



**Department of
Transportation**



Every Day Counts State Transportation Innovation Council National Web Conference October 1, 2015

New York State Perspective

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New York State Perspective: Approach & Benefits

- STIC
- Action Plan
- Incentive/Grants

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New York State Transportation Innovation Council (STIC)



Federal Highway Administration
Every Day Counts
Innovation Initiative

Every Day Counts

innovation ingenuity
inspiration invention

**New York
State Transportation Innovation Council (STIC)
Charter**

Purpose
This Charter establishes the New York State Transportation Innovation Council (STIC) and defines its mission, scope and responsibility, membership, and administration.

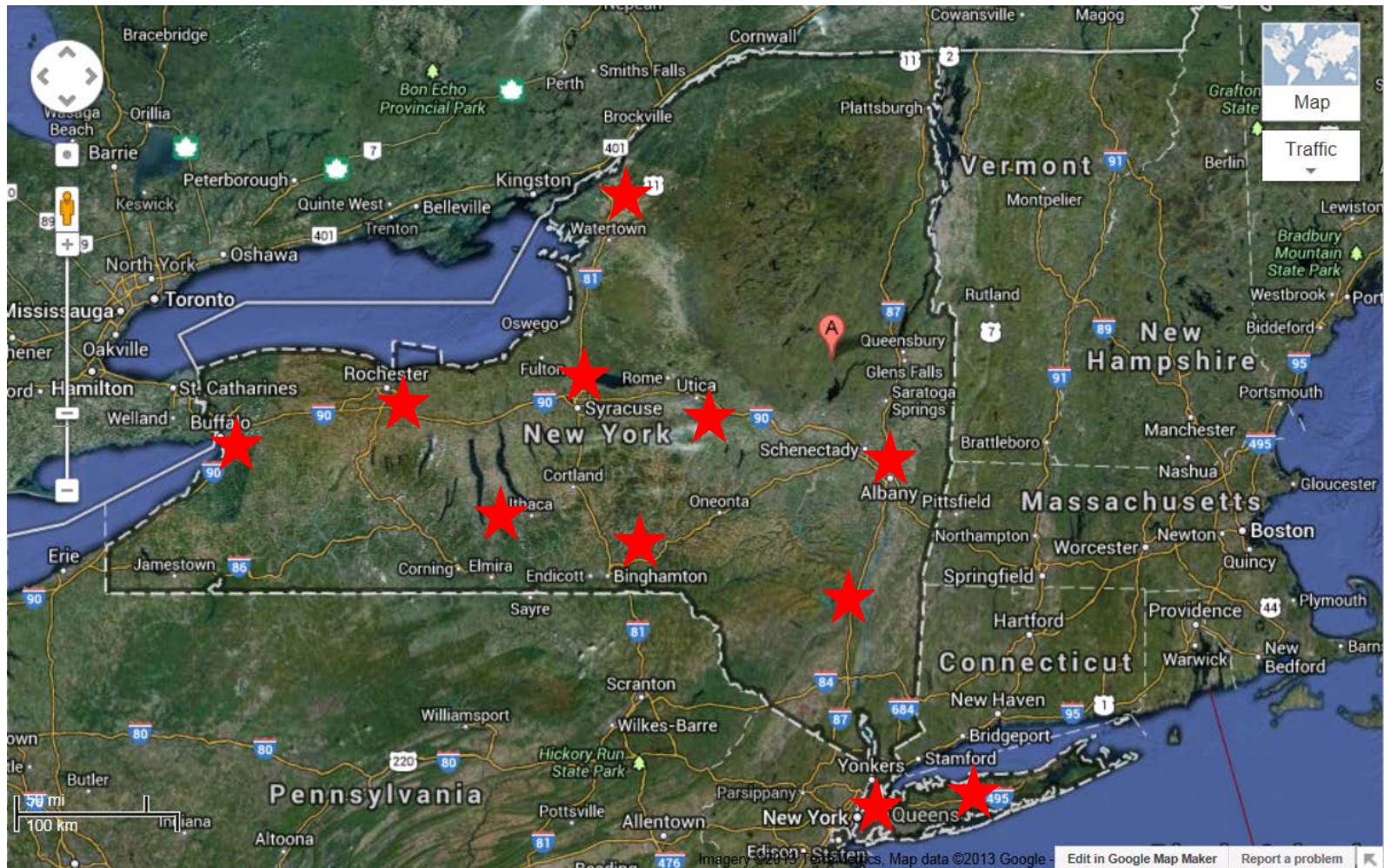
Vision
The New York State Transportation Innovation Council (STIC) will foster a collaborative culture for rapid implementation of meaningful innovations to efficiently deliver a modern, high quality highway system to the public.

