



Chitra Foster, PE, DBIA, ENV SP Texas Water Practice Lead 25 years of experience Engineering and construction in the water industry



Dave Kinchen, DBIA
Regional Construction Business Lead **34 years of experience**Construction delivery in the water industry

123 Year History in Water

\$3 billion

annual construction delivery

130+ COLLABORATIVE DELIVERY PROJECTS in the past 10 years

2,310+ water projects in the past 10 years

Over 1,200

Texas based construction, craft & engineering professionals

\$3.8 billion annual procurement volume

140 procurement professionals



#2

DESIGN FIRM IN TEXAS & LOUISIANA

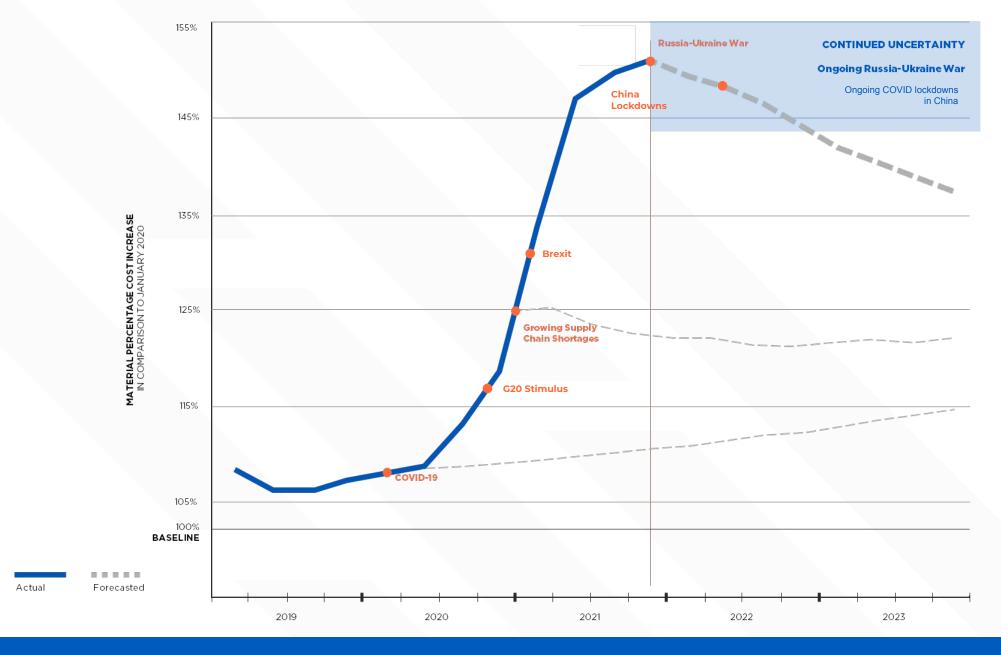
#6
TOP 100
DESIGN-BUILD

FIRMS

#12
TOP 50 PROGRAM
MANAGEMENT FIRMS

#25
LARGEST
CMAR FIRM

STATE OF THE MARKET



June 2022 WCDA Industry Poll – Top Problems

- Raw material unavailability Basic inputs unavailable and affecting delivery
- Limited production capacity Excess of orders extending delivery times
- Transportation/logistics Unavailability of shipping and global shipping impacts



Project Impacts

- Short validity of quotations (<30 days) = price escalation
- High price increases & volatility (>25% within 6 months) = price escalation
- Cancelled orders = delay
- Longer delivery times (50% longer than previously purchased) = delay
- Material availability (or lack thereof) = delay
- Limited bidder pool and competition
- AIS/BABA and other provisions

Recent History on Bid Results

SAWS LS Rehab Phase 5

Eng. Estimate: \$9,933,508 BV Bid:

\$12,668,000

HPW – Southeast WWTP Pkg 1

Eng. Estimate: \$34,500,000

Low Bid \$44,917,735

Pflugerville WTP

Eng. Estimate: \$103,000,000

Low Bid: \$147,000,000

2Q 2020 - 1Q 2022

COMMODITY PRICING INCREASES

Steel Shapes & Rebar 30-40%

Fabricated Steel 10-20% CS Pipe Material 15-25% Fabricated Pipe 10-20%

Power Cable 40-50%

Conduit 20-30%
Freight 20-25%
Large Transformers 15-25%
Mech Equipment 10-20%
Lumber 50-100%
Ductile Iron 35-45%
Diesel Fuel 28-30%

PVC/FRP Fabrications 125-175%

Current Budget Approach is Obsolete



Cost modeling methods do not reflect current and future budget needs.



Historical lead times do not reflect new normal supply chain.

