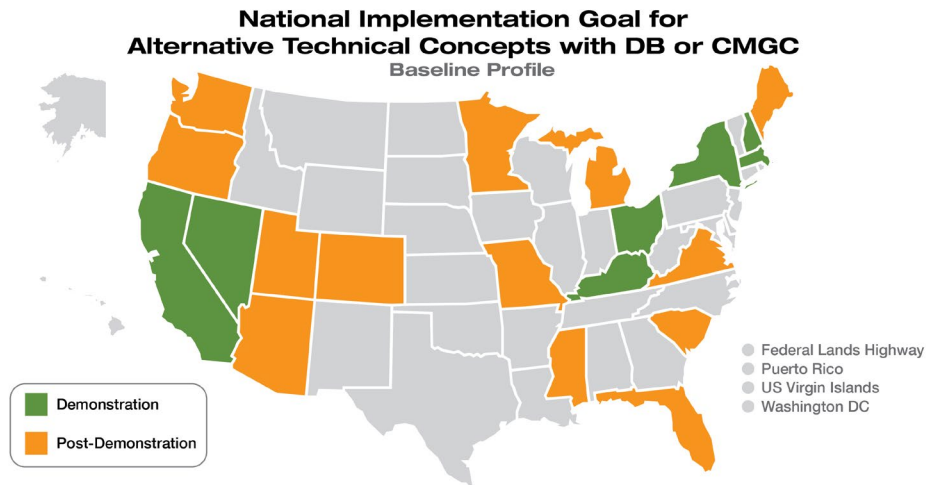
**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



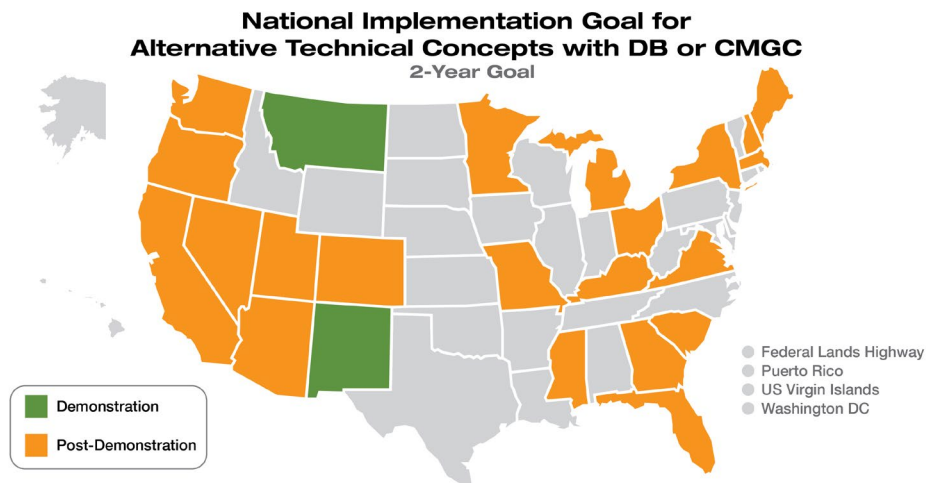
## Alternative Technical Concepts – Design Build or Construction Manager/General Contractor (ATC D-B or CM/GC)

**National Goal:** In 2 years, increase the number of states using ATC - D-B or CM/GC from 20 to 23 states (counting Demonstration to Post-Demonstration).

States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):



States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):

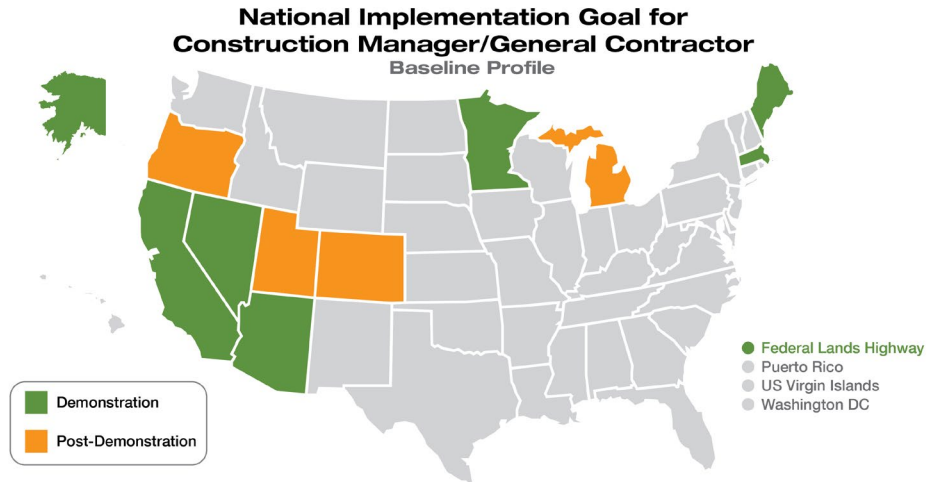


# Construction Manager/General Contractor (CM/GC)

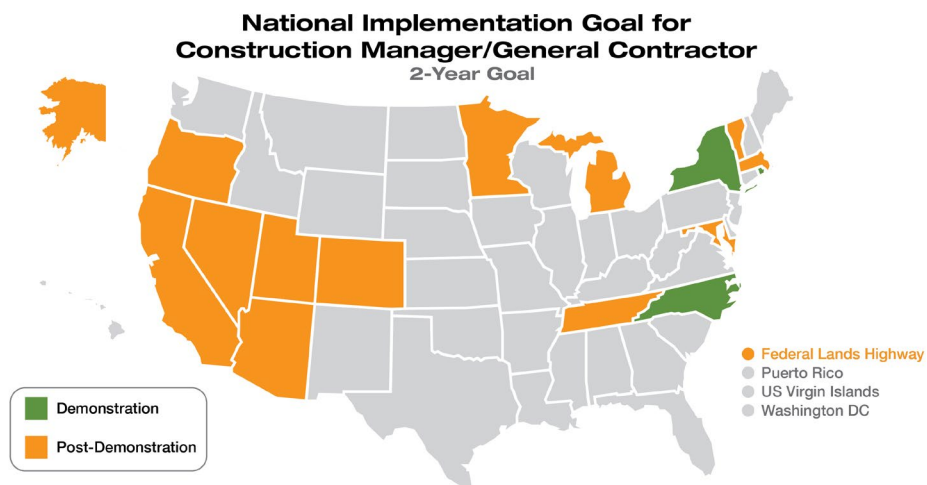
To increase the rapid deployment of Alternative Contracting Methods (ACMs) and harness innovation through early contractor involvement, while providing Public Owners and Industry with the knowledge, tools, and skills to successfully implement Construction Manager/General Contractor (CM/GC) as a contracting method.

