

NYSDOT-NYSAMPO Planning Program Integration

Strategic Action Agenda for SFYs 2014-15 and 2015-16

Updated for 6.22-6.23.15 NYSAMPO Conference



Fund sources targeted

- FHWA PL
- FTA MPP
- Statewide Planning and Research
- UTRC
- Others (as available)

Time periods targeted

- SFYs 2014-15 and 2015-16 Program Years
(beginning April 1, 2014 and ending March 31, 2016)

Integration Areas

**Data bases
& analytics**

**Capacity
building**

**Statewide
policy
planning**

**Statewide/
multi-MPO
systems
planning**

DATA BASES & ANALYTICS (Part 1)

- **D1 – Develop approaches for:**
 - **D1(a) Travel data** – for model maintenance, long-range planning/CMP and conformity
 - Focus on HERE data, ***national performance data base***, probe data, 511 and related operational data, survey data, origin-destination data
 - **STATUS: tasked to Modeling WG; working with SUNY Albany; intermediate report provided; update needed.**
 - **D1(b) Freight data** – for model maintenance, long-range planning/CMP and conformity
 - Focus on commodity flows, origins & destinations, truck and rail volumes
 - **STATUS: tasked to both Modeling & Freight WGs; Freight WG has made an SCI recommendation to the Directors; 2013 TranSearch data purchased by NYSDOT; update needed.**

DATA BASES & ANALYTICS (Part 2)

- **D1 (continued) – Develop approaches for:**
 - **D1 (c) National SED drivers** – identify data items procured
 - **STATUS: REVISIT** due to differing forecasting methodologies; poll MPOs for needs.
 - **D1 (d) Financial planning/needs assessment** – use of NYSDOT information and projections (focus on resources available and how they might be used)
 - **STATUS: uncertain.** This item is also related to Performance Management analytics and should be tasked to the MAP-21 WG.

D1(e) - Performance Measures

- Current and future asset conditions
 - Pavements (NHS)
 - Bridges (NHS)
 - Transit capital assets
- Current and future system conditions
 - Performance (NHS)
 - Serious injuries per vehicle mile travelled
 - Fatalities per vehicle mile travelled
 - Number of serious injuries
 - Number of fatalities
 - Traffic congestion
 - On-road mobile source emissions
 - Freight movement

D1(e) - PBPP Analytical Capabilities and Data Sources (revised 5.12.15)

Performance Measure	Primary & Visualization Tool(s)	Data Source(s)	Other Possible Tools
Pavement (NHS)	INAM (NYSDOT)	State/county/municipal data bases	Highway Economic Requirements System – State Version (HERS-ST)
Bridges (NHS)	INAM (NYSDOT)	State/county/municipal data bases	Highway Economic Requirements System – State Version (HERS-ST); National Bridge Inspection Analysis System (NBIAS)
Transit capital assets	TNAM (NYSDOT); MTA model	Section 15 reports; MTA capital plan	Transit Economic Requirements Model (TERM Lite)
Performance (NHS)	NYBPM & post-processors; conflation with NYS Mile Reference System, extraction of interstate & NHS subsystems	HERE data; HPMS; PIMS (expanded?)	
Serious injuries per vehicle mile travelled	PSS tab, crash modification factors & PIES, NYBPM	ALIS, DMV data bases	Interactive Highway Safety Design Model; www.safetyanalyst.org
Fatalities per vehicle mile travelled	PSS tab, crash modification factors & PIES, NYBPM	ALIS, DMV data bases	Interactive Highway Safety Design Model; www.safetyanalyst.org
Number of serious injuries	PSS tab, crash modification factors & PIES	ALIS, DMV data bases	Interactive Highway Safety Design Model; www.safetyanalyst.org
Number of fatalities	PSS tab, crash modification factors & PIES	ALIS, DMV data bases	Interactive Highway Safety Design Model; www.safetyanalyst.org
Traffic congestion	NYBPM & post-processors; conflation with NYS Mile Reference System	HERE data; HPMS; PIMS (expanded?); VPP Suite	
On-road mobile source emissions	NYBPM & post-processors; conflation with NYS Mile Reference System	HERE data; HPMS; PIMS (Table 5); VPP Suite	EMFAC Model
Freight movement	NYBPM	HERE data; TranSearch/Global Insights data; ATRI probe data	BCA.NET; Surface Transportation Efficiency Analysis Model (STEAM)

