



SHRP2 Solutions: C19 Expediting Project Delivery Session 2

Kate Kurgan, AASHTO Damaris Santiago, FHWA



AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS



SHRP2 at a Glance

- SHRP2 Solutions 63 products
- Solution Development processes, software, testing procedures, and specifications
- Field Testing refined in the field
- Implementation More than 430 transportation projects; adopt as standard practice
- SHRP2 Education Connection connecting next-generation professionals with next-generation innovations





Focus Areas





Safety: fostering safer driving through analysis of driver, roadway, and vehicle factors in crashes, near crashes, and ordinary driving



Reliability: reducing congestion and creating more predictable travel times through better operations



Capacity: planning and designing a highway system that offers minimum disruption and meets the environmental and economic needs of the community



Renewal: rapid maintenance and repair of the deteriorating infrastructure using already-available resources, innovations, and technologies



SHRP2 Implementation Assistance Program

• Round 7:

- 13 products or bundles of products
- 1 capacity; 3 reliability; 9 renewal products
- 42 recipients just announced in June 2016
 - 37 state DOTs
 - 4 MPOs
 - 1 Federal Lands Highway
- 79 projects in 37 states





SHRP2 Implementation: Moving Us Forward

As of November 2015:





Save lives, money, and time

- Bridges being built more quickly
- Smoother traffic flows and less congestion
- Reduced construction costs
- Safer roadways
- Smarter environmental reviews



TR0628161105WDC

Expediting Project Delivery

- Expediting Project Delivery identifies 24 strategies for addressing or avoiding 16 common constraints in order to speed delivery of transportation projects.
- Strategies Grouped Under Six Objectives:
 - Improve internal communication and coordination;
 - Streamline decision-making;
 - Improve resource agency involvement and collaboration;
 - Improve public involvement and support;
 - Demonstrate real commitment to the project; and
 - Coordinate work across phases of project delivery.

SOLUTIONS | 6

Expediting Project Delivery

	Stage of Project Planning or Delivery				
	Early Planning	Corridor	NEPA	Design/ROW/	Construction
Strategy		Planning		Permitting	
1. Change-control practices			•	•	•
2. Consolidated decision council		0	•	•	
3. Context-sensitive design and solutions	0	0	•	•	0
4. Coordinated and responsive agency involvement	0	•	•	•	•
5. Dispute-resolution process		0	•	•	0
6. DOT-funded resource agency liaisons		0	•	•	
7. Early commitment of construction funding	•	•	•		
8. Expedited internal review and decision-making	•	•	•	•	
9. Facilitation to align expectations up front	0	•	•		
10. Highly responsive public engagement	•	•	•	•	0
11. Incentive payments to expedite relocations				•	
12. Media relations manager		•	•	•	0
13. Performance standards	0	•	•	•	
14. Planning and environmental linkages	•	•	•		
15. Planning-level environmental screening criteria	•	•			
16. Programmatic agreement for Section 106			•	•	
17. Programmatic or batched permitting			•	•	
18. Real-time collaborative interagency reviews	0	0	•	0	
19. Regional environmental analysis framework	0	•	•	•	
20. Risk management	•	•	•	•	•
21. Strategic oversight and readiness assessment	0	•	•		
22. Team co-location		0	•	•	
23. Tiered NEPA process	0	•	•		
24. Up-front environmental commitments		•	•	•	



For More Information



Kate Kurgan

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Damaris Santiago Environmental Protection Specialist, FHWA damaris.santiago@dot.gov

Additional Resources:

GoSHRP2 Website:	fhwa.dot.gov/GoSHRP2
AASHTO SHRP2 Website:	http://shrp2.transportation.org
GoSHRP2 Alert Sign Up:	fhwa.dot.gov/goshrp2/contact
Email:	GoSHRP2@dot.gov







 <u>Massachusetts DOT</u> – Jose Simo: MassDOT's Roads & Highways GIS system

 <u>Arkansas State Highway and Transportation Department -</u> Elisha Wright-Kehner: Development of an improved process for project delivery

 <u>Florida DOT</u> – Steve Braun: Implementing streamlining recommendations to improve project delivery process

• Panel: Question and Answers



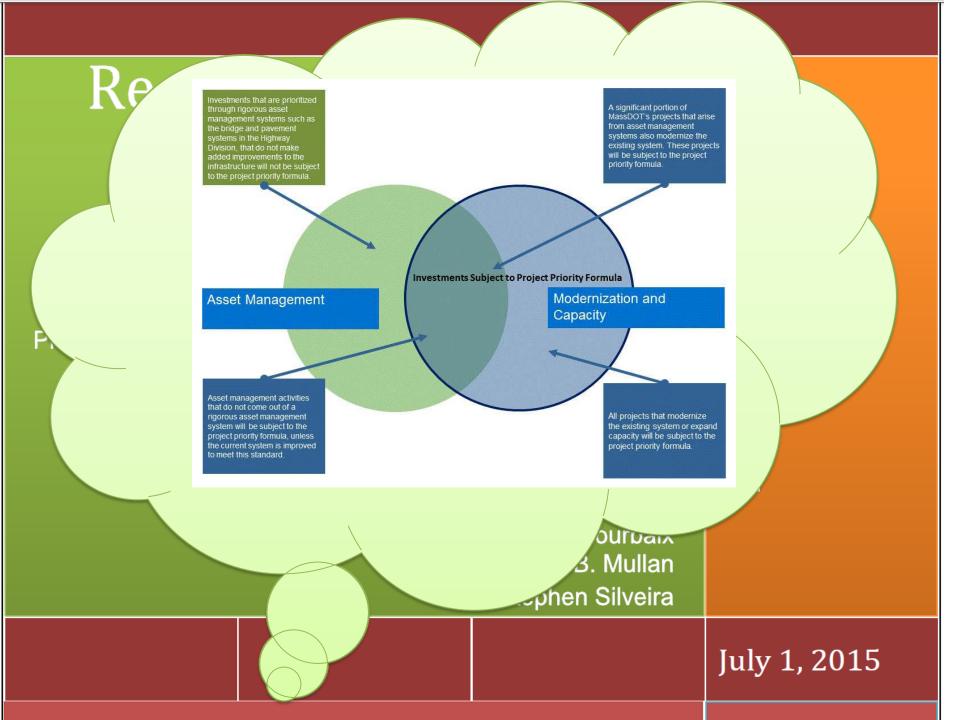
MaPPS Tool What is it?