**National Goal:** In 2 years, increase the number of states using CM/GC from 12 to 17 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**

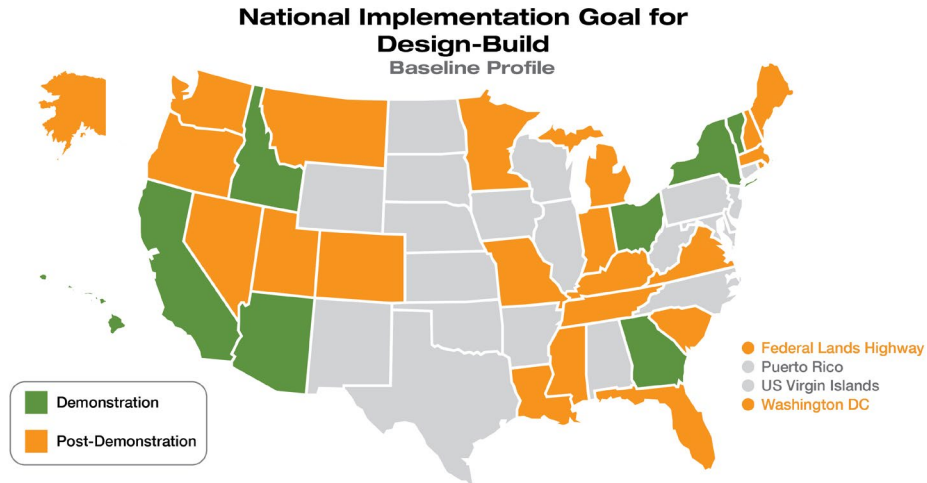


# Design-Build

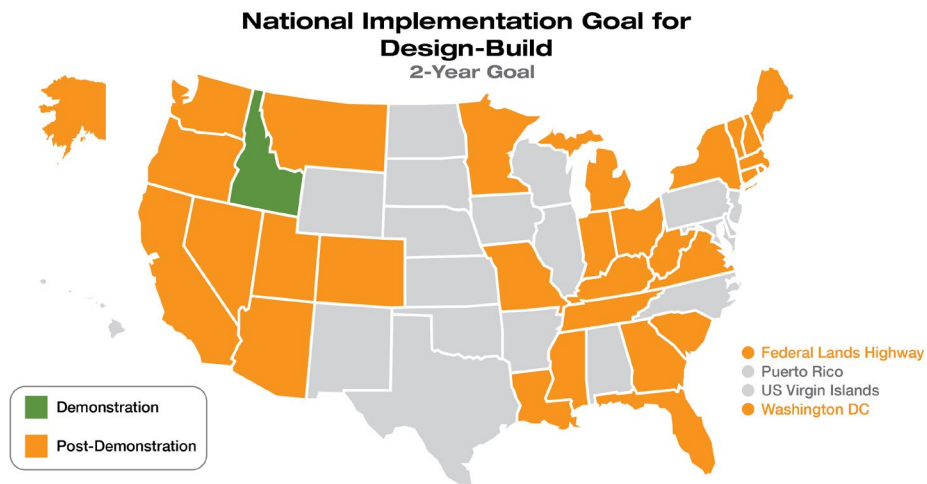
To increase the rapid deployment of Alternative Contracting Methods (ACMs) and harness innovation through early contractor involvement, while providing Public Owners and Industry with the knowledge, tools, and skills to successfully implement Design-Build (DB) as a contracting method.

**National Goal:** In 2 years, increase the number of states using DB from 32 to 33 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



# Geospatial Data Collaboration

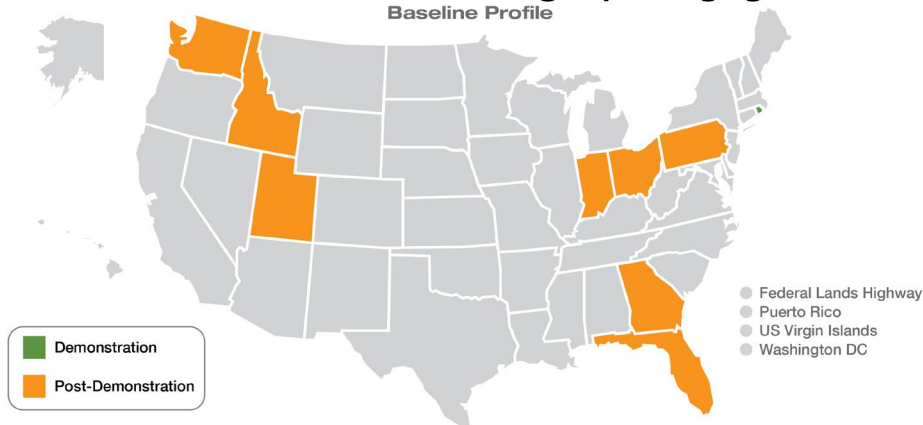
To expand the use of collaboration technologies in the environmental process for the purposes of: reducing the time needed to assemble data and perform routine tasks; improving the repeatability of analyses; improving the transparency and relevance of decision information to process partners and stakeholders; and providing insight into how partners and stakeholders are engaging in the process.

## Incorporating Collaborative Tools into the Environmental Process through Operating Agreements

**National Goal:** In 2 years, increase the number of states using Collaborative Tools into the Environmental Process through Operating Agreements from 9 to 13 states (counting Demonstration to Post-Demonstration).

