The Florida Senate **COMMITTEE MEETING EXPANDED AGENDA**

TRANSPORTATION Senator Harrell, Chair Senator Perry, Vice Chair

MEETING DATE: Tuesday, October 12, 2021

TIME:

3:30—5:30 p.m.

Toni Jennings Committee Room, 110 Senate Building PLACE:

Senator Harrell, Chair; Senator Perry, Vice Chair; Senators Berman, Bracy, Gainer, Jones, Rodriguez, and Wright **MEMBERS:**

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
	Update on Digital Driver Licenses and I Safety and Motor Vehicles	dentification Cards by the Department of Highway	Presented
	Presentation on Transportation Infrastru Transportation	esentation on Transportation Infrastructure Resiliency by the Department of ansportation	
	Other Related Meeting Documents		

Smart.
Secure.
Convenient.



Senate Transportation Committee | 12 October 2021

Florida Smart ID

 Application-based version of driver license (DL) or identification card (ID).
 Not a digital image of DL/ID.

Must be used with a Verifier app.

 Meets American Association of Motor Vehicle Administrators (AAMVA) and International Organization for Standardization (ISO) standards.

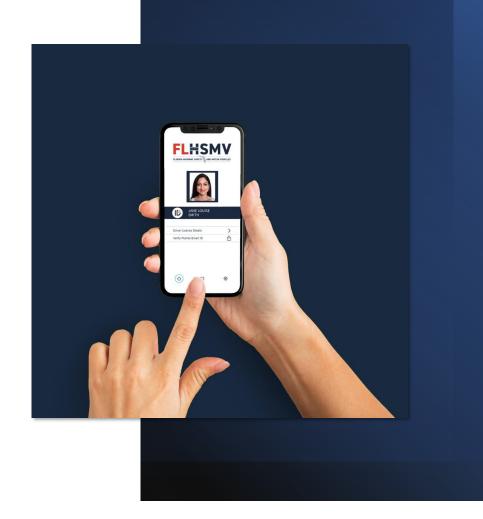
 For use on iOS and Android smart devices (phones and tablets).

■ Will be available in the App Store and Google Play.

