



U.S. Department
of Transportation
**Federal Highway
Administration**

FHWA

Introduction to FHWA FHWA Current Initiatives

Kevin Michel – FHWA ND-Division

Engineering and Operations Team Supervisor

FAST
ACT

EDC ▶

RBSO

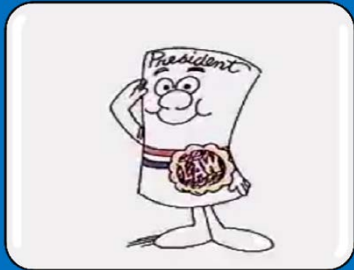
Today's Topics



**FHWA New
Organizational Structure**

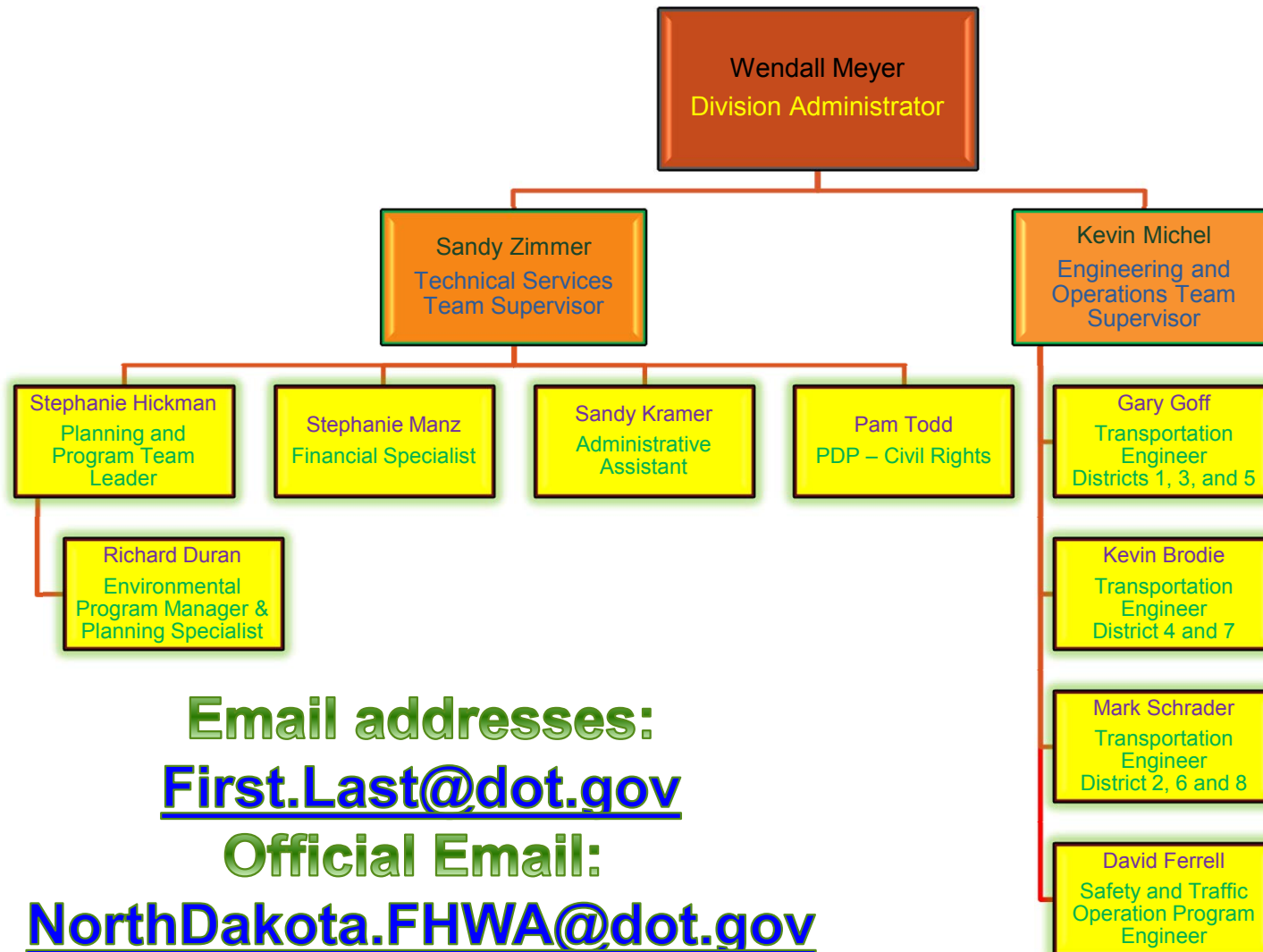


**Every Day Counts-4
(EDC-4) Initiatives**



**Risk Based Stewardship
and Oversight (RBSO)**

FHWA Organization



New Brochure



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Technical Services Team

| | | | | | |
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|  <p>Sandy Zimmer Technical Services Team Supervisor (701) 221-9469 sandy.zimmer@dot.gov Financial Program and Funds Management, Current Billing, Innovative Finance Program, Civil Rights Program (Title VI, DBE, EEO, Labor Compliance, TE RO, OJT/SS, DBE/SS, and LEP), RTF, and Transportation Alternatives Program</p> |  <p>Stephanie Hickman Planning and Program Manager (701) 221-9462 stephanie.hickman@dot.gov Statewide & Metropolitan Transportation Improvement Programs, Border Crossings, Consolidated Planning Grant, EEO, Labor Compliance, TE RO, OJT/SS, DBE/SS, and LEP), RTF, and Performance Management, Asset Management</p> |  <p>Richard Duran Environment Program Manager & Planning Specialist (701) 221-9464 richard.duran@dot.gov NEPA, Environmental Policy & Procedures, Environmental Streamlining, Historical/Cultural Resources, Section 106 Native American Consultation, Climate Change, CSS, T², Federal Agency Coordination</p> |  <p>Stephanie Manz Financial Specialist (701) 221-9470 stephanie.manz@dot.gov Audits, Federal-aid Billing, Improper Payments, Financial Integrity Review and Evaluation Program (FIRE), Billing Reviews, Final Voucher, GOE Funds</p> |  <p>Sandy Kramer Administrative Assistant (701) 221-9475 sandra.kramer@dot.gov Official Mailbox, CARs Reports, NIFT Document Retrieval Site, Training Coordinator, Invitational Travel</p> |  <p>Pam Todd PDP—Civil Rights / Realty (701) 221-9477 pamela.todd@dot.gov Professional Development Program (PDP) - two-year assignment, Civil Rights Program (Title VI, DBE, EEO, Labor Compliance, TE RO, OJT/SS, DBE/SS, and LEP), ROW</p> |