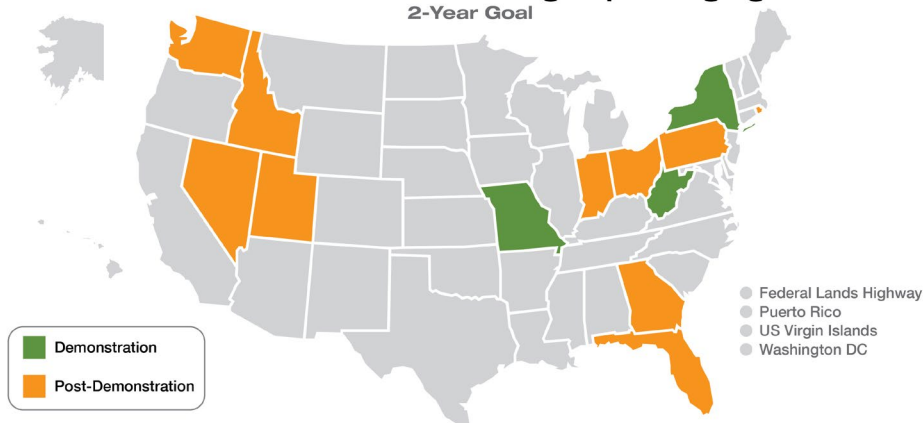
States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline)

**National Implementation Goal for Incorporating Collaborative Tools into the Environmental Process through Operating Agreements**  
Baseline Profile



States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):

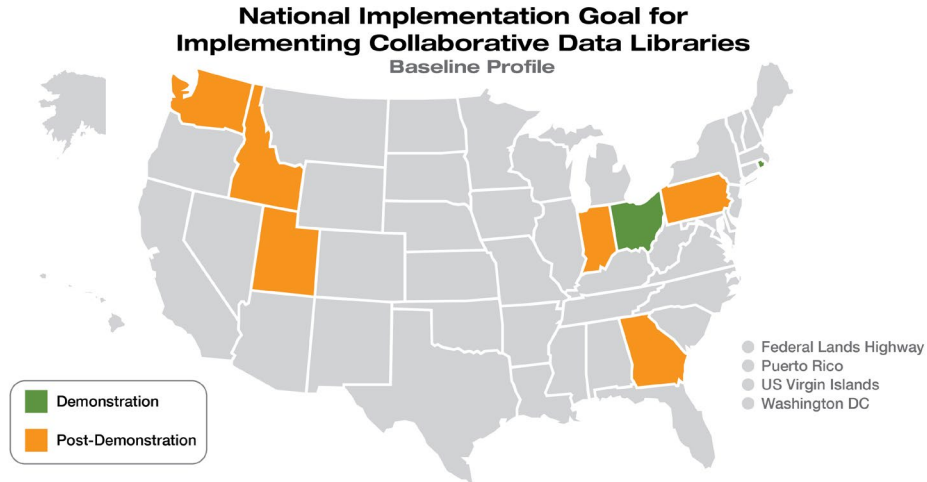
**National Implementation Goal for Incorporating Collaborative Tools into the Environmental Process through Operating Agreements**  
2-Year Goal



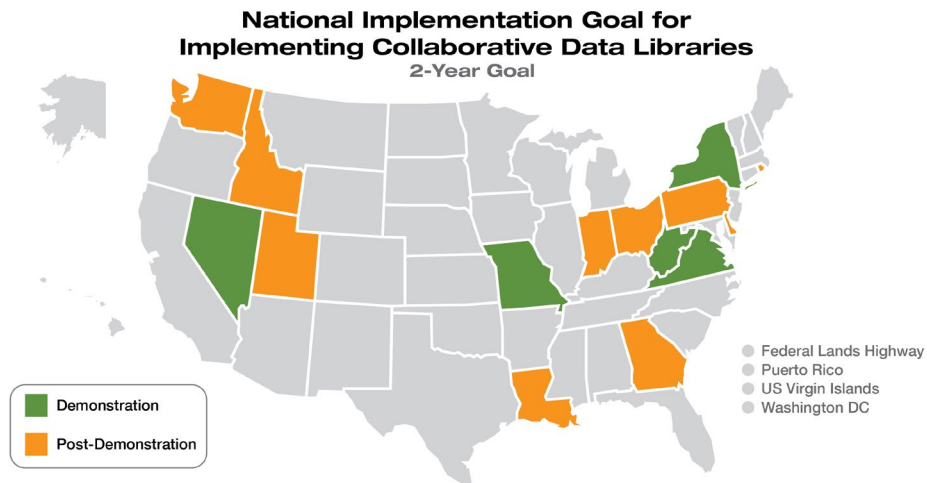
## Implementing Collaborative Data Libraries

**National Goal:** In 2 years, increase the number of States implementing a collaborative data library from 8 to 15 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



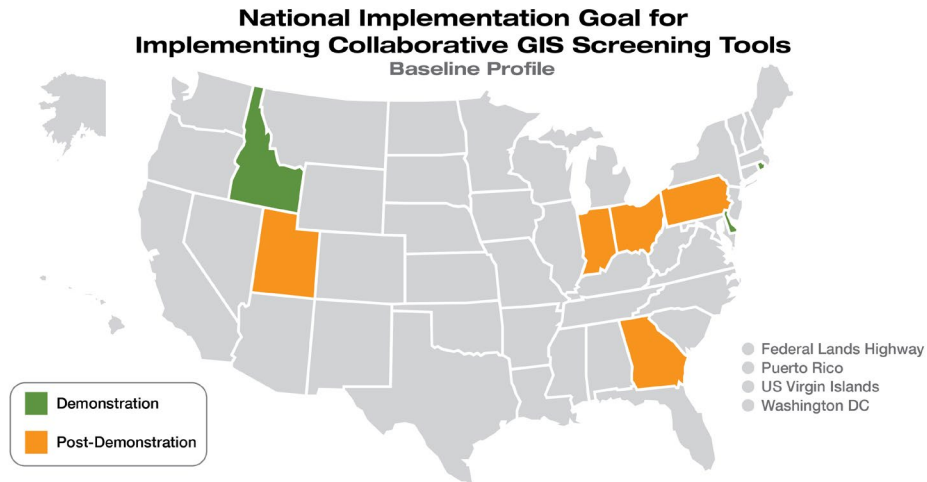
**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