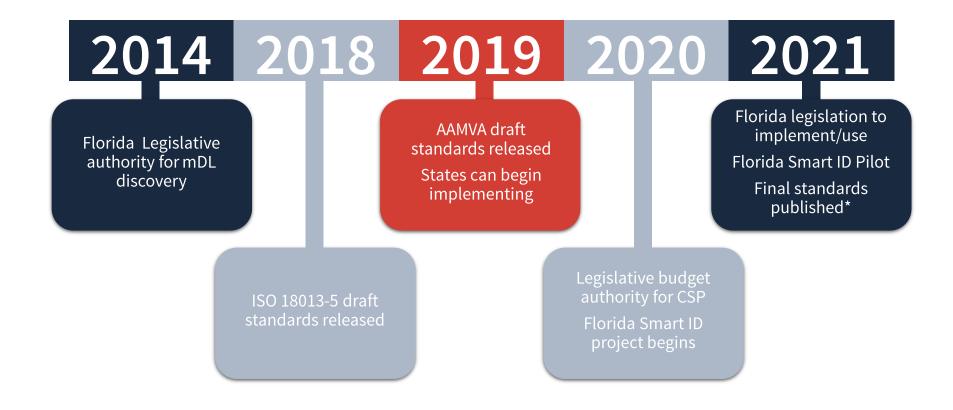


Benefits

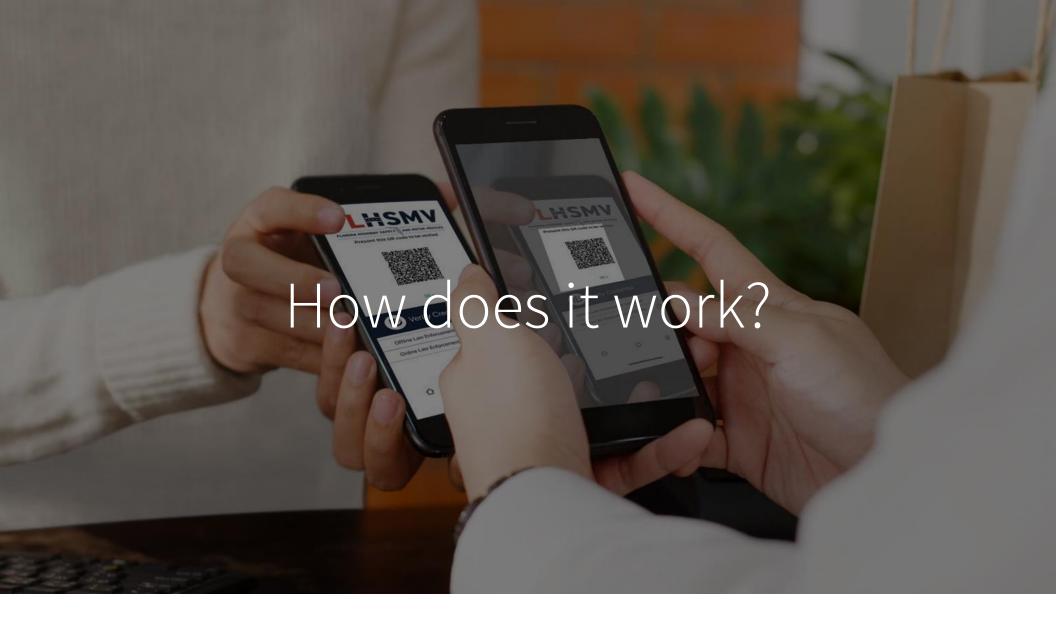
- Convenient option for proof of age or driving privilege.
- DL/ID credential required by law.
- Up-to-date status verified by FLHSMV.
- Can't be faked or falsified.
- Consent-based...only show what they need to know.
- Contactless communication (device never leaves your hand).
- Will be expanded for more use cases.



Timeline



*ISO 18013-5 final and AAMVA implementation guidelines ETA 10/2021.



The Handshake (device to device)



Offline and Online Verification



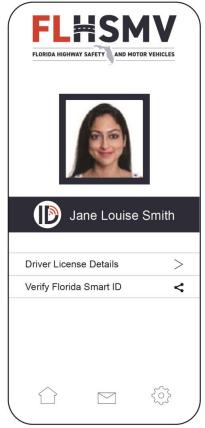




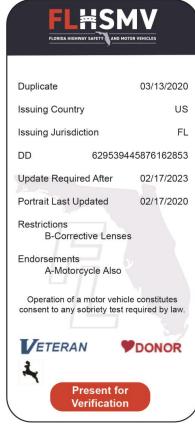


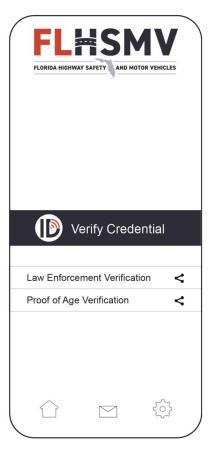
PRESENT—CONSENT—VERIFY

Florida Smart ID (Holder)









