



Florida uses new SHRP2 Solutions to manage risk, promote mode choices

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TRANSPORTATION RESEARCH BOARD
OF THE NATIONAL ACADEMIES

Today's Presentation

- Florida's participation implementing SHRP2 (Rounds 1 – 3)
 - **Managing Risk in Renewal Projects**
 - **Organizing for Reliability**
 - **Expediting Project Delivery**
 - **GeoTechTools**
 - **Freight Demand Modeling and Data Improvement**
- Our approaches to implementation
- Expected Value

Managing Risk in Rapid Renewal Projects

Challenge

- Rapid renewal projects are typically innovative and complex, which can lead to unexpected problems and potentially unexpected performance issues.

Solution

- Objective guidance on implementing risk management procedures that can be applied to various types of projects.
- Tools and training materials to assist in applying techniques to project development process.



Product Details

Goal of the product:

- *Optimize* project performance
- *Improve* project delivery (cost, schedule, disruption)
- *Increase* Longevity (O&M/replacement cost/disruption/life)

Product includes:

- Formal risk management process
- Practical methods for identifying, assessing, evaluating, mitigating, allocating, monitoring and managing risk

Tools include:

- Risk management materials such as risk/mitigation checklists; cost & schedule distributions
- Implementation tools such as MS Excel template for risk analysis and related forms
- Course to train DOT staff

Florida's Risk Management

- Already a robust risk management culture.
- Existing Statewide Risk Analysis Team and regional teams for projects costing more than \$100 million.
- Wanted to carry the process into more products and “normalize” the procedures.



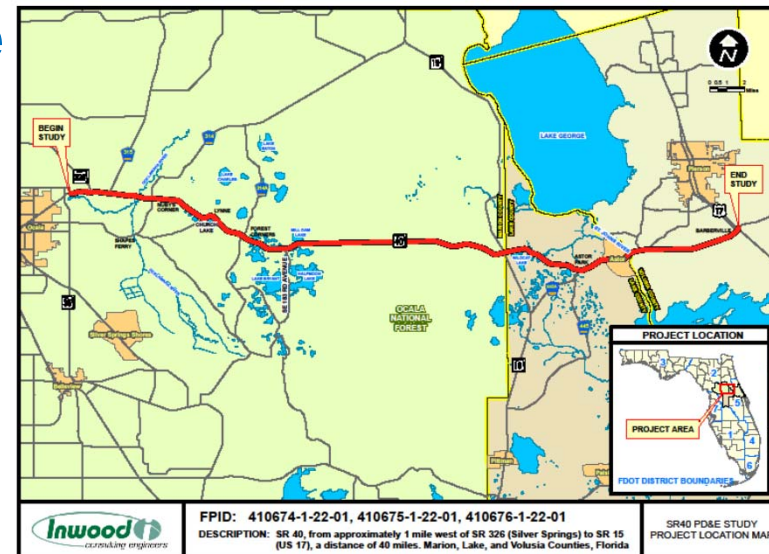
Florida's Approach

- Received **three** Implementation Assistance “opportunities.”
- Under the first, Proof of Concept, **conducted risk analysis** on the Gateway Express project in Pinellas County.
- This is will **increase capacity** and allow tolling of major connection through Pinellas County to I-275.



