



ACEIT 8.0: Designed with our Users in Mind

Developed by cost analysts for cost analysts

New Model Builders



Experienced Model Builders



Model Reviewers





Challenges for our Users

New Model Builders



- Getting started
- Learning modeling basics
- Gaining proficiency quickly

Experienced Model Builders



- Modeling efficiently
- Adding model complexity
- Managing model
 performance

Model Reviewers



- Quickly understanding
- Reviewing for consistency
- Validating the modeling approach



Design and Development Challenges

A Little History

- ACEIT's basic architecture framework ties back to ACEIT 3.0 from 1996
- ACEIT's file format last revision was with ACEIT 7.0 in 2006

Preparing for **S** Future

- The architectural framework needed to be updated
- The file format introduced with ACEIT 7.0 is the basis for the ACEIT 8.0 however, it was significantly updated

	୬୯	≣ € ≝ -		ACE 7.5 - [0	01 - Basic ACE.a	ices (Read-Only) - M	Methodology	y (BY2016\$K)]				- 0 ×
File	Home	View Construction Functions Results	Error Log •	📝 Next			* Indent	Gomment				0
	Copy	Arial 8		Previous			* Uninden					
Paste	J Forma			Anchous	Workscreen Inpu		Columns					
	Clipboard		· · · · · · · · · · · · · · · · · · ·	kmark 🖙	• View	Viewer Form	n a columna	Construction				
5			Calculate BOO	Guidenk	VIEW			Construction				
-	- 🖸											▼ ×
/ 🔮 01 -	- Basic A	(BY2016\$K)					Dheeing		Fieed	Cumm		
§ 1 2 3	3 🚽	WBS/CES Description	Comments (*) Example File Commen	s Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units Result T		Finish Date
	1	** EXAMPLE FILE **	View line-by-line comments about the sess in this column or click Documentatic Introduction from the Construction tab to v detailed informa	n > ew								
-	2	*Estimate	Comment row - beginning of estimate V		*Estimate							
P	3	Total	Summary parent row for the estin			\$ 56,030.505 *						
•	4	Manufacturing	Summary of air vehicle and integra		Mfg\$							
	5	Air Vehicle	Calculate equation annually by using F pha				F	AV_UC\$ * BuyQty				
	6	Integration & Test SEPM	Estimate as factor of air vehicle Estimated as factor of manufacturing			\$ 5,159.248 * \$ 14,635.067 *	F	0.15 * AV\$ 0.37 * Mfg\$				
	8	Program Office Costs	Estimated as factor of manufacturing Estimate by Then Year cost inputs by			\$ 1,841.202 *	TY	[Cost Throughput]		\$K		
ta ta	9	Program Onice Costs	Estimate by men rear cost inputs by	eal AFF		3 1,041.202	11	[Cost moughput]		۹r.		
	10	*INPUT VARIABLES	Comment row - beginning of input variables sec	tion	*IN_VAR				I			
E C	11	**Production Inputs			*ProdInputs							
T	12	Air Vehicle T1	Equation to calculate AV	UC APF			С	(959 * TW ^ .243 + 189 * RANGE ^ .652) / 2	2012	\$K		
	13	Buy Quantity	Buy quantity inputs by		BuyQty			[Input Throughput]				
	14				,-,							
	15	*Technical/Performance Characteristics	Comment row - header for performance varial	des								
	16	Air Vehicle Takeoff Weight (Ibs)	Technical characteristic used in CER for AV	UC	TW	12000.00 *	С	12000				
	17	Air Vehicle Range (nmi)	Technical characteristic used in CER for AV		RANGE		C	250				
-	18											
	19											
	20											
	21											
	22											
	23											
	24											
	25			-								
	26											
	27											
4							· · · · ·				· ·	•
WBS/	CES Met	hodology (Yearly Phasing /										
· · · · · ·	eco/(met	housing//rearly maxing/										
Ready												NUM

Save a back-up copy of your 7.5 file before converting to 8.0



ACEIT 8.0 Release Summary

- ACE modernization is the focus of ACEIT 8.0
- <u>CO\$TAT</u> includes some added statistical analysis measures
- <u>POST</u> updated for compatibility with new .acex sessions
 - **JACS** includes some calculation engine improvements



ACDB removed from ACEIT:

Independent new web ACDB available to government users in JIAT

This presentation primarily focuses on ACE Consult the ACEIT 8.0 release notes for full details



ACE 8.0 Complete Rebuild

- New platform: Opened up the potential to implement features not available in the old platform
- New environment: Upgraded the User interface and calculation engine User interface - a mix of Visual Basic and C# using the .NET 4.5 framework Engine - written in Visual C++ 2017
- Complete interface rebuild: Coded all new interface
- Engine: reusing calculation engine code to ensure the results stay the same
- Redesign: Offered the opportunity to relook at features and assess potential new directions



Opening ACE 8.0

attr("aria-expanded",!1),
("fade"),b.parent(".dropdon
d.find("> .active"),h=e&&
f).emulateTransitionEnd
f=function(){return a.fn.t
f=0.on("click.bs.tab.data

We reorganized the workspace to better meet the challenges of our users



New Workspace Builds off Familiar Elements

▲ ACE 7.5

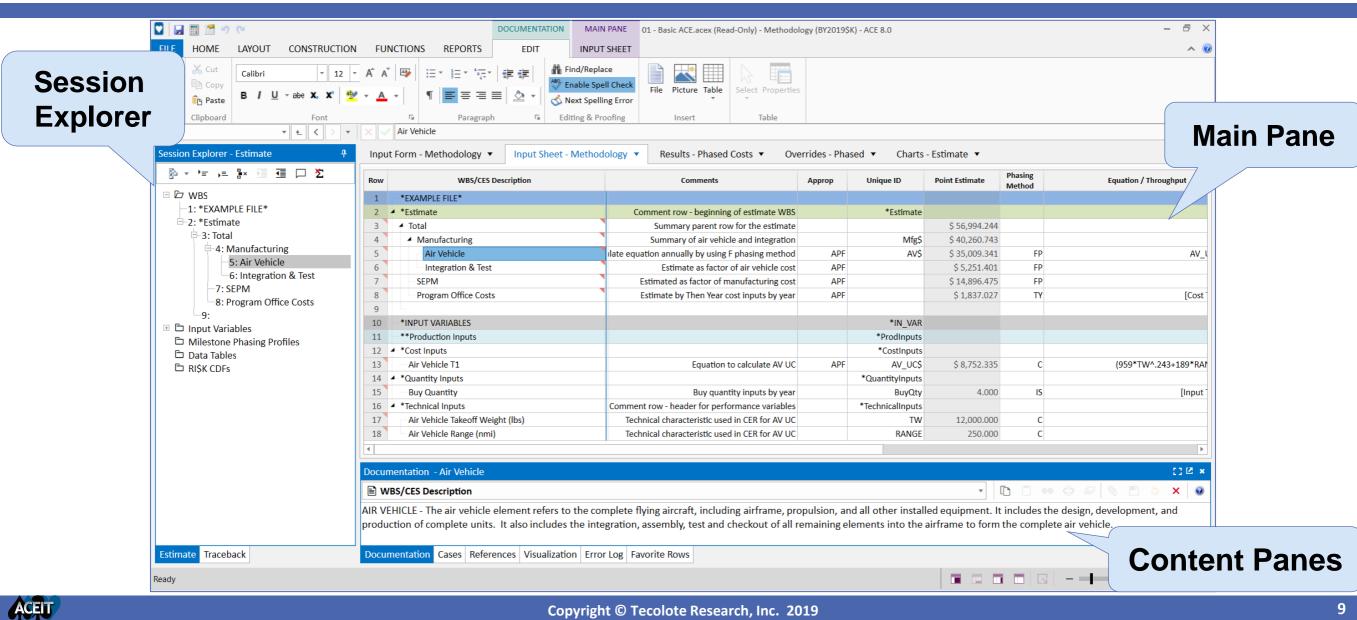
CACE 8.0

	ome	View Construction Functions Results	*	CE 7.5 - [()1 - Basic ACE.a	ces (Read-Only) - I	lethodology	(BY2016\$K)]					
1	Сору *	Painter - $\mathbf{B} \stackrel{\mathbf{I}}{=} \underbrace{\mathbf{U}} \stackrel{\mathbf{f}_{00}}{\stackrel{\mathbf{O}}{=}} \underbrace{\mathbf{O}}_{\mathbf{I}} \cdot \underbrace{\mathbf{A}}_{\mathbf{I}} - Font$	Traceback Navigator	Next Previous	Workscreen Inpu	ts/Results Input All Form	* ☐ Indent * ☐ Unindent N Columns	Generation Section Se					
	- 00				1.4.0								
1 - Ba	sic A	(BY2016\$K)											
3	-	WBS/CES Description	Comments (*) Example File Comments	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year		Summary Result Type	Start Date	Finish Date
	1	** EXAMPLE FILE **	View line-by-line comments about the session in this column or click Documentation > Introduction from the Construction tab to view detailed information										
	2	*Estimate	Comment row - beginning of estimate WBS		*Estimate								
	3	Total	Summary parent row for the estimate			\$ 56,030.505 *							
]	4	Manufacturing	Summary of air vehicle and integration		MfgS	\$ 39,554.236 *							
	5	Air Vehicle	Calculate equation annually by using F phasing	APF		\$ 34,394.988 *	F	AV_UC\$ * BuyQty					
	6	Integration & Test SEPM	Estimate as factor of air vehicle cost Estimated as factor of manufacturing cost	APF		\$ 5,159.248 * \$ 14.635.067 *	F	0.15 * AVS 0.37 * MitoS					
	8	Program Office Costs	Estimate by Then Year cost inputs by year	APF		\$ 1,841,202 *	TY	[Cost Throughput]		SK			
	9							[1				
	10	*INPUT VARIABLES	Comment row - beginning of input variables section		"IN_VAR					-			
		**Production Inputs			*ProdInputs								
		Air Vehicle T1	Equation to calculate AV UC	APF		\$ 8,598.747 *	C	(959 * TW * .243 + 189 * RANGE * .652) / 2		SK			
		Buy Quantity	Buy quantity inputs by year		BuyQty	4 *	IS	[Input Throughput]	1				
	14	*Technical/Performance Characteristics	Comment row - header for performance variables										
		Air Vehicle Takeoff Weight (lbs)	Technical characteristic used in CER for AV UC		TW	12000.00 *	с	12000					
		Air Vehicle Range (nmi)	Technical characteristic used in CER for AV UC		RANGE	250.00 *	c	250					
	17 18	en senere cange (min)	recimical characteristic used in CER ID AV OC		RANGE	250.00	C	230	-				
	10												
	20												
	21												
	22												
	23												
	24												
	25												
	26												
	27												
													Þ
CES	Metho	odology (Yearly Phasing /											