|--|---|--|---|---|---|

Engineering & Operations Team

| | | | | | |
|--|--|--|---|--|--|
|  <p>Kevin Michel Engineering & Operations Team Supervisor (701) 221-9465 kevin.michel@dot.gov Bridge Program (NBP & NBIP) and Project Delivery Coordination, Compliance Assessment Program, Local Public Agency (LPA) Program</p> |  <p>Gary Goff Transportation Engineer (701) 221-9466 gary.goff@dot.gov Pavements & Materials Program, QA/QC, Preventative Maintenance, Emergency Relief District 1 (Bismarck) Districts 3 (De Wils Lake) Districts 5 (Dickinson)</p> |  <p>Kevin Brodie Transportation Engineer (701) 221-9467 kevin.brodie@dot.gov Design Program, Standard Plans and Specifications, Consultant Agreements, Value Engineering, Utility Issues District 4 (Minot) District 7 (Williston)</p> |  <p>Mark Schrader Transportation Engineer (701) 221-9468 mark.schrader@dot.gov Construction Program, Contract Administration Program, Defense Access Program, Federal Access Program District 2 (Valley City) District 6 (Grand Forks) District 8 (Fargo)</p> |  <p>David Ferrell Safety and Traffic Operation Program Engineer (701) 221-9463 david.ferrell@dot.gov ITS, HSIP, HSP, SHSP, MUTCD, Crash Data, Road Safety Audits, Safety Hardware, ADA, Work Zone Traffic Control, Rail Highway Crossings, Truck Size & Weight, LTAP/TTAP, Pembina Border Crossing Project</p> | <p>Follow FHWA on these social medias:</p> <ul style="list-style-type: none">  https://www.linkedin.com/company/federal-highway-administration  http://on.fb.me/1E9CEWk  http://www.youtube.com/user/USDOTFHWA  https://twitter.com/USDOTFHWA  http://www.flickr.com/photos/fhwa/ |
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Center for Accelerating Innovation