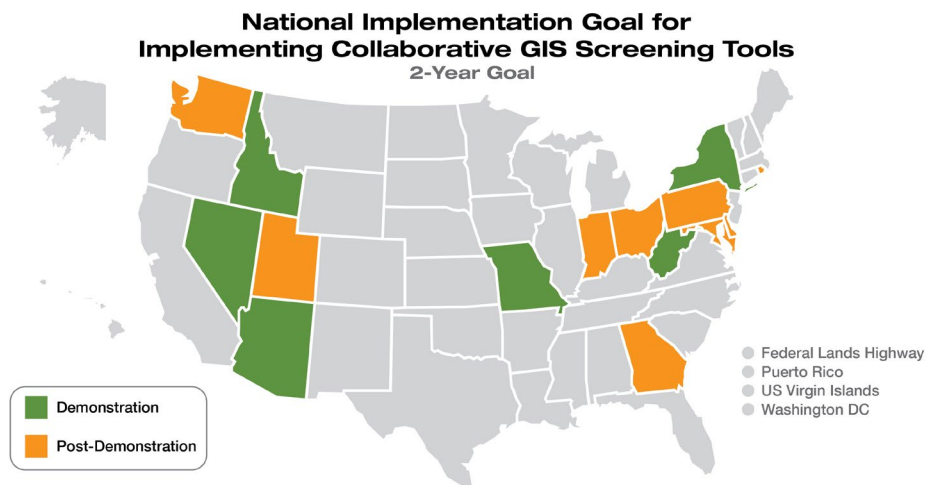
## Implementing Collaborative GIS Screening Tools

**National Goal:** In 2 years, increase the number of states implementing collaborative GIS screening tool from 8 to 15 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline)**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**

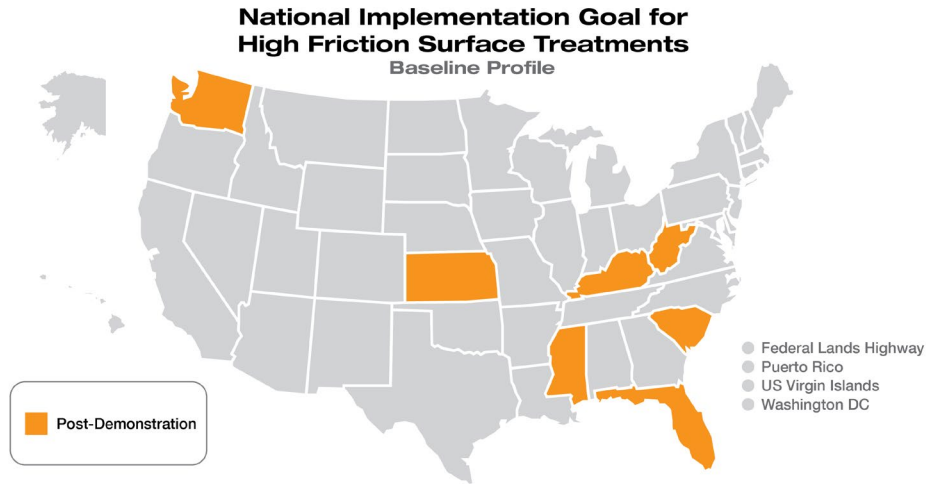


# High Friction Surface Treatments

To advance the rapid deployment of High Friction Surface Treatments (HFST) by working with agencies, contractors, consultants, and industry to increase the knowledge and skills to apply this recommended countermeasure on horizontal curves, intersection approaches, and high-priority locations as identified, in order to decrease crashes, injuries and deaths.

**National Goal:** Increase the number of states achieving "Post-Demonstration" on HFST from 7 states to 24 States.

**States that are in the Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Post Demonstration stage in 2 years (including states that were already at that stage prior to EDC-2):**

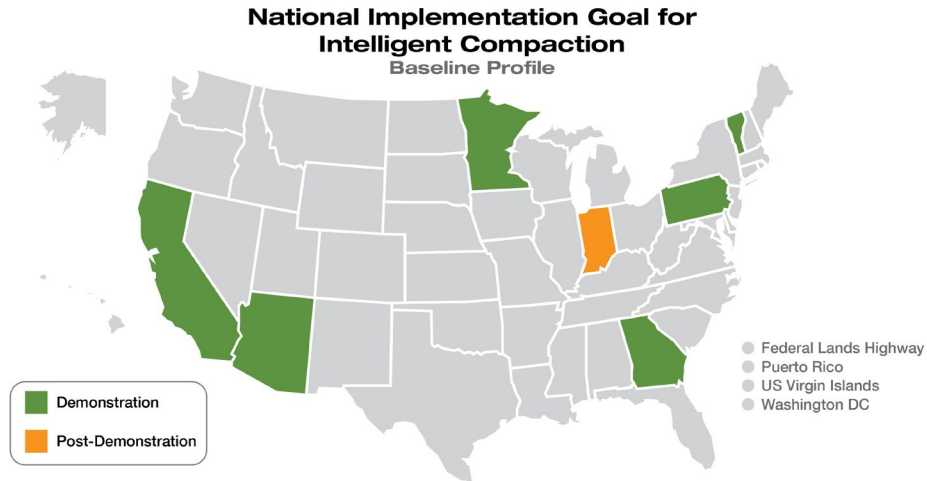


# Intelligent Compaction

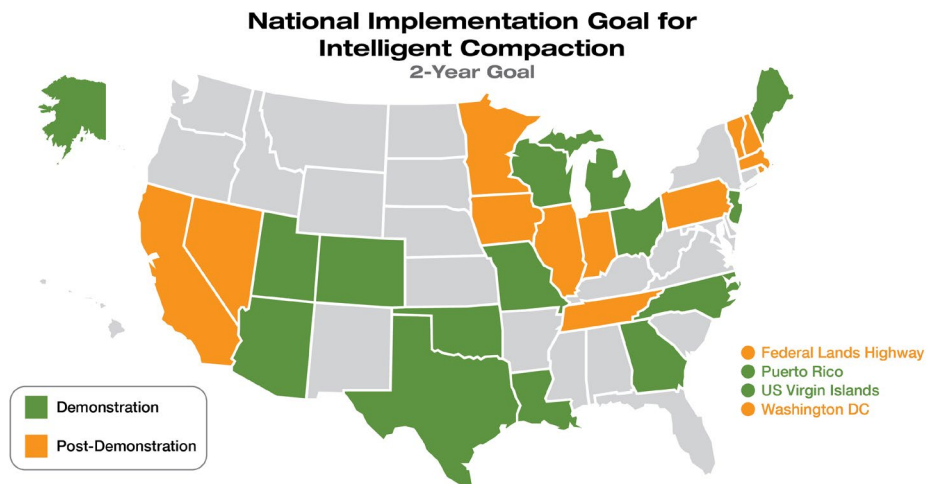
The objective is to deploy Intelligent Compaction (IC) as a tool to enhance the quality control of highway projects by increasing uniformity and accelerating construction. IC technology will provide real-time compaction information feedback to roller operators and facility owners.