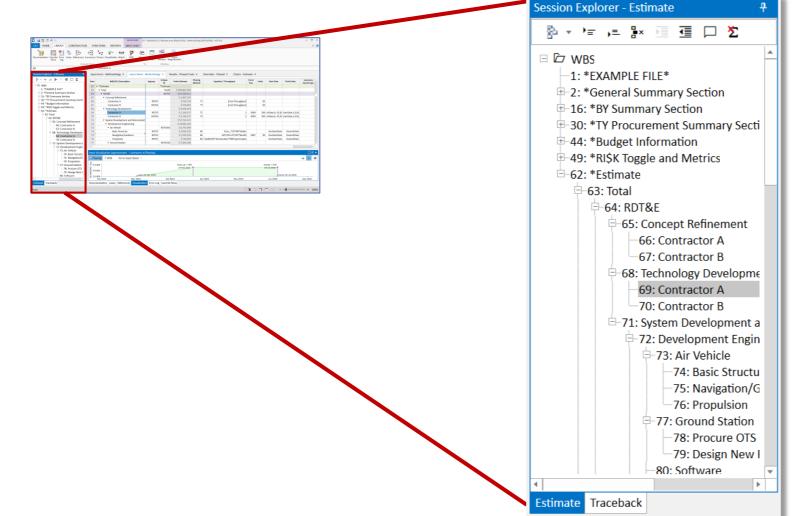
	i *	5 6	MAIN PANE 01 - Basic ACE.a	cex (Read-Only	y) - Methodology (BY	2019\$K) - ACE 8.0					- 8 >
FILE	HOM	E LAYOUT CONSTRUCTION FUNCTIONS	S REPORTS INPUT SHEET								~ (
Paste	Clipbo	v ************************************	Rows 20 Find	nique ID \$,		Unindent 躗 Toggle Fill - 🕌 Colum onstruction					
ğ 🕞	Input Row	Form - Methodology Input Sheet - Method WBS/CES Description	Comments	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	Start Date
5	1	*EXAMPLE FILE*									
essi	2 4	*Estimate	Comment row - beginning of estimate WBS		*Estimate						
м.	3	▲ Total	Summary parent row for the estimate			\$ 56,994.244					
_	4	 Manufacturing 	Summary of air vehicle and integration		Mfg\$	\$ 40,260.743					
	5	Air Vehicle	late equation annually by using F phasing method	APF	AV\$	\$ 35,009.341	FP	AV_UC\$*BuyQty			
	6	Integration & Test	Estimate as factor of air vehicle cost	APF		\$ 5,251.401	FP	0.15*AV\$			
	7	SEPM	Estimated as factor of manufacturing cost	APF		\$ 14,896.475	FP	0.37*Mfg\$			
	8	Program Office Costs	Estimate by Then Year cost inputs by year	APF		\$ 1,837.027	TY	[Cost Throughput]		\$K	
	9										
	10	*INPUT VARIABLES			*IN_VAR						
	11	**Production Inputs			*ProdInputs						
	12 4	*Cost Inputs			*CostInputs						
	13	Air Vehicle T1	Equation to calculate AV UC	APF	AV_UC\$	\$ 8,752.335	С	(959*TW^.243+189*RANGE^.652)/2	2015	\$K	
	14	*Quantity Inputs			*QuantityInputs						
	15	Buy Quantity	Buy quantity inputs by year		BuyQty	4.000	IS	[Input Throughput]			
	16	*Technical Inputs	Comment row - header for performance variables		*TechnicalInputs						
	17	Air Vehicle Takeoff Weight (lbs)	Technical characteristic used in CER for AV UC		TW	12,000.000	С	12000			
	18	Air Vehicle Range (nmi)	Technical characteristic used in CER for AV UC		RANGE	250.000	C	250			



8.0 Workspace Improves How you "See" the Model



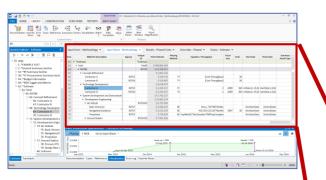
Session Explorer: Improves Model Navigation



Use the Session Explorer to navigate the model

- Estimate mode
 - View session WBS tree
 - Organize input variables
 - See elements previously hidden: Milestone Profiles and Custom CDFs
 - Build new data tables
- Traceback mode
 - Replaces Traceback Navigator

Main Pane: Gives Easy Access to Inputs and Results



Main Pane tabs

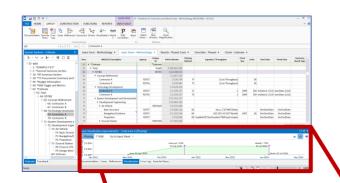
- Input Forms
- Input Sheets
- Results
- Overrides
- Charts

Combines the functionality of the: ACE Workscreens, Input All Form, Input/Results View and Chart dialog in one flat interface

Row	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units	Start Date	Finish Date	Summary A Result Type
62	 *Estimate 		*Estimate								
63	▲-Total		Total\$	\$ 909,863.284							
64	RDT&E		RDTE\$	\$ 63,508.912							
65	 Concept Refinement 			\$ 1,067.220							
66	- Contractor A	RDTEF		\$ 536.734	TY	[Cost Throughput]		\$K			
67	Contractor B	RDTEA		\$ 530.487	TY	[Cost Throughput]		\$K			
68	 Technology Development 			\$ 4,678.474							
69	Contractor A	RDTEF		\$ 2,339.237	TC	2	2009	\$M	artDate,0,-15,0)	StartDate,1,0,0)	
70	Contractor B	RDTEA		\$ 2,339.237	TS	2	2009	\$M	artDate,0,-15,0)	StartDate,1,0,0)	
71	 System Development and Demonstrati 			\$ 57,763.217							
72	 Development Engineering 			\$ 19,681.254							
73	 Air Vehicle 		RDTEAV\$	\$ 6,755.589							
74	-Basic Structure	RDTEF		\$ 4,506.110	BE	Struc_T1\$*NRT1Ratio			DevStartDate	DevEndDate	
75	Navigation/Guidance	RDTEF		\$ 1,532.524	BE	425.555+25.555*NavWt	1997	\$K	DevStartDate	DevEndDate	
76	Propulsion	RDTEF		\$ 716.954	BE	<pre>'ropMnth\$*DevDuration*NRPropComplex</pre>			DevStartDate	DevEndDate	
77	 Ground Station 		RDTEGS\$	\$ 7,503.106							

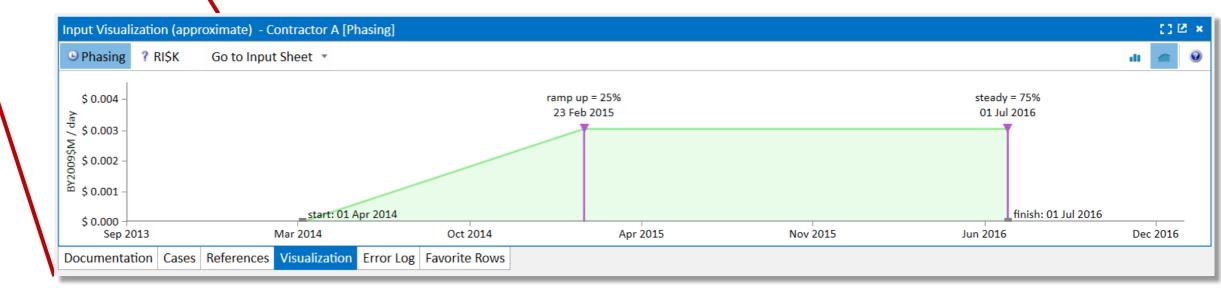


Content Panes: Provide Model Detail Visibility



Content panes add insight to the workspace

 Thirteen views covering documentation, visualization, cases, error log, reference rows, driver rows and more





- New Model Builders may be new to cost analysis, new to ACE or both
- ACE helps analysts learn sound practices and ensures methods are applied properly



Get Started Quickly with New Session Screen

 $\left(\epsilon \right)$

Info
 New

🐸 Open

4

Dotions

Help

🔀 Exit

Session Settings

- Enter all estimate information and inflation specifications in one location
- Includes Mil Std 881-D templates
- Tailor WBS indenture prior to creating the session

	ACE 8.0				- 0
	ALE D.U		-	- U	
	Session Settings				
New	Jession Jettings				
	Estimate Information				
Initial WBS					
	Program Name: My Program				
Custom WBS	Base Year: 2019				
Aircraft System WBS (881D)	Units: Thousands • Currency: \$ •				
AIRCRAFT SYSTEM WBS (ESH)	First Year: 2019 1 Last Year: 2029				
Army CES Aircraft (881D)	Default Case: Point Estimate				
Army CES AIS Army CES Electronic/Generic (881D)	Politi Estimate				
Army CES Ground Vehicle (881D)	Monthly				
Army CES Missile/Ordnance (881D)	Has Monthly Inputs:				
Army CES Space (881D)					
Army CES Strategic Missile (881D)	System Inflation Table				
ASC SMALL MISSILE/MUNITION SYSTEM					
ASC/RW EW SYSTEMS	Name: US Government Indices for FY 2018 *				
ASC/SM AERONAUTICAL SYSTEMS	As of Date: 14May2018 Year Type: Fiscal Start Month: October				
BMDO LIFE CYCLE CBS	Appropriation Type Codes * e.g., 3010				
DHS IT LCC WBS					
DHS Security System WBS	Enter WBS				
ELECTRONIC/AUTO S/W SYS WBS (ESH) Electronic/Generic System WBS (881D)					
ENVIRONMENTAL WBS	WBS/CES Description WBS Indent Level Fill Indent Levels Row WBS/CES Description WBS Indent Level				
ESC ELECTRONIC SYSTEMS	1 *Estimate 0 Validate				
FAA LIFE CYCLE COSTS	Validate				
FAA Standard WBS version 5.1					
FAA Standard WBS Version 5.2					
FAA1810 WBS					
Create					



Create Estimates with Guidance from Input Forms

Use guidance on input forms to select from four methodology types

- Periodic
- Time phased inputs
- Spread total
- Learning Curves

Input Form - Method	ology 🔻 Input Shee	et - Methodology 🔻	Results - Phased C	osts Overrides - Phas	ed Charts - I	RI\$K 🔻
Title: New Row	V CES#:	WBS#:	PE Value:	o to)	$ \land $
Perio (Yearly/M Calcula or Const	onthly) tion	Time Phased (Yearly/Monthly Inputs	()	Spread Total over Time Calculation		Learning Curve Calculation
Specify an Equation calculated periodically (cost, non-cost)	or a Constant value	ecify time phased cost (BY, non-cost values.	s	cify total value/equation, and h pread it over time using Beta cu bull, Rayleigh, Trapezoid, Perce or Milestone phasing profile.	ntages	ify cost improvement curve ers to calculate learning curve.