MassDOT Project Planning System is a planning phase tool with environmental and safety screening function, to improve agency project coordination and expedite project delivery

Every Day Counts 2

- Agency & Business Process Implementation Teams
- Strategic Highway Research Program 2
- Funding & FHWA Implementation Assistance

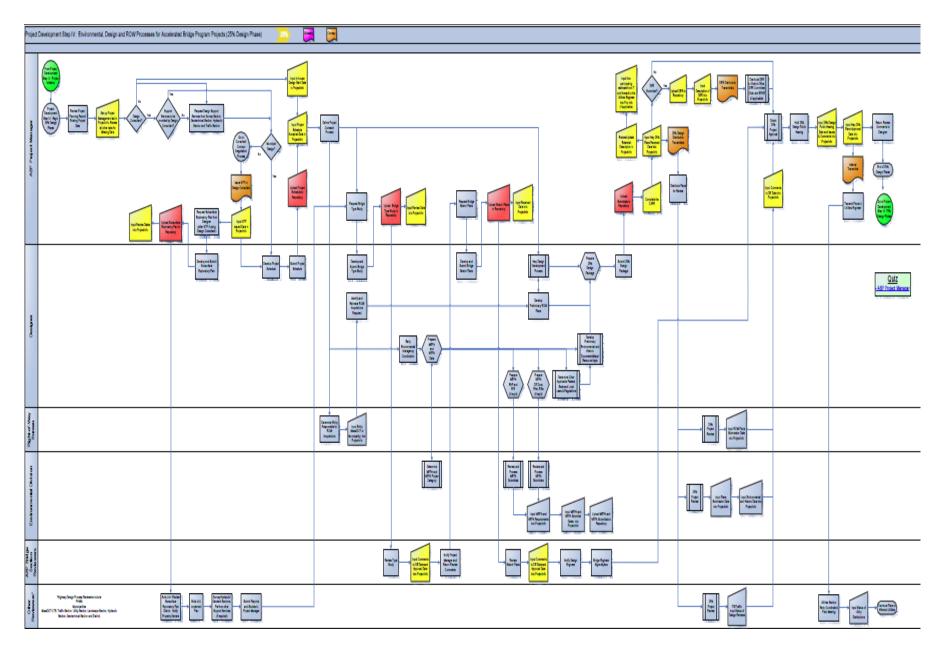




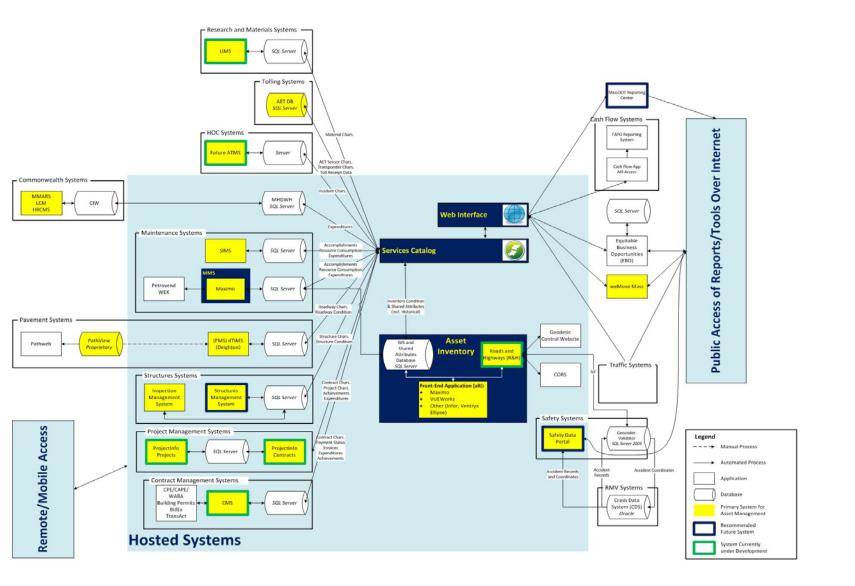
Complex Processes



Project Development Step IV: Environmental, Design ...



Why a New Approach?



Complex Processes

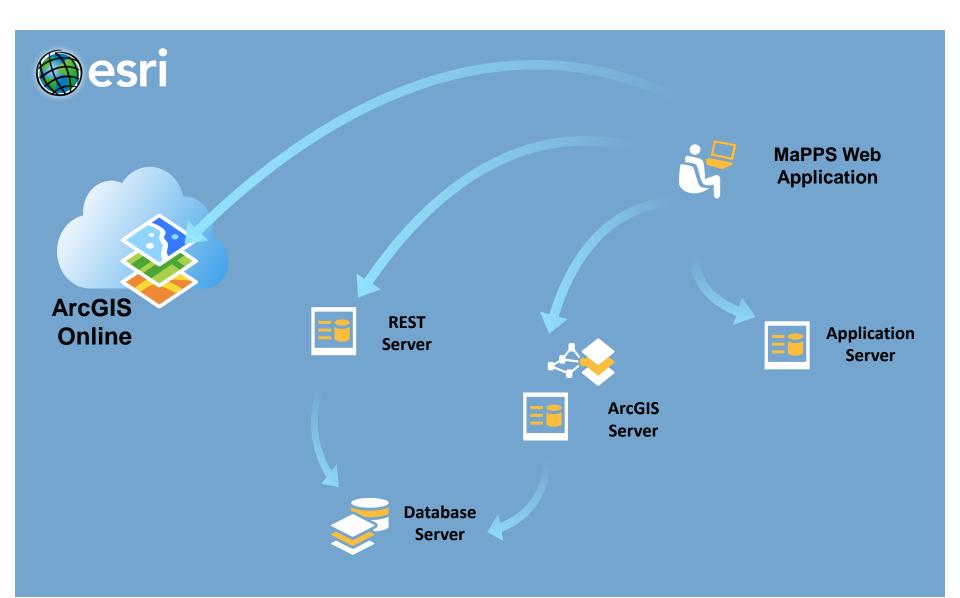


Location Aware Apps

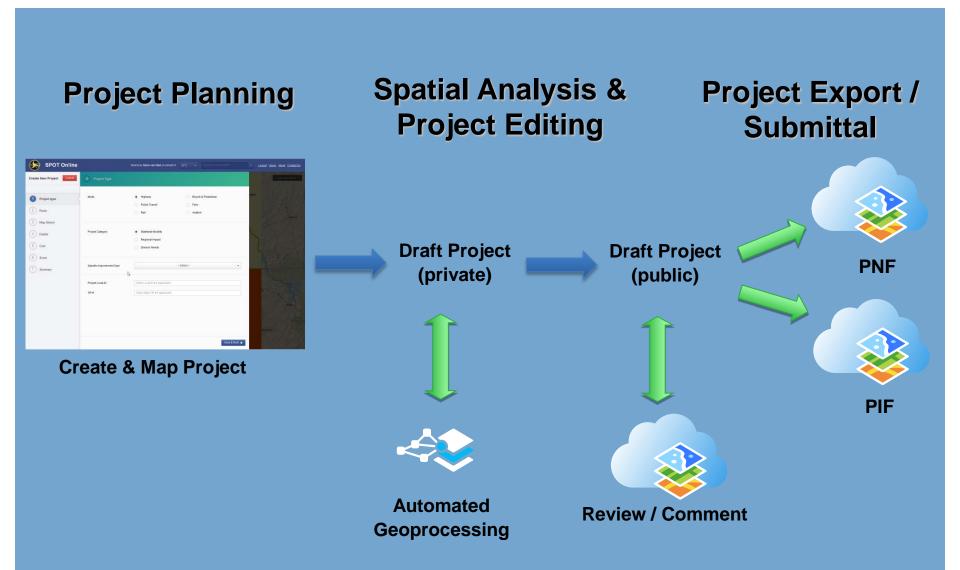
Tightly integrated and designed to work together



