

ITS US

IT'S TRANSPORTATION FOR ALL OF US

Task 2-K:Performance Measurement and IE Support



Elina Zlotchenko

ITS4US Program Manager

ITS Joint Program Office





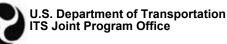
ITS4US Program Overview

- A USDOT Multimodal Deployment effort, led by ITS JPO and supported by OST, FHWA and FTA
- Supports multiple large-scale replicable deployments to address the challenges of planning and executing all segments of a complete trip

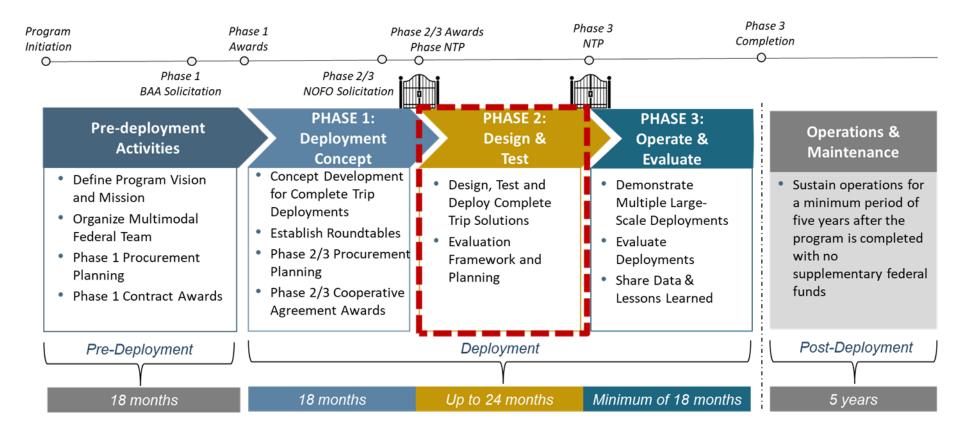


Vision: Innovative and integrated complete trip deployments to support seamless travel for all users across all modes, regardless of location, income, or disability

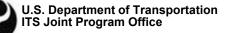




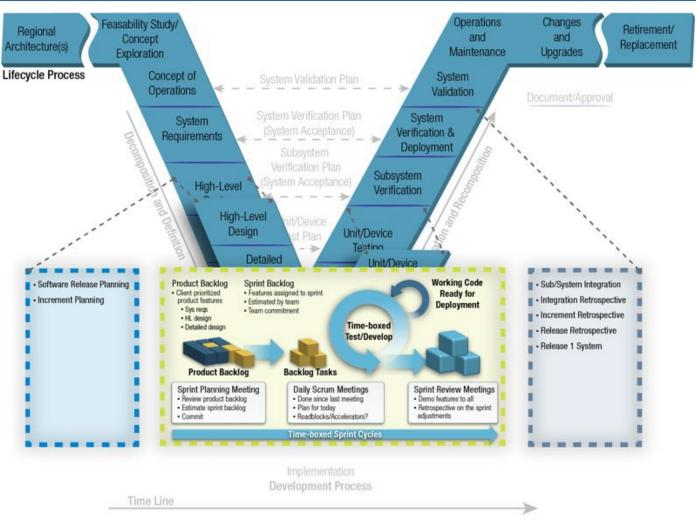
Deployment Phases







Systems Engineering "Vee" Diagram



(Source: FHWA 2007 and modified by Noblis 2017)



U.S. Department of Transportation ITS Joint Program Office



Task 2-K: Performance Measurement and IE Support





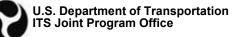


Christina Gikakis

Sr. Engineer/Program Manager Office of Mobility Innovation Federal Transit Administration

ITS4US Performance Measurement SME





2-K Performance Measurement and IE Support

- Task 2-K extends from Month 5 to Month 24. A key activity is the collection, processing and sharing of **baseline data** necessary for the performance measurement and evaluation, using the Phase 1 PMESP and Phase 2 DMP to guide processes.
- Key documents are the Performance Measurement and Evaluation Support Schedule (PMESS) and monthly updates, updated PMESP and HUAS, as well as any materials identified in the PMESP and PMESS.