Create Equations and Variables on-the-fly

- Specify the estimating method and enter variables from one location
 - Define new variables
 - Select the variable type
 - Specify a location to store the variable

Input Form - M	Input Sheet - Methodology Results - Phased Costs Char	s - Estimate Verrides - Phased		
Title: Ne Unique ID:	ew Row CES#: WBS#:	PE Value:		$\land \land$
Periodic	Equation/Value 100 Start Date: DevStartDate	「「」 Finish Date:		fx fx
Constant	Appro Cost Variable Cost Variable Status: Cor Phased Quantity Variable Total Quantity Variable Fotal Quantity Variable	ID - Add new varia	able: Dev	
	Calculat Date Variable Calculate: Duration Variable Technical Variable Factor Variable Calculate: Duration Variable Calc	Cost Variable Phased Quantity Var	riable ≯	
	Choice Variable > General Variable >	Total Quantity Varia	ble ⊦	
		Date Variable	×	New Section (*Milestone Dates)
		Duration Variable	•	Other Sections
		Technical Variable	•	
		Factor Variable	•	
		Choice Variable	•	
		General Variable	•	



Model Basic Elements from Relevant Data

View the equation and all variables in one view

- Session Explorer: shows
 the WBS row
- Input Form: shows the equation and phasing

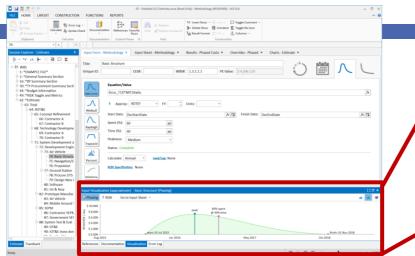
ACEIT

 References Pane: shows all the variables used in the row's calculation

Documentation Favorite Error Rows Log	ssors Drivers Visualization Watch RISK More 1 Correlation * Select New 2 Panes * Window Mag	Poom	- C × ^ @
Content Pa	nes 5 Window		
74 • £ < > • ×			
Session Explorer - Estimate	nput Form - Methodology Input Sheet - Methodology Ret	ults - Phased Costs 🔻 Overrides - Phased 👻 Charts - Estimate 💌	
- 🗁 WBS	itle: Basic Structure	*** > 0-0	
	Inique ID: CES#: WBS#: 1	3.1.1.1 PE Value: \$ 4,506.110	
B-16: *BY Summary Section	The second se		
B-30: *TY Procurement Summary Secti	Equation/Value		
 ⊕-44: *Budget Information ⊕-49: *RI\$K Toggle and Metrics 	Beta Curve Struc_T1\$*NRT1Ratio		fx
⊡-62: *Estimate			
⊟-63: Total	Approp: RDTEF - FY: 1 Un	ts: v	
⊟-64: RDT&E	Weibull		
G-65: Concept Refinement	Start Date: DevStartDate	fx 🛱 Finish Date: DevEndDate	fx 🖬
-67: Contractor B	Spent (%): 60 ID		
Geration = 68: Technology Developmε	Rayleigh		
-69: Contractor A	Time (%): 40 ID		
-70: Contractor B	Peakness: Medium v		
⊡-71: System Development a	Trapezoid Statuce Complete		
-73: Air Vehicle	Status: Complete		
74: Basic Structu	Calculate: Annual		
-75: Navigation/G	Percent		
-76: Propulsion	RI\$K Specification: None		
-78: Procure OTS			
-79: Design New I	Milestone		
-80: Software			
-81: Int & Assy	ferences - Rows used by Basic Structure		() 🖻 🗙
-82: Prototype Manufac -83: Air Vehicle	🕈 📖 🔶 S _{.00} III 🗸 🗸	Show 0	Column References 🛛 🥹
-84: Mobile Ground 4	w WBS/CES Description	Approp Unique ID Equation/Value Result Fiscal Units	Used In
⊟-85: SEPM		Year	
BO. CONTRACTOR SET IN	199 Basic Structure T1 223 Ratio of Nonrecurring Costs to T1 for Structure		quation / Throughput quation / Throughput
or covernier set	171 Development Start Date		tart Date
	173 Development End Date		inish Date
-90: IOT&E (now don			
4 P			
	eferences Documentation Visualization Error Log		

17

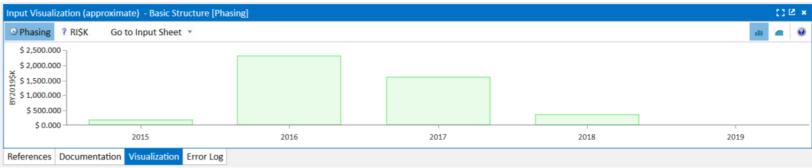
Better Understand Phasing and RI\$K Inputs

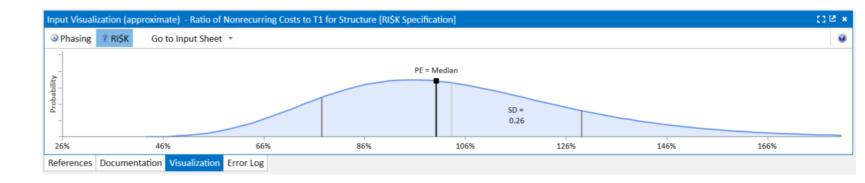


Improve your input understanding with data visualizations

- View the shape of the phasing and uncertainty
- Explore phasing adjustments by selecting and dragging parameters

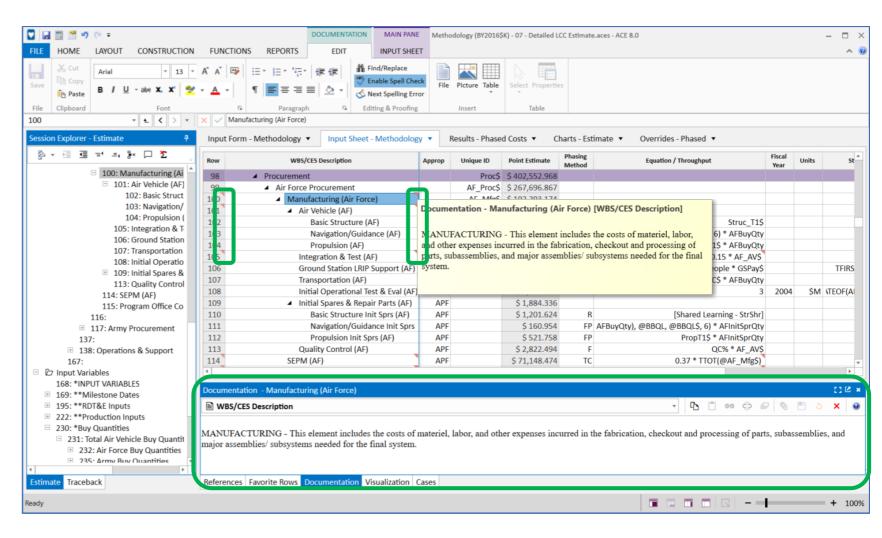






Store Documentation within your Estimate Files

- Enter documentation for any cell
- View Cell
 Documentation in the
 Content Pane





Quickly Create Cases and See Model Results

Base Year Point Estimate Results Type Calculate Calculate 64	MAIN PANE 07 - Detailed LCC Estimate.accs - Results (B CTIONS REPORTS RESULTS Defined At <level 2="" elements="" wbs=""> ☐ From 2011 Phasing Profile Prorate ☐ To 2033 Ions PE Percent Adj. ④ % ☐ Include Prior / To Con RIŞK Allocation Options</level>	Select Months column columns	 Create what-if cases Specify case overrides
Session Explorer - Estimate 4	Input Form - Methodology Input Sheet - Methodology Row WBS/CES Description A *Estimate A * Total Contractor A Concept Refinement Contractor A Contractor B C	FY 2011 FY 2011 FY 2012 FY 2013 FY 2015 FY 2016 FY 2017 <	• View phased results
-72: System Development and Demc -73: Development Engineering -74: Air Vehicle -75: Basic Structure -76: Navigation/Guidance -77: Propulsion -79: Procure OTS Parts 80: Design New Parts 81: Software 82: Int & Assy -83: Prototype Manufacturing -84: Air Vehicle -85: Mobile Ground Station -86: SEPM -87: Contactor SEPM -89: System Test & Eval -90: DT&E -91: IOT&E (now done with Lf -92: Test Facilities -93: Industrial Facilities	70 Contractor A 71 Contractor B 72 4 System Development and Demonstration 73 4 Development Engineering 74 4 Air Vehicle 75 Basic Structure 76 Navigation/Guidance 77 Propulsion 78 4 Ground Station 79 Procure OTS Parts 80 Design New Parts 81 Software 82 Int & Assy 83 4 Prototype Manufacturing 84 Air Vehicle 85 Mobile Ground Station 86 - SEPM	\$ 2,355 259 \$ 181954 \$ 1,193.140 \$ 980.166 Image: Constraint of the second seco	ology Input Sheet - Methodology Results - Phased Costs Charts - Estimate Comparative RISK Analysis RDT&E Procurement Operations & Support
94: Construct/Convers/Expar 95: Equip ACQ/Modern (Gov 96: Other Government Costs 97: 98: Procurement 99: Air Force Procurement 99: Air Force Procurement 90: Manufacturing (Air Force) Estimate Traceback	Case Name Compare Time Last Calculation Point Estimate 3/21/2019 5:3 Higher Uncertainty 3/21/2019 5:3 Lower Propulsion Cost Scenario 3/21/2019 5:3 New 3010 Budget and AF Buy Quantities 3/21/2019 5:3 Propulsion and OM Mods 5 Propulsion, Ground Station and OM Mods 5 References Favorite Rows Documentation Visualization Cases Error	Ilated Description Overridden Row 2:16 PM 0 Increased uncertainty on Production inputs 4 Override propulsion unit cost with lower cost. 4 Override 3010 Budget row to slip money to later 3 Overrides to NREC complexity factor and Propuls 8 Overrides to NREC complexity factor and Propuls 11	+ 100%