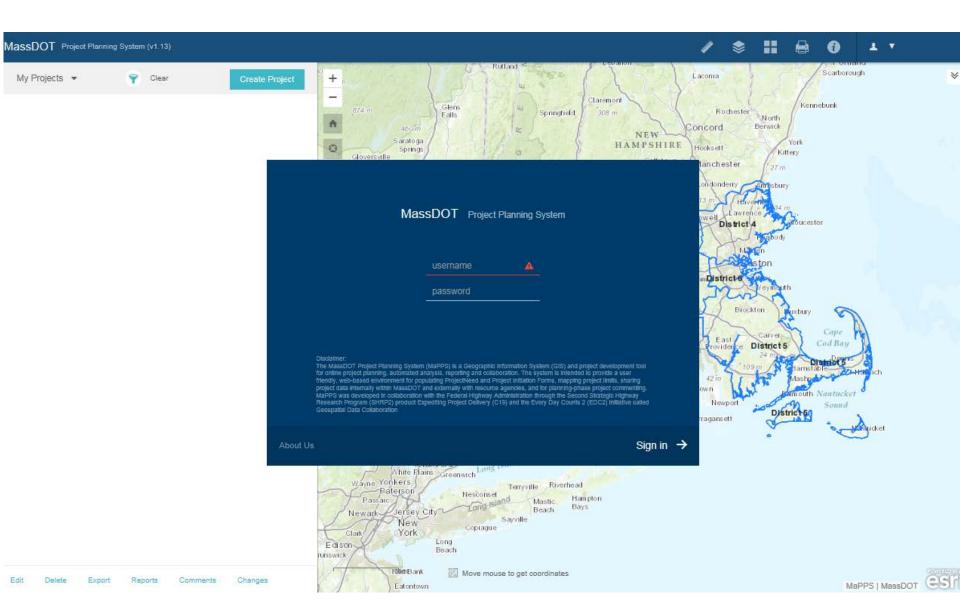
Platform Architecture



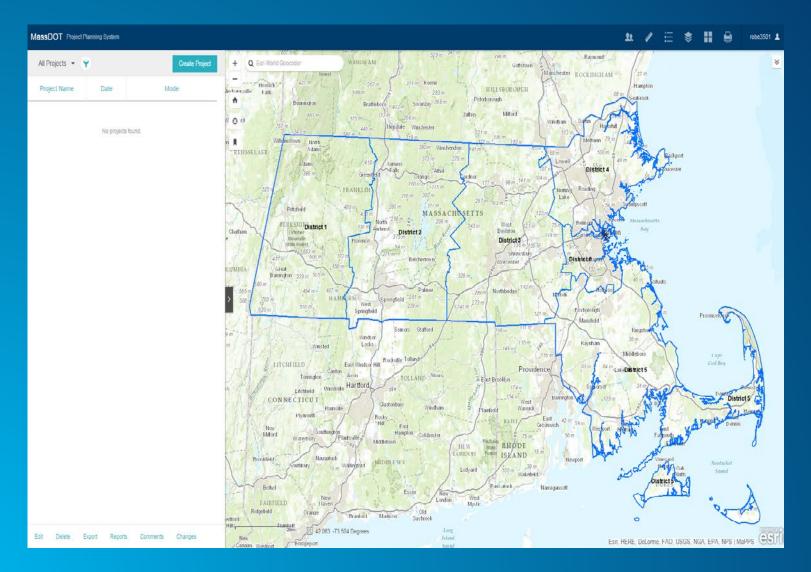
Workflow Overview



Login Page



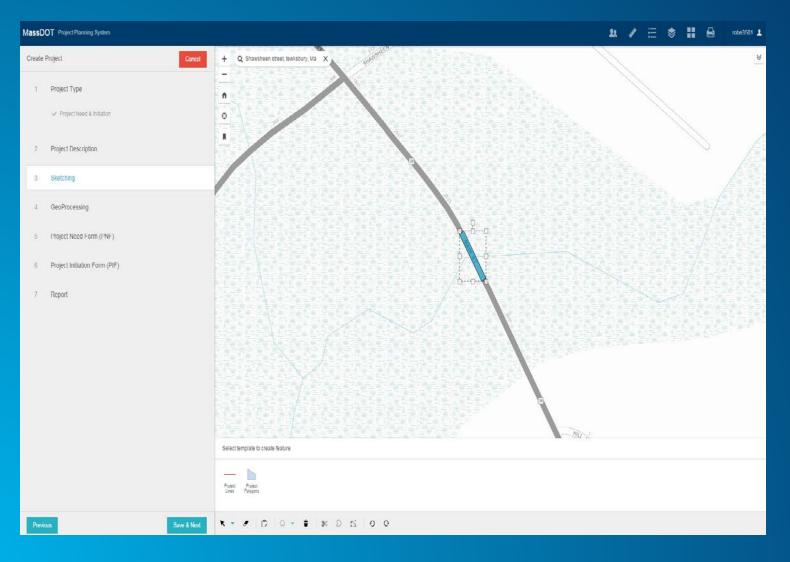
MaPPS Main Screen



Project Description

MassD	OT Project Planning System				
Create	Project	Cancel	2 Project Description		
1	Project Type		Project Name:	Bridge Replacement:Route 38	
	 Project Need & Initiation 		Proponent	Tim Dexter	
2	Project Description		Title:	Environmental Analyst	
3	Sketching		Municipality / Organization	MassDOT	
4	GeoProcessing		Completed by.	Tim Dexter	
5	Project Need Form (PNF)		Title:	Environmental Analyst	
6	Project Initiation Form (PIF)		Phone:	(857) 368-8794	
7	Report		Email.	timothy.dexter@state.ma.us	
			Date:	3/6/2015 🛗	
Provi	ious	Save & Next			