Mission

STIC Charter



Exchanges



Action Plan

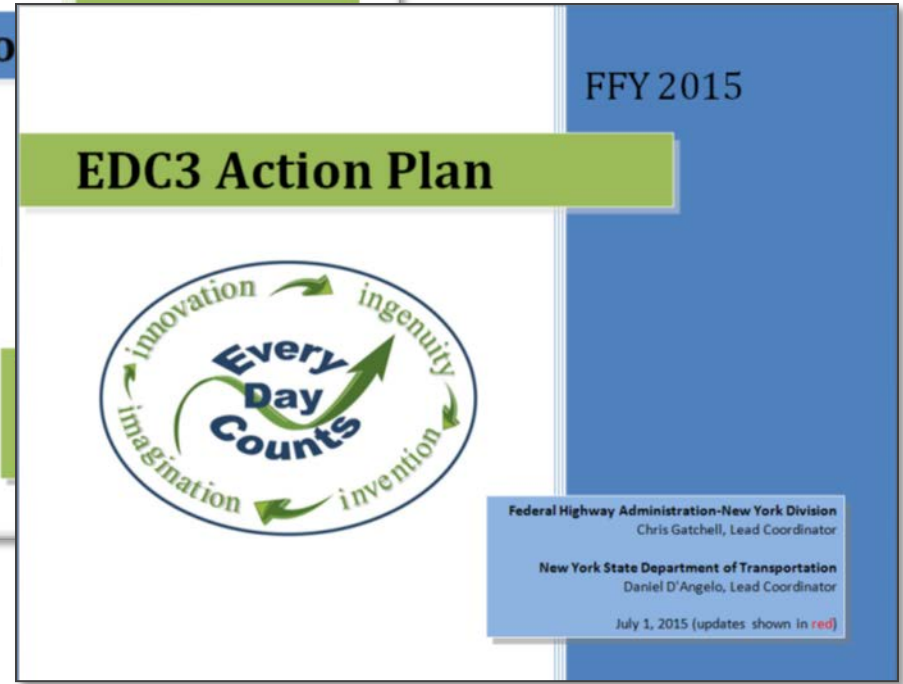
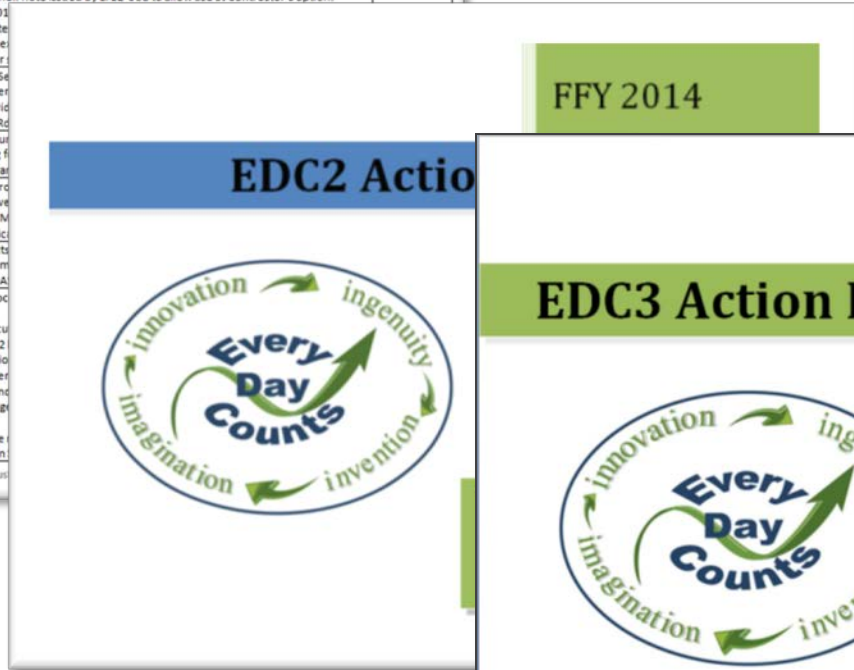
Every Day Counts (EDC): Invention, Ingenuity, Imagination and Innovation
 FHWA New York Division and NYS DOT – Baseline Assessment, FFY12 Action Plan and Accomplishments

