



TEXAS DEPARTMENT OF TRANSPORTATION



CONSTRUCTION ENGINEERING INSPECTION (CEI)

2018 PEPS Conference

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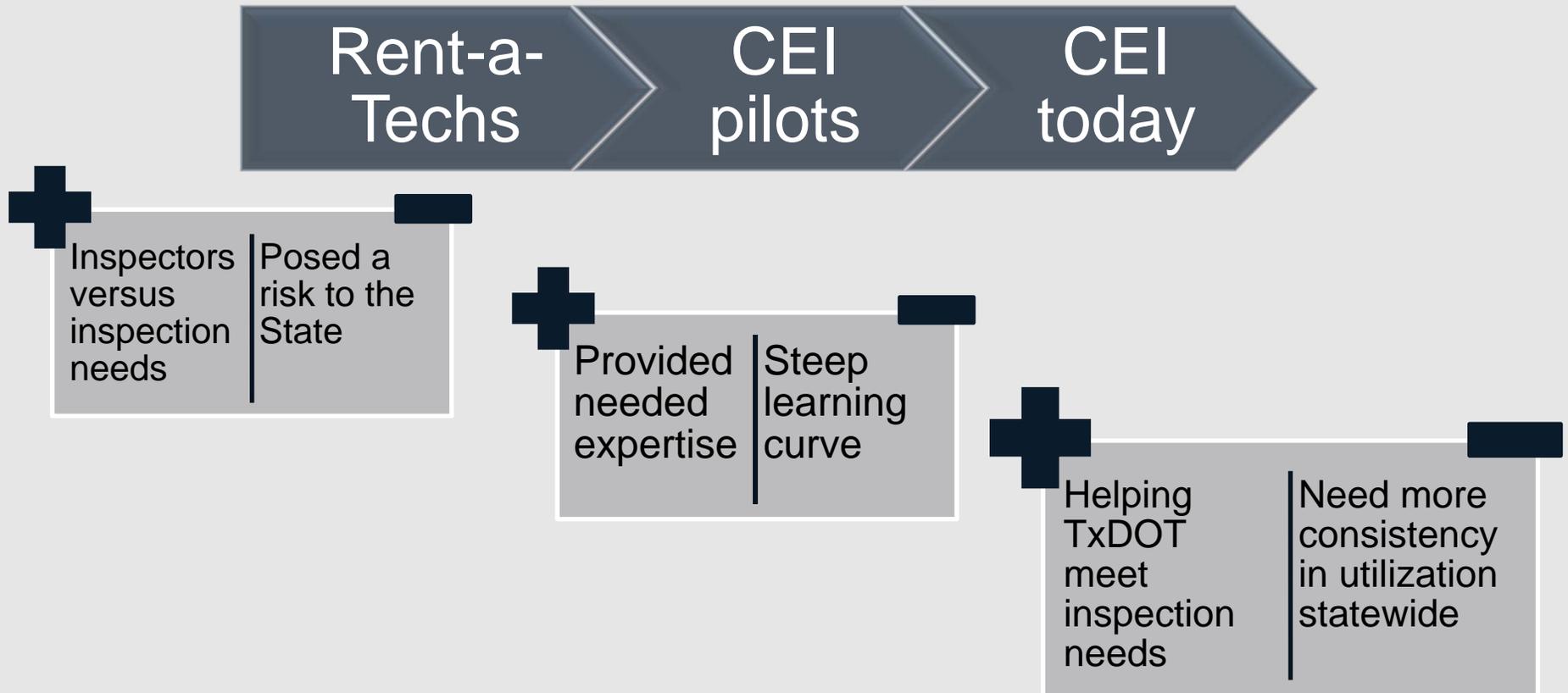


November 28, 2018

Presentation Topics

- 1 The Prep Work - Evolution of CEI Procurements
- 2 The Prep Work - CEI Procurement Process Today
- 3 The Real Work - Expected Workload
- 4 The Real Work - Challenges
- 5 Wrap Up & Questions

Evolution of CEI



Evolution of CEI

Pilots

- Statewide IDs
- Many Non-listed Categories
- Incomplete scope
- Learning curve for industry

Today

- Procurements location based
- Standard Work Categories
- Standardized scope
- Best Management Practices



New Standard Work Categories

11.3.1 Construction Superintendent

11.4.1 Environmental Inspections

11.5.1 Construction Scheduling Project Manager

Construction Schedule Support - Relating
to Construction Management of Projects

11.8.1 Including Bridges or Multilevel Interchanges

CEI Procurement Process Today

Federal Management: Indefinite Deliverable (ID)/Specific Deliverable (SD)

- Management service projects using federal funds that meet Federal process requirements
- Proposals and Interviews required
- Coordination with Federal Highway Administration (FHWA) is required

Federal with Interviews and Federal Management

RFP

Proposal

Short List

Interview

Selection

But how do we get started?