HOME DRIVER LICENSE DETAILS VERIFY



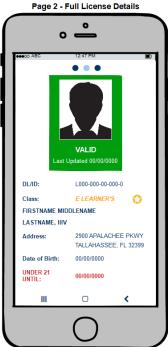
Verification Use Cases

Proof of Age Verification

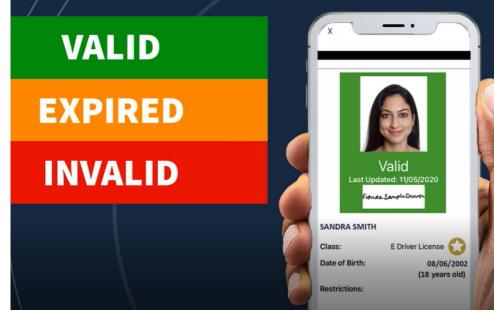


Law Enforcement Verification

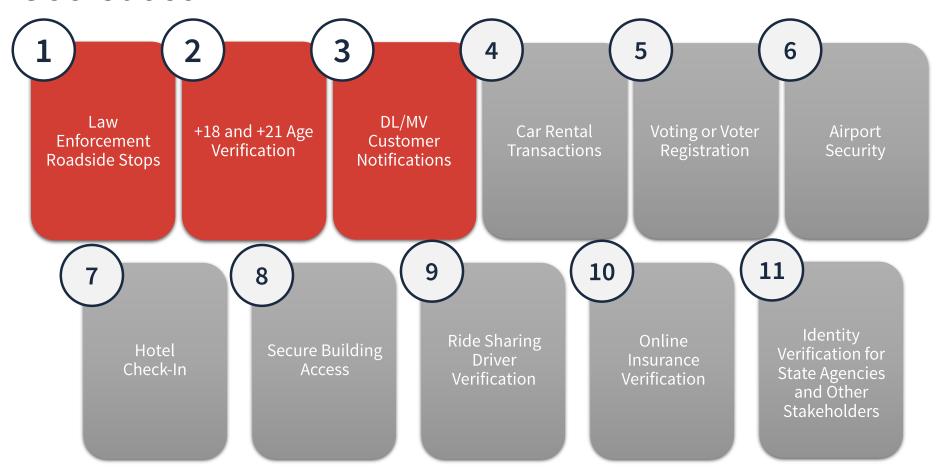


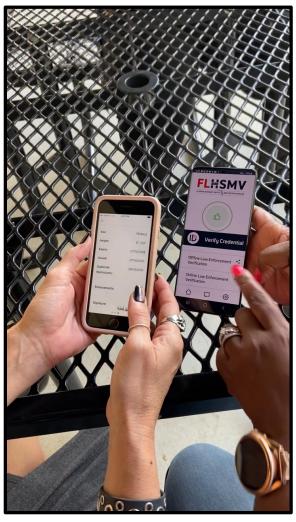






Use Cases





Law Enforcement



Proof of Age



Thank you!

The Florida Senate

Meeting Date Transper feetich	APPEARANCE REC Deliver both copies of this form to Senate professional staff conducting the r	Bill Number or Topic
Name Committee Name Director	h h	Amendment Barcode (if applicable) none mail terrere served @ 41 hs my sub-
City Sta		Speaking:
I am appearing without compensation or sponsorship.	PLEASE CHECK ONE OF THE FOLI I am a registered lobbyist, representing:	I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. 2020-2022 Joint Rules.pdf (flsenate.gov)

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S-001 (08/10/2021)

The Florida Senate

APPEARANCE RECORD

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	Meeting Date ANAPOVEGEN		copies of this form to taff conducting the meeting	Bill Number or Topic
Name	Committee	Hetch Irson	DHSMV Phone_	Amendment Barcode (if applicable) 8566/72/9
Address	Chief Te Street	chnology Offic	er Email	shootheder is a fling
	City	State Zip		
	Speaking: For	Against Information	OR Waive Speaki	ng: 🗌 In Support 🔲 Against
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Transportation and Resiliency in Florida

Senate Transportation Committee Tuesday, October 12, 2021

Huiwei Shen
Chief Planner
Florida Department of Transportation

Will Watts, P.E.
Chief Engineer
Florida Department of Transportation

Overview



Implementation Update

Resiliency in Engineering & Operations

Innovative Solutions

Materials Research

Next Steps



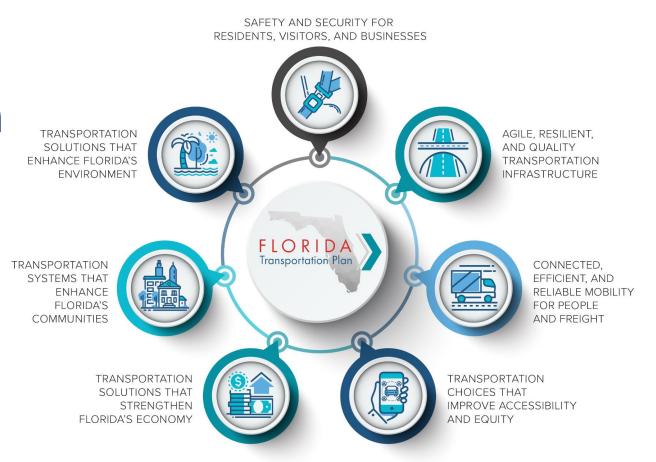


PLANNING AND POLICY



Florida Transportation Plan







FDOT Vital Few – Resiliency

Improve Safety

- Reduce impacts of transportation-related public health, safety, and security risks
- Improve emergency response and recovery times