U.S. Department
of Transportation
**Federal Highway
Administration**



THE FIXING AMERICA'S SURFACE TRANSPORTATION ACT

FAST
ACT

**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.



EDC-4
2017-2018
11
Innovations

(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



Flexibilities in Right-of-Way



Programmatic Agreements



Clarifying Scope of Prelim Design



Flexibilities in Utility



Safety Edge™



CM/GC



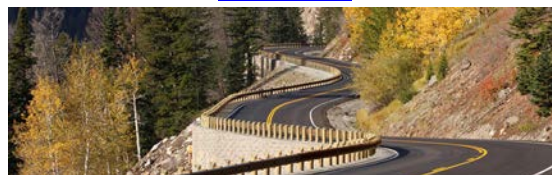
GRS-IBS



Use of In-Lieu Fee & Mitigation



Design-Build



Planning and Environmental Linkages



Warm Mix Asphalt



Enhanced Technical Assistance
Environmental Impact Statements



Prefabricated Bridge Elements and
Systems

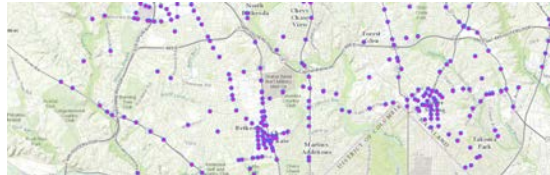
Every Day Counts

Better, Faster, Smarter

EDC-2 (2013-2014)



3D Engineered Models for Construction



Geospatial Data Collaboration



Programmatic Agreements



Accelerated Bridge Construction (ABC)



High Friction Surface Treatments



Intersection & Interchange Geo.



CM/GC



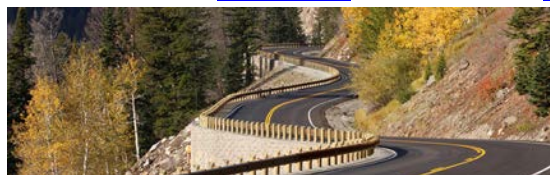
GRS-IBS



Locally Administered Federal-Aid Projects



Design-Build



Implementing Quality Environmental Doc



National Traffic Incident Management Responder Training (SHRP2 L12)



Alternative Technical Concepts (ATC)



Intelligent Compaction

Every Day Counts

Better, Faster, Smarter

EDC-3 (2015-2016)



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

Have Completed Round EDC-4 Selections

EDC-1
2011-2012
14
Innovation
s

EDC-2
2013-2014
13+
Innovation
s

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.



