

Agenda

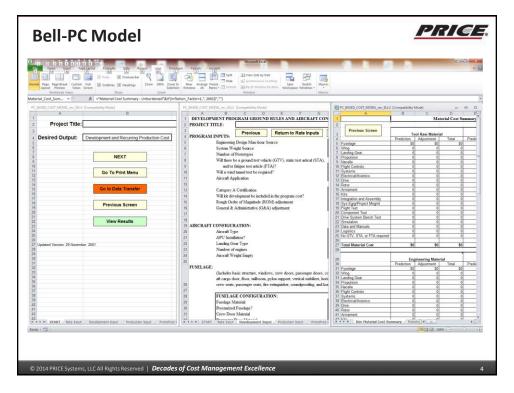


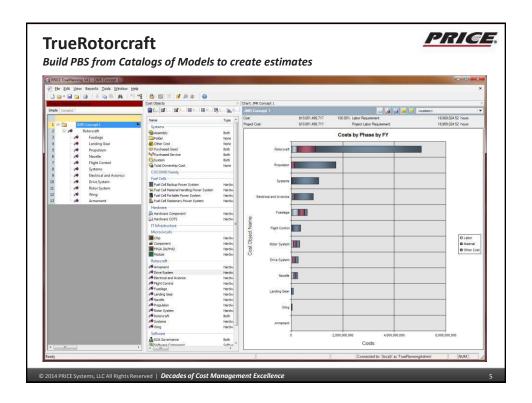
- Background
- Data Collection
- TrueRotorcraft Version 1 (Technical Improvements)
- TrueRotorcraft Version 2 (New Rotorcraft Types/Technologies)
- Future Work

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Data Collection - Purpose



- Collect and analyze data from in-service rotorcraft
- Create a process for data collection that is:
 - Well defined (to allow apples-to-apples comparison)
 - Repeatable
 - User friendly
- Create a database of Rotorcraft data that represent definitive data that will support future estimates
- Perform analysis on collected data to....
 - Validate existing cost estimating relationships for rotorcraft
 - Identify weaknesses in existing cost estimating relationships and update these based on the analysis

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Data Collection Form



- Used the Bell PC model as a starting point
- Extended beyond the Bell PC model to accommodate for new technologies, materials, and anything Army/Industry suggested may drive cost.
- Data collection form has tabs representing the following data that might be available
 - Aircraft and Subsystem
 - Weight breakdown by subsystem (via Bell PC model and Society of Allied Weight Engineers standard RP-8A)
 - Cost and Effort Summary
 - Development Cost Details
 - Prototype Details
 - Production Details
 - Reliability and Maintainability
 - Maintenance Manhours and Parts cost
 - Other O&S Data
 - Detailed Subsystem Data

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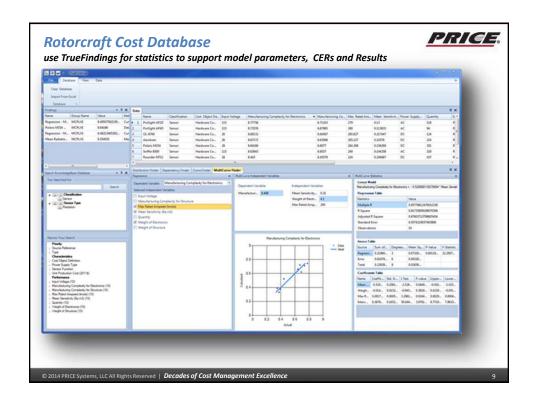
Data Collection



- Data Collection Forms distributed to Army and OEMS
 - Actual data collection has been a slow starter but looks promising going forward
- Plan B being executed gathering CSDR data directly from Army, and matching up as best as possible to data collection forms.

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TrueRotorcraft v1.0 Improvements



- User friendly, visual, drag-n-drop, plug-n-play environment
- Rapid tradeoff & input sensitivity analysis
- Years of Planned Production capability, O&S Deployment, and basic Schedule Estimating Relationships
- Enhanced reporting features
- New capabilities for economic considerations
 - · Inflation data built-in, or can be supplied by the estimator
 - View costs as-spent, or in any specific FY
 - Net Present Value
 - · Costs vs. Budget
- Complete Review of Algorithms
 - 10+ cost-changing bugs found in original model, fixes ready for v2.0
- Automated Testing
 - Over 1000 automated tests and counting
 - Enables updating /enhancing of models with greatly reduced danger of introducing bugs in existing algorithms.
- Improved Help System

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PRIGE. **TrueRotorcraft v2.0 Improvements** Introduce Component Build-up Capability Improve Technology Factors (Georgia Tech PhD's provide research and guidance) O&S Model – Move to MTBF-Driven Methodology (Georgia Tech) Map MIL-STD-881C and CAPE Cost Element Structure **Recommendations for Model Improvement** 1. Component build-up capability ****** **** 2. Complexity factor calculator *** **** **** 3. Technology profile *** 4. RAM Allocation **** **** 5. Update O&S WBS **** ****** 6. Software module © 2014 PRICE Systems, LLC All Rights Reserved | Decades of Cost Management Excellence