Enhance Mobility

- Minimize vulnerabilities and disruption/damage due to extreme weather
- Improve supply chain efficiency/resilience

Inspire Innovation

- Support resilient and diverse economy
- Innovate to adapt and enhance infrastructure resilience

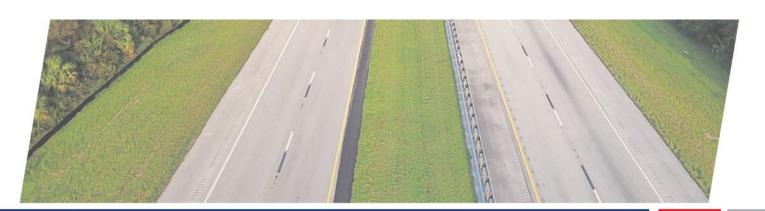
Resiliency Policy

- Ability to adapt to changing conditions and prepare for, withstand, and recover from disruption
- Identify risks, particularly related to:
 - Storms
 - Flooding
 - Sea level rise
- Assess potential impacts
- Employ strategies to avoid, mitigate, or eliminate impacts





IMPLEMENTATION UPDATE



Implementation Update





Manuals and Guidance

Innovative Solutions



SIS Policy Plan



Consider vulnerabilities in SIS community and environmental screening process



Identify resilience strategies as part of capacity needs and projects

Expand SIS funding eligibility for adaptation/retrofit of existing infrastructure

Expand definition of capacity to include increasing redundancy or providing alternatives to mitigate vulnerabilities



Expand collaboration with MPOs, RPCs, water management districts, local governments, regional collaboratives, industry on resilience strategies

Strengthen coordination with other state agencies (DEO, DEM, DEP) to leverage programs and funding





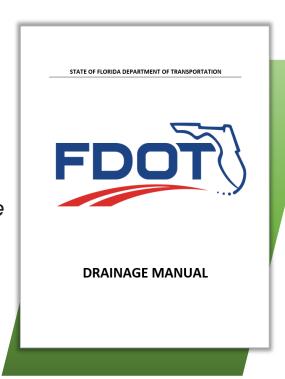
RESILIENCY IN ENGINEERING & OPERATIONS



Manual Updates

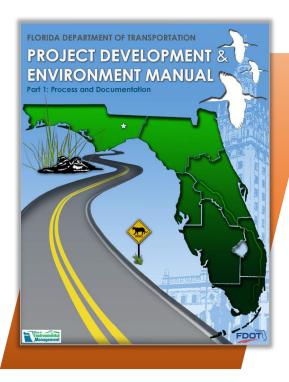
Drainage Manual

- Include a section on Resiliency Considerations
- Identify multiple ways we are inherently resilient in our drainage designs



PD&E Manual

 Provide guidance on new statutory requirement to perform Sea Level Impact Projection (SLIP) Study if within Coastal Building Zone



Inherent Resiliency in Design

- Traffic Signals
- Pavement Markings
- Roundabouts
- High Mast Lighting
- Materials
- Pavements
- Drainage



Emergency Management & Resiliency

- All Hazard approach in all phases of an incident/event
 - Planning, operations & response, recovery, and mitigation
- Mass evacuation planning and implementation of the Emergency Shoulder Use
- Roadway debris removal operations, repairs, and betterments





INNOVATIVE SOLUTIONS



Innovative Solutions – Hurricane Recovery

Hurricane Michael (2018)

Mexico Beach & Coastal Flooding Impacts along U.S. 98 in Franklin County







Innovative Solutions – Flooding & Sea Level Rise

SR A1AIndian Creek Drive Flood Mitigation





Innovative Solutions – **Erosion** & Extreme **Events**



Living shorelines use plants or other natural elements—sometimes in combination with harder shoreline structures—to stabilize estuarine coasts, bays, and tributaries.