every day counts

An Innovation Partnership with States



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



Quality

every day counts
An Innovation Partnership with States



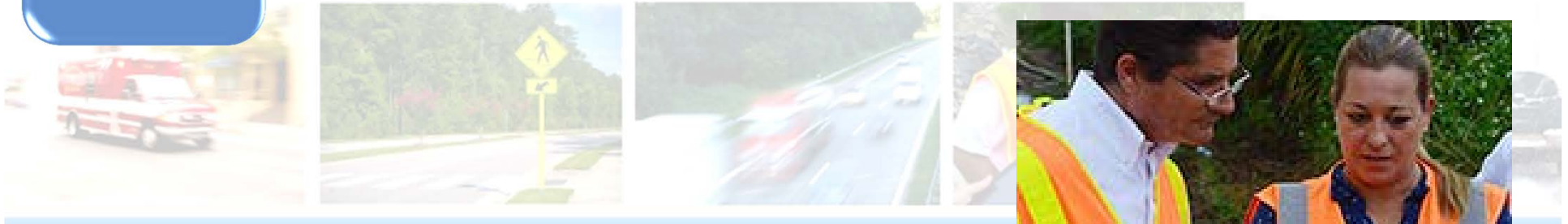
Pavement Preservation (When, Where, and How) at the right time (when), on the right project (where), with quality materials and construction (how)

critical investment strategy to help
meet pavement performance
expectations



Shortening
Project
Delivery

every day counts
An Innovation Partnership with States



e-Construction and Partnering: *A Vision for the Future*

- **... take advantage of e-Construction technologies to enhance partnering among the project team**
 - 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?



U.S. Department
of Transportation

**Federal Highway
Administration**



RISK BASED STEWARDSHIP AND OVERSIGHT (RBSO)

RBSO: Improvements Through “Enhanced” Federal-State Partnership

RBSO
Fundamentals

- 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

RBSO
Fundamentals

Risk: Effect of uncertainty on objectives

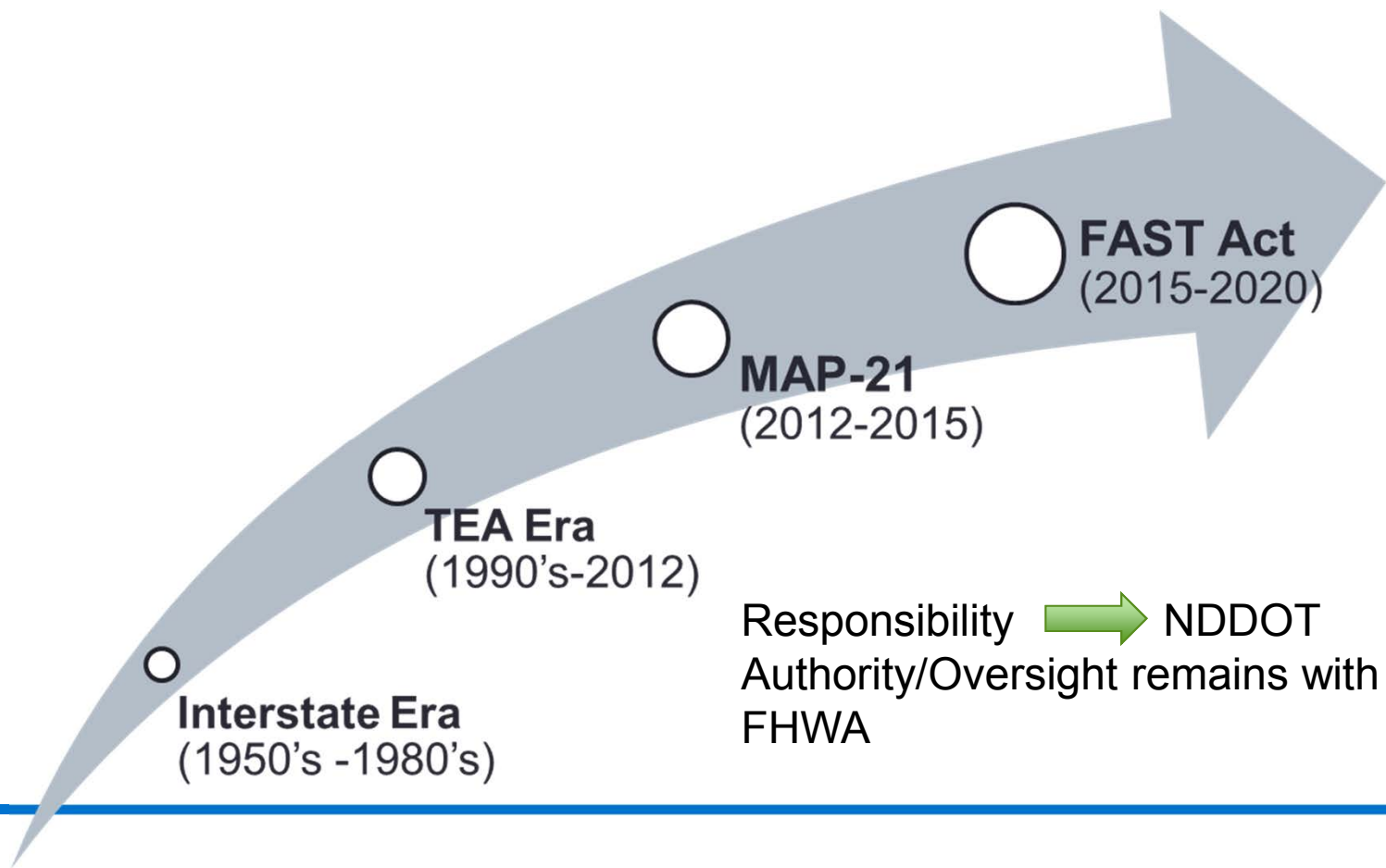
Risk Management: Standard process to focus resources, strengthen program management, and improve communications to manage risk

