

Georgia DOT Every Day Counts 2

SAASHTO 2014
August 23 - 27



EDC Initiatives



Georgia DOT is participating in ten EDC Initiatives

- Locally Administered Federal-aid Projects
- Programmatic Agreements
- 3D Engineered Models for Construction
- Intelligent Compaction
- Alternative Technical Concepts
- Design-Build
- Accelerated Bridge Construction
- High Friction Surface Treatment
- Implementing Quality Environmental Documentation
- Innovative Intersection Designs

EDC Initiatives

- In addition to EDC, GDOT is also participating in five SHRP2 Initiatives
 - National Traffic Incident Management Responder Training (L12)
 - Organizing for Reliability (L01/L06)
 - Managing Risk in Project Delivery (R09)
 - Managing Complex Projects (R10)
 - Pavement Preservation (R26)
- This presentation highlight several successful EDC initiatives

Design-Build

Objectives

- Increase and extend D-B to other areas such as the local program
- Develop procedures for including Best Value in D-B process
- Develop procedures for D-B Single Phase procurement



Design-Build

GDOT Successes

- Two D-B projects awarded and three more proposed for this Summer
- Different projects delivered using D-B
 - \$176M managed lane project
 - \$1.5M SRTS project
 - \$5M accelerated bridge construction project
- D-B Manual updated to increase flexibility
- Workshop held with utility owners, consultants and contractors in February 2014



Programmatic Agreements

Objectives

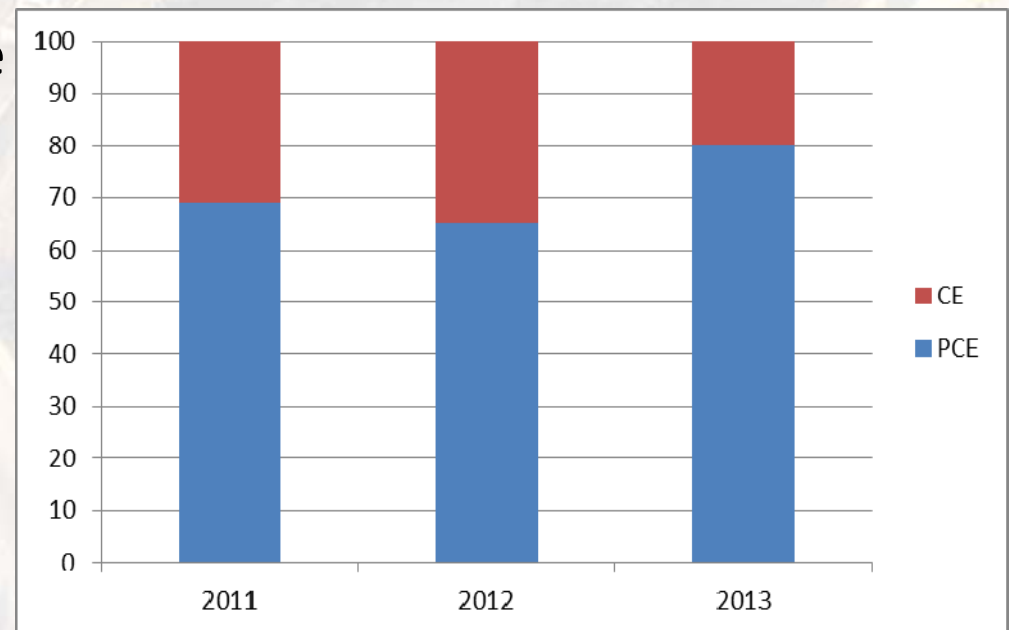
- Streamline the CE process through use of PCEs where applicable.
- Develop an updated PCE agreement that clarifies procedures for non-construction projects among other enhancements.
- Complete PCE for Minor Bridge Replacement Program (Low-Impact Bridges) with goal of more rapid CE approvals
- Develop programmatic agreement(s) for threatened and endangered species for which GDOT gets repeated construction conditions and limits.



Programmatic Agreements

GDOT Successes

- Partnered with FHWA to develop streamlined PCE Type II Action for Minor Projects
- Increased NEPA CE approvals from 69% and 65% in FY 2011 and 2012 to 80% in FY 2013
- Streamlined process approved by FHWA in Dec 2013 for certain low-impact bridge projects.