Deliverables

- 1. PMESS
- 2. PMESS Monthly Progress Updates and Risk Assessments
- 3. Updated PMESP
- 4. Revised HUAS (updated as necessary with IRB approval)
- 5. Performance Measurement Materials identified in the PMESP and PMESS





PMESS Requirement

- Format: MS Project and MS Excel Spreadsheet
- Content:
 - Work breakdown structure of activities
 - Milestones, performance summary reports, data collection (baseline and/or post deployment), surveys, dashboard development, etc.
- Review and Update:
 - An initial draft PMESS to the AOR for review and approval
 - PMESS monthly update
 - Document progress against plan
 - Track risks/issues





PMESS Template & Monthly Updates (Part 1)

Task Name 🗸	Duration -	Start -	Finish 🚽	% Complet •	Contractual Deliverables 👻	SDS 🗸	tis 🗸	IORS 🚽	ois 🗸	PMESS 🗸	Notes 🗸
2-K Performance Measurement and IE Support	523 days?	Wed 6/15/22	Fri 6/14/24	0%							
Initial Performance Measurement and Evaluation Support Schedule (PMESS)			Tue 12/6/22	0%	~					~	
Monthly Updates to PMESS			Fri 6/14/24	0%	~					~	Monthly updates at the time of progress
Updated Performance Measurement and Evaluation Support Plan (PMESP)			Fri 6/14/24	0%	~						Minimum 1 update
Revised Human Use Approval Summary			Fri 6/14/24	0%	\checkmark						As needed, per IRB approval
Performance Measurement Materials			Fri 6/14/24	0%	~					~	Materials and timing determined by the PMESP and



PMESS Template & Monthly Updates (Part 2)

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PMESS Template & Monthly Updates (Part 3)

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			Jump to	Instructions						
			Jump to	Risk Register						
Deployment Site Monthly Update Component		0 PMESS Data Impact Log								
			DA	A IMPACT LOG						
Date	Issue Description		Data Impact	Performance Measures Impact		Duration	Reference Documents			
xx/xx/xxxx	Installation is delayed due to device shipment delay		vehicle baseline data	travel time		xx/xx/xxxx - xx/xx/xxxx	See IORS			
xx/xx/xxxx	Phone apps update did not go through successfully		personal location	trip planni	ng	xx/xx/xxxx - xx/xx/xxxx	See SOMS			
		site is respons	ible for identifying impacts	to be						
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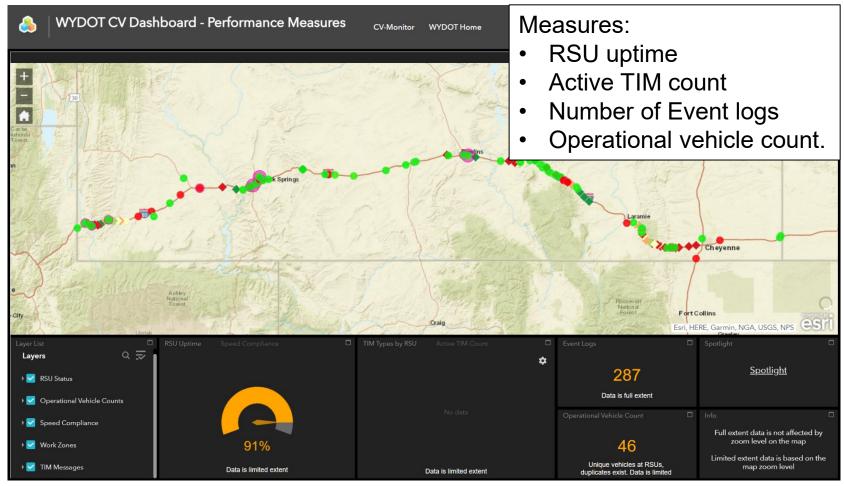
Site Performance Measurement Dashboard

- NOFO requirement:
 - At least one dashboard that shows performance to date on key performance measures and targets.
 - □ All dashboards should be updated regularly, as per the PMESS.
- Example dashboards from CV Pilot sites:
 - WYDOT CV Pilot:
 - <u>https://wydot.maps.arcgis.com/apps/webappviewer/index.html?id=1e41</u> c17c89b643f5b16291a3bce5885b
 - NYCDOT CV Pilot:
 - https://cvp.nyc/project-status
 - □ THEA CV Pilot:
 - https://cavdashboard.com





