

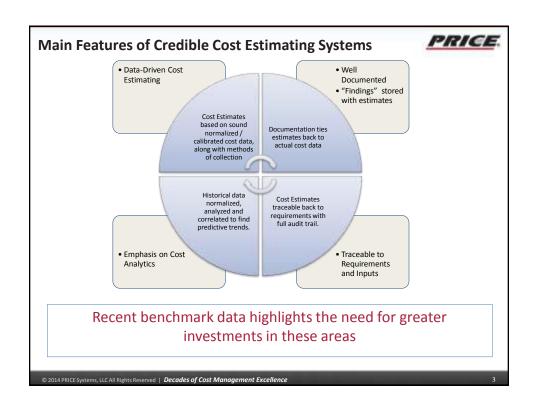
The Current Environment

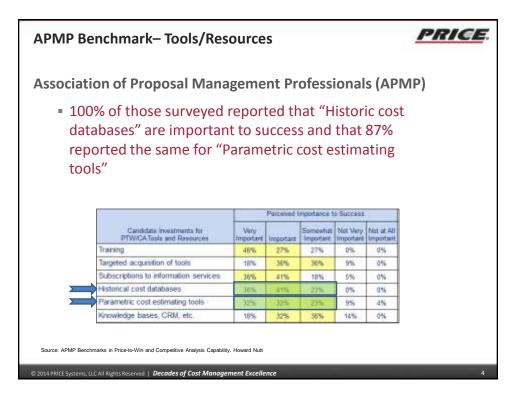


- Over the last 40 years, creating realistic cost estimates based on sound data and methodologies has proved an elusive goal.
 - As far back as 1972, the US GAO stated that cost estimates for specific systems
 were "frequently revisions of previously developed estimates and that accurate
 revisions of both the original and updated cost estimates required documentation
 showing data sources, assumptions, methods, and decisions basic to the
 estimates."
 - This has led to estimates that were too optimistic, leading to costly over runs.
 - Early initiatives such as CAIV in the mid-1990's have failed to contain over optimistic estimates.
 - Of the six original CAIV programs, half experienced a Nunn-McCurdy Cost Breach and none of the programs reviewed achieved a 50% savings as was originality envisioned.
 - Recent initiatives such as the Weapons System Reform Act of 2009 has placed more emphasis earlier attention on both requirements, cost and schedule.
 - US GAO Cost Estimating and Assessment Guide provides best practices to develop sound estimates and is ongoing.

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PRICE **APMP Benchmark- Commonly Used Tools** Association of Proposal Management Professionals (APMP) 40% perceive PRICE model (TruePlanning®) as important for success while... 80% commonly perceive "Custom Excel spreadsheets" as important for success while another report says that 88% of spreadsheets have errors according to MarketWatch! Perceived Importance to Success PTW/CA Process Element Custom Excel spreadsheets Knowledge management tools (e.g., SharePoint) NPUT (market intelligence reporting senice) FOIA (Freedom of Information Act): Should-cost models, as used by customer PRICE model (parametric cost estimated software) Fedspending org (budget tracking service) Customer relationship management (CRM) tools Eagle-Eye (market intelligence reporting service) E-Pipeline (market Intelligence reporting service) http://www.marketwatch.com/story/88-of-spreadsheets-have-errors-2013-04-17?siteid=nwtpm. Source: APMP Benchmarks in Price-to-Win and Competitive Analysis Capability. Howard Nutt © 2014 PRICE Systems, LLC All Rights Reserved | Decades of Cost Management Excellence

Sustaining Long Term Affordability

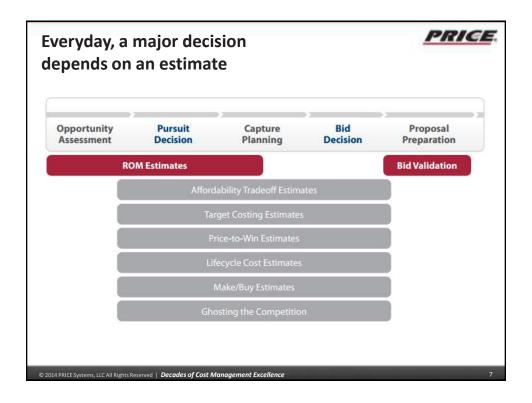


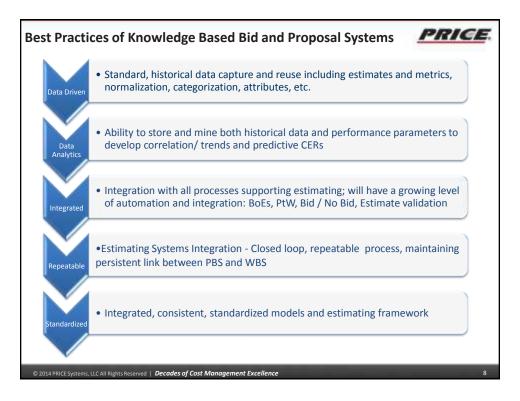
- Cost Estimating practitioners must have robust tools to:
 - Perform data analytics, create usable findings to drive parametric models.
 - Store results in easily searchable databases to use as estimate building blocks.
 - Fully store documentation along with estimates, key inputs fully traceable to data analyzed.
 - Closed loop, integrated with other tools across the life cycle from requirements to EVM.

