• The webinar will begin at 9:30 a.m.
• Please enter your PIN to join with audio if you are not using computer audio
• If you are a substitute, please email Jennifer Stults with your information
• If you experience technical difficulties, please:
  1. Try logging in again, or
  2. Contact technical support
    • Tommy Bull – Tommy.Bull@dot.state.fl.us
    • Jennifer Stults – Jennifer.Stults@dot.state.fl.us
Northern Turnpike Corridor
Task Force Webinar #3

June 3, 2020
Welcome

Christina Colón, Co-Chair
Introduction and Agenda Review

Christine Kefauver, Facilitator
The Public Comment Period begins at 11:30 a.m., or as soon as the agenda items are completed.

Requests to comment that were received by 5 p.m. yesterday will be addressed during the Public Comment Period.

When your name is called, we will unmute your line in order for you to provide comment within your allotted time of 3 minutes.

Only one person at a time will be unmuted; if you have self-muted please be sure to unmute before speaking.

If you did not submit your request in time to be able to speak today, please email your comments to FDOT.Listens@dot.state.fl.us.
• The webinar is being recorded and will be available with other materials on the M-CORES website.

• You will remain muted for the presentations and then you will be self-muted during discussion.

• Task Force members only can use the “raise hands” feature during the discussion periods to indicate their desire to ask a question or provide a comment.

• The facilitator will recognize individual Task Force members to speak. If you have self-muted please be sure to unmute before speaking.

• Do not put the webinar on hold or take another call, as we will hear your hold music.
Today’s Objectives

- Receive briefing on opportunities for coordination of broadband deployment with corridor development
- Obtain Task Force member input on implications for high-level needs and guiding principles
- Receive public comments
Today’s Agenda

9:35 AM  
Introduction, Agenda Review, Roll Call

9:50 AM  
Presentation and Panel Discussion: Broadband Deployment Opportunities

10:50 AM  
Task Force Discussion: Implications for Needs, Guiding Principles, Implementation

11:25 AM  
Next Steps

11:30 AM  
Public Comments
• Describe **high-level needs** related to transportation corridors in the study area

• Develop **guiding principles** related to the high-level needs

• Recommend **instructions (implementation strategies)** for project development and implementation by FDOT, other state agencies, local governments, and other partners

• Agree on recommendations to be included in a **final report** to be submitted to the Governor, the President of the Senate, and the Speaker of the House of Representatives by **November 15, 2020**
## Task Force Work Plan: Future Meetings

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Key Objectives</th>
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| Webinar #4    | • Receive update on Task Force work plan, recommendations framework, and avoidance and attraction layers  
• Begin to refine high-level needs and guiding principles and identify potential instructions for project development and beyond |
| (June)        |                                                                                                                                               |
| Meeting #6    | • Discuss natural resource issues  
• Establish initial consensus on high-level needs  
• Refine draft guiding principles  
• Discuss draft instructions for project development and beyond  
• Review draft report outline and report development process |
| (July)        |                                                                                                                                               |
| Meeting #7    | • Establish initial consensus on guiding principles  
• Continue to discuss draft instructions for project development and beyond  
• Review draft Task Force report sections |
| (August)      |                                                                                                                                               |
| Meeting #8    | • Establish initial consensus on instructions for project development and beyond  
• Review and refine draft Task Force report |
| (September)   |                                                                                                                                               |
| Meeting #9    | • Discuss revisions to final draft Task Force report  
• Adopt final Task Force report |
| (October)     |                                                                                                                                               |
Reminder: Government in the Sunshine

Task Force is subject to Government in the Sunshine
(Sec. 286.011, F.S., and FL Constitution Art. I Sec. 24)

Task Force members may not:

• Discuss with any other member of the Task Force any item that is under consideration for action by the Task Force, except at a duly noticed public meeting
• Send emails that solicit comments from members or circulate responses from members on Task Force business

Task Force members may:

• Discuss other matters unrelated to the work of the Task Force with the other members at any time
• Discuss Task Force business with any person who is NOT a member of the Task Force, except that person cannot act as a liaison between or among the members
Diane Guillemette
Office of the Attorney General
PL-01 The Capitol
Tallahassee, FL 32399-1050
850-414-3300
Diane.Guillemette@myfloridalegal.com
Task Force Member Roll Call

Christine Kefauver, Facilitator
Broadband Deployment Opportunities

Will Watts, Chief Engineer, FDOT
What Is Broadband?

