Activities that may qualify for the STIC Incentive funding

The STIC Incentive Program provides up to $100,000 per State Transportation Innovation Council (STIC) per year to support the costs of standardizing innovative practices in a State DOT or other public sector STIC stakeholder. The Division Offices are responsible for administering the STIC Incentive program. After the Division Office deems the proposal is eligible and meets all program criteria then funds are requested through CAI.

3D Modeling
Contact: Christopher.Schneider@dot.gov

- Education and training on how to use 3D software and associated hardware to create 3D models, or connect a 4D construction schedule or 5D cost information to the 3D design model using 4D and 5D simulation software.
- Workflow and Specifications Development – develop a business process to provide the 3D model and/or digital design data to the contractor, and develop construction QA specifications and related workflow for the DOT construction field personnel that manage projects using 3D models.
- Develop a policy or standards for capturing 3D digital as-built data after construction to create an accurate as-built record including subsurface utilities.
- Education and training of construction personnel in field data capture.
- Education and training of asset managers to how as-found digital survey data are processed and used to define new type datasets for asset management.

Data Driven Safety Analysis
Contact: Jerry.Roche@dot.gov

- Create an implementation plan to incorporate predictive and/or systemic safety analysis into their project development and safety management processes and into applicable policies and procedures (FHWA can assist)
- Develop plan to integrate safety performance into all highway investment decisions.
- Establish an evaluation plan to compare predicted safety performance to actual safety performance.
- Develop DOT District and Local Safety Plans using predictive and/or systemic approaches
- Host training and workshops for public and private transportation professionals from design, environment, planning, and safety disciplines on how to incorporate predictive and systemic analysis into the Project Development process, including the Safety Analysis of Freeways and Interchanges course in Fall 2015 (FHWA can assist)
- Calibrate or develop State-specific HSM Safety Performance Functions for crash prediction for each facility type (FHWA can assist)

- Procure copies of the 2014 HSM 1st Edition Supplement on predictive methods for freeways and interchanges
- Assist in the procurement of safety analysis software that employs predictive and/or systemic methods

e-Construction
Contact: Bryan.Cawley@dot.gov

- Develop plan for converting existing infrastructure to accommodate the implementation of e-Construction.
- Assist in procurement of software, hardware, tools, or training to adopt e-Construction.
- Organize workshop demonstrating technologies and best practices associated with e-Construction.

Geosynthetic Reinforced Soil – Integrated Bridge System
Contact: Daniel.Alzamora@dot.gov

- Fund the cost to modify or develop standard plans and specifications to incorporate GRS-IBS.
- Develop a video to use as a promotional tool demonstrating the ease and speed of construction of GRS-IBS.
- Staff support to develop implementation guides.

Improving Collaboration and Quality Environmental Documentation (eNEPA and IQED)
Contact: Kreig.Larson@dot.gov (eNEPA)
Contact: Tricia.Harr@dot.gov (IQED)
Carolyn.Nelson@dot.gov (IQED)

- Develop a "How to" guide or training material for IQED and incorporate into existing standard operating procedures.
- Convene a workshop comprised of consultants, DOT, and FHWA to develop an implementation plan for IQED.

Improving DOT and Railroad Coordination (SHRP 2 R16)
Contact: Joseph.Taylor@dot.gov

- Develop master agreement, Memorandum of Understanding/Memorandum of Agreement (MOU/MOA), or standardized model agreement with railroad agencies.
- Host quarterly, semi-annual and annual meetings with Railroad partners to improve communication and coordination activities.
- Assess, review, and streamline internal and external processes with Railroad partners.

- Develop process improvement framework(s).

Locally Administered Federal-Aid Projects: Stakeholder Partnering
Contact: Michael.Smith@dot.gov

- Integrate the use of Federal-aid Essentials online videos into a state certification program. Ohio DOT has recently done this. Link to the videos can be found here: http://www.fhwa.dot.gov/federal-aidessentials/indexofvideos.cfm
- Host an annual stakeholder partnering meeting comprised of State, FHWA and Local Public Agencies to discuss ways to advance project delivery of the Federal-aid program by Local Public Agencies.

Regional Models of Cooperation
Contact: Jody.McCullough@dot.gov

- Develop Memorandum of Agreement (MOAs), agreements and work plans with multi-MPO or multi-State for the development of products/studies.
- Coordination by MPOs to share data, models and tools.
- Develop multi MPO or agency planning analysis and products, such as congestion management process, safety, freight, long range planning, performance based planning and programming, or environmental mitigation activities.

Road Diets
Contact: Rebecca.Crowe@dot.gov

- Develop implementation guidance, policies and processes on implementing Road Diets.
- Create a Road Diet Action Plan that effectively focuses resources to improve safety, operations, and livability.
- Educate and train staff (engineers, planners, pavement specialists, local public agencies, etc.) on the safety, operational, livability and economic development benefits of Road Diets or develop training materials to implement policy.
- Perform an evaluation of an existing Road Diet to document the benefits.
- Develop materials and presentations to educate residents and business owners about the benefits of Road Diets.
- Use visualization software and develop 3-D graphics that can be presented to stakeholders to show before and after conditions of a Road Diet from the perspective of drivers, pedestrians, bicyclists and transit operators.

Smarter Work Zones
Contact: Paul.Pisano@dot.gov
Jawad.Parach@dot.gov

- Develop business processes (policies, procedures, standards, and specifications) for implementing Project Coordination and/or Technology Applications to manage work zone impacts.
- Develop tools for implementing SWZ strategies (e.g., mapping tools for project coordination, tool for identifying locations that may benefit from technology applications, tool for monitoring mobility performance using probe based data, etc.)
- ~~Contractor support for piloting/implementation of WISE tool.~~
- Develop training material that supports implementation of state specific SWZ strategies.

Ultra-High Performance Concrete Connections for Prefabricated Bridge Elements
Contact: Benjamin.Beerman@dot.gov

- Develop implementation and or design guide for UPHC.
- Develop standards and specification for UHPC.