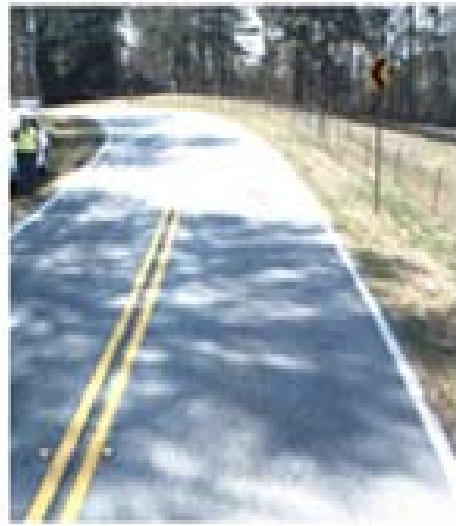


High Friction Surface Treatment

Objectives

- Develop a Special Provision for HFST use in Georgia
- Identify a list of candidate HFST locations
- Reduce crashes in curves treated with HFST

BA-HFST-SC



High Friction Surface Treatment

- **GDOT Successes**

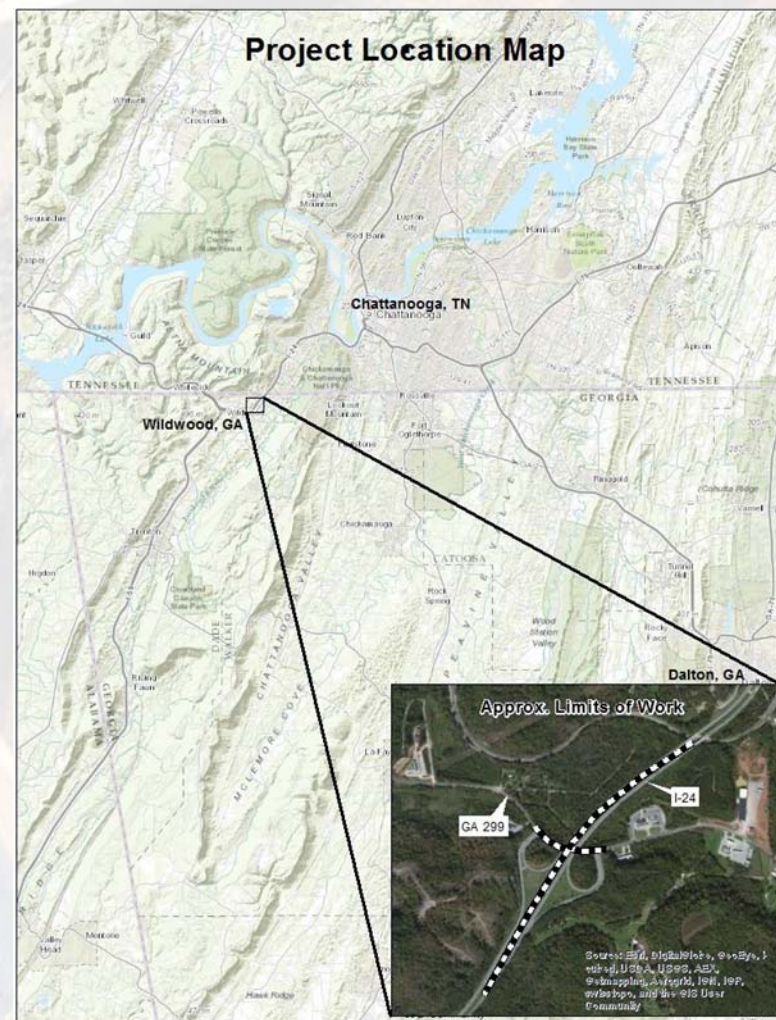
- Special Provision was completed in September 2013
- 8 locations included in Cherokee County Safety Project
- 27 District 5 locations in June LET
- 83 District 1 locations proposed for FY15
- Before and after studies will be conducted 3 to 5 years after completion



Accelerated Bridge Construction

Objective

- Deliver a bridge replacement project using Slide-in or Self Propelled Modular Transport (SPMT) technology
- Develop standard plans for NEXT beam for Load and Resistance Factor Design (LRFD)



Accelerated Bridge Construction

- **GDOT Successes**

- D-B procurement underway for Bridge replacement project (Slide in or SPMT) in Dade County
- 3 bridge projects under design utilizing NEXT beam standards
- 1 bridge under design utilizing PSC beams and Pre-cast deck





Questions?

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