ACEIT

ACE 8.0 Helps Experienced Users

- Experienced Model Builders have built estimates with ACE
- Experienced users utilize ACE to produce quality estimates and to be more productive



Configurable Workspace

Tailor Workspace to your needs: Arrange panes on multiple monitors



Open multiple instances of ACE to easily compare model results



Enhanced User Experience

New capabilities promote efficiency

- Drag and drop rows
 between panes
- Use Equation Auto-Complete within the Input Sheet
- View information in Input Sheet and References simultaneously
- Arrange Panes and Zoom
- Right-click menus

ACEIT

FILE HOME LAYOUT CONSTRUCTION	ELING	MAIN PANE 07 -	Detailed LCC	Estimate.ac	ex (Read-Only) -	Methodology (B	Y2019\$K) - ACE 8.0					- 🗆 ×
ALC HOME LARON CONSTRUCTION Image: Second state Image: Second state Default Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image: Second state Image:	, s., .00 ≣	Arrange Sheet	odology WBS Sheets	CES Yearly Phasin	Spread Learn	Basic *	a B× Delete Rows			•		
78 * Ł < > *	× ✓	GSUC\$*GndStatQty										fx
Session Explorer - Estimate 7	Input (Form - RI\$K Input Sheet - Methodol		Poculto Di	nased Costs 🔻	Overrider	- Phased Charts - Estimate					
	Row	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal	Units	Start Date	Finish Date	Summary *
-2: *General Summary Section	74	Basic Structure	RDTEF	ID	\$ 4,506.		Struc T1\$*NRT1Ratio	Year		DevStartDate	DevEndDate	Result Type
E-16: *BY Summary Section	75	Navigation/Guidance	RDTEF		\$ 1,532.		425.555+25.555*NavWt	1997	ŚK	DevStartDate	DevEndDate	
B-30: *TY Procurement Summary Secti	76	Propulsion	RDTEF		\$ 716.		ropMnth\$*DevDuration*NRPropComplex	1557	ψı,	DevStartDate		
⊕-44: *Budget Information	77	Ground Station	norter	RDTEGS\$	\$ 7,503.		replandiç bevbaladını martopeonipiex			Devolution	Devenubute	
	78		RDTEF	NDTE039	\$ 976.		GSUC\$*GndStatQty fx			+D-+- 0.0 120)	StartDate 0.20)	
⊡-62: *Estimate		Procure OTS Parts									StartDate,0,30)	
₽-63: Total	79	Design New Parts	RDTEF	DOTECHUĆ	\$ 6,526.		Row 209 (\$ 488.10	8}			StartDate,0,30)	
-64: RDT&E	80	Software		RDTESW\$	\$ 3,283.		Ground Station Un				SWDevEndDate	
-65: Concept Refinement	81	Int & Assy	RDTEF		\$ 2,138.		.15*(TTot(@RDTEAV\$)	_	L	DevEndDate,-1)	DevEndDate	
-66: Contractor A	82	 Prototype Manufacturing 			\$ 3,334.							
-67: Contractor B	83	Air Vehicle	RDTEF		\$ 2,971.		1.5*AV_T1\$			ProtoStartDate		
68: Technology Developme	84	Mobile Ground Station	RDTEA		\$ 363.		1.75*TGS_T1\$			ProtoStartDate	ProtoEndDate	
-69: Contractor A	85	▲ SEPM			\$ 21.							
-70: Contractor B	86	Contractor SEPM	RDTEF		\$ 10.		ContLab\$*ContStaffQty			DevStartDate	DevEndDate	
□-71: System Development a	87	Government SEPM	RDTEF		\$ 11.		GovtLab\$*GovtStaffQty		3	tartDate,0,-21)	DevEndDate	
B-72: Development Engin	88	 System Test & Eval 			\$ 16,047.							
□-73: Air Vehicle	89	DT&E	RDTEF		\$ 9,282.		8000	2010	\$K			
-74: Basic Structu	90	IOT&E (now done with LRIP article	RDTEF		\$ 6,416.		Fact*(TTot(@RDTEAV\$)+TTot(@RDTEGS\$))					
-75: Navigation/G	91	Test Facilities	RDTEF		\$ 348.		[Cost Throughput]	2010				
-76: Propulsion	92	Training	RDTEF		\$ 2,120.		2000	2016	\$K	DevStartDate	DevEndDate	
⊡-77: Ground Station	93	 Industrial Facilities 			\$ 15,084.							
-78: Procure OTS	94	Construct/Convers/Expans		DTEConst\$	\$ 11,603.		10000	2010	\$K	DevStartDate	DevEndDate	
-79: Design New I	95	Equip ACQ/Modern (Govt Owned,	RDTEF		\$ 3,481.		.3*RDTEConst\$					
-80: Software	96	Other Government Costs	RDTEF		\$ 1,473.	441 TY	[Cost Throughput]		\$K			
-81: Int & Assy	4											Þ.
□-82: Prototype Manufac -83: Air Vehicle												
-84: Mobile Ground !	Referen	ces - Rows used by Procure OTS Parts										()@ ×
E-85: SEPM	2 🗉	→ ^S .' ID₂ +									Show Column Re	ferences 🧕
-86: Contractor SEPN	Row	une lere part it.								Fiscal Un		
-87: Government SEF	ROW	WBS/CES Description			Approp	Unique ID	Equation/Value		Result	Year	its Use	ain
⊟-88: System Test & Eval		Ground Station Unit Cost			RDTEF	GSUC\$	4	50	\$488.10	8 2014	\$K Equation /	
-89: DT&E		Number of Ground Stations				GndStatQty		2		2		Throughput
-90: IOT&E (now don	171	Development Start Date			1	evStartDate	01Jul20	15	01JUL201	5	Start Date	
91: Test Facilities												
92: Training			_								Zo	om
Estimate Traceback	Referen	ces Documentation Visualization Error	Log									
THE PROPERTY	and the rest of the		0				Deves					
Ready				A	rrar	ıge	Panes 🧕			- @		+ 100%



More Built in Phasing Methods

- Weibull and Rayleigh Phasing methods added to 8.0
 - Weibull: shape and % Spent at Finish
 - Rayleigh: % Spent at Finish

0 🔄 📰 🖉 🤊 🗠	07 - Detailed LCC Estimate.acex - Methodology (BY20195K) - ACE 8.0	- 🗆 ×
FILE HOME LAYOUT CONSTRUCTION FUNCTI	IONS REPORTS	<u>∧</u> ∅
Paste Gopy V Format Painter • Calculate fg Syntax Check Docum	Image: Section 1 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section 2 Image: Section	
74 • t < > • × ✓ 1.	3.1.1	
Session Explorer - Estimate 4	Input Form - Methodology 🔻 Input Sheet - Methodology 🔻 Results - Phased Costs 🔻 Charts - Estimate 🔻 Overrides - RI\$K 💌	
※ · · · · · · · · · · · · · · · · · · ·		
	Title: Basic Structure	
-56: Total Estimate at Probability Level	Unique ID: CES#: WBS#: 1.3.1.1.1 PE Value: \$4,466.480 (50%)	
-57: Procurement Estimate at Probability Leve] - , _
60: Delta between Procurement Budget and	C Equation/Value	
-61:		
B-62: *Estimate	Beta Curve Struc_T1S*NRT1Ratio	fx
E 63: Total		
⊟-64: RDT&E	Approp: RDTEF FY: Units:	
⊖-65: Concept Refinement —66: Contractor A		
67: Contractor B	Start Date: DevStartDate / Finish Date: DevEndDate	fx 🛱
=-68: Technology Development	Bayleich Shape: 1 ID	
69: Contractor A	kayleign	
-70: Contractor B	% Spent at Finish: 90 fx	
□ 71: System Development and Demons	Status: Complete	
-72: Development Engineering	Trapezoid Sardas Comprese	
74: Basic Structure	Calculate: Annual • Lead/Lag: None	
75: Navigation/Guidance		
76: Propulsion	Percent RISK Specification: None	
⊟-77: Ground Station		
-78: Procure OTS Parts -79: Design New Parts		
-80: Software	Milestone	
-81: Int & Assy		
B-82: Prototype Manufacturing		
83: Air Vehicle	Input Visualization (approximate) - Basic Structure [Phasing]	[]@ ×
84: Mobile Ground Station	O Phasing ? RISK Go to Input Sheet *	di a Q
B: SEPM		
87: Government SEPM	\$14.000 - \$12.000 -	
e−88: System Test & Eval	\$ \$10.000 -	
-89: DT&E	× \$8.000 -	
-90: IOT&E (now done with LRIP	9 5 6000-	
91: Test Facilities	5 4.000 - 5 2.000 -	
92: Training	\$ 0.000	01 Nov 2018
• • • • • • • • • • • • • • • • • • •	Aug 2014 Jan 2015 May 2017 Oct 2018	
Estimate Traceback	Visualization Error Log Watch 1 Watch 2 Watch 3 References Case Documentation Successors	

View Phasing with Input Visualization

Add Custom Columns to the Session

Supports more complex estimating scenarios

- Additional calculation columns
- Specify text to categorize session rows then sum/filter results
- Store data from Plugins
- Create additional comment columns

