

MEETING AGENDA

D5 Urban Office 133 S. Semoran Blvd. Orlando, FL

JUNE 30, 2016; 10:30 AM-12:30 PM

ITS Master Plan for District 5 - TSM&O Consortium Workshop

Workshop Goals

- What should operations input be during planning?
- What does conceptual planning need from operations?
- Determine How Planning and Operations Can be Integrated on the FDOT Project Development Timeline
- Review the FDOT Project Development Timeline
 - Determine where TSM&O considerations should occur on the timeline
 - Determine where maintaining agency/partner coordination should occur on the timeline
 - Determine where additional steps should be added
- Go Over the Project Development Timeline for Maintaining Agency/Partner Organizations
 - Determine where TSM&O considerations should occur on the timeline
 - Determine where FDOT and other regional partners should be incorporated on the timeline
 - Determine where additional steps should be added

Maintaining Agency/Partner Organizations

- Draw Out a Couple of Timelines Based on Agency Input
 - Determine where TSM&O considerations should occur on the timeline
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Other Points for Discussion

- How much money is being saved by Seminole for data collection by the Purdue System
- Major Waves Transfuture
- Desire of the MPO/TPO as it relates to shifting from constant widening to livability using better data
 - What tools do we need?
- Roles and Responsibilities

ITS MASTER PLAN
PLANNING TO OPERATIONS

Florida Department of Transportation, District 5
June 30, 2016



Purpose

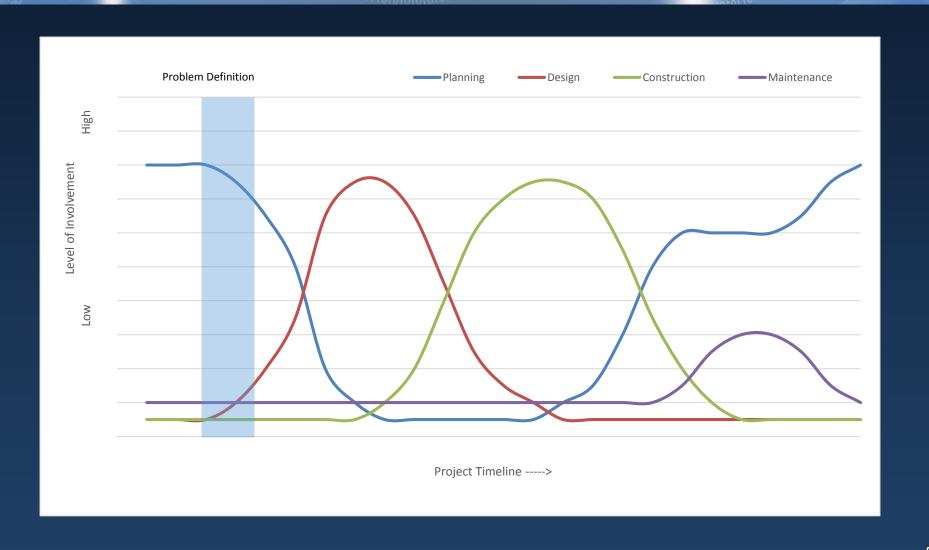
- Create an overarching ITS Master Plan for the Region
- Create a consensus on what items need to be integrated between agencies
- Determine what standards need to be met (security, maintenance, staffing, etc.)
- Develop an overall assessment
 - What is in place and goals for the future
 - What are the road blocks and how do we overcome them
- High level goals the region should be working towards
 - Types of investment that could work toward these goals
- Conform with National, Statewide and Regional Architecture