NYS DOT-FHWA Every Day Counts Dashboard

● Implemented ● Implementing ● Investigating

Initiative	page	Accomplishment Summary	Status
Warm Mix Asphalt (WMA)	3	Special Specification developed. Proposal note/shelf note issued by E112-008 to allow use at Contractor's option. 19 projects in 2012. WMA used as a test. Shared NYS DOT encourage other	
Prefabricated Bridge Elements and Systems (PBES)	6	Bridge Manual (See NY Works Acceler Utilized on 14 bridge over Dingle Rd	
Geosynthetic Reinforced Soil (GRS)	9	St. Lawrence County NYS DOT utilizing initiated review	
Safety Edge	11	110 projects through E110-12, effective Highway Design Manual Standard Specific	
Adaptive Signal Control Technologies	13	Two pilot projects. Project development for the Wolf Rd. A	
Design-Build	14	Design-Build Proc 2012. Governor's Executive reconstruction, 2. Enabling legislation NY Works Acceler totaling \$85M and Tappan-Zee Bridge design-build. Kosciusko Bridge reconstruction in	

FHWA New York Every Day Counts – Baseline Assessment and Action Plan – August



New York Action






Round	# Initiatives	Adopted/Pursuing
EDC1	15	14
EDC2	17	16
EDC3	11	11
Total	33	31

EDC3 Dashboard

Federal Highway Administration - New York State Department of Transportation
Every Day Counts 3 (EDC3) Dashboard

Federal Highway Administration - New York State Department of Transportation Every Day Counts 3 (EDC3) Dashboard			
Initiative	page	Major Accomplishments	Status
Shortening Project Delivery			
Regional Models of Cooperation	4	MPOs engaged in State Freight Plan development. Technical working group formed to advise on management of large data sets. EBTC has developed a 2015 Work Plan	●
Locally Administered Federal-Aid Projects: Stakeholder Agreements (continuation from EDC2)	6	Started new webinar series; ADA held in April, EBO this summer. Completed and environmental scan of all NYSDOT Regions. Met with selected LPA's to troubleshoot programs and projects.	●
3D Modeling for Construction Means and Methods (continuation from EDC2)	9	A demonstration of an Unmanned Aerial System (UAS) w/ Close Range Photogrammetry technology held. Initiated discussions with CADD vendors for demonstrations of 3D modeling capabilities. Held quarterly meetings of the (CIM) Working Group.	●
Improving DOT and Railroad Coordination (SHRP2 R16)	19	Prepared and submitted to FHWA the project implementation plan on for IAP grant.	●
Accelerated Bridge Construction: Geosynthetic Reinforced Soil - Integrated Bridge System (GRS-IBS) (continuation from EDC2)	20	Extensive use by St. Lawrence County (14 bridges). GRS used for embankments; IBS guidance developed (NYSDOT). Hosted FHWA workshop in Potsdam.	●
e-Construction: Electronic Project Document Management Systems	22	Beginning a pilot for utilizing Mobile Inspector, to allow construction inspectors to complete Daily Work Reports on a mobile device. Evaluating a pilot project for to help further facilitate NYSDOT's paperless construction efforts.	●