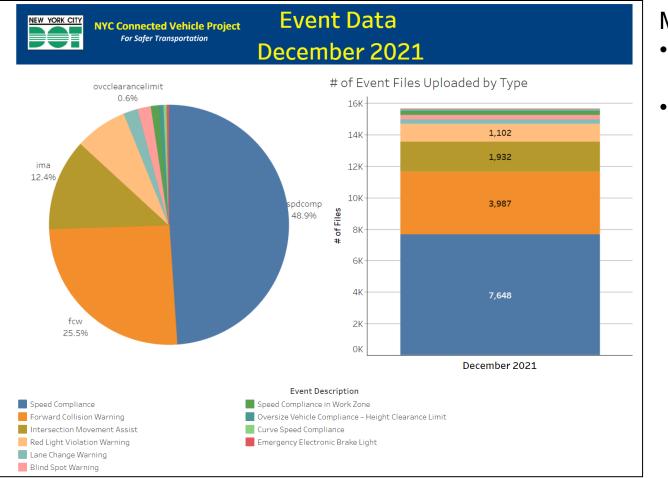
WYDOT CV Pilot Dashboard



Source: USDOT / WYCDOT CV Pilot



NYCDOT CV Pilot Dashboard



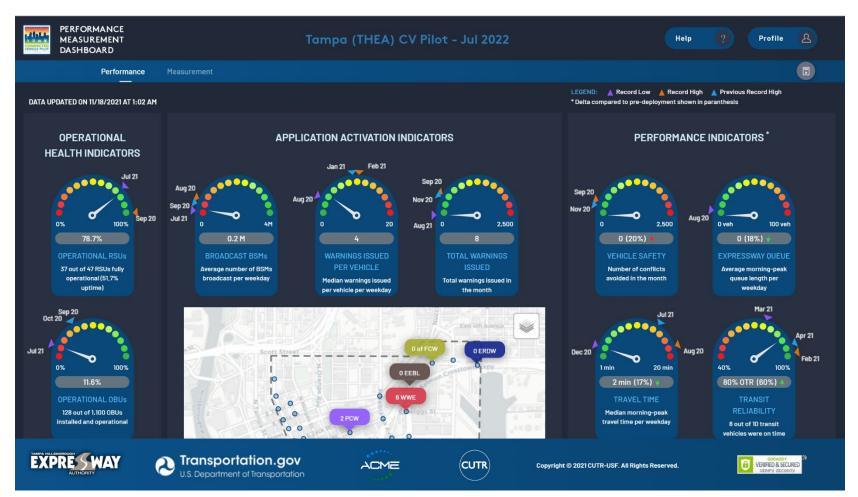
Measures:

- Number of event files by CV apps.
- Percentage of event files by CV apps.

Source: USDOT / NYCDOT CV Pilot



THEA CV Pilot Dashboard - High Level Performance



Source: USDOT / THEA CV Pilot



THEA CV Pilot Dashboard – Detailed Data



Source: USDOT / THEA CV Pilot





Melissa Wong

Program Manager Innovative Research Division Volpe, USDOT

ITS4US Independent Evaluation Lead





Independent Evaluation Deliverables

- Independent Evaluation Deliverables During Phases 2 and 3:
 - Review Lessons Learned: review and provide input on documented lessons learned provided by sites to improve utility of material.
 - Performance Results Assessment: document findings from sites' Phase 2 deliverables and Phase 3 deployment site-reported performance measurement results.
 - Conduct Interviews and Questionnaires: conduct the interviews/survey and document the results and stakeholder feedback.
 - Conduct Financial and Institutional Assessment: conduct the financial and institutional assessment informed by site documents and/or interviews.
 - Conduct National Replicability Assessment: collect and synthesize site statistics, conduct synthesis and estimation for national replicability.



Independent Evaluation Coordination

Expected Coordination:

- IE will review Lessons Learned:
 - During Phase 2 and 3, Volpe will review the site lessons learned logbooks and providing input that may assist each site in documenting thorough materials.
- Sites will provide access to performance and other data supporting a comprehensive assessment of deployment impacts.
 - Sites will share initial performance dashboard with IE and provide access as needed.
 - Sites will provide access to baseline (BEFORE) data to IE.
 - IE will review updated PMESPs when available.
- □ Sites will participate in the interview/survey conducted by IE.
 - If needed, sites will provide access to deployment managers, team members, partners and stakeholders.
 - Currently the IE plans on both Pre and Post Deployment interviews.
- □ Both sites and IE will participate in the PMESP roundtable as needed.
- □ Representative from IE team will attend site specific meetings as appropriate.





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Visit the ITS4US Deployment Program Website:

https://its.dot.gov/its4us/

ITS4US Deployment Program Video <u>https://youtu.be/pztl1lRyXAc</u>