**National Goal:** In 2 years, increase the number of states using IC from 7 to 31 states (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**

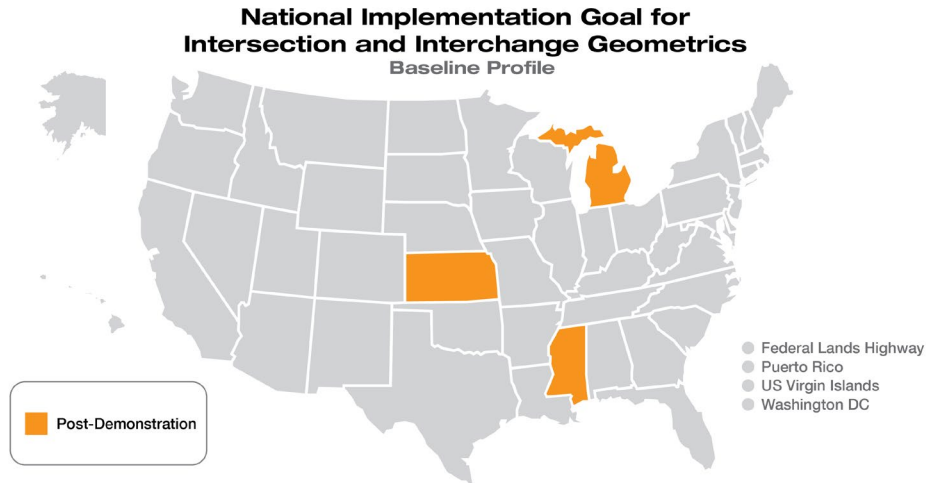


# Intersection and Interchange Geometrics

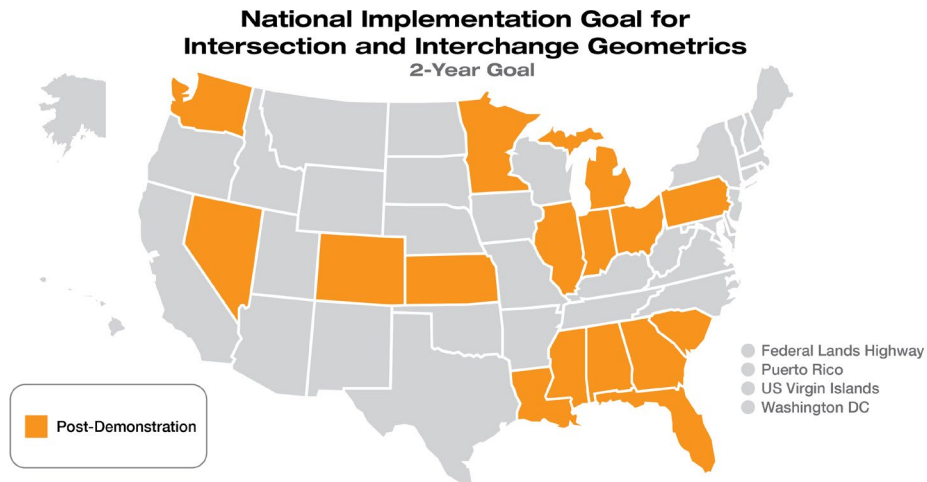
The goal of the Intersection and Interchange Geometric (IIG) initiative is to include the intersection control/design evaluation policies or processes of transportation agencies that ensures they are routinely considered and evaluated alongside other alternatives, and implemented when appropriate.

**National Goal:** Increase the number of states achieving “Post-Demonstration” on 2 or more IIG types from 3 to 16 states.

**States that are in the Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Post Demonstration stage in 2 years (including states that were already at that stage prior to EDC-2):**