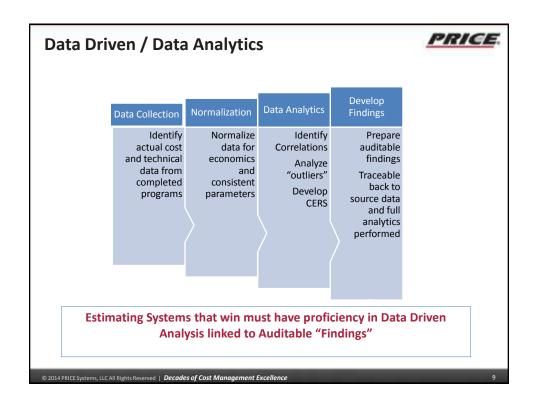
Organizations that implement estimating systems with data-driven characteristics using integrated, repeatable and standardized systems produce credible estimate that win!

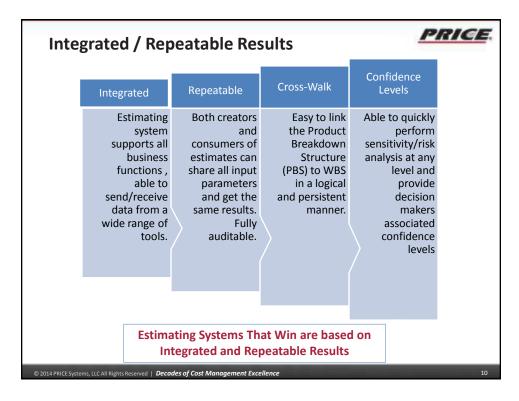
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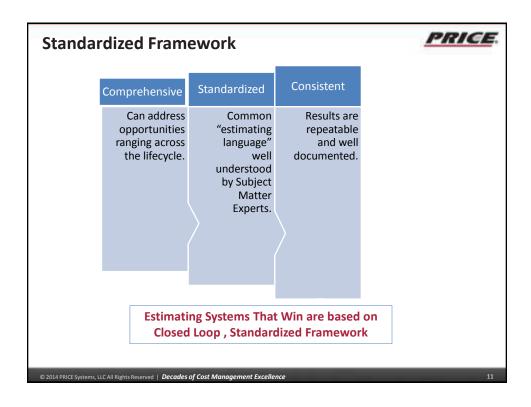
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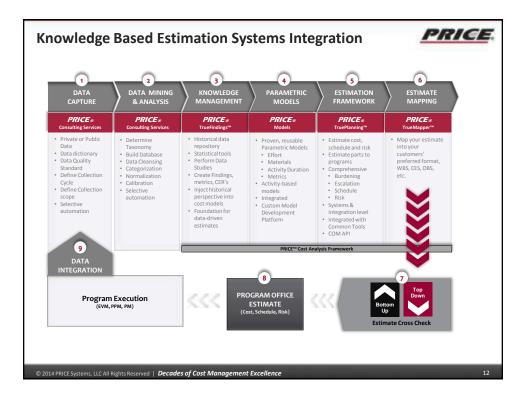












Bid Verification: Comparison of Parametric & Bottoms Up Methods PRICE. **Parametric Estimates Detailed Build-Up Estimates*** Top down Bottoms up Less detail More detail Based on time and material Based on performance metrics Less labor intensive Labor intensive Quicker Time consuming Trade offs need details Ease of trade-offs analyses Parametric database Performance standards Accepted method Not always accepted "Black Magic" aura Generally understood dispelled with data-driven More susceptible to distortions Generally more disciplined Optimism/Pessimism Standard methodology Special interest/buy-in Independent Done by managers/engineers Done by trained analysts Missing Captures totality of past programs • - "I forgots" - Unknowns Source: Joe Hamakei *AKA "labor-material build up", "grass roots", "bottoms up' "engineering estimates © 2014 PRICE Systems, LLC All Rights Reserved | Decades of Cost Management Excelle

Conclusion



- Consistent use of Knowledge Based Bid Verification/Validation methodologies avoids over optimism
 - Unbiased metrics from measured benchmarks
 - Provides consistent and credible link to Price-to-Win
- Persistent link between "as built" Product Breakdown Structure (PBS) and "reporting" Work Breakdown Structure (WBS)
 - Reveals missing or inconsistent estimates
 - Reconciles Data-Driven estimates with grassroots estimates
 - Mitigates Risk
- Unifies "Top Down" Parametric Estimating with "Bottom Up" Grassroots estimating.
 - Creates "buy-in" across the organization
 - Minimizes errors and omissions

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