Conventional Delivery Issues



Limited bidder pool



Limits ability to manage supply chain challenges



Does not empower risk mitigation

Top Strategies to Manage Uncertainty

- Inject truth to the budget process
- 2. Drive design to budget
- Drive design to procurement
- Flex your delivery solution

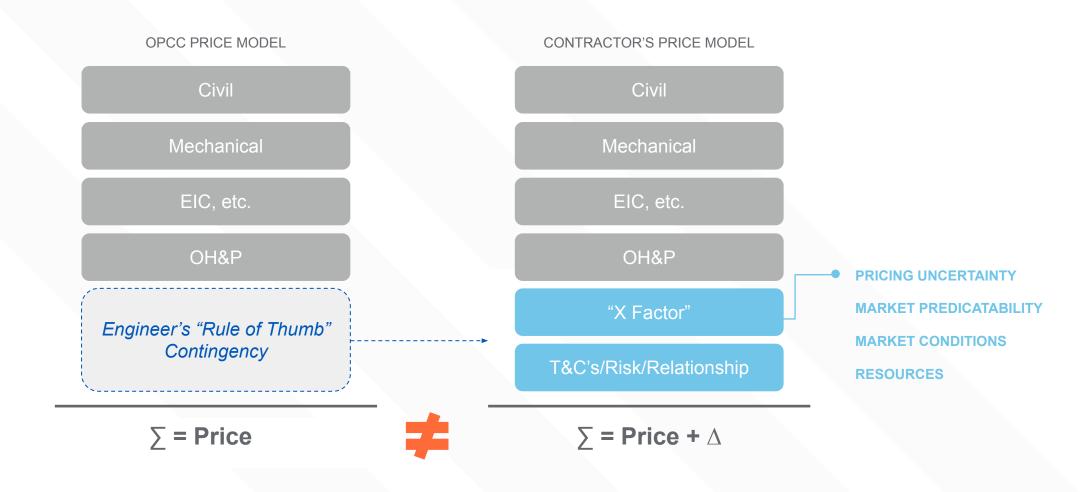




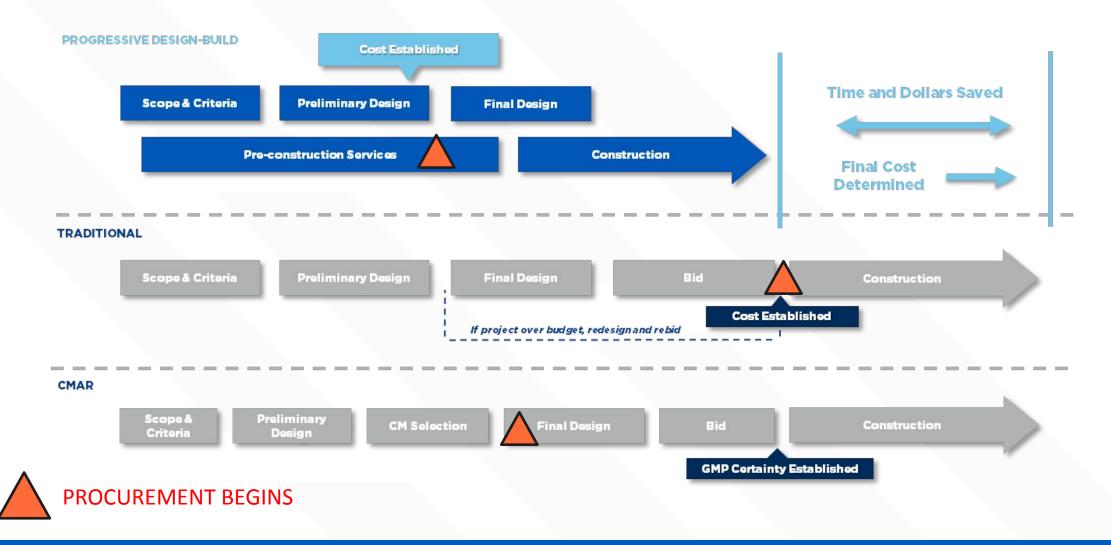


WHAT'S IN THE NUMBER?

Components of OPCC to Market Pricing Models



Procure early and manage design



CONCLUSION

LEGISLATIVE CLOUDS

TEXAS CODE 2269

- 93% of the State cannot use DB (pop limits)
- # projects limits major systems to address broader needs

TWDB GUIDELINE DOCUMENTS

- Procedural limitations to risk mitigation
- Doesn't allow Owner to manage supply chain issues





OPPORTUNITIES FOR WINDFALLS

- Uncertainty is here to stay
- Owners need the proper tools
- Current issues are/will impact State without change
- It's time to change how we do things!



QUESTIONS? (WHAT'S FOR LUNCH?)