ACEIT

** Insert Rows -
Inform Comments Approp Unique ID Point Estimate Phasing Method Equation / Throughput A J Custom Column Total\$ \$ 902,561.337 F
Inform Comments Approp Unique ID Point Estimate Phasing Method Equation / Throughput A J Custom Column Total\$ \$ 902,561.337 F
Non-cost Column holds cost data and/or equations Custom Column holds cost data and/or equations © Text - Column holds dates of the form DDMMMYYYY © Text - Column holds dates of the form DDMMMYYYY © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that can be used for filtering © Text - Column holds cost that is not evaluated
A d Custom Column RDTES \$ 60,672.479 Column Title: Contract \$ 1,058.240 Column Title: Contract \$ 533.150 TY [Cost Throu Unique ID: Contr \$ 2,355.259 TC Column Description: Specify Contractor \$ 2,355.259 TC Tag: CTR \$ 1,7,326.751 Custom Column holds non-cost data and/or equations \$ 3,74,373 BE PropMnth\$* DevDuration* NRPropC Te XS \$ 7,04,373 BE PropMnth\$* DevDuration* NRPropC TE XS \$ 7,986.468 GSUC\$* GM Te XS \$ 965.726 BE GSUC\$* GM Date Column holds cast data ond/or equations CSUC\$* Struc_T12 BE 4500 * GSC Te XS \$ 965.726 BE GSUC\$* GM Custom Column holds cast data ond/or equations \$ 704.373 BE PropMnth\$* DevDuration* NRPropC Te XS \$ 7,986.468 GSUC\$* GM GSUC\$* GM Date Column holds cast of the form DDMMMYYYY E GSUC\$* SYMAMMonths* SWCAS Generation Column holds comparets and text that is not evaluated Fe WS \$
A J Custom Column (2) \$ 1,058.240 Column Title: Contract \$ 531.150 TV Unique ID: Contr \$ 527.090 TV [Cost Throu Column Description: Specify Contractor \$ 2,355.259 TC Column Description: Specify Contractor \$ 2,355.259 TC Tag: CTR \$ 17,326.751
S 1,058,240 Column Title: Contract Column Title: Contract Column Description: Specify Contractor Specify Contractor \$ 2,355,259 Column Type: S 17,326,751 Custom Column Nolds non-cost data and/or equations \$ 1,534,036 Otom holds cost data and/or equations \$ 1,534,036 Tet VS \$ 6,665,445 Custom Column holds cost data and/or equations \$ 1,534,036 Date - Column holds text that can be used for filtering \$ 965,726 Date - Column holds dates of the form DDMMMYYYY \$ 5,470,051 Mission - Cost Math and the specified of the specifie
Column Title: Contract \$ \$27.090 TY [Cost Throut] Unique ID: Contr \$ \$ 4,710.518 (S \$ 2,355.259 TC Column Description: Specify Contractor \$ 2,355.259 TC (S \$ 2,355.259 TS Column Type: CTR \$ \$ 17,326.751 (S \$ 4,427.036 BE Struc_T1\$ * NR Non-cost - Column holds non-cost data and/or equations \$ \$ 4,427.036 BE Struc_T1\$ * NR Cost - Column holds cost data and/or equations \$ \$ 7,986.468 (S \$ 2,955.266 (S \$ 2,055.266 Te VS \$ \$ 6,665.445 (S \$ \$ 7,986.468 (S \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Unique ID: Contr 3 327,030 11 (Lost Inflot Unique ID: Contr \$ 4,710.518 (Distribution) Column Description: Specify Contractor \$ 2,355.259 TC Tag: CTR \$ 54,903.721 (Distribution) Custom Column Nype: \$ 56,665.445 (Distribution) Non-cost - Column holds non-cost data and/or equations \$ 17,326.751 (Distribution) © Text - Column holds cost data and/or equations \$ 7,986.468 (Distribution) © Text - Column holds text that can be used for filtering \$ 965.726 BE GSUC\$\$ Gisus + SWLab\$\$ SWLab\$\$ SWLab\$\$ SWLab\$\$ SWLab\$\$ SWLab\$\$ SWLab\$ SWL
Unique ID: Contr Specify Contractor TC Column Description: Specify Contractor \$ \$ 2,355.259 TC Tag: CTR \$ \$ 1,326.751 \$ \$ 4,27.036 BE Custom Column holds non-cost data and/or equations \$ \$ 1,326.751 \$ \$ \$ 4,427.036 BE \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Column Description: Specify Contractor \$ 2,355.259 TC Column Description: Specify Contractor \$ 2,355.259 TS Tag: CTR \$ 17,326.751 Custom Column Type: \$ 4,427.036 BE Struc_T1\$ * NR Non-cost - Column holds non-cost data and/or equations \$ 1,534.036 BE 425.555 + 25.555 * © Text - Column holds cost data and/or equations \$ 704.373 BE PropMnth\$ * DevDuration * NRPropC TE 55\$ \$ 7,986.468 \$ 530.726 BE GSUC\$ * Gnd Column holds dates of the form DDMMMYYYY \$ 5965.726 BE GSUC\$ * Gnd Comment - Column holds cost that is not evaluated FE \$ 477.051 MS
Column bescription: specify Contractor Tag: CTR Custom Column Type: \$ 54,903,721 Non-cost - Column holds non-cost data and/or equations \$ 4,427,036 Cost - Column holds cost data and/or equations \$ 1,534,036 Text - Column holds text that can be used for filtering \$ 704,373 Date - Column holds dates of the form DDMMMYYYY \$ 5,7986,468 Comment - Column holds cost that and text that is not evaluated FE
Tag: CTR \$54,903,721 Custom Column Type: \$17,326,751 Non-cost - Column holds non-cost data and/or equations \$4,427,036 BE Otom Column holds cost data and/or equations \$1,534,036 BE \$25,555 + 25,555 +
Custom Column Type: TE VS \$ 6,665.445 Non-cost Column holds non-cost data and/or equations \$ 4,427.036 BE \$ 5truc_T1\$ * NR Cost - Column holds cost data and/or equations \$ 1,534.036 BE 425.555 * 25.55 * Cost - Column holds cost data and/or equations \$ 704.373 BE PropMnth\$ * DevDuration * NRPropC TE x5 \$ 7,986.468 Costuce \$ 5,965.726 BE GSUC\$ Government Date - Column holds dates of the form DDMMMYYYY \$ 7,020.742 BE \$ 5,940.965 \$ 5,940.965 Comment - Column holds cost data and/or equations FE \$ 4,970.7051 MS \$ SWLab\$ * \$ \$WManMonths * \$ \$ SWC
Custom Column Type: TE V\$ \$ 6,665.445 Non-cost Column holds non-cost data and/or equations \$ 4,427.036 BE \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Non-cost - Column holds non-cost data and/or equations Cost - Column holds cost data and/or equations Text - Column holds text that can be used for filtering Date - Column holds dates of the form DDMMIMYYYY Comment - Column holds cost that and comments and text that is not evaluated
Non-cost - Column holds non-cost data and/or equations Cost - Column holds cost data and/or equations Text - Column holds text that can be used for filtering Date - Column holds dates of the form DDMMMYYYY Comment - Column holds comments and text that is not evaluated
Cost - Column holds cost data and/or equations \$ 704.373 BE PropMnth\$* DevDuration * NRPropC Text - Column holds text that can be used for filtering \$ 7,986.468 \$ 965.726 BE GSUC\$* Gnd Date - Column holds dates of the form DDMMMYYYY \$ 7,020.742 BE GSUC\$* SWLab\$* SWManMonths* SWC Comment - Column holds comments and text that is not evaluated FE \$ 477.051 MS SWLab\$* SWManMonths* SWC
Column holds cost data and/or equations Text - Column holds text that can be used for filtering Date - Column holds dates of the form DDMMMYYYY Comment - Column holds comments and text that is not evaluated Te SS\$ \$ 7,986,468 Generat - Column holds comments and text that is not evaluated Te W\$ \$ 7,020,742 BE \$ SWLab\$ * \$WManMonths * \$WC
Text - Column holds text that can be used for filtering Text - Column holds dates of the form DDMMMYYYY S7,020.742 BE 4500 * GSUC\$* GNU Gomment - Column holds comments and text that is not evaluated Text \$\$477.051 MS SWLab\$* SWManMonths* SWC
Date Column holds dates of the form DDMMMYYYY \$ 7,020.742 BE 4500 * GSC Comment - Column holds comments and text that is not evaluated FE W\$ \$ 477.051 MS SWLab\$ * SWManMonths * SWC
Comment - Column holds comments and text that is not evaluated TE W\$ \$ 477.051 MS SWLab\$* SWManMonths* SWC
Inheritance Behavior: \$3,280.499
Text value only applies to rows explicitly labeled with text value (no inheritance)
Text value only applies to rows explicitly labeled with text value (no innernance)
Show in custom column results
Show Ar Caston Column Referen
OK Cancel Result Used in
\$ 60,672.479 Child
Proc\$ \$402,552.968 Child
OS\$ \$439,335.890 Child
1

Combines DECs and Category Columns

Easier Access to Advanced Model Content

- New Session Folders
 - Milestone Phasing Profiles
 - Data Tables
 - RI\$K CDFs
 - Quickly add new profiles and access them from estimating rows