CEI Procurement Process Today

District Determines Need

- Coordinates need with PEPS
- Determines Consultant Selection Team (CST) members

Procurement Preparation

- District Project Manager (PM) provides Scope
- All CST members take training

Procurement Process

- PEPS Facilitates
- CST establishes Proposal & Interview requirements

Selection & Contracting

- CST Determines Selection
- PEPS aids in negotiating and contracting

Proposal & Interview Topics

- Proposal - covers topics in written format
- Interview - covers topics with in-person presentation
- CST -
 - develop broad topics for Proposal and use more narrow topics for Interview or
 - use same topics for Proposal and Interview
- CST - determines weightings for criteria and interview attendees

The Solicitation for Federal Process

Evaluation Criteria

	Evaluation Criteria	Proposal should include:	Weighting for Evaluation of Proposal
1	Technical Approach	Project understanding, innovative concepts or alternatives, quality control procedures, staffing	XX%
2	Project manager's relevant experience	Similar or related projects, project management	XX%
3	Key staff's relevant experience	Similar projects	XX%
	Past Performance Score **		5 to 10%

** Past Performance is used only in Proposal

From Prep Work to REAL Work

Finalize Scope
(SD):
District/
Consultant

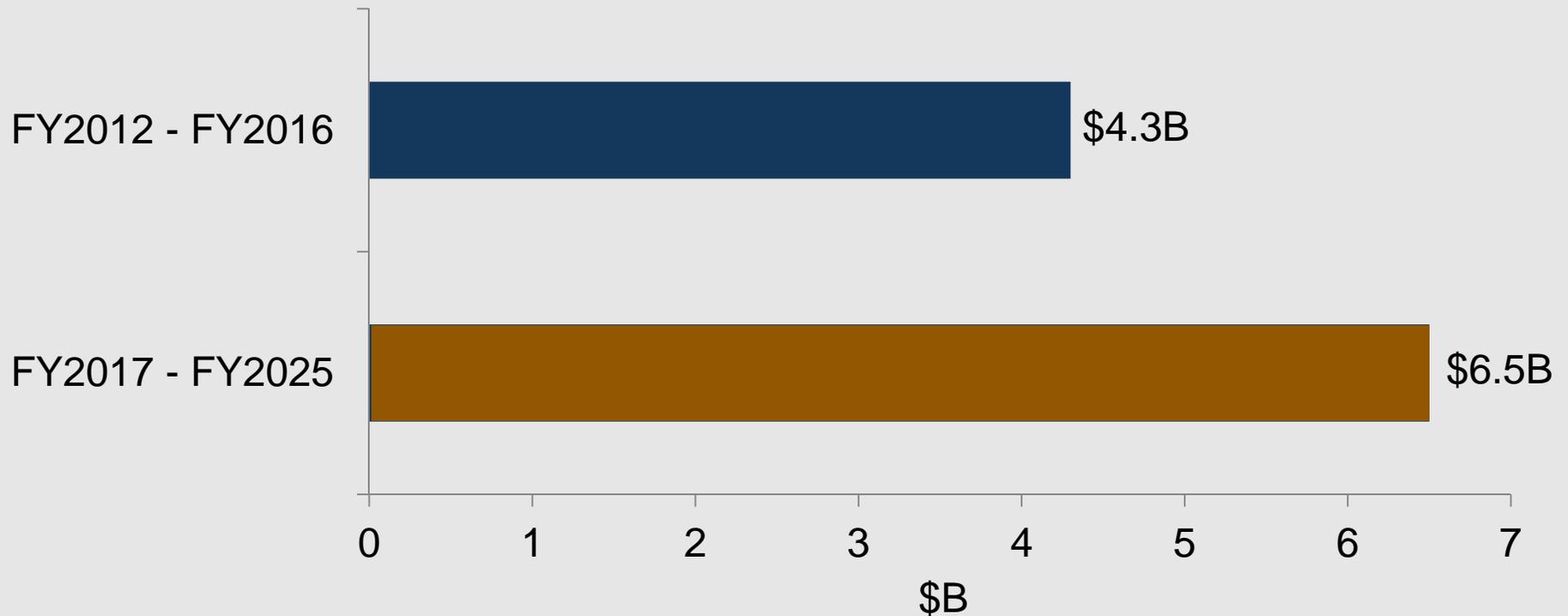
Fee Schedule:
PEPS (rates)
& District (SD)