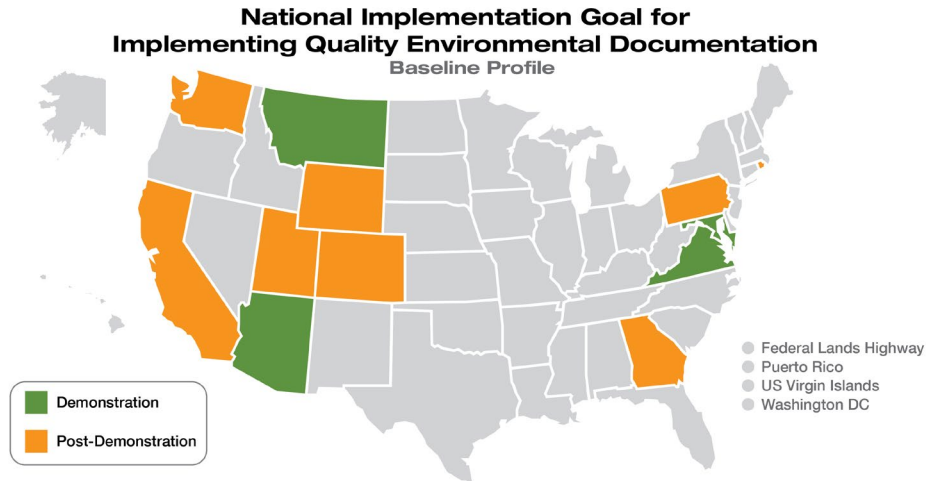


# Implementing Quality Environmental Documentation

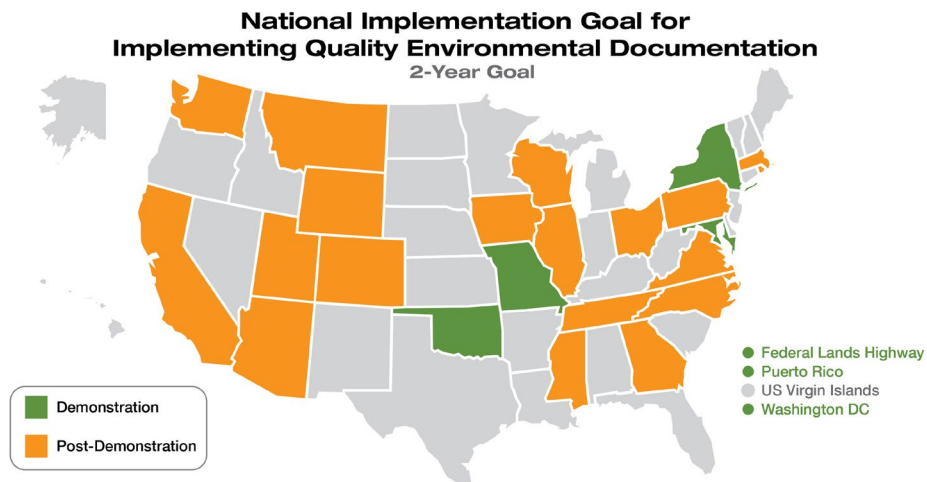
The goal of the initiative is to improve and expedite transportation project delivery through focused improvement in NEPA documentation, especially the presentation of project purpose and need and alternatives analysis prepared for decision-makers, resource agencies, and the public.

**National Goal:** In 2 years, increase the number of States using the three core principles of IQED from 12 to 26 States (counting Demonstration to Post-Demonstration).

**States that are in the Demonstration and Post Demonstration stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Demonstration and Post Demonstration stage in 2 years (including states that were already in those stages prior to EDC-2):**



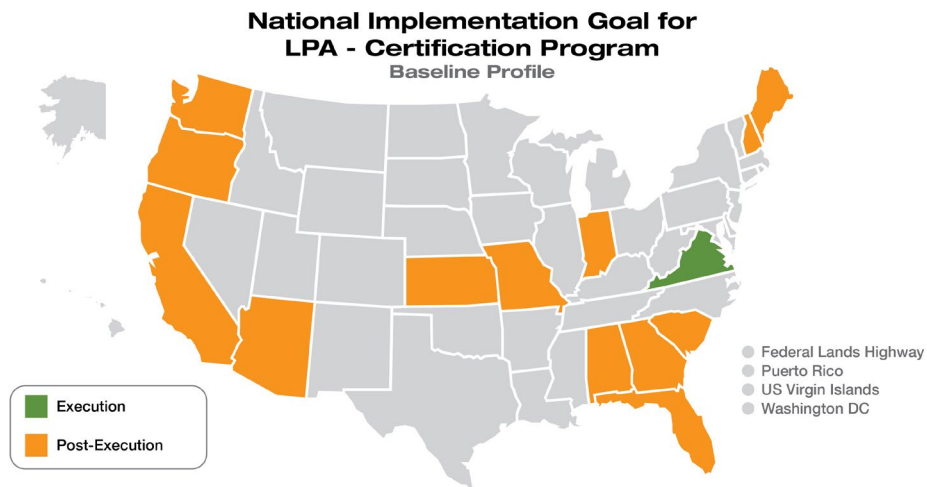
# Locally Administered Federal-Aid Projects

The purpose of this EDC-2 initiative is to expand the routine use of programmatic practices that accelerate the development and delivery of locally administered projects by: encouraging program innovations that reduce oversight resource needs, delegate program accountability risk to LPAs with demonstrated qualifications and experience, and increasing local ownership and participation through enhanced partnerships. These objectives will be achieved by implementing innovation in the areas of LPA Certification, Consultant Services Flexibilities and Stakeholder Partnering.

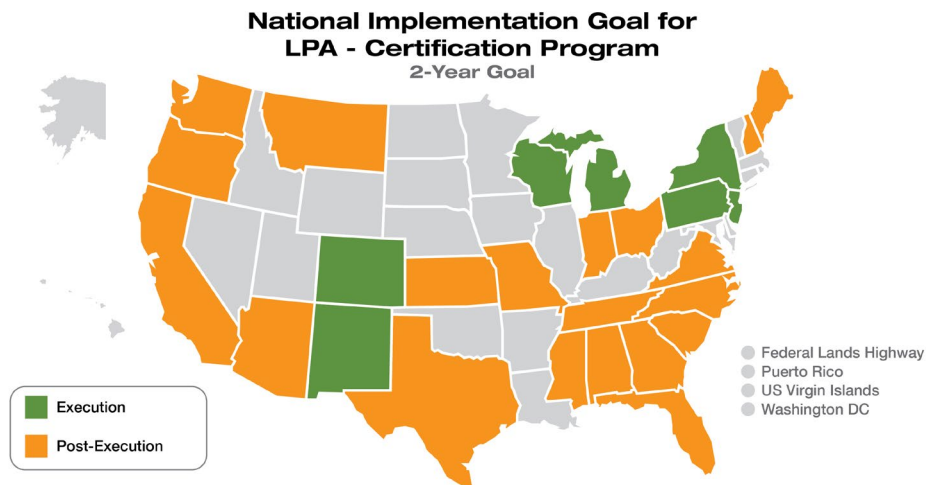
## LPA Certification Program

**National Goal:** In 2 years, increase the number of states executing a LPA Certification Program from 14 to 27 states (counting Execution through Post-Execution).