Status Key:

-  **Institutionalized:** The innovation is adopted by the State's transportation community and used regularly on projects or within the program where appropriate.
-  **Assessment Stage:** Beyond testing/piloting the innovation. Assessing the performance and the process for carrying out the innovation and/or making adjustments to prepare for full deployment.
-  **Demonstration Stage:** Testing/piloting the innovation.
-  **Development Stage:** Collecting guidance and best practices, building support with partners and stakeholders, taking training, attending Peer-to-Peer workshops, and/or developing a process necessary for implementation of the innovation. Interested in pursuing the innovation or seeking additional information on how to implement it.
-  **Not Implementing:** Chose not to implement the innovation. Not interested in pursuing the innovation.

Accomplishments	Status
Mobility rule reporting into our views.	●
been installed. Pedestrian Count Down 00 intersections. Hosted 6 external ge.	●
or more than 40 road diets. Potential 4-ates and being reviewed.	●
ast decks, 3 deck bulb tee t superstructures and 1 NEXT Beam tions; two additional accelerated 015.	●
ach Region to discuss improvement ent and training/resource references	●
projects or within the program where appropriate. carrying out the innovation and/or making adjustments to	
ts, taking training, attending Peer-to-Peer workshops, vation or seeking additional information on how to	

Synergy—Compounding Benefits!



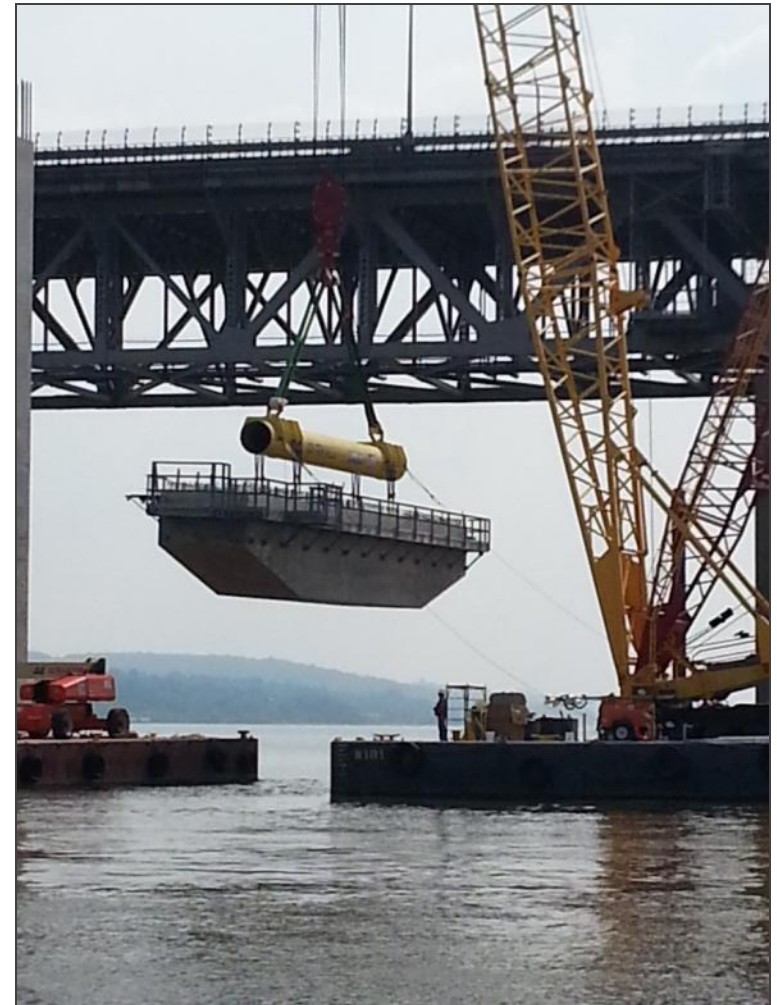
Delivering the Single Largest Bridge Construction Project in New York's History