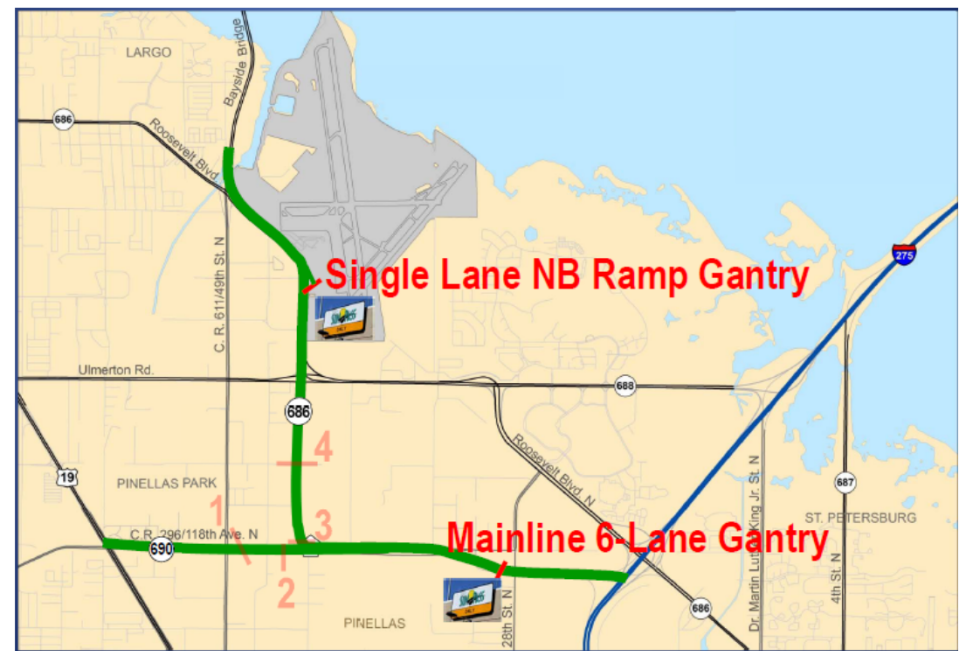
Florida's Approach

- Under the Lead Adopter, we will conduct a **risk analysis** on a four-lane widening project on State Route 40 – located in the Ocala area.
- Project isn't complex but will run through the center of town and parts of the Ocala National Forest.
- Will hold a **two-day, train-the-facilitator** session.
- Will acquire risk **analysis/management software**.



Florida's Approach

- Under the User Incentive, we will conduct a post response (mitigation) **risk analysis** on the Gateway Express project in Pinellas County (presented in the Proof of Concept).
- This workshop will update the previous workshop by incorporating mitigated risk results and assessing any new risks.
- Will acquire risk **repository management software**.



Expected Benefits

- Improve project performance and meet project performance expectations (budget, milestones, public satisfaction)
- Better project team understanding
- Better overall process
- **Fewer surprises**



Organizing for Reliability

Step 1: Outreach to Decision Makers

Step 2: Self-Assessment Workshop - Systems Operations and Management Capability Maturity Model

- Scope
- Business Processes
- Systems/ Technology
- Performance Measurement
- Culture
- Organization/Staffing
- Resource Allocation
- Partnerships

Step 3: Development of Implementation Plan

Step 4: Take action

Florida's Challenge

- Currently Florida has a statewide Transportation Systems Management and Operations Task Team
 - State business plan
 - Statewide strategic plan developed
- Want to incorporate this at the District level

Florida's Approach

- Three major projects under development
 - Reconstruction of I-4 – build managed lanes
 - Construction of **Wekiva** Parkway around Orlando
 - Enhancement of Sun Rail – commuter rail services around the region
- **Goal:** Use reliability to support mode choice
- **Goal:** Integrate reliability concepts and operations into planning for these projects

Florida's Approach

- Address four elements:
 - Planning
 - Public transportation
 - ITS
 - Traffic Operations
- Steering Committee of key partners
 - Central Office
 - MPOs and local governments
 - Transit Agencies
 - DOT – Planning, Traffic Operations, Statewide Planning; Systems Planning

Expected SHRP2 Benefits

- By using a **standardized approach**, can save \$300,000 a year in Central Florida alone
- Enables us to have **access to national best practices and peer exchanges**
- Will bring **all parties together** across all modes – including transit, freight, pedestrians, bicyclists
- Will allow us to **grow and train** the operations workforce
- Will enable us to **develop performance measures** that will show how well we are meeting our goals
- **Build credibility** with the traveling public and across all agencies.

Next Steps

- Continue to **support the SHRP2 effort** and other innovative technologies
- Begin implementing Round 4 Products
 - **Reliability Data and Analysis Tools** (L02/5/7/8/C11)
 - **Concept to Countermeasure – Research to Deployment Using the SRHP2 Safety Databases**
 - **Nondestructive Testing for Concrete Bridge Decks**
(R06A)

Questions?

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