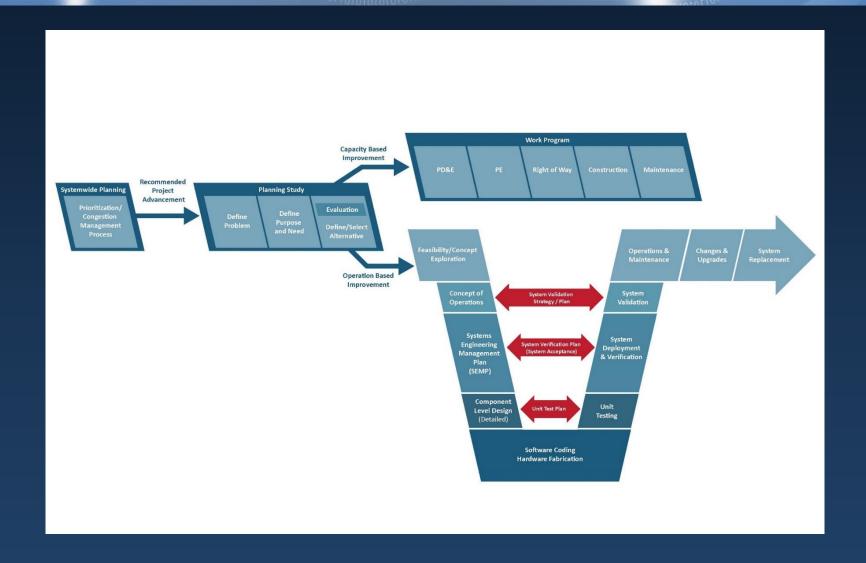
Overall Process

- Task 1 Document Existing Plans
- Task 2 Document Deployments
- Task 3 Identify Staffing Guidance
- Task 4 Applicable ITS Strategies
- Task 5 Applicable ITS Strategies for Connected Vehicle
- Task 6 ITS Standards
- Task 7 Configuration Assessment and Functions (TSM&O)
- Important Elements throughout the Process:
 - Incorporate all stakeholders Cities, Counties, CFX, SunRail, Airport, Seaport, MPO/TPO, Fire/Rescue, Transit
 - Discuss Roles and Responsibilities (FDOT/Maintaining Agency)
 - Cooperative Approach through Communication

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PLANNING WORK TASKS

COMPREHENSIVE **PLANNING**

LAND USE

- Existing Land DRIs
- Other Planned • Future Land Use Developments

MOBILITY

- Roads/Bridges Air/Space/Sea
- Drainage Surveys

R/W

- Traffic Crashes . Utilities &
- Aerial photos Railroads • Transit · Bike/Ped

ENVIRONMENTAL

- Relocation
- Land Use • Noise
- · Cultural/ Floodplans Community Storm (VE)
- · Contamination Zones
- · Wildlife/Habitat · Archaeological Endangered & Historical
- Species Sites Socio-Economic • 4(f) Impacts
- Issues • Coastal Zone • Permit
- Consistency Conditions Determination

DEVELOPMENT OF COST FEASIBLE PLAN

SIS PROJECTS

- · Consistency with Florida Transportation Goals
- and Objectives Cost Feasible

OTHER STATE AND FEDERALLY **FUNDED PROJECTS**

- LRTP STIP
- Deficient Bridge List Master Plans
- TIP
- Action Plans
- Rural County Programs

Capital Improvement

- Plans
- FDOT Statewide

UNSCREENED QUALIFYING PROJECTS IN AN ADOPTED PLAN

- Local Agency
- State Agency Authority

• Private Other

PLANNING SCREEN

ENVIRONMENTAL TECHNICAL ADVISORY TEAM REVIEW

- Preliminary Environmental
- Permit Conditions Land Use
- Discussion
- Biological Direct and Indirect Assessment · Habitat Analysis
- Effects · Socio-Economic
- Water Quality Impact Impacts
- · Relocation Potential · Floodplan Impacts · Cultural Resources · Construction
- Visual / Aesthetic
- Analysis
- Impacts Economic Impacts

COST FEASIBLE TRANSPORTATION **PLANS**

SIS PLAN

- Adopted 5 Year Plan Approved 2nd 5 Year
- · Cost Feasible Plan

MPO LRTP

- 5 Year TIP
- (Committed) Outer Years
- Approved Projects

PROGRAMMING SCREEN

QUALIFYING PRIORITY **PROJECTS**

- · Advance Notification
- Initial Comments
- · GIS Analysis

FEDERAL CONSISTENCY DETERMINATION

- · For Federally Funded Projects
- · Jurisdictional Requirements Local Government Planning

DEVELOP/PUBLISH PRELIMINARY PROGRAMMING SCREEN **SUMMARY REPORT**

- Scope
- Comments
- Purpose and Need Review
- · Degree of Effect
- COA

PUBLISH FINAL PROGRAMMING SCREEN SUMMARY REPORT

MOVE TO PD&E PHASE OR AS APPROPRIATE

District 5 ITS Master Plan



PLANNING

PUBLIC PARTICIPATION

KICK-OFF **MEETING** UNSCHEDULED **PUBLIC MEETINGS**

ALTERNATIVES PUBLIC MFFTINGS

PUBLIC HEARING

PUBLIC PARTICIPATION WRAP-UP

STUDY WORK TASKS

DATA COLLECTION

ENGINEERING INPUTS

- Roads Facilities Bridges Traffic
- Drainage Crashes Surveys Utilities &
- R/W Railroads Aerial photos Soils/Geotech