• High-speed data transmission
• FCC current standard for advanced telecommunications capability:
  • **Fixed service**: Internet speed with at least 25 Mbps download and 3 Mbps upload (residential areas)
  • **Mobile service**: multiple ways of measuring, roughly equivalent to 4G LTE capability with minimum advertised speeds of 5 Mbps download/1 Mbps upload
Types of Broadband Technologies

- **Digital Subscriber Line (DSL)**
  - wireline transmission technology that transmits data faster over traditional copper telephone lines

- **Cable Modem**
  - coaxial cables that deliver pictures and sound to TVs

- **Fiber**
  - strands of optical glass that transmit data in form of light faster than DSL

- **Wireless**
  - radio link transmit data usually over short distances

- **Broadband over Powerline**
  - transmitting internet using low- and medium-voltage electric power distribution network

- **Satellite**
  - another form of wireless broadband using microwave
• Transformative technology across the economy and society
• Economic benefits
  • 10% increase in market penetration produces 1.2% increase in GDP (World Bank, 2016)
  • Every dollar invested in broadband returns nearly $4 to Indiana economy (Purdue University, 2018)
• **98.2%** of Florida’s **urban** residents have access to fixed broadband service at 25/3 Mbps, but only **77.9%** of **rural** residents

• Several of the rural areas that are unserved or underserved are located in the M-CORES study areas
Backbone/trunkline transmits large amounts of data to provider network.
Middle mile links backbone to the service providers’ core network.
Last mile connects internet service to customer from providers.
• Cost of fiber deployment ranges from $6,600 to $267,000 per mile (USDOT)

• Capital costs account for 45-54% of the cost of providing fiber (NCTA)

• About ¾ of the capital cost is associated with placement of the fiber in the ground (or on poles) (FCC)

• Running a strand of fiber through an existing conduit is 3-4 times less expensive than a new build (FCC)
How Transportation Corridors Can Facilitate Broadband Deployment

• Co-location of broadband conduits or wireless systems in transportation corridor right of way
• Coordination of broadband installation with highway construction and other utility infrastructure to reduce costs (dig-once approach)
• Connection points where third parties can access the conduit
• Coordinated planning with economic development, workforce, education, health care, other community anchor institutions
• Transportation agency needs for broadband to build market demand
• Accommodating future growth in demand
• Upgrading technology over time to provide higher speed and quality
• Removing barriers to investment
• Ensuring nondiscriminatory, competitively neutral access to rights of way for utility and service providers
• Providing access to all residents
Examples from Other States

- Arizona Smart Highway Corridors
- California Strategic Broadband Corridors
- Indiana Broadband Corridors
• Designates **Florida Department of Economic Opportunity** as **lead agency** to facilitate broadband expansion in Florida; creates **Florida Office of Broadband** within DEO

• Requires DEO to create a **strategic plan** for increase broadband use in Florida

• Defines **underserved areas** in Florida as geographic areas with no provider offering a connection $\geq 10/1$ Mbps

• Authorizes FDOT to spend up to **$5$ million annually beginning in FY 2022-2023** for projects to assist in broadband deployment within or adjacent to a **multi-use** corridor, with priority for rural areas of opportunity
Potential Resources Available

• Private sector partnerships
• Leveraging other Florida sources
• Federal sources
  • USDA (ReConnect and other programs)
  • USDOT (BUILD grants)
  • FCC
  • HUD (Community Development Block Grants, others)
  • EDA (disaster and economic adjustment assistance)
  • Other agencies (Treasury, Education, Labor, National Science Foundation, etc.)
Task Force Discussion

• Discuss **need** for broadband and how it supports other identified needs in the study area
• Refine **guiding principles** related to broadband
• Provide **implementation guidance** to FDOT and other partners
Broadband Deployment Opportunities

Panel Discussion
Panel Members

Brad Swanson
President & CEO, Florida Internet & Television Association

Bill Lambert
Director, Hardee County Economic Development Council

Dustin Jurman
CEO, Rapid Systems

Charlie Dudley
Managing Partner, Floridian Partners LLC
Implications for Needs, Guiding Principles, and Implementation

Task Force Discussion
• Needs
  • Expand rural broadband infrastructure and access to broadband service

Percent Population with No High-Speed Providers

Data Source: FCC, December 2018
Internet Coverage in the Study Area

Areas with at least one internet provider

Data Source: Federal Communications Commission
Analysis was done using broadband data in the NTC GIS Tool #2.
• Guiding Principles
  • Enhance areas where utilities and broadband can be combined with transportation through nondiscriminatory, competitively neutral access to FDOT rights of way for utility and service providers or joint deployment of infrastructure

• Implementation Strategies
  • Prioritize additional infrastructure needs and funding sources needed to accommodate the corridor (local roads, rail, utilities, sewer and water).
Expand rural broadband infrastructure and access to broadband service

Enhance areas where utilities & broadband can be combined with transportation through non-discriminatory, competitively neutral access to FDOT rights of way for utility & service providers or joint deployment of infrastructure.

Prioritize additional infrastructure needs and funding sources needed to accommodate the corridor (local roads, rail, utilities, sewer and water)
Next Steps

Christina Colón, Co-Chair
Public Comments

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  - 30 seconds remaining
  - 3 minutes have concluded

- Only one person at a time will be unmuted.

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