Complete
Package
Contract
Specialists &
CSD

Executed
Contract

**NOW THE REAL
WORK STARTS**

REAL Work – Projected Construction



Positions to remain constant at best → **Requires CEI for support**

REAL Work – Expected Average Split among Districts

Projected Construction

- TxDOT Only/CEI

Metro Districts

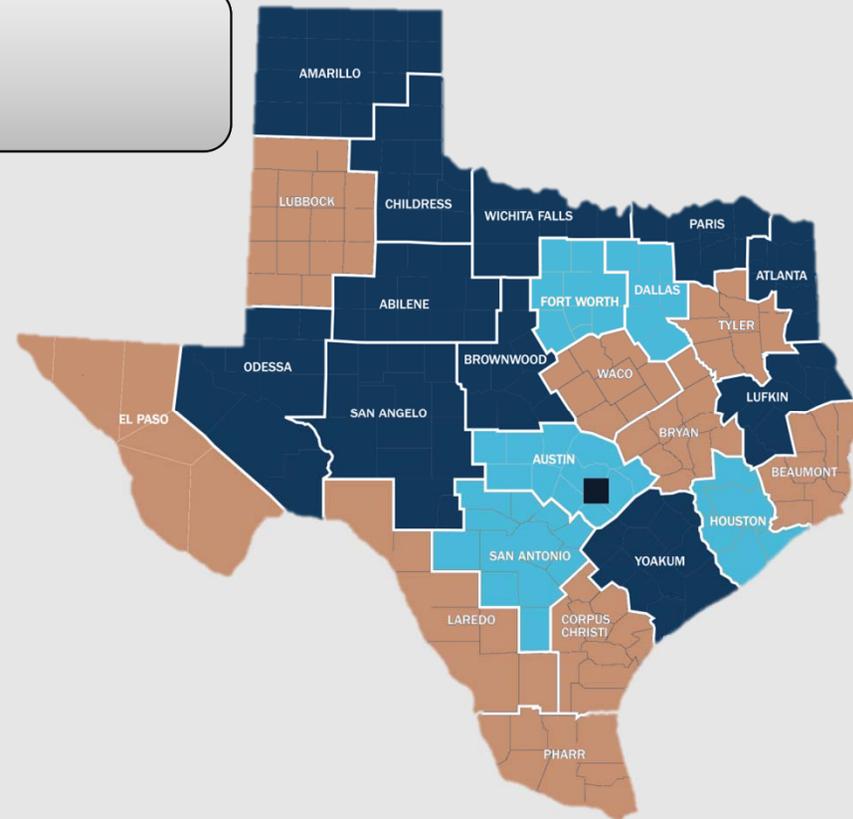
- 50/50 CEI

Urban Districts

- Case-by-case

Rural Districts

- 75/25 CEI



REAL Work – Current Capacity of CEI Contracts at Districts

	2017		2018	
Contract Type	Total Capacity	# of Contracts	Total Capacity	# of Contracts
ID	\$45.5M	15	\$91.2M	21
SD	\$133M	12	\$163M	14

Determining TxDOT Needs

- Internal FTE workload model is available to districts
 - Adjusts need and Level of Effort (LOE)
- Procure early
 - Determine need 1 year in advance of SD Contracts
 - Determine need 4 years in advance for ID Contracts

Determining CST Members for CEI Procurements

- District Directors of Construction – 1st point of contact
- Involve Area Office that will be involved with CEI team
- Ensure full participation of members to determine most qualified team for contract
- Understanding scope of project