CAPACITY BUILDING

- **CB1** – Synthesize past programs with current needs as a revised staff training proposal to send back to UTRC
 - **STATUS: pilot UTRC “asynchronous” course in progress; course evaluation to follow as a lead-in to the development of a full training program.**
- **CB2** – Explore training for MPO principal members
 - **STATUS: no progress.**
- **CB3** – Explore training for local project sponsors (**per SPP2 on project delivery**)
 - **STATUS: Cornell local roads program and Safety WG.**
- **CB4** – Develop an eSTIP users group and training
 - **STATUS: training at 2015 conference.**

STATEWIDE POLICY PLANNING (Part 1)

- **SPP1 – Performance-Based Planning and Programming**
 - Commentary on NPRMs **STATUS: see following slide.**
 - Define relationship to TAMP **STATUS: commentary submitted.**
 - Explore data sources and model methodology of the infrastructure prediction models **STATUS: see following slide.**
 - Centralized analysis model (through SUNY or UTRC)
 - PBPP implementation and target setting at state and MPO levels **STATUS: tasked to MAP-21 WG.**
- **SPP2 - Project delivery process improvements**
 - Review federal guidance; FHWA EDC program **STATUS: no progress.**
 - Review GAO paper on managing local projects **STATUS: no progress.**
 - NYSDOT program delivery initiatives; expedited procurement/contracting methods **STATUS: NYSDOT presentation provided.**

MAP-21 Performance Area	Program Area	Rulemaking	Measure(s) Defined?	Lead USDOT Agency	Likely Leads for Measurement
Pavement (NHS)	National Highway Performance Program (NHPP)	NPRM issued – January 5, 2015 (comments due May 8, 2015)	% of pavements on the Interstate System and NHS (excluding the Interstate System) in good or poor condition	FHWA	NYSDOT
Bridges (NHS)	National Highway Performance Program (NHPP)	NPRM issued – January 5, 2015 (comments due May 8, 2015)	% of bridges on the NHS in good or poor condition	FHWA	NYSDOT
Transit capital assets	Transit Asset Management (TAM)	ANPRM issued – October 3, 2013 (comment period closed)	No	FTA	Transit operators
Transit safety	Transit Asset Management (TAM)	ANPRM issued – October 3, 2013 (comment period closed)	No	FTA	Transit operators
Performance (NHS)	National Highway Performance Program (NHPP)	None	No (anticipated: annual delay and reliability index)	FHWA	MPOs
Injuries	Highway Safety Improvement Program (HSIP)	NPRM issued – March 11, 2014 (comment period closed)	Serious injuries per vehicle mile travelled; number of serious injuries	NHTSA	MPOs
Fatalities	Highway Safety Improvement Program (HSIP)	NPRM issued – March 11, 2014 (comment period closed)	Fatalities per vehicle mile travelled; number of fatalities	NHTSA	NYSDOT
Traffic congestion	Congestion Mitigation Air Quality (CMAQ)	None	No	FHWA	MPOs
On-road mobile source emissions	Congestion Mitigation Air Quality (CMAQ)	None	No	FHWA	MPOs
Freight movement	National Freight Policy	None	No	FHWA	TBD

STATEWIDE POLICY PLANNING (Part 2)

- **SPP3 - Sustainability planning/quality communities**
 - White paper on MPO sustainability planning activities; define the activity and MPO, NYSDOT roles **STATUS: tasked to Climate Change WG; draft completed.**
 - Review NYSERDA *Cleaner, Greener* plans, review SCI results, review REDC plans and projects **STATUS: no progress.**
 - Consider GHG inventories and use; review FHWA INVEST tool **STATUS: webinar on INVEST tool held.**
 - Define sustainability performance measures **STATUS: no progress.**
 - Explore collaboration with NYSDOT Sustainability Asset Team **STATUS: no progress.**
 - Discuss increasing importance of resiliency planning; consider a survey of MPO resiliency activities; review *NY Rising Communities* plans **STATUS: no progress.**

STATEWIDE/MULTI-MPO SYSTEMS PLANNING

- **SSP1 - Rail freight**
 - Identification of strategic freight issues and projects in New York State Freight Plan **STATUS: tasked to Freight WG.**
- **SSP2 - Empire Corridor HSR**
 - Continued EPA participation – **in place?**
 - Coordinated MPO comments on DEIS **STATUS: commentary submitted.**
- **SSP3 - Congestion management**
 - Establish a Transportation Systems Management & Operations Working Group to include TDM and ATDM **STATUS: development completed, in progress.**

Summary of Activities Tasked to Working Group

- Modelling
 - Develop recommendations on travel and freight data
- Freight
 - Collaborate with Modelling WG on freight data
 - Identify strategic freight issues and projects for the New York State Freight Plan
- MAP-21
 - Develop recommendations on PBPP analytics & implementation
 - Develop recommendations on financial planning & needs assessment data
- Climate change
 - Develop a white paper on MPO sustainability planning activities