Project Sketching



Geoprocessing: Running

Project	Canod 4 GeoProcessing
Topos	Control Contro
Project Type	
	Run GeoProcessing
✓ Project Need & Initiation	
	Executing (GeoProcessing Tool): Tool 16BA0934-DC31-4621-887F-39BAF336A815 Both
	Start Time: Fn Mar 06 23:22:42 2015
Project Description	Executing (Tool): Tool
r reject besenption	"D'arcgisservendirectories/arcgissystem/arcgisinput/MaPPSGPService.GPServeriextractediv101/Connection
	to MASSDOT sdeWSSDOT SDE GPTests" 16BA0934-DC31-4621-887F-39BAF336A815 Both
Sketching	Start Time: Fri Mar 06 23:22:42 2015
	Running script Tool
	Intersection found with Road Inventory
GeoProcessing	Intersection found with MassDOT Inventory of Flood Prone Areas.
	No Intersection found with Bridge Database
	Intersection found with Road Inventory
Project Need Form (PNF)	No Intersection found with Top 200 Crash Intersection Layer
in open deed i chinquin p	Intersection found with HSIP Clusters
	No Intersection found with HSIP Pedestrians Crash Clusters
Project Initiation Form (PI	No Intersection found with HSIP Bicycle Crash Clusters
r rojest militation r om pri	No Intersection found with Coldwater Fish Resources
	No Intersection found with Massachusetts Coastal Zone
Report	No Intersection found with NHESP Certified Vernal Pools
Report	No Intersection found with NHESP Certified Vernal Pools
	No Intersection found with MassDEP "Impaired Waters" - 2012 Integrated List of Waters (305(b)/303(d))
	No intersection found with NHESP 2008 Estimated Habitats of Rare Wildlife
	No Intersection found with NHESP 2008 Priority Habitats of Rare Species
	No Intersection found with BioMap2 Core Habitat
	No Intersection found with Wild and Scenic River
	No Intersection found with Environmental Justice Populations
	No Intersection found with Estuarine and Marine Deepwater and Wetland Habitats
	Intersection found with MassDOT Inventory of Flood Prone Areas No Intersection found with Too 200 Crash Intersection Laver
	Intersection found with HSIP Clusters
	No Intersection found with HSIP Pedestrians Crash Clusters
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	No Intersection found with BioMap2 Core Habitat
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	No Intersection found with Environmental Justice Populations
	No Intersection found with Estuarine and Manne Deepwater and Wetland Habitats
	Completed script Tool

Previous

ave & Next

Project Initiation Form (PIF)

roject C.	6 Project Initiation Form (PIF)
Project Type	MASSDOT - HIGHWAY DIVISION
Project Description	Project Initiation Form
Sketching	Part I - General Information
GeoProcessing	Project Location: Main Street (SR 38)
Project Need Form (PNF)	Project Need: Briefly restate the primary project need or goal as developed in the Project
Project Initiation Form (PIF)	Need Form (e.g. rehabilitate a roadway, improve safety at an intersection, reduce corridor congestion, improve pedestrian facilities, or provide bike accommodation).
Report	Existing bridge is structurally deficient and needs superstructure and substructure replacement.
	Regional Benefit: Describe any regional benefits that would be realized should the Project Need be met.
	The bridge is an important connect on Main Street (SR 38), which is an important arterial providing a connection from I-495 south to Route 128 / I-95. Replacing the bridge is essential to maintaining this important corridor.
	Project Type Project Need & Initiation Project Description Sketching GeoProcessing Project Need Form (PNF) Project Initiation Form (PIF)

PIF Report

PIF Page 1:

MassDOT - Highway Division Project Initiation Form

Proponent:	Tim Dexter	Title:	Environmental Analyst
Municipality/Organization:	MassDOT		
PIF completed by:	Tim Dexter	Title:	Environmental Analyst
Phone:	(857) 368-8794	Email:	timothy.dexter@state.ma.us
Date:	Fri Mar 06 2015 00:00:	00 GMT-080) (Pacific Standard Time)

Part I - General Information

Project Location: <u>Main Street (SR 38) over Shawsheen River, Tewksbury,</u> MA

Project Need: Briefly restate the primary project need or goal as developed in the Project Need Form (e.g. rehabilitate a roadway, improve safely at an intersection, reduce corridor congestion, improve pedestrian facilities, or provide bike accommodation).

Existing bridge is structurally deficient and needs superstructure and substructure replacement.

Regional Benefit: Describe any regional benefits that would be realized should the Project Need be met.

The bridge is an important connect on Main Street (SR 38), which is an important arterial providing a connection from I-495 south to Route 128 / I-95. Replacing the bridge is essential to maintaining this important corridor.

Part II - Project Costs and Responsibilities

Estimated Costs: Provide available cost estimates or estimated cost ranges in current-year

Estimated Construction Costs:	Estimated Other Costs:
Construction Items:	Planning/Design:
Contigencies (10%):	Right-of-way:
Other Constr. Costs (10%):	Environmental Mitigation:
Total Construction Cost:	Total Other Costs:

Anticipated Funding Program:

Indicate all potential sources of funding that may apply to the project

STP	CMAQ	HSIP
🛛 ТАР	□ NHPP	
NFA NFA	Other	





Expediting Project Delivery (C19)

July 19, 2016 Elisha Wright-Kehner, P.E.



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Bringing greater collaboration for better, faster decisions



Capacity Focus Area – Expediting Project Delivery

Why Expediting Project Delivery (C19)?



Areas of interest to:

- Improve Public Involvement and Support
- Improve Resource Agency Involvement and Collaboration
- Demonstrate Real Commitment to the Project
- Improve Internal Communication and Coordination
- Streamline Decision Making
- Integrate Across all Phases of Project Delivery

History in Arkansas



- Award Date October 17, 2013
- Awarded \$50,000
- Assessment Workshop \$20,000

Expediting Project Delivery – Assessment Workshop

- Facilitated by FHWA on July 30-31, 2014
- 30 Attendees
- Topics
 - Overview of the Expediting Project Delivery and the Expediting Project Delivery Assessment Tool
 - Overview of "Current State" and "Desired State" of Project Development and Delivery Processes and Practices
 - Collaboration and Coordination Challenges and Opportunities
 - ✓ "What works well?"
 - ✓ "What needs work?"

What works well at AHTD?