OTHER INFORMATION

- FDOT Personal Literature Interviews
- Financial Observation COA

ENVIRONMENAL INPUTS

- Land Use Floodplains
- Cultural/ Storm (VE) Community Zones
- · Contamination · Archaeological · Wildlife/Habitat & Historical
- Endangered Sites Species
- 4(f) Impacts · Socio-Economic · Coastal Zone Issues Planning
- Permit Consistency Conditions Determination

PRELIMINARY CONCEPT **ANALYSIS**

NEEDS ANALYSIS

- Geometric TSM&O
 - Deficiencies Corridor Capacity
 - Aesthetics Safety
- Potential Evacuation Route Systems Connectivity & Linkage

INITIAL CONCEPT DEVELOPMENT

- Project Segmentation Socio-Economic
- Typical Section Consideration · Right-of-Way Issues Construction & R/W
- Drainage Costs Alignment Maintenance
- Structural Constructability · Environmental Issues · MOT

PRELIMINARY CONCEPT SCREENING

- Comparative Analysis and Evaluation Matrices

ENGINEERING ANALYSIS AND DESIGN

ENGINEERING ANALYSIS

- Concept Cost Estimates Alternatives · Right-of-Way

ENGINEERING DESIGN

- No-Ruild • TSM&O
- Improvements
- Build Alternatives Exceptions &
- Variances Corridor Analysis
- Construction
- Consideration Financial Consideration
- Structural Concepts Concept Plans
- MOT
- Intelligent
- Transportation Phasing Systems (ITS)

ENVIRONMENTAL ANALYSIS

ENVIRONMENTAL STUDIES

- Endangered Species
- · Relocation Potential Impacts • Cultural Resources • Noise/Air
- · Visual / Aesthetic Analysis
- Permit Conditions Land Use
- Impacts Contamination
- Water Quality
- Wetlands
- Floodplain Impacts Construction
 - Economic Impacts

FINAL DOCUMENTS

ENGINEERING FINAL REPORTS

- · Preliminary Engineering Report
- Typical Section Package
- · Drainage/Pond Siting Report
- · Location Hydraulics Report (LHR)
- Interchange Access Report (IAR) · Bridge Hydraulics Report (BHR)
- · Conceptual Design Roadway Plan
- Access Management Plan

ENVIRONMENTAL DOCUMENTS

- Endangered Species Biological
- Assessment (ESBA) · Contamination Screening
- Evaluation Report (CSER) Wetland Evaluation Report (WER)
- · Air Quality Report · Noise Study Report
- · Cultural Resource Assessment Survey (CRAS)
- Categorical Exclusion (Type 2) Environmental Assessment (EA) / Finding of No Significant Impact
- (FONSI) · Environmental Impact Statement
- State Environmental Impact Report (SEIR)