Columner Columner Columner Toron Leg Columner Toron Leg	🖸 🔚 🖩 🗳 🤨 😢 07 - Detailed LCC Estimate.aces - Milestone Profile (BY2016\$K) - ACE 8.0 🗕 🗖 🗙										
Corr	FILE HOME LAYOUT CONSTRUCTION F	UNCTIONS REPORTS					^ (
SWDesign Image: Control Section Explorer - Extinute 4 Section Explorer - Extinute 4 </td <td>Paste Spy Paste Spy Format Painter - Calculate Sty Syntax Check</td> <td>Documentation References Favorite Fin</td> <td>nd 🦻 Replace Unique II</td> <td>Unindent 등× Delete Rows 5,0 Result Format</td> <td></td> <td></td> <td></td>	Paste Spy Paste Spy Format Painter - Calculate Sty Syntax Check	Documentation References Favorite Fin	nd 🦻 Replace Unique II	Unindent 등× Delete Rows 5,0 Result Format							
Setsion Explorer - Estimate Milestone Profile 320: Intermediate Maintenance - Numi 321: Intermediate Maintenance - Numi 322: 333: Depot Maintenance - Numi 322: 333: Depot Maintenance - Number nee 326: 327: *Sustaining Support Variables 328: Software Name Aumber office 327: *Sustaining Support Variables 330: Number of Personnel Required for 331: 331: 332: *Continuing System Improvement 333: Horivare Ode Review 334: Software Mod Percentage 335: Years of HW Maint 335: Years of HW Maint 336: Years of SW Maint 337: Years of SW Maint 338: Years of HW Maint 337: Years of SW Maint 338: Years of HW Maint 337: Years of SW Maint 338: Years of YW Maint 338: Years of YW Maint 337: Years of SW Maint 338: Years of YW Maint 337: Years of SW Maint 338: Years of YW Maint 337: Years of SW Maint 337: Years of YW Maint 337: Years of SW Maint 337: Years of SW Maint 337: Years of SW Maint 337: Years of SW Maint 337: Y											
Constrained and the second and	SWDesign + Ł Ł Ż Ż ł X	WDesign * L < > * X									
- 200: Intermediate Maintenance - Numi - 320: Intermediate Maintenance - Numi - 321: Intermediate Maintenance - Numi - 322: Septot Maintenance - Number off - 322: Depot Maintenance - Number off - 322: Depot Maintenance - Number off - 322: Software Maintenance - Number off - 322: Software Maintenance - Recentage - 322: Software Maintenance Percentage - 323: Software More Percentage - 323: Software Maintenance Percentage <	Session Explorer - Estimate	Milestone Profile									
-322: -323: Depot Maintenance - Hourse of fl -323: Depot Maintenance - Number of fl	- 320: Intermediate Maintenance - Numl A Profile ID: SWDesign Rows referencing this milestone profile: 81										
326: 327: *Sustaining Support Valables View Milectome 00 Equation 00 evelopment (%) 327: *Sustaining Support Valables 328: Software Maintenance Percentage 328: Software Mode Percentage 328: Software Mode Percentage 338: Herard Mule Milestome Phasing Profiles WOceReview Mode DATEADD[SwUCedeInspectDate DATEADD[SwUCedInspectDate DATEADD[according to the percentages specifie				ion, the estimate					
328: Software Maintenance Percentage Development End Date DevEndDate DATEADD(DevStartDate, 0, DevDuration, 0) 01 Nov 2015 320: Number of Personnel Required for 330: Number of Personnel Required for 331: Software Development Start Date SWDevStartDate DATEADD(DevStartDate, 0, 0, 90) 29 Sep 2012 331: Software Development Start Date SWDevStartDate DATEADD(SWDesignDuration) 29 Aug 2013 40 332: Software Code Review SWCodeReviewDate DATEADD(SWDesignDuration) 29 Sep 2014 85 333: Hardware Mod Percentage Software Code Review SWCodeReviewDate DATEADD(SWCodeReviewDate, 0, SWCodeDuration) 29 Nov 2014 95 Software Code Review SWCodeReviewDate DATEADD(SWCodeInspectDate, 0, 1) 29 Nov 2014 95 Software Code Review SWCodeInspectDate DATEADD(SWCodeInspectDate, 0, 1) 29 Nov 2014 95 Software Site Site Site Site Site Site Site Sit		Milestone	ID	Equation	Date	Cum Spent (%)					
328: Software Maintenance Percentage Development End Date DevEndDate DATEADD(DevStartDate, 0, 0, 90) 29 Sep 2012 330: Number of Personnel Required for 331: Software Development Start Date SWDevStartDate DATEADD(DevStartDate, 0, 0, 90) 29 Sep 2012 331: Software Development Start Date SWDevStartDate DATEADD(SWDevStartDate, 0, SWDesignDuration) 29 Aug 2013 40 331: Software Code Review SWCodeReviewDate DATEADD(SWDesignDate, 0, SWDesignDuration) 29 Sep 2014 85 Software Code Review SWCodeReviewDate DATEADD(SWDesignDate, 0, SWFinalCodeDuration) 29 Nov 2014 95 Software Code Review SWCodeReviewDate DATEADD(SWCodeInspectDate, 0, 1) 29 Dec 2014 96 331: Software Mod Percentage Software Tode Review SWCodeInspectDate DATEADD(SWCodeInspectDate, 0, 1) 29 Nov 2014 95 Software Software Maintenance Prototype Manufacturing End Date ProtostartDate DATEADD(DevStartDate, 0, 1) 29 Dec 2014 96 335: Years of HW Maint -336: Years of SW Maint -337: -338 97 01 Jan 2014 97 336: Procurement End Date ProcEndDate DATEOF(FYCFIRSTYR(@TotBuyQty) + 1) - 1		Development Start Date	DevStartDate	01JUL2012	01 Jul 2012						
329: Hardware Maintenance Percentag 330: Number of Personnel Required for 330: Number of Personnel Required for 331: 331: 332: *Continuing System Improvement Software Doel percentage SWDevStartDate DATEADD(SWDevStartDate, 0, SWDcolgnDuration) 29 Sep 2012 40 331: 332: *Continuing System Improvement 333: Hardware Mod Percentage SWCodeReviewDate DATEADD(SWDevStartDate, 0, SWCodeDuration) 29 Sep 2014 85 333: Hardware Mod Percentage 334: Software Code Inspection SWCodeInspectDate DATEADD(SWCodeReviewDate, 0, SWFinalCodeDuration) 29 Nov 2014 95 333: Years of HW Maint 336: Years of SW Maint Software Dovelopment End Date ProtoStartDate DATEADD(SWCodeReviewDate, 0, 1) 29 Dec 2014 29 2014 333: Hardware Mod Percentage 333: Software Soft SW Maint Software Dovelopment End Date ProtoStartDate DATEADD(SWCodeReviewDate, 0, 1) 29 Dec 2014 29 2014 2014 2014 2014 2014 2014 2015 2014 2015 2014 2014 201 201 2014 201 2014 201 2014 201 201 2014 201 201 201 201 201 201											
330: Number of Personnel Required for 331: Software Design Review SWDesignDate DATEADD(SWDevStartDate, 0, SWDesignDuration) 29 Aug 2013 40 331: ast: *Continuing System Improvement 332: *Continuing System Improvement 333: Hardware Mod Percentage 334: Software Mod Percentage 335: Years of HW Maint 336: Years of SW Maint 337: Software Code Inspection SWCodeInspectDate DATEADD(SWCodeReviewDate, 0, SWFinalCodeDuration) 29 Aug 2013 40 Prototype Manufacturing Start Date Software Dovelopment End Date DATEADD(SWCodeReviewDate, 0, SWFinalCodeDuration) 29 Aug 2013 40 Prototype Manufacturing Start Date WCodeInspectDate DATEADD(SWCodeReviewDate, 0, SWFinalCodeDuration) 29 Aug 2013 40 Prototype Manufacturing Start Date WCodeInspectDate DATEADD(SWCodeReviewDate, 0, SWFinalCodeDuration) 29 Aug 2013 40 Prototype Manufacturing Start Date Prototype Manufacturing Start Date Prototype Manufacturing Start Date Prototype Manufacturing End Date DevEndDate DevEndDate 01 Nov 2015 Procurement End Date ProcEndDate DATEADP(ProCHRSTYR(@TotBuyQty)) 01 Oct 2013 01 01 Milestone Phasing Profiles Software Collapse Folder Add Milestone Profile Software Collapse Folder Add Milestone Profile Soft					29 Sep 2012	2					
331: -331: -331: -332: *Continuing System Improvement 333: Hardware Mod Percentage -333: Hardware Mod Percentage -333: Software Mod Percentage -333: Software Mod Percentage -336: Software Development End Date SWDevEndDate DATEADD(SWCodeInspectDate, 0, SWFinalCodeDuration) 29 Sep 2014 95 - 335: Years of HW Maint -336: Years of SW Maint -337: -337: 01 Jan 2014 - - 337: -338: - - - - - - - 337: - - - - - - - - - 338: -											
333: Hardware Mod Percentage 333: Hardware Mod Percentage 334: Software Dovelopment End Date SWCodeInspectDate DATEADD(SWCodeRopetDate, 0, 1) 29 Nov 2014 95 333: Years of HW Maint 335: Years of SW Maint 335: Years of SW Maint 01 Jan 2014 97 337: 337: 338: Prototype Manufacturing End Date ProtoEndDate DATEADD(SWCodeInspectDate, 0, 18) 01 Jan 2014 937: 337: 938: Prototype Manufacturing End Date ProtoEndDate DATEOF(FYCFIRSTYR(@TotBuyQty)) 01 Oct 2013 938: Procurement End Date ProcEndDate DATEOF(FYCFIRSTYR(@TotBuyQty) + 1) - 1 30 Sep 2021 90 Data Tables Scollapse Folder Add Milestone Profile Add Milestone Profile 97 RDT&ES_Point_Estimate Point_Estimate TotShimate TotShimate 90 08\$\$ Point_Estimate TotShimate TotShimate 98 Point_Estimate TotShimate TotShimate TotShimate		Software Code Review	-		_						
- 334: Software Mod Percentage -334: Software Mod Percentage -335: Years of HW Maint -335: Years of HW Maint Prototype Manufacturing Start Date Prototype Manufacturing Start Date Prototype Manufacturing End Date DATEADD(DevStartDate, 0, 18) 01 Jan 2014 -337: -337: -338: OI Nov 2015 Procurement Start Date ProcEndDate DATEOF(FYCFIRSTYR@TotBuyQty)) 01 Oct 2013 -338:	· · ·	Software Code Inspection		· · · · · · · · · · · · · · · · · · ·							
335: Years of HW Maint 335: Years of HW Maint 01 Jan 2014 336: Years of SW Maint Prototype Manufacturing End Date PrototantDate DevEndDate 01 Nov 2015 337: 338: Procurement End Date ProcEndDate DATEOF(FVCFIRSTYR(@TotBuyQty)) 01 Oct 2013 D' Milestone Phasing Profiles SwDesign Sepand Folder DATEOF(TLASTTP(@TotBuyQty) + 1) - 1 30 Sep 2021 B' RIJSK CDFs Add Milestone Profile Add Milestone Profile Add Milestone Profile ForceSpring B' RISK CDFs Add Milestone Profile ForceSpring Sep 2021 ForceSpring		Software Development End Date	SWDevEndDate	DATEADD(SWCodeInspectDate, 0, 1)	29 Dec 2014						
336: Years of SW Maint Prototype Manufacturing End Date ProtoEndDate DevEndDate 01. Nov 2015 337:	-	Prototype Manufacturing Start Date	ProtoStartDate	DATEADD(DevStartDate, 0, 18)	01 Jan 2014						
-337: 338: Procurement Start Date ProcStartDate DATEOF(FYCFIRSTYR(@TotBuyQty)) 01 Oct 2013 338: Procurement End Date ProcEndDate DATEOF(TLASTTP(@TotBuyQty) + 1) - 1 30 Sep 2021 Image: SwDesign StartDate SwDesign StartDate DATEOF(TLASTTP(@TotBuyQty) + 1) - 1 30 Sep 2021 Image: SwDesign StartDate Collapse Folder StartDate StartDate StartDate Image: SwDesign StartDate Collapse Folder Add Milestone Profile StartDate StartDate Image: SwDesign StartDate Collapse Folder Add Milestone Profile StartDate StartDate Image: SwDesign StartDate StartDate StartDate StartDate StartDate Image		Prototype Manufacturing End Date	ProtoEndDate	DevEndDate	01 Nov 2015	i					
338: Procurement End Date ProcEndDate DATEOF(TLASTTP(@TotBuyQty) + 1) - 1 30 Sep 2021 Image: Comparison of the strength of the strengt of the strength of the strength of the st		Procurement Start Date	ProcStartDate	DATEOF(FYCFIRSTYR(@TotBuyQty))	01 Oct 2013						
Image: Constraint of the second se		Procurement End Date	ProcEndDate	DATEOF(TLASTTP(@TotBuyQty) + 1) - 1	30 Sep 2021						
Estimate Transback	Image: Constraint of the second state of the second sta	pse Folder					P3 (2. v				