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

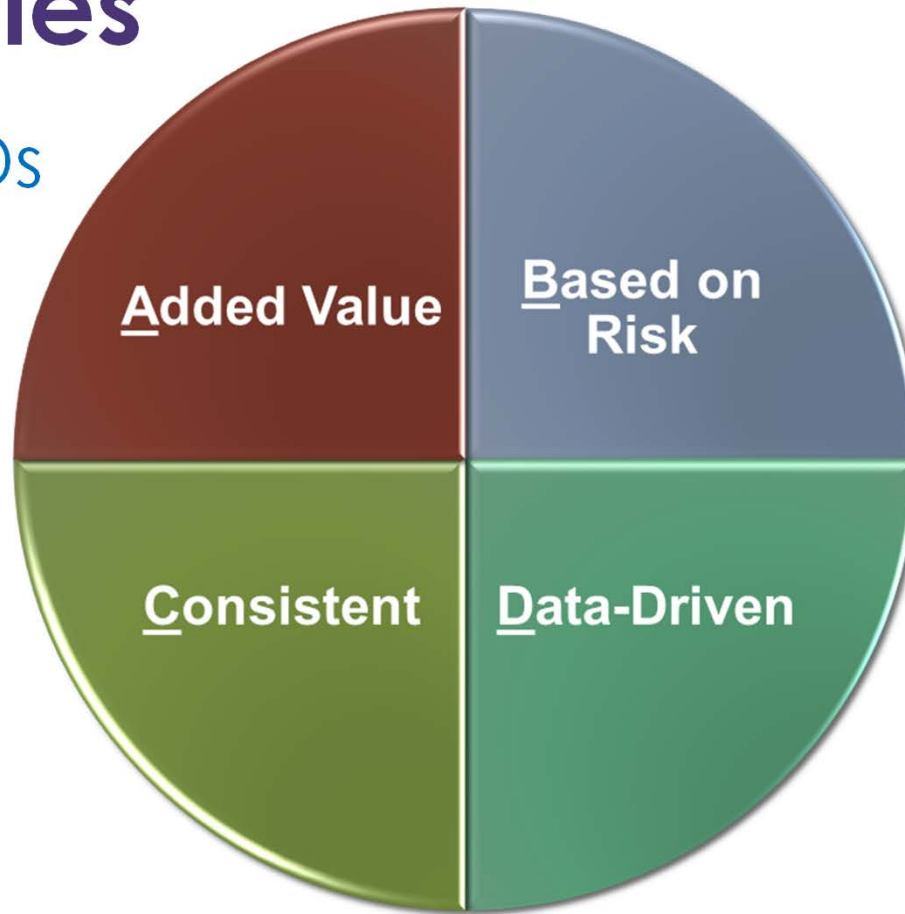
RBSO
Fundamentals



FHWA RBSO Involvement Principles

RBSO
Fundamentals

The ABCDs

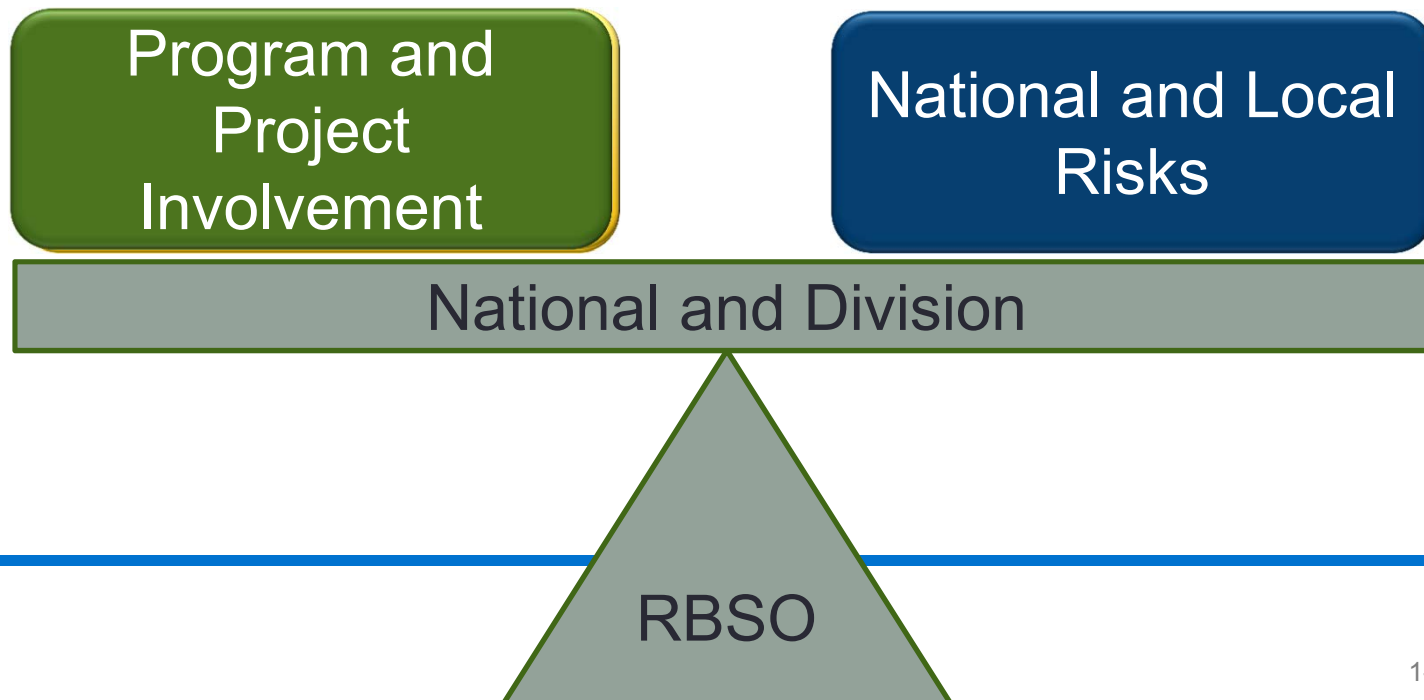


Balancing Resources and Risk

RBSO
Fundamentals

S&O Objectives (Program vs. Project):

- Effective and Efficient Project Delivery
 - Projects of Division Interest (PoDI)
- Program Compliance
 - Compliance Assessment Program (CAP)



Questions ?



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