**States that are in the Execution and Post Execution stage prior to EDC-2 (baseline):**



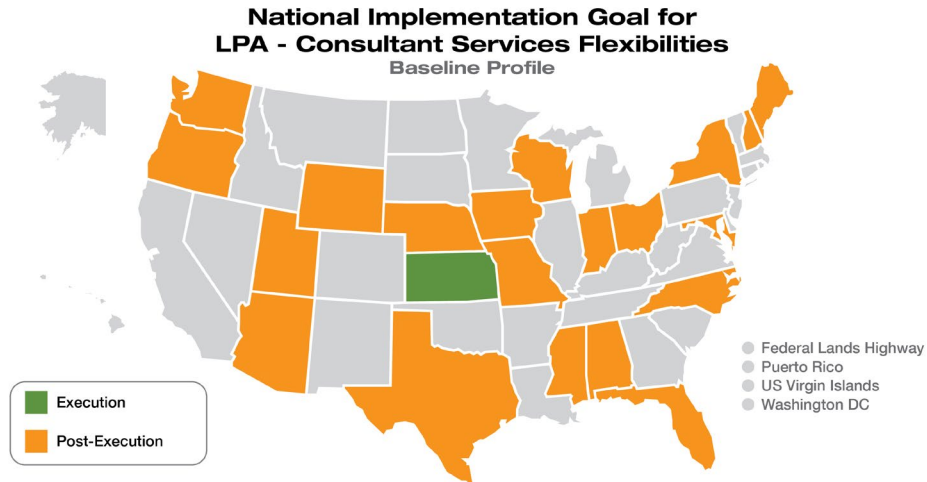
**States that have a goal of achieving Execution and Post Execution stage in 2 years (including states that were already in those stages prior to EDC-2):**



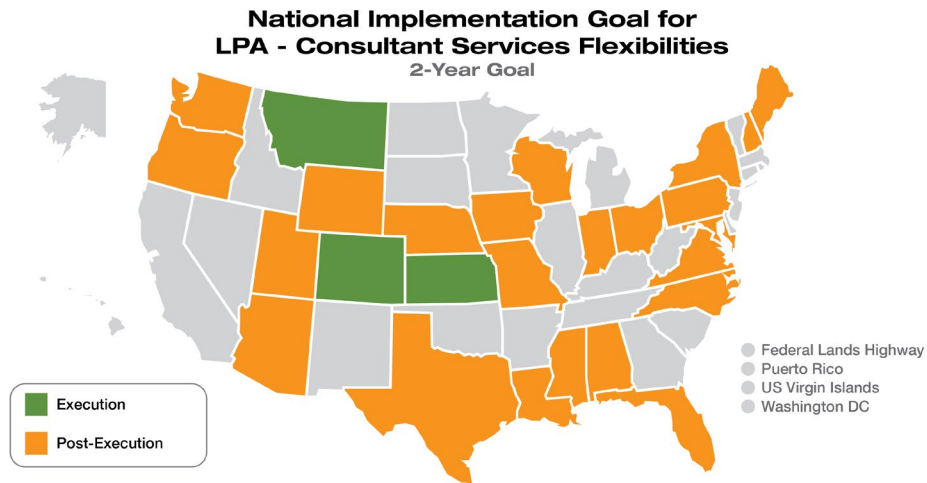
## Consultant Services Flexibilities

**National Goal:** In 2 years, increase the number of states adopting one of identified successful practices, or an equivalent alternative, to assist in state program oversight or local project delivery from 21 to 26 states (counting Execution through Post-Execution).

**States that are in the Execution and Post Execution stage prior to EDC-2 (baseline):**



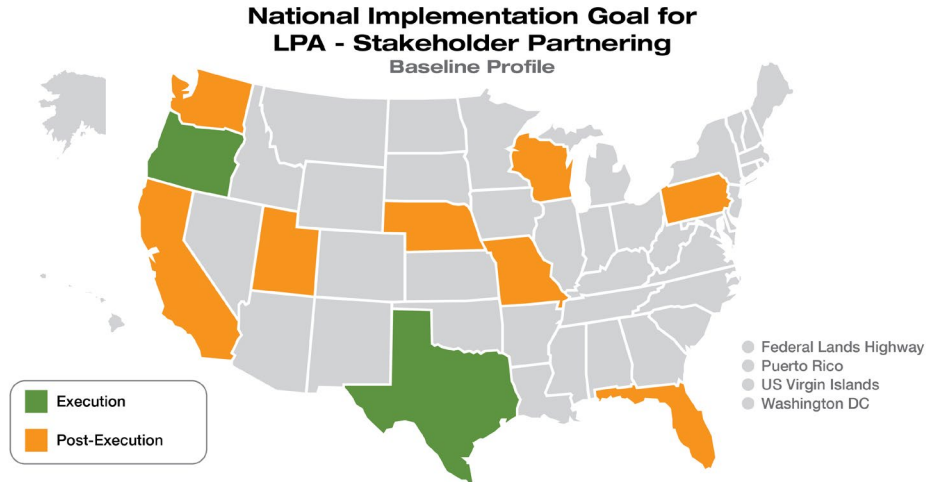
**States that have a goal of achieving Execution and Post Execution stage in 2 years (including States that were already in those stages prior to EDC-2):**



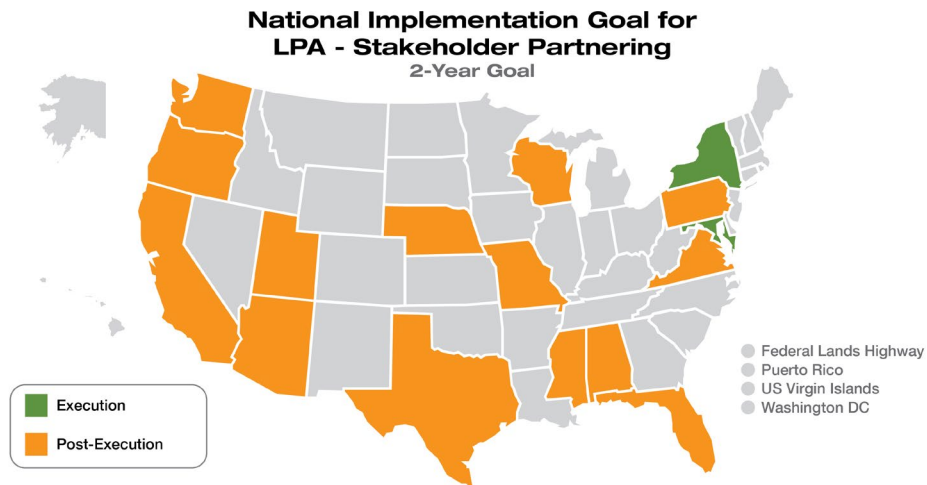
## Stakeholder Partnering

**National Goal:** In 2 years, increase the number of states that are formally partnering with local agencies from 10 to 16 states (counting Execution through Post-Execution).