New Data Tables

- New separate data tables
 - Three Table Types
 - FY Independent
 - FY Dependent
 - Vectors

ACEIT

- Create tables of any size without adding more rows or Fiscal Years to the session
- Reference Tables with Unique IDs and Matrix Equations

	FUNCTIONS RE	Data Ta	able (BY2016\$K)	- 07 - Detaile	d LCC Estimate.aces - ACE 8.0					-	□ × <
Action Control Contro	g * 📁 heck Documentation Fa	avorite Rows	eplace eplace Unique ID oTo Find		t == Insert Rows + ent == Delete Rows mns + □ Toggle Comment + Construction						
ession Explorer - Estimate											
💁 🕶 🗉 == == 🖹 🗢 🖓 🖕		wer Costs		Unique ID:	Man\$						
133: Navigation *	Type: FY Indep	pendent	Ŧ								
134: Propulsion 135: Quality Contro	Rows: 9			Columns:	3						
136: SEPM (Army)	✓ Is Cost Input (Cost Type: BY	- App	rop: OMA	• Units: \$K	∗ Ba	se Year: 2016				
137: ☐ 138: Operations & Support 167: ☐ Input Variables	Specify headers on t	Specify headers on the first row (right click on the header), describing the contents of each column. Enter a description for each row in the data table and fill In the values. e.g., configuration matrix, # of systems per site, etc.									,
168: *INPUT VARIABLES	WBS/CES Description	Average Basic Pay A	Annual DOD Comp	osite Rate	Annual Rate Billable to Other Fe	deral Agency					
169: **Milestone Dates	E9	65 7	5		72						
195: **RDT&E Inputs	E8	60 7			69						
222: **Production Inputs	E7	55 6			64						
230: *Buy Quantities	E6	50 6			59						
231: Total Air Vehicle Buy Quant	E5	45 5			53						
232: Air Force Buy Quantitie:	E4	40 5	0		48						
235: Army Buy Quantities	E3	35 4	5		46						
238: Army Transportable Groun 239:	E2	33 4	0		40						
 240: *Initial Spares Calculations 	E1	30 4	0		40						
 											
□ □ Milestone Phasing Profiles											
SWDesign											
□ 🗁 RI\$K CDFs	References										:⊵ ×
RDT&E\$Point_Estimate	2 🕹								Show Colum	n References	5 😧
Proc\$Point_Estimate		undere o date						ti			-
O&S\$Point_Estimate	Row WBS/CES Description		Unique	ID .	Equation		Result	Used In			
Data Tables											
Manpower Costs (Man\$)											
Estimate Traceback	References Favorite	Rows Documentat	ion Visualizat	tion Cases	Error Log						
eady									R	+	100%



Faster Results through Incremental Calculation

New calculation options can save time by calculating the session smartly

- Calculate Incremental model calculations
- Full Calculate Complete calculation of the session
- Calculate RI\$K Full Calculate with RI\$K simulation

💟 📙 📰 🗂 🤭 🍽					MAIN P	ANE	07 - Detailed LCC Est	imate.ace	ex (Read-Only) - Method	ology (BY2	MAIN PANE 07 - Detailed LCC Estimate.acex (Read-Only) - Methodology (BY2019\$K) - ACE 8.0						
FILE HOME LAY	UT	CONSTRUCTION	FUNCTIONS	REPORTS	INPUT S	HEET											
Paste Vormat Painter	Cal	culate	Documentation	Reference	s Favorite Rows	Find	Replace Replace Unique		E Insert Rows → 💽 Ind × Delete Rows 🛛 🖅 Uni 0 Result Format 💽 Fill	ndent 🎽							
Clipboard		Calculate	F9	ntent	Panes 🖙		Find		Cons	truction							
64	Calculate RI\$K Ctrl+Shift+F9																
Session Explorer - Estin	ate 🔳	Calculate CAIV		thode	ology 🔻	Inp	ut Sheet - Method	ology 🔻	Results - Phased	Costs 🔻	Charts -	Estimate 🔻 🤇	Overrides - RI\$K 🔻				
≫ v v≡ ,≞ ⊪×		Full Calculate	Ctrl+Alt+														
i⊐-63: Total	2	Select Cases	Shift+F9	`	VBS/CES De	scriptio	1		Comments		Approp	Unique ID	Point Estimate				
□ 05: 10tal		Calculate All Cases	alt+F9									*Estimate					
□-65: Co		Full Calculate All C	ases									Total\$	\$ 904,459.331 (86%)				
-66	Cor	Clear Results		E								RDTE\$	\$ 62,952.687 (13%)				
-67	Cor			icept R	efinement								\$ 1,058.427				



Manage Documentation

Image:		- □ × ~ @
Image: Copy		
Clipboard Calculate Manage Documentation Find Construction		
94 T t C T X Open Documentation Pane		
Session Explorer - Estimate 4 Documentation Review t Sheet - Methodology 🔻 Results - Phased Costs 🔻 Charts - Estimate 🔻 Overrides - Phased 🔻		
Introduction Comments Approp Unique ID Point Estimate Phasing Method	Equation /	/ Throughput
-91: APA \$70.960 F		
Phasing Method Alt+F3 Phasing Method Alt+F3 APA \$612.833 F	mentation	
93: Operating Material Reple Distribution Form Shift+F3 al (Army) APA S 6,907.088 FP		
94: Basic Structure Repler Comments s (Army) APA S 1,650.371 Reference Count	Rows	Туре

- Shows all the documentation across the session
- Replaces the Keywords workscreen
- Lists all definitions, shows associated rows, counts the number of references and provides a preview
- Add Attached Documents

1 209 User Air Vehicle AUC: Calculates the average unit cost ofe mainted 2 257,258 User Hardware/Software Mod Percentage: These constant inpm 2 259,260 User Years of HW/SW Maint: These constant inputs are usedm in 1 90 User The MatTotTot function uses the data tables ArmyLab\$of the 1 25 User The Milestone Phasing profile "SWDesign" used in thisof the 1 48 User StepVal function works similar to HLookUp in Excel. Ty yearl 1 51 User This row is calculated by multiplying the unit cost f for more 2 2,74 User This row is calculated by multiplying the unit cost f for more 2 Attachment ACEIT 101 75 CARD.docx Attachment ACEIT 101 75 CARD.docx							
2 259,260 User Years of HW/SW Maint: These constant inputs are usedm in 1 90 User The MatTotTot function uses the data tables ArmyLab\$of the 1 25 User The Milestone Phasing profile "SWDesign" used in thisof the 1 48 User StepVal function works similar to HLookUp in Excel. Ty yearl 1 51 User Ground Station LRIP Support (AF): This row uses ACE' as out 2 52,74 User This row is calculated by multiplying the unit cost f for more 1 2 Attachment ACEIT 101 75 CARD.docx 4 Image: ACEIT 101 75 CARD.docx Attachmed Attachmed	tenance costs.						
1 90 User The MatTotTot function uses the data tables ArmyLab\$of the 1 25 User The Milestone Phasing profile "SWDesign" used in thisof the 1 48 User StepVal function works similar to HLookUp in Excel. Ty yearl 1 51 User Ground Station LRIP Support (AF): This row uses ACE' as out 2 52,74 User This row is calculated by multiplying the unit cost f for more 1 2 Attachment ACEIT 101 75 CARD.docx 4 ACEIT 101 75 CARD.docx	n improvement						
1 25 User The Milestone Phasing profile "SWDesign" used in thisof the 1 48 User StepVal function works similar to HLookUp in Excel. Ty yearl 1 51 User Ground Station LRIP Support (AF): This row uses ACE' as out 2 52,74 User This row is calculated by multiplying the unit cost f for more 1 2 Attachment ACEIT 101 75 CARD.docx 4 ACEIT 101 75 CARD.docx	improvement o						
1 48 User StepVal function works similar to HLookUp in Excel. Ty yearly 1 51 User Ground Station LRIP Support (AF): This row uses ACE' as our 2 52,74 User This row is calculated by multiplying the unit cost f for more 1 2 Attachment ACEIT 101 75 CARD.docx 4 ACEIT 101 75 CARD.docx	he Session Exp						
1 51 User Ground Station LRIP Support (AF): This row uses ACE' as our 2 52,74 User This row is calculated by multiplying the unit cost f for more 1 2 Attachment ACEIT 101 75 CARD.docx	e Session Expl						
2 52,74 User This row is calculated by multiplying the unit cost f for more 1 2 Attachment ACEIT 101 75 CARD.docx • Preview ACEIT 101 75 CARD.docx ACEIT 101 75 CARD.docx	ly buy quantity						
ACEIT 101 75 CARD.docx	ur finish year.						
ACEIT 101 75 CARD.docx	e information.						
ACEIT 101 75 CARD.docx							
Decumente							
Documents							



