IHEEP REGION 5 CONFERENCE
UNITED STATES GOVERNMENT INNOVATION GRANTS

STIC
State Transportation Innovation Councils

$100,000
80/20 MATCH

AID
Accelerated Innovation Deployment Demonstration

$1 MILLION
TIDP (Technology and Innovation Deployment Program)

3 initiatives
- AID
- STIC
- ACCELERATED IMPLEMENTATION

All are part of EDC

TIDP enables filling the critical need to turn research products into proven technologies and demonstrated practices.

After technologies have gone through testing and evaluation processes and are successfully deployed, the TIDP assists the accelerated implementation and adoption as standard practices by State DOTs and other stakeholders.

Improve highway efficiency, safety, mobility, reliability, service life, environmental protection, and sustainability.

Significantly accelerate the adoption of innovative technologies by the surface transportation community.
EDC (Every Day Counts)

• In 2009, the Federal Highway Administration (FHWA) launched **Every Day Counts (EDC)** in cooperation with the American Association of State and Highway and Transportation Officials (AASHTO) to speed up the delivery of highway projects and to address the challenges presented by limited budgets. EDC is a state-based model to identify and rapidly deploy proven but underutilized innovations to shorten the project delivery process, enhance roadway safety, reduce congestion and improve environmental sustainability.

**How it Works**

• Through the EDC model, FHWA works with state and local transportation agencies and industry stakeholders to identify a new collection of innovations to champion every two years. Innovations are selected collaboratively by stakeholders, taking into consideration market readiness, impacts, benefits and ease of adoption of the innovation.

• Throughout the two-year deployment cycle, specifications, best practices, lessons learned and relevant data are shared among stakeholders through case studies, webinars and demonstration projects. The result is rapid technology transfer and accelerated deployment of innovation across the nation.
Projects eligible for funding shall include proven innovative practices or technologies such as those included in the EDC initiative. Innovative technologies and practices are:

- innovative project delivery methods that improve work zone safety for motorists or workers and the quality of the facility;
- innovative technologies, manufacturing processes, financing, or contracting methods that improve the quality of, extend the service life of, or decrease the long-term costs of maintaining highways and bridges;
- technologies and practices that accelerate project delivery while complying with other applicable Federal laws (including regulations) and not causing any significant adverse environmental impact; or
- technologies and practices that reduce congestion related to highway construction.
Part of Montana AID funding

This is about one third of the paper from one district office!!!!
At $2 per piece of paper, it really starts adding up
AID Examples

- **Montana Department of Transportation**, $816,000
  Project: [Systems Engineering Analysis for a Statewide Traffic Signal System Evaluation](#)
  Innovation: Traffic Signal System Evaluation

- **Oregon Department of Transportation**, $277,152
  Project: Expediting on-scene investigation/reconstruction mapping activities along Interstate 5 (I-5) corridor
  Innovation: Robotic Total Measuring Stations for [Traffic Incident Management (TIM)](#)

- **Utah Department of Transportation**, $626,229
  Project: e-Construction to improve business practices
  Innovation: [e-Construction](#)

- **Washington State Department of Transportation**, $1,000,000
  Project: [Light-Emitting Diode (LED) Adaptive Roadway Lighting on Interstate 5](#)
  Innovation: LED Adaptive Roadway Lighting System
• Each State operates its innovation deployment committee or group based on its unique business needs and approaches to meeting those needs.
• Innovation deployment programs as the driving force nationally, the need for every State to have an innovation deployment committee or similar group is essential to ensure that the innovation deployment remains a State-based initiative.
STIC Incentive Program

Examples:

• Idaho 2015 - Hosting a demonstration workshop on Geosynthetic Reinforced Soil – Integrated Bridge System bridge construction for statewide participation by local agencies
  $84,500

• Idaho 2016 - Hosting a 2-day workshop to advance 3D Modeling and Automated Machine Guidance
  $ 97,888

• Montana 2015 - Development and execution of a Design Workflow Study & 3D Model Centric Implementation Plan to transition from a 2D paper plan workflow to 3D model workflow
  $ 80,000

• Montana 2016 – Enhancements to Engineering Project System, handling more than 400 projects.

• North Dakota - Implementation of e-Construction through the expanded use of mobile devices for field personnel
  $ 100,000

• South Dakota - Development of a Highway ROW Inventory Asset Database (Phase 2)
  $ 100,000

• Washington - Advance the use of a radar system that uses data from elk radio collars to activate flashing beacons as a safety measure to warn motorists of the elks’ presence
  $ 100,000

• Wyoming - Expand the deployment of technology associated with the Road Condition Reporting mobile app
  $ 100,000
Favorable Match

Favorable Match is not a grant, it accommodates innovative practices that are not industry proven to be used on current agency projects.

Innovative work tied to a federal aid project can get an additional 5% match...not just for the innovative part, but for the whole project. That is compared to the normal 87% match in federal funds!

Small pay items leverage big payoff

EXAMPLES:
Montana:

• Harrison Ave S. – urban project – innovation: 3/8” plant mix to accelerate construction with no chip seal required.
• Madison Street Bridge – innovation: accelerate project with design build, 5 years cut off final construction.

Other innovations:

• Water / oil separators on storm drains to improve environmental compliance
• Innovative traffic control to reduce construction contract time
• Pile load dynamic testing to improve pile design and reduce construction time
• Use of UAV technology to calculate & validate earthwork quantities for contractor payment
LAST BUT NOT LEAST
IHEEP 2016 HELENA, MT
SEPTEMBER 11TH – SEPTEMBER 15TH

[Image of a town with a church and surrounding greenery during sunset]