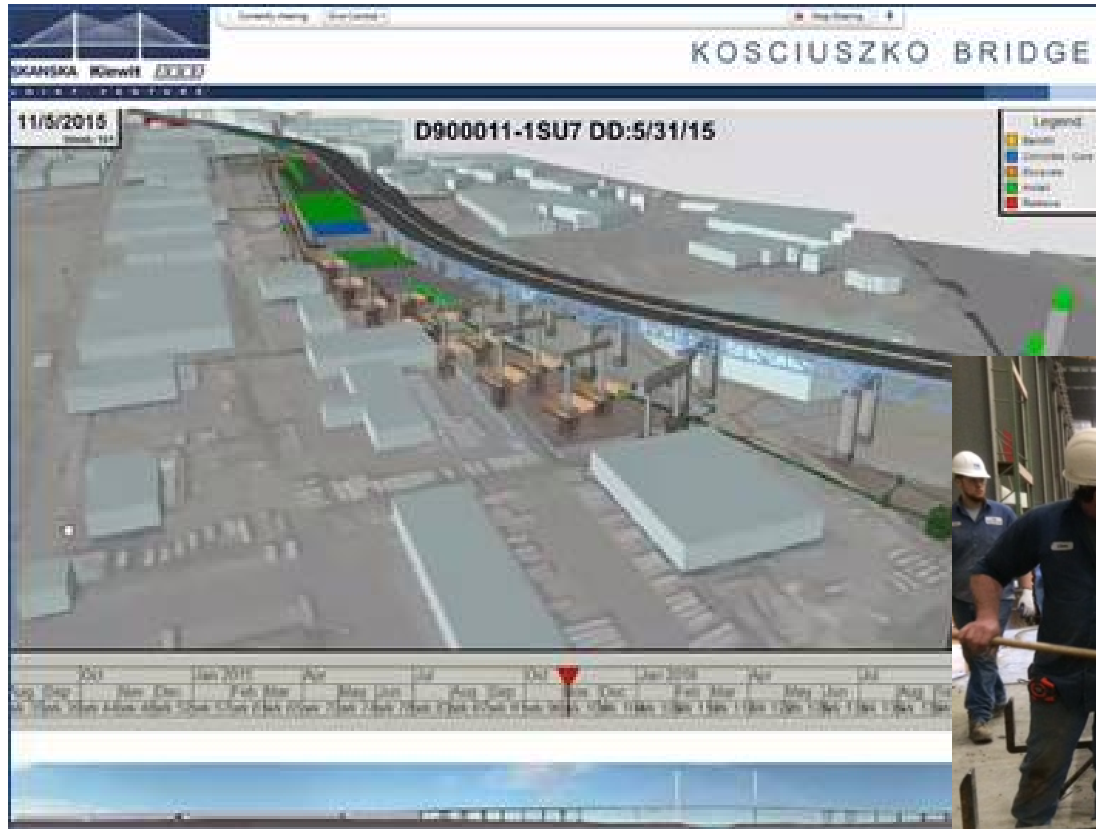
Synergy—Compounding Benefits!



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Synergy—Compounding Benefits!



STIC Incentive/AID



- ✓ Communication Plan
- ✓ CIM
- ✓ TIM Training
- ✓ TIM Peer Exchange
- ✓ “Smart Transportation Applications”

SHRP2 grants

- ✓ Geotech tools (R02)
- ✓ Railroad Mitigation (R16)
- ✓ Pavement Renewal (R23)
- ✓ Reliability Tools (L06/L01/L31/L34)
- ✓ Freight Demand Modeling (C20)
- ✓ Safety Data





**Department of
Transportation**

*** D R A F T ***

**Scope of Services
Process Improvements
and Innovation Adoption**

May 1, 2015

**Daniel D'Angelo
Deputy Chief Engineer**

FHWA-NY observations...



New York State Perspective: Approach & Benefits

- ✓ Philosophy - all
- ✓ Synergy
- ✓ Action Plan

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EDC Lead Coordinators:

Chris Gatchell, FHWA-NY

Daniel D'Angelo, NYSDOT