- Administration Open to Change
- Recent Organizational Changes
- Creation of Preliminary Engineering Squad
- Hiring Qualified Personnel
- Open Communication
- Improved Teamwork
- Good Relationship between AHTD and FHWA
- Public Engagement

Challenges and Opportunities

- Project Development Process Documentation
 - Personnel changes and work load
 - Project Change Communication
- Early Project Decision Making:
 - Defining the Purpose and Need
 - Project Scoping
- Local Agencies Communication
 - Need for standardization and streamline process

Action Plan



- Developed an Action Plan in August 2014 to facilitate the activities identified in the Workshop
- Five Steps of Implementation:
 - Refine Scoping Procedure
 - Enhancing Purpose and Need Statements
 - Improving Information and Data
 - Improving Internal and External Communication and Coordination
 - Evaluating Resource Allocation

Action Steps - 1

Refine Scoping

- A draft project initiation form
 - Developed in coordination with internal stakeholders.
 - Expected to be complete and approved in September 2016.
- A project planning study process has been developed.
 - This documented process will help ensure consistency, accuracy, and transparency of the decision making and scoping process.
 - Planning study procedure manual. Ongoing modifications and updates.
- A data-driven, performance-based approach to better identify system needs.
 - These documented processes are being refined and updated.
- A project prioritization system has recently been implemented to assist decision makers on which projects to prioritize.
 - The methods to quantify needs and outcomes will be refined.

Action Steps - 1



Refine Scoping – Project Development Form (Draft)

- Form Information Five pages
 - Project Information
 - Partnering Information
 - Project Purpose and Need
 - Scope
 - Planning Considerations/Study Findings
 - Existing Project Information
 - Existing Bridge Information
 - Proposed Improvement
 - Access/Right-of-Way/Utility
 - Environmental
 - Cost and Funding
 - Project Responsibilities
 - Map of Area

Action Steps - 2



Enhance Purpose and Need Statements

- The project planning study procedure manual will be modified and updated as needed to ensure project P&N statements are tied to the performance-based planning process.
- A data-driven, performance-based approach is being implemented to better identify system needs.
- A project prioritization system has recently been implemented to assist decision makers on which projects to prioritize.
- We conducted a NEPA and Enhanced Purpose and Need Training. Provide guide to consultants and starting communications with locals earlier in process.



Improve Information Exchange and Data Sharing

- Improve Communication/Coordination (Internal and External)
 - A comment documentation process has been recently created for planning studies.
 - This process will be modified to better document comment resolutions, thereby improving the transparency and documentation of the decision-making process.
- Improve Resource Allocation (Internal and Consultant Staff)
 - The Department's consultant selection process will be updated in the near future to allow for stream-lined process for nonengineering services.
 - Enterprise Data Committee to facilitate the incorporation of Department data.
 - Purchase of server to facilitate the enterprise warehouse.



Facilitate Communication & Coordination Training

- Alternative Development, Purpose and Needs Statements – 40 Attendees
- Technical Writing 50 Attendees
- Public Involvement 18 Attendees
- NEPA and Enhanced Purpose and Need Training.



Facilitate Communication & Coordination

- Development of a Local Public Agency Manual
 - Completing Date of 2016-2017
- Increased the tracking and disbursement of project related information after all supplemental staff meetings.
- Still in the process of creating a line of communication for tribes, local public officials, and affected landowners to use throughout the project development process.



Evaluate resource allocation

- Utilize the Department's Achieving Career Excellence (ACE) to assist in training on all of these new processes and procedures.
- Still developing a plan on Managing Consultant Resources.

Steps Forward



- Utilize the Project Initiation Form on a pilot project .
- Buy in from all participants.
- Develop training programs on the ACE platform.
- Update the process to allow for stream-lined process for nonengineering services.
- Create an on-line format for tribes, local public officials, and affected landowners to use throughout the project development process.
- Establish a rotational program to improve coordination between all Divisions.
- Develop and implement a plan on Managing Consultant Resources.

Value to Arkansas



Overall

- Assessment Workshop Successful
- Opportunities for Improvement Identified and started to implement these improvements
- Increased Communications
 - Internal
 - > External

Lessons Learned



• The constant turnover of employees makes it difficult to complete tasks that are handed off each time a person changes positions.

• Employee workloads also have a large impact on task completion.

• Rome wasn't built in a day.







Expediting Project Delivery

Steven C. Braun, PE

Florida Department of Transportation District 4 Planning & Environmental Engineer



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- I. Existing Streamlining Processes
- II. Value Engineering PD&E Process Review
- III. SHRP-2 Project Approach and Recommendations
- IV. Statewide Initiatives
- V. Project Examples

* PD&E: "Project Development & Environment" = NEPA

Background

Existing System

Efficient Transportation Decision Making (ETDM)

- Established in 2006
 - MAP-21: "Environmental Streamlining"
- GIS Based Program
- Agency Coordination
 - Environmental Technical Advisory Team
- Screening Events
 - Planning
 - Programming

The Benefits

- Early coordination with local, state, and federal partners
- Identify potential impacts within/adjacent to corridor
- Receive public comments early in the process
- 。Screen alternatives₄₇
 - _____

Background

"Value Engineering" Process Review

- Evaluate processes rather than projects
- Multi-disciplined team structure
- "Think Tank" with buy-in from management
- Identify recommendations for implementation
- PD&E, R/W, Pond Siting,

<u>The Benefits</u>

- Process Improvements
- Inter-office & industry input/participation/b uy-in
- Identify system
 constraints and
 develop working
 solutions
- PD&E Process Review:
 16 recommendations48

D4 VE Recommendations

V.E. Recommendation No.5: Allow more preliminary engineering

Goal	Objectives				
	 Conduct Pre-work activities in advance of the PD&E Study 				
Expedite PD&E and Design	 Advance Preliminary Design to overlap PD&E 				
projects	 Continuity of PD&E and Design Project Manager 				

D4 VE Recommendations

V.E. Recommendation No.7: Early identification and consideration of environmental risks