One square mile of salt marsh stores the carbon equivalent of 76,000 gal of gas annually.



Marshes trap sediments from tidal waters, grow in elevation as sea biodiversity, level rises.



Living shorelines improve water quality, provide allowing them to fisheries habitat, increase and promote recreation.



Marshes and oyster reefs act as natural barriers to waves. 15 ft of marsh can absorb 50% of incoming wave energy.



shorelines are

bulkheads.

Living

than

33% of shorelines in the more resilient U.S. will be against storms hardened by 2100, decreasing fisheries habitat and biodiversity.



Hard shoreline structures like **bulkheads** prevent natural marsh migration and may create seaward erosion.



The National Centers for Coastal Ocean Science | coastalscience.noaa.gov

Some graphics courtesy of the Integration and Application Network, University of Maryland Center for Environmental Science (Ian.umces.edu/symbols/)

Innovative Solutions – Living Shoreline

Barracuda Bridge Replacement New Smyrna Beach, FL

- Oysters on rip-rap
- Environmental commitments to NMFS
 - Relocate oysters where possible
 - Facilitate USACE permit
- Partnering with FFWCC and local Marine **Discovery Center**
- Marsh restoration support
 - · Oysters will help maintain created tidal creeks



Innovative Solutions – Living Shoreline

US 1 experiencing severe erosion

- Embankment being undermined by wave action
- Roadway at risk
- Indian River Lagoon
 - Environmentally sensitive area

US 1 Erosion Study Melbourne, FL







Innovative Solutions – Living Shoreline

US 1 Erosion Study Melbourne, FL

- Existing rip-rap along the corridor
- "Voids" created where no rip-rap exists
 - Wind driven system
 - · Little natural shoreline left
- Feasibility study to examine all options:
 - · Additional armoring
 - WADs
 - Living shorelines
 - Hybrids





MATERIALS RESEARCH



State Materials Office Resiliency Research

- Improved Resilience of Asphalt Pavements Due to Flooding
 - Evaluate the resilience of flooded asphalt
 - Improve asphalt mixtures to resist impacts of flooding
- Improved Resilience of Rigid Pavement Systems
 - Improve the resilience of concrete pavements subject to flooding and sea level rise.
 - Evaluate the entire pavement structure concrete, base, subgrade





Next Steps

- Policy Implementation
- Training & Capacity Building
- Resiliency Information in GIS Tools
- Further Updates to Manuals & Guidance
- Collaboration and Partnerships
- Innovative Solutions in Projects







October is National Pedestrian Safety Month Safety is a shared responsibility



At some point in the day, we are all pedestrians. It is up to all road users to look out for one another, and take the necessary steps to arrive safely.

















Questions?

Huiwei Shen

Chief Planner
Florida Department of Transportation

Will Watts, P.E.

Chief Engineer Florida Department of Transportation

The Florida Senate

FDOT Resiliency Kesentation APPEARANCE RECORD Bill Number or Topic Deliver both copies of this form to Senate professional staff conducting the meeting Transportation Amendment Barcode (if applicable) Committee Phone 850 - 414 - 4147 Email Noiwei. Shen @ dot. State. fl. us Address 605 Suwannee Tallahassee 32399 City OR Information Waive Speaking: In Support Speaking: Against PLEASE CHECK ONE OF THE FOLLOWING: I am not a lobbyist, but received I am a registered lobbyist, I am appearing without

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. 2020-2022 Joint Rules.pdf (flsenate.gov)

representing:

Florida Department of Transportation

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something of value for my appearance

(travel, meals, lodging, etc.),

sponsored by:

The Florida Senate

10/12/21	APPEARANCE RECORD Deliver both copies of this form to Senate professional staff conducting the meeting		FDOT Resilien	icy Presentation
Meeting Date Transportation			Bill Number or Topic	
Committee			Amendment Barc	ode (if applicable)
Name Will Watts, P.E.	· ·	Phone 85 0	-414-414	+
Address 605 Sumannee St.		Email Will.	Watts@dot.8	tate. F1. US
Tallahassee FL City State	32399 Zio			
Speaking: For Against	Information OR	Waive Speaking:] In Support 🔲 Ag	ainst
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CourtSmart Tag Report