**States that are in the Execution and Post Execution stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Execution and Post Execution stage in 2 years (including states that were already in those stages prior to EDC-2):**



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## Programmatic Agreements

A programmatic agreement (PA) establishes a streamlined process for handling routine environmental requirements for commonly encountered project types. They usually set procedures for consultation, review and compliance with one or more federal laws, but can also address Tribal, State, and local laws. Programmatic approaches include Memoranda of Agreement (MOAs), Memoranda of Understanding (MOUs) and letters of agreement between resource and regulatory agencies regarding environmental process reviews, data collection, and regulatory compliance. By considering repetitive actions on a program basis rather than individually by project, efficiency is increased while maintaining appropriate consideration for the environment.

Programmatic agreements may be developed on a regional, ecosystem, or watershed scale. The agreement may encompass multiple environmental resources within a defined geographic area or may focus on a specific resource, such as aquatic resources, parkland, or wildlife habitat. Modes should coordinate in production of programmatic agreements to identify opportunities to sign as co-signatories or to determine how to tier off to produce a mode-specific programmatic agreement.

The objective of the EDC-2 Programmatic Agreements (PA) initiative is to continue to build on the success of EDC1 by increasing the awareness of the benefits of implementing a PA and by creating additional PAs through expansion of existing agreements and creation of new agreements.

The emphasis under EDC-2 will be to continue to advance programmatic agreements with a focus on State and regional agreements, in particular with the United State Corps of Engineers (USACE), the United State Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS). The first phase of EDC to expand programmatic approaches successfully added scores of new agreements. Some of these new state-level agreements could be applied to other states or modified to include other action. Expanding existing agreements has lower implementation costs versus creating new agreements.

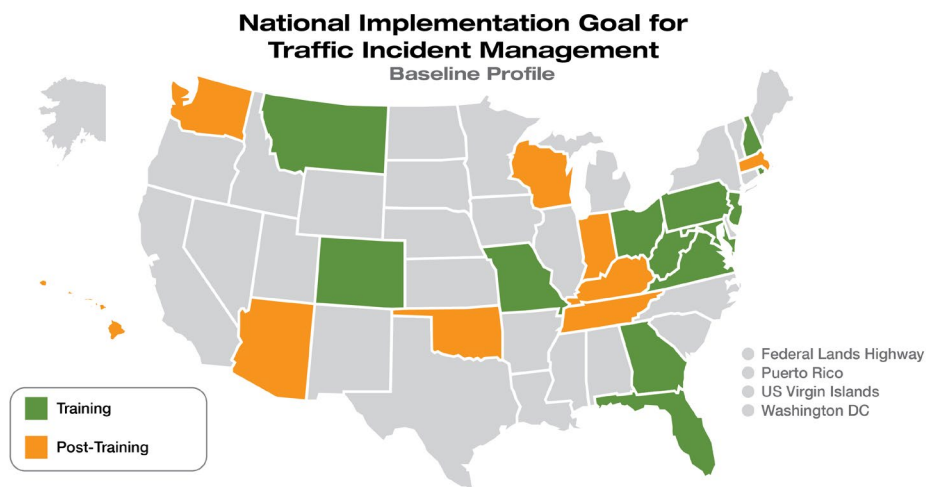
**National Goal:** States or FLHD offices will expand, revise and/or create 50 programmatic approaches at the state or regional scale. Of these, 20 programmatic approaches will be completed by December 2014.

# SHRP 2 National Traffic Incident Management Responder Training

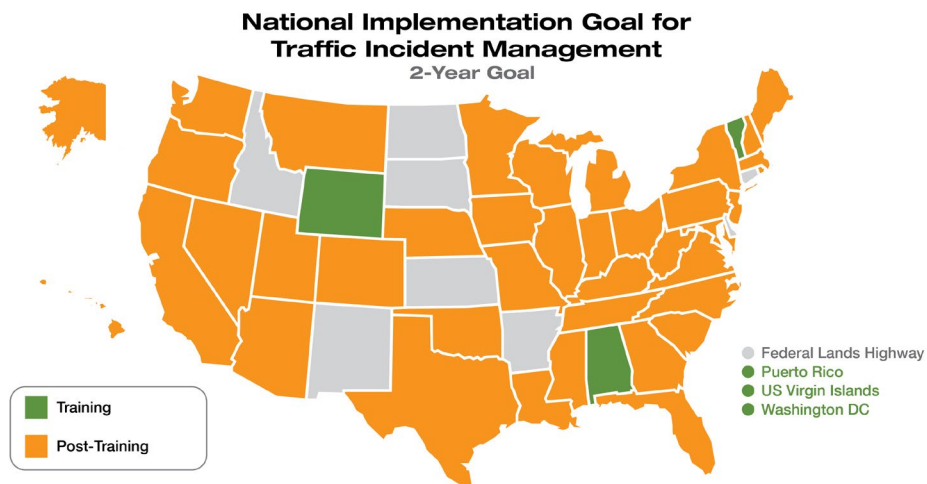
The SHRP 2 L12 project, Improving Traffic Incident Scene Management, now referred to as the National Traffic Incident Management (TIM) Responder Training, provides a significant move forward in developing a coordinated, multi-discipline training program for all emergency responders and those supporting TIM operations. The L12 project resulted in a TIM training curriculum that provides responders from the various stakeholder groups with a common set of core competencies that promote a shared understanding of the requirements for achieving the safety of responders and motorists, quick response, and effective communications at traffic incident scenes.

**National Goal:** In 2 years, increase the number of states with TIM Responder Training Implementation Plans in place and being executed from 22 to 45 states.

**States that are in the Training and Post Training stage prior to EDC-2 (baseline):**



**States that have a goal of achieving Training and Post Training stage in 2 years (including states that were already in those stages prior to EDC-2):**





For more about the Every Day Counts initiative,  
go to <http://www.fhwa.dot.gov/everydaycounts/>.