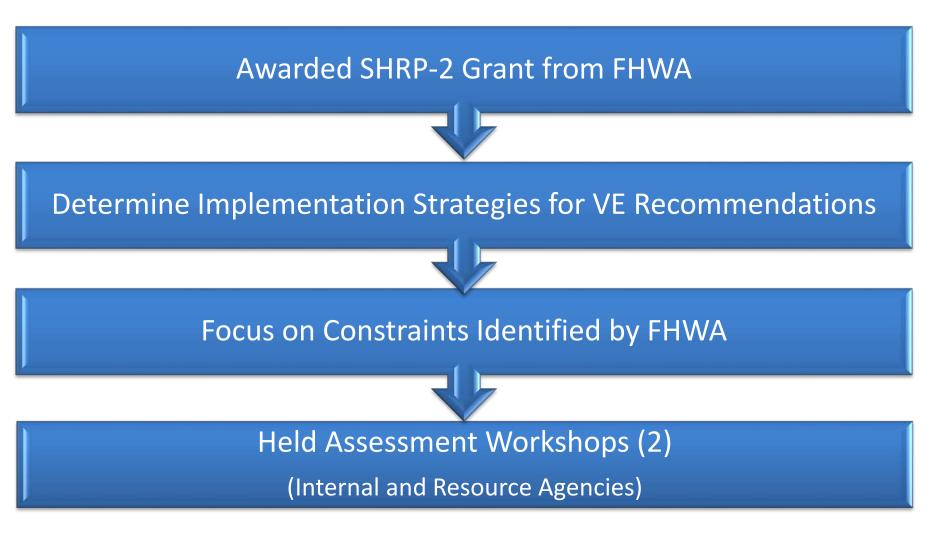
Goal	Objectives				
	 Objective 1- Early identification of risk (during early stages of PD&E). 				
Minimize changes	 Objective 2- Identify and account for potential environmental impacts during the alternative selection process. 				
during the design phase	 Objective 3 - Standardize the environmental element of the alternative selection matrix 				
	• Objective 4 Quantify onvironmental impacts due to design				

• **Objective 4** – Quantify environmental impacts due to design changes.

The motivation to apply for the SHRP-2 grant?

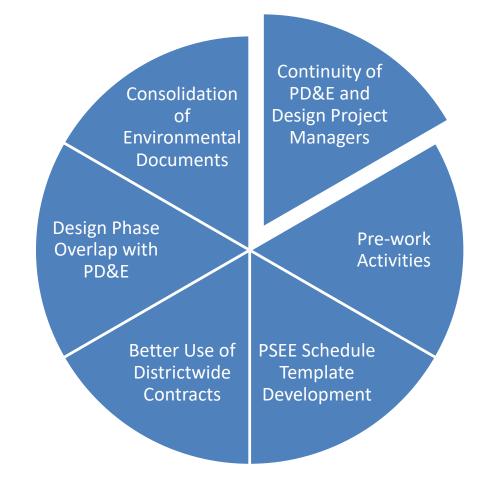
- Continued emphasis on accelerating Project Development & Environment (PD&E) project schedules
- Support advancement of projects in the work program
- Reduce the delay in identifying environmental issues
- Strong foundation of ovisting stroamlining







SHRP-2 Transformation Strategies



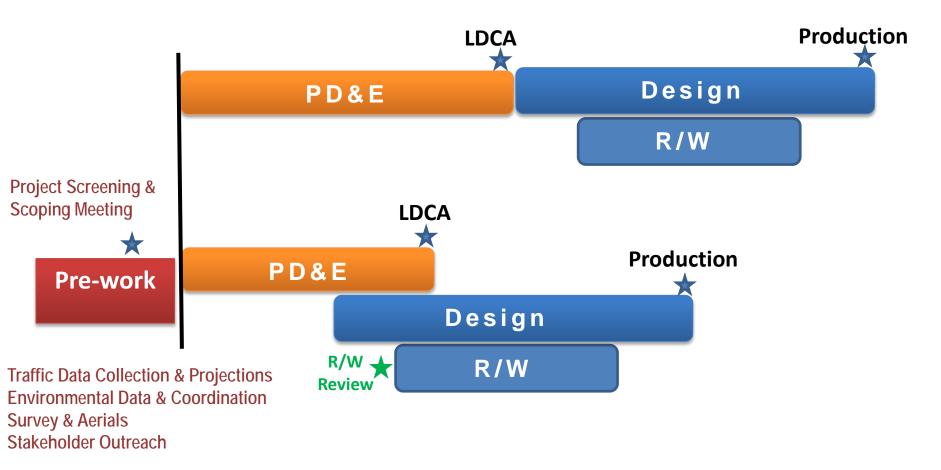


Transformation Strategies

- Advancement of "Pre-work" (Survey, Traffic, Environmental)
 - Advance key activities
 - Scope Report & Scope Development Meeting
 - Improved Scope and Purpose & Need
- Streamlined schedule templates
- Developed "check-lists" for document reviews
- Consolidation of environmental documents
- Early identification of mitigation funding needs

Transformation Strategies (Pre-work)

More Efficient Work Processes



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Transformation Strategies

Project Continuity

- Continuity of Project Manager
- Overlap PD&E and Design Schedules
- Options for single consultant contract for PD&E and Design
- Contributed to Statewide Initiatives
 - State-wide Acceleration Transformation (SWAT)



Statewide Initiatives

State-wide Acceleration Transformation (SWAT)

- Formed Statewide & District SWAT Teams
- SWAT Planning Meeting
 - Scopes / Schedules / Strategies / Funding
- Standard practice of conducting "pre-work"
- Standard staff hour estimates
- Interagency Agreements
 - Interchange Access Process (FHWA)
 - NEPA Assignment (FHWA)
 - Historic Resources (SHPO)
 - ETDM Updated Agreement



Statewide Initiatives

<u>SWAT</u> Dashboard

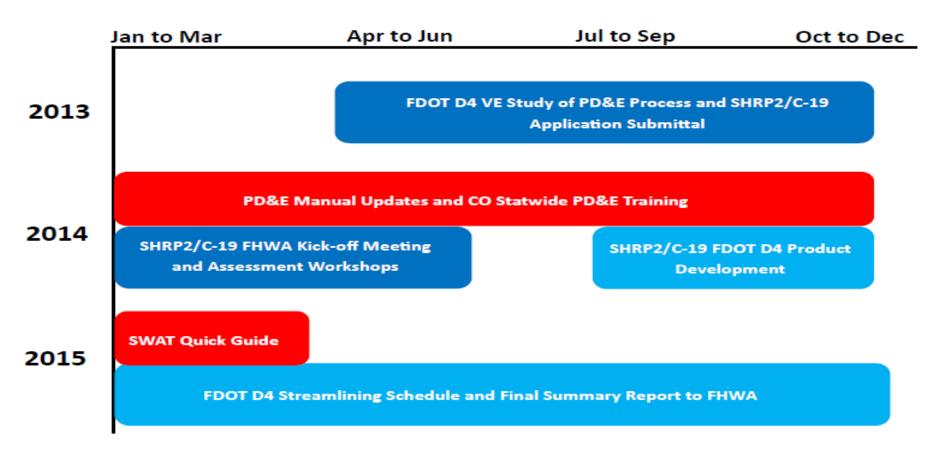
- Statewide
 Schedule
 Milestones
- Executive Dashboard Tracking
- The dashboard is updated and reviewed regularly at Executive Meetings