QUALITY ASSURANCE/ **QUALITY CONTROL** QA/QC

FDOT REVIEW

- · All Engineering Documents All Environmental Documents
 - **FDOT APPROVES**

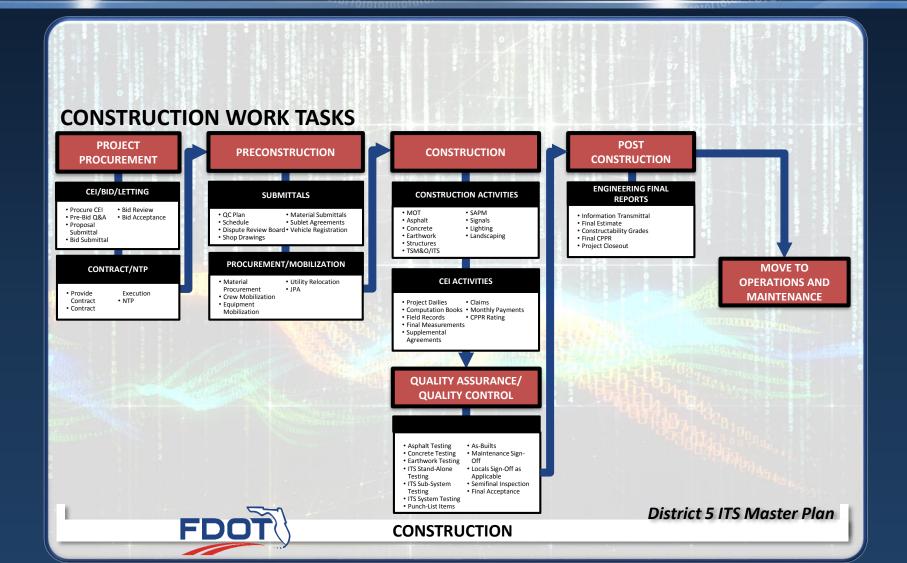
MOVE TO DESIGN PHASE

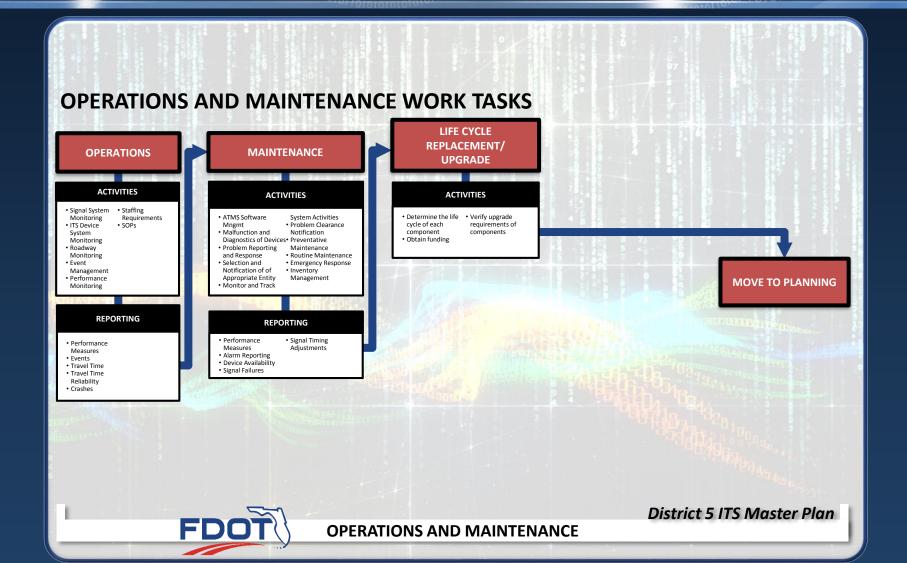
District 5 ITS Master Plan



PD&E

DESIGN WORK TASKS 30% PLANS 90% PLANS PRELIMINARY DESIGN **FINAL PLANS** PRE-DESIGN ACTIVITIES **ACTIVITIES ACTITIVITES ACTIVITIES** Phase III Roadway 90% Structures · Line and Grade Approval · Signed and Sealed Plans · Design Survey Plans 90% Signals Bridge Hydraulics VE Study Survey Alignment • Utility Contact (RGB)• 90% SAPM · Specifications Package Recommendations • 30% Structures • R/W Survey Phase III Soils • 90% Lighting • 30% Control Map Review Access Mgmt. • 30% Geotech Report 90% ITS Foundations Report • 60% Control Map Report Permits Package · Permitting · Receive Design Approve Exceptions/ Railroad Contact Railroad Clear Variations Confirm Local Traffic Memo · Pavement Design · Pond Notification • 90% R/W Map **R/W PROCUREMENT** Support • BDR Letter 60% R/W Map · Load Rating Report • Typical Section • 90% Geotech • 100% R/W Map Foundations Report **PLANS UPDATE** 60% PLANS **100% PLANS MOVE TO** CONSTRUCTION **ACTIVITIES** ACTIVITIES Confirm Local Phase IV Roadway Plans Support · Phase II Roadway 60% Signals R/W Map Complete Final Gentech Plans • 60% SAPM • 60% Lighting Foundations Report • Appraisals Review Drainage Design • Final Soils Support • Final R/W Order of Phase II Soils Report 60% ITS Permits Clear Taking • R/W Estimate Obtain/Verify • 100% Structures R/W Certified • 60% Control Map TIP/STIP approval • 100% Signals Production Date · Phase II Pavement Review • 100% SAPM · Constructability and Report • 100% Lighting MOT Review 60% Gentech • 100% ITS • 90% Control Map Foundations Report Title Search Work 30% R/W Map BDR Review • 60% Structures **District 5 ITS Master Plan DESIGN**





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