Type: **Room: SB 110** Case No.: Judge: Caption: Senate Transportation Committee Started: 10/12/2021 3:30:57 PM Ends: 10/12/2021 4:42:23 PM Length: 01:11:27 3:30:55 PM Meeting called to order by Chair Harrell 3:30:58 PM Roll call by CAA Marilyn Hudson 3:31:28 PM Quorum present 3:31:41 PM Comments from Chair Harrell Introduction of Tab 1: Update by the Florida Department of Highway Safety and Motor Vehicles on 3:32:19 PM Digital Driver Licenses and Identification Cards by Kevin Jacobs, Legislative Affairs Director by Chair Harrell Presentation by Mr. Terrence Samuel, Director, Office of Motorist Modernization and Mr. Chad 3:34:42 PM Hutchinson, Chief Technology Officer, DHSMV Question from Senator Berman 3:53:31 PM 3:53:38 PM Response from Mr. Hutchinson 3:54:58 PM Comments from Chair Harrell 3:55:26 PM Follow-up question from Senator Berman Response from Mr. Hutchinson 3:55:34 PM 3:56:25 PM **Question from Senator Jones** 3:56:30 PM Response from Mr. Samuel 3:57:44 PM Follow-up question from Senator Jones 3:57:52 PM Response from Mr. Samuel 3:58:31 PM Question from Chair Harrell 3:58:57 PM Response from Mr. Samuel Follow-up question from Chair Harrell 4:00:21 PM 4:00:30 PM Response from Mr. Samuel Follow-up question from Chair Harrell 4:01:03 PM 4:01:09 PM Response from Mr. Samuel Follow-up question from Chair Harrell 4:01:23 PM Response from Mr. Hutchinson 4:01:48 PM 4:03:02 PM Follow-up question from Chair Harrell Response from Mr. Hutchinson 4:03:16 PM 4:03:48 PM Follow-up question from Chair Harrell 4:04:09 PM Response from Mr. Jacobs 4:04:51 PM Comments from Chair Harrell 4:05:00 PM Response from Mr. Samuel 4:05:15 PM Comments from Chair Harrell Introduction of Tab 2: Presentation by the Florida Department of Transportation on Transportation 4:05:49 PM Infrastructure Resiliency by Chair Harrell Presentation by Ms. Huiwei Shen, Chief Planner, and Mr. Will Watts, Chief Engineer, Florida 4:07:35 PM Department of Transportation 4:26:50 PM Question from Chair Harrell 4:26:57 PM Response from Mr. Watts 4:28:27 PM Comments from Chair Harrell 4:29:28 PM Question from Senator Jones 4:29:32 PM Response from Mr. Watts 4:30:31 PM Follow-up question from Senator Jones 4:30:42 PM Response from Mr. Watts 4:31:47 PM Follow-up question from Senator Jones 4:31:56 PM Response from Mr. Watts 4:33:18 PM Question from Senator Perry 4:33:23 PM Response from Mr. Watts 4:33:31 PM Comment from Senator Perry 4:34:22 PM Question from Senator Perry

4:34:28 PM

4:34:44 PM

4:34:52 PM

Response from Mr. Watts

Response from Mr. Watts

Follow-up question from Senator Perry

4:36:24 PM 4:36:51 PM 4:37:13 PM 4:37:52 PM 4:37:51 PM 4:37:58 PM 4:39:18 PM 4:39:22 PM 4:40:19 PM 4:40:28 PM 4:40:52 PM 4:41:51 PM	Follow-up question from Chair Harrell Response from Mr. Watts Question from Senator Perry Response from Mr. Watts Follow-up question from Senator Perry Response from Mr. Watts Question from Senator Berman Response from Mr. Watts Follow-up question from Senator Berman Response from Mr. Watts Comments from Chair Harrell Introduction of Secretary Kevin J. Thibault by Chair Harrell