Track				Highlight		a live conn		Layout				Exp
Search for a Tracked Item Enter an Item Number or Description)(Summary O Detailed O Executive				
Status 💽	Prioritized in Fiscal Year 💽	District† 💽	item / Segment	Item Description	Project Likely Requires New ROW	Estimated Federal COA 💌	NEPA 30% / NEPA 60% / SEIR (months)	PD&E Advertise- ment (PSM 705)	SEIR Start (PSM 709)		SEIR APPROVED (PSM 734)	
Current	14/15	1	<u>435111-1</u>	SR 951 FROM MANATEE RD TO N OF TOWER RD	Yes	Type II CE	36 / 61 / <u>40</u>	05/27/2014	02/09/2015	06/14/2017	09/18/2017	-
Current		2	<u>434559-1</u>	SR 24 (ARCHER RD) FROM US 27A/BRONSON TO SW 75TH ST/TOWER RD	Yes	Type II CE	38/61/ <u>6</u>	09/10/2015	09/11/2015	07/07/2017	02/29/2016	++
Current	14/15	2	<u>435821-1</u>	SR 200 (US 301) AT CRAWFORD ROAD	Yes	Type II CE	36 / 61 / <u>14</u>	01/05/2015	06/17/2015		02/26/2016	
Current	14/15	2	<u>438558-1</u>	STARKE RR OVERPASS FROM US 301 TO EAST OF CSX RR	Yes	EA	62 / 92 / <u>33</u>	02/04/2014	06/09/2015	09/01/2016	11/01/2016	+
Current	14/15	3	<u>217910-2</u>	SR 75 (US 231) FROM S OF SR 30A (US 98) 15TH STREET TO SR 20	Yes	Type II CE	36/61/ <u>29</u>	05/19/2014	09/24/2014	06/13/2016	11/02/2016	Ţ
Current	14/15	4	<u>436870-1</u>	SR-714/SW MARTIN HWY FROM CITRUS BLVD. TO SW MARTIN DOWNS BLVD.	Yes	Type II CE	36/61/ <u>PSM</u>		09/26/2016	11/09/2017	01/17/2018	+
Current	14/15	5	<u>433605-1</u>	SR 501 FROM MICHIGAN AVENUE TO INDUSTRY ROAD	Yes	Type II CE	36/61/ <u>15</u>	02/02/2015	03/13/2015	02/22/2016	04/29/2016	+
Current	14/15	8	<u>433511-1</u>	NE 203 ST & NE 215 ST INTERSECTION IMPROVMTS BTWN US-1 & W. DIXIE HWY	Yes	Type II CE	38 / 61 / <u>26</u>	10/07/2013	02/04/2015	10/14/2015	12/15/2015	
Current	14/15	6	<u>433627-1</u>	SR 90/SW 8 STREET AT SR 973/SW 87 AVENUE	Yes	EA	62 / 92 / <u>PSM</u>	07/07/2014	02/16/2015			+
Current	15/18	7	<u>257147-1</u>	SR 688 (ULMERTON RD) FROM W OF 38TH ST NORTH TO W OF INTERSTATE 275	Yes	Type II CE	36/61/ <u>PSM</u>					
Current	14/15	7	<u>435750-1</u>	SR 60 FROM VALRICO RD TO DOVER RD	Yes	Type II CE	36/61/ <u>41</u>	12/02/2011	07/18/2014	11/08/2014	05/08/2015	
Current	14/15	7	<u>435750-2</u>	SR 60 FROM DOVER RD TO SR 39	Yes	Type II CE	36 / 61 / <u>41</u>	12/02/2011	07/18/2014	11/08/2014	05/08/2015	
Current	14/15	7	<u>435915-1</u>	SR 52 EXTENSION FROM E OF MCKENDREE RD TO E OF US 301	Yes	EA	62/92/ <u>11</u>	10/01/2014	12/04/2014	08/02/2015	08/28/2015	
Current	14/15	Turnpike	<u>435733-1</u>	PD&E WIDEN SAWGRASS EXPY-S OF SUNRISE TO S OF US441 (MP .5 TO 18)	No	Type II CE	38/61/ <u>26</u>	01/05/2015	06/01/2015	11/10/2016	03/13/2017	
Current	14/15	Tumpike	<u>437153-1</u>	PD&E WIDEN SAWGRASS S OF US 441 TO W OF POWERLINE (MP18-22)	Yes	Type II CE	38 / 61 / <u>30</u>	08/31/2015	05/17/2016	10/13/2017	02/14/2018	



The dashboard

FDOT Expedited Project Delivery Timeline



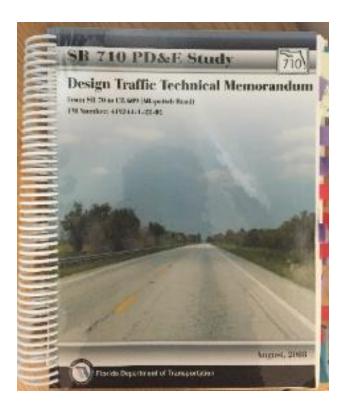
D4 Activities CO Activities D4 Product Development

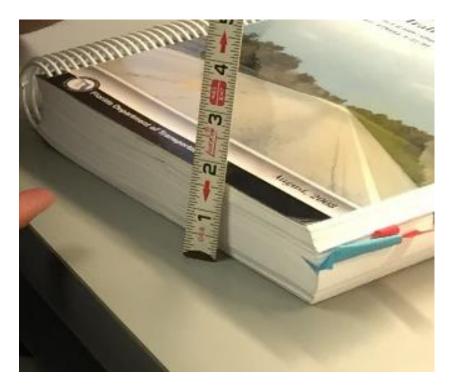


SR 710: Project Traffic

The Problem:

Lengthy PD&E duration led to needing to re-do traffic using updated model which caused project delays.

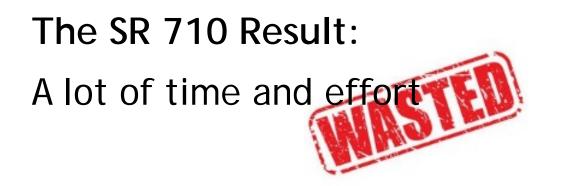












New SWAT Strategies:

- Model validation & traffic done in "pre-work"
- Remove traffic projections from the critical path
- Shortened PD&E schedule
- Eliminate re-work!