TxDOT Management of CEI projects

- Scope of project should be clear to all parties
 - Is project staffed correctly (engineers & inspectors) for each phase of project?
 - What assumptions were made?
 - What is the burn rate?
- Need for consistency of involvement from TxDOT PM
 - Developed a CEI Guidebook to help districts
 - Communication, communication, communication
- Review construction estimates vs CEI invoices

CEI Training on TxDOT Procedures

- District should meet with CEI team to discuss internal processes
 - Provide a written process
 - Provide onsite training at the District or Area Office
- Include CEI team when presenting on construction topics
 - Record keeper meetings
 - Distribution list on new processes

REAL WORK – Planned Improvements

Consistency

- Test Pilot for CEI Workshop kicked off September 2018
- Provides consistency across all Districts
- Best Practices statewide

Communication

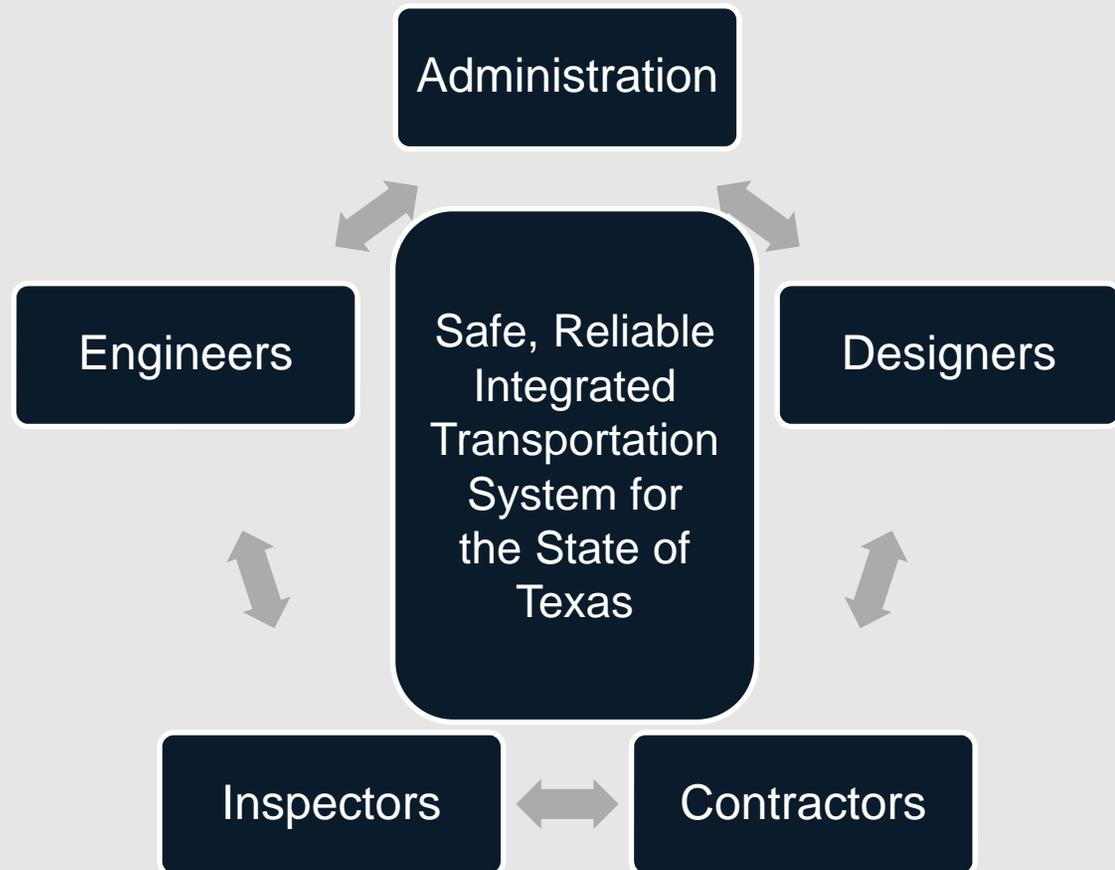
- Improving District | PEPS communication

Prioritizing

- Prioritize need from all disciplines within each District
- Stop the “Hail Mary’s”

The REAL Work - Challenges

It takes us all to collaborate, communicate, & problem solve to get the job done right!



Questions and Discussion



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