US-1 Boca Raton: Public Involvement

The Problem:

Lack of public consensus and political support led to the PD&E study resulting in a **No Build** as the selected alternative



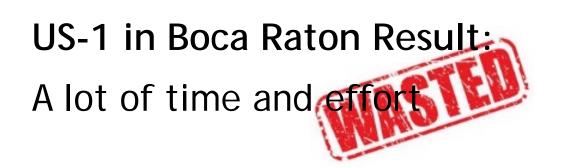


Photos from the US-1 Public Hearing





Public Involvement



New SWAT Strategies:

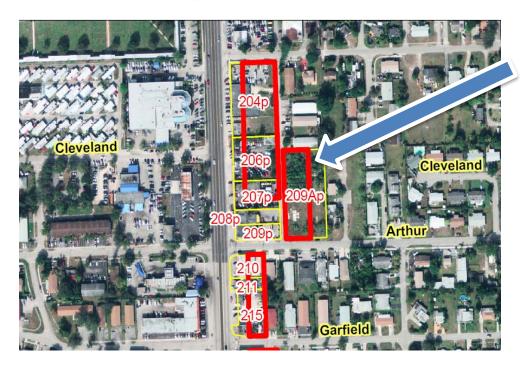
- SWAT Planning Meetings
- Earlier identification/escalation of issues
- Earlier public/stakeholder outreach
- "Consensus Building" by the MPO prior to prioritization of the PD&E study (SW 10th Street Example)

SR-7 in Hollywood: Right-of-Way

The Problem:

Pond sites were questioned by the public and design team began to consider sites outside the scope of the PD&E

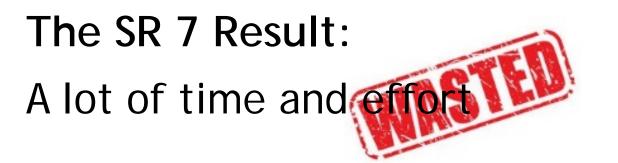
Option 1-B



Parcels NOT included in original PD&E study!



Right of Way Decisions



New SWAT Strategies:

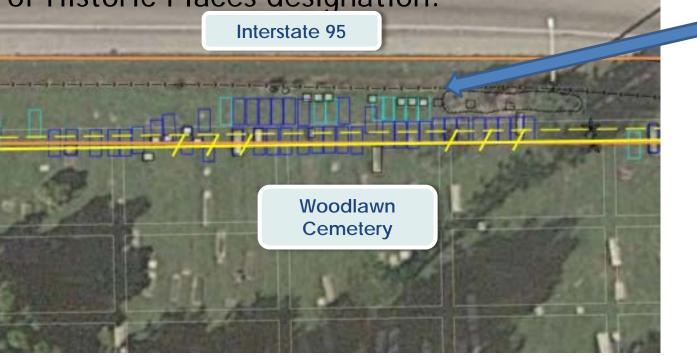
- Single PM for both PD&E and Design
- Overlap Design with PD&E
- Shortened time until Design and RW acquisition
- Prepare projects for advanced Production and RW



I-95 & Sunrise Blvd.: Historic Resources

The Problem:

Gravesites from adjacent Woodlawn Cemetery encroach into the I-95 RW. Cemetery is eligible for National Register of Historic Places designation. Gravesites within



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1-95 RW

Historic Resources

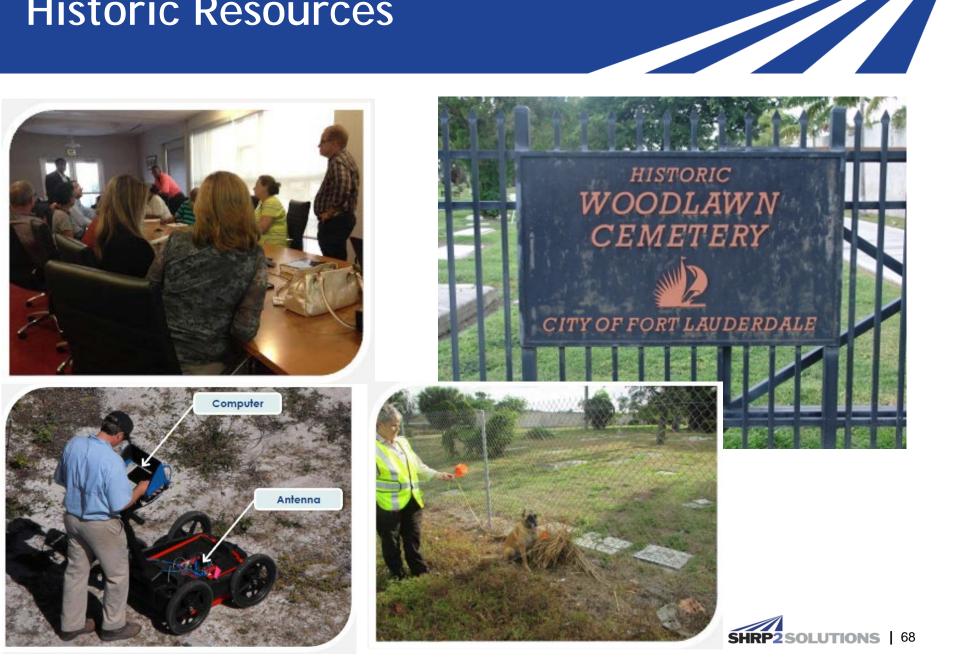
Woodlawn Cemetery Result: A lot of time and effort wasted? No!!

SWAT Strategies Employed:

- Funded a separate study in advance of the interchange PD&E study
- Earlier environmental analyses & coordination
- Earlier community outreach
- Established constraints for the interchange project, while addressing community's concerns



Historic Resources



Developed a \$4 Million Invitation to Bid Contract Package

- 104 Mitigation Credits purchased for a variety of habitat types
- Credits serve both State and Federal Impacts
- Credits are available for future projects
- Time Savings during Environmental Permitting
- Cost Savings \$5,870,686



Advanced Wetland Mitigation









Panel: Questions and Answers

Contact Information

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2017 Environmental Excellence Awards

2017 Categories

Organization and Process Innovation

- Accelerating Project Delivery
- Collaboration and Partnership
- Educational and Training Programs
- Environmental Leadership
- Environmental Research
- Programmatic Agreements

Natural Environment

- · Air Quality and Greenhouse Gas Emissions
- · Climate Change Adaptation and Resilience
- Ecosystems, Habitat, and Wildlife
- Environmental Leadership
- Roadside Resource Management and Maintenance
- Wetlands, Watersheds, and Water Quality

Human Environment

- · Community Considerations in Transportation Improvements
- Nonmotorized and Multimodal Transportation
- Demonstrated Advances in Nondiscrimination, Including Environmental Justice
- Cultural and Historic Resources
- Context Sensitive Solutions

APPLICATION PERIOD OPENS AUGUST 1st, 2016!

For general questions, please email: EEAwardsNomination@dot.gov

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Natural Environment Connie.Hill@dot.gov

Human Environment Brenda.Kragh@dot.gov







Session: Collaboration and Innovation for Project Delivery

Time: 3:15pm

Date: Tuesday, July 19, 2016





Thank you!