⑦ ⊑ □ ×

Tailor Standard Reports Quickly

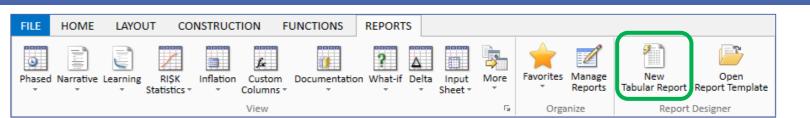
- Report Settings controls
 basic report parameters
 - Change settings
 - Press refresh
 - Save the new report template

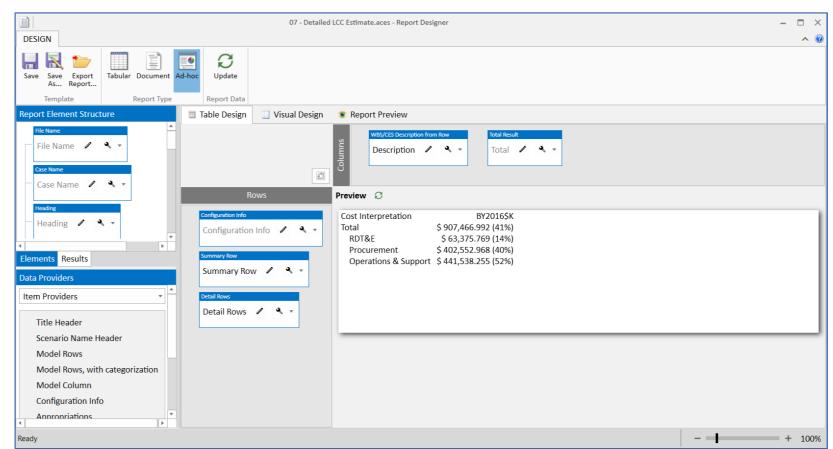
O6 - Implementing O&S Estimating Me	ethods.acex - BY Pha	ased Costs (all row	s) - BY 2019\$K,	, Point Estimate – 🗆 🗙
File REPORT				Refresh
Update Settings				
Print Print				Report View
Data Page Setup 🖓				
WBS/CES Description	Approp	Total	FY 201 🔺	Banart Sattings
1 *EXAMPLE FILE*	Арргор	Total	11201	Report Settings 8
2 *Budget Information				Report Name:
3 Procurement Budget		\$ 422,569.066		
4 Air Force Aircraft (APF) Budget		\$ 280,632.822		BY Phased Results
5 Army Aircraft (APA) Budget	APA	\$ 141,936.244		Report Title:
6				%CostType% Phased %ResultsType% (all rows)
7 *Estimate				%coscrype% Phased %Results type% (all tows)
8 Total		\$ 904,357.656	\$ 1,874.3	
9 RDT&E		\$ 62,851.012	\$ 1,874.3	🔿 Cost Type
10 Concept Refinement		\$ 1,058.427	\$ 1,058.4	Obligation *
11 Contractor A	RDTEF	\$ 532.172	\$ 532.17	001641011
12 Contractor B	RDTEA	\$ 526.255	\$ 526.25	Base Year
13 Technology Development		\$ 4,637.328	\$ 441.16	O Then Year
14 Contractor A		\$ 2,318.664	\$ 179.12	Same Year
15 Contractor B		\$ 2,318.664	\$ 262.03	
16 System Development and Demonstration		\$ 57,155.257	\$ 374.79	
17 Development Engineering		\$ 19,508.162		─ RI\$K
18 Air Vehicle		\$ 6,696.175		(▽) Case
19 Basic Structure		\$ 4,466.480		
20 Navigation/Guidance		\$ 1,519.046		Configuration Info
21 Propulsion		\$ 710.649		
22 Ground Station		\$ 7,437.118		✓ Rows
23 Procure OTS Parts		\$ 967.631		
24 Design New Parts 25 Software		\$ 6,469.487		Categorize
		\$ 3,254.875		Columns
26 Int & Assy 27 Prototype Manufacturing		\$ 2,119.994 \$ 3,305.561		
28 Air Vehicle		\$ 3,305.561 \$ 2,945.723		Phased Values
Zo Air venicie	RUTEF	3 2.743./23		
				Formats T



Customize Reports with Report Designer

- Create your own tables
- Drag and drop elements to specify rows and columns content
- Save and export the tables to create larger reports







ACE 8.0 Helps Reviewers

- Model Reviewers primarily need to understand existing models and audit them for consistency and sound practices
- Reviewers use ACE to quickly understand a model and focus the review on high impact items



Understand the Model

Review the session information before diving deeper into the model

- Review session metrics
- Scan documentation
- Check documentation across the model

	Methodology (BY2019\$K) - 06 - Implementing O&S Estimating Meth	hods.acex - ACE 8.0		- 8 ×		
Info		Session Properties		Documentation Review		0
IIIO		Program Name Base Year	UAV Demo 2019	Docun	nentation Review	
Introduction Documentation	Introduction This session provides a detailed Operations and Support (O&S) estimate that shows many of ACE's core features. The Operations and Support WBS in this session is based on the CAIG Draft O&S Guide. This session is an enhanced version of "05 -	Units Currency First Year Last Year	2013 Thousands \$ 2014 2036	Total rows in the estimate: 271 WBS rows in the estimate: 148 Lowest level WBS rows in the estimate: 103 Total # of unique definitions and attachments (All counts exclude blank and comment rows,	<u>25</u>	
Conclusion Documentation	Conclusion Click button to add Conclusion Documentation.	Last real Default Case System Inflation Table Custom Inflation Table Session Metrics Last Saved	2056 Point Estimate US Government Indices for FY 2018 none 05Feb2019 13:21:18	WBS Definitions Without Documentation With System Documentation With User Documentation Rows in the WBS	Methodology Definition Without Documentation With Documentation Rows in the WBS	15
Documentation Review	Documentation Review Overview of all documentation contained in the file. Counts the number of system and user-created WBS and Methodology Definitions. Pie charts allow you to visualize rows with/without documentation. Links allow you to review rows without documentation.	Rows Years Cases User-Created Custom Columns Rows Containing: RI\$K Specifications	260 23 2 3	140 95%	143 97% 39	6
Protect	Session Protection Enter a password to protect the session.	WBS Definitions Equation/Throughput Definitio Documentation File Size Attached Documents File Size	19 ons 57 122 KB 0 Reference Count Row 1 45	s Type C User MANUFACTURING - This element inch	Lowest-Level Rows in the WBS	2
Gain Ownership	Gain Ownership This option is only enabled when two users are working in the same ACE session. Depending on the status of the files, you will receive different messages when you try to gain ownership of a file.		2 53,75 2 54,76 4 49,57,72 2 58,80 2 59,81 1 60 1 60 1 60 1 71 1 71 1 72	User MANUACLURING - Insi element incl User This is just a fixed cost per year (S3M) User This is toroken in three rows so sparse 77.9 User This row for both Army and Air Force i User This row is calculated by multiplying a User SYSTEM ENGINEERING/PROGRAM MU User DEVELOPMENT COST FACTOR - System User OTHER - This element includes any fur User These are constant costs that occur e User This row is calculated as that cost of this row is calculated as a factor of th 55,77 User Aphasing is used for learning curves. Herer Air Mehicle (Rasic Structure, Maxiension	for AF and \$4t date for the row. are bought forhicle Basic Structure. as simple unitction of the estimate. time-phased fhe finish date column. NAGGEMENT - the system enhansing methic v/Project Management (600 300,000 ded costs not inand ibalilites. ery year of procurement. refers to the complete air vehicle. rdware unit coandity (ArmyGSQty). sit cost (GSTV quantity (ArmyGSQty). s vehicle cosction of the estimate. This row estimearning Input Sheet.	•

for the final system



Audit Model Methods with Traceback

Session Explorer - Traceback

- 1: *EXAMPLE FILE*
- 2: *General Summary Section
- ⊞ 16: *BY Summary Section
- ∃ 30: *TY Procurement Summary Section
- # 44: *Budget Information
- 62: *Estimate
 - 🖹 -63: Total
 - 🖻 64: RDT&E
 - E-65: Concept Refinement
 - -68: Technology Development
 - □-71: System Development and Demonstration
 - -72: Development Engineering
 - -73: Air Vehicle
 - -74: Basic Structure
 - C 171: Development Start Date
 - □-⇔ 173: Development End Date □-⇔ 171: Development Start Dat
 - □-c= 171: Development Start Dat
 - ←⇔ 51: Enable Variable RI\$K □ □ ←⇔ 199: Basic Structure T1
 - ← 51: Enable Variable RI\$K (1 =
 - ← 223: Ratio of Nonrecurring Cos[®] ⊕-**75: Navigation/Guidance**
 - E 76: Propulsion
 - -77: Ground Station

.......

- •
- Estimate Traceback

ACEIT

Session Explorer Traceback mode

- · See all rows linked to a selected row
- See full predecessor trail for complete traceback to root input. Trace reference logic to its origin
- Works with WBS and Input Variables
- Recommended set up to open both References and Successors Panes

Succes	Successors - Rows that use Development Start Date (DevStartDate)														
1	Image: A state of the state											🗌 Sh	now Column Refer	ences	0
Row		WBS/CES De	scription			Uni	que ID		Equation		Lo	cated In	Result		-
69	Contractor A									2	Start Dat	e	\$ 2,318.664		
70	Contractor B									2	Start Dat	e	\$ 2,318.664		
74	Basic Structure								Struc_T1\$*N	RT1Ratio	Start Dat	e	I,466.480 (50%)		
75	Navigation/Guidanc	e							425.555+25.555	*NavWt	Start Dat	e	.,519.046 (50%)		
76	Propulsion)	pMnth\$*Dev[Duration*NRProp	Complex	Start Dat	e	3710.649 (50%)		
78	Procure OTS Parts						GSUC\$*Gn	dStatQty	Start Dat	e	\$ 967.631				
79	Design New Parts						4500*GS	Complex	Start Dat	e	i,469.487 (50%)				
86	Contactor SEPM								ContLah\$*Cont	Staff∩tv	Start Dat	ρ	\$ 10 002 (40%)		
Refere	nces Favorite Rows	Visualization	Cases	Error Log	Watch 1	Watch 2	Watch 3	3 Successors	Documentation	RI\$K Gr	oupings				



Quickly Access a Variety of Result Views

View phased, total, uncertainty or allocated results in BY, TY, or SY \$

Row	WBS/CES Description	Total	FY 2011	FY 2012	FY 2013	FY 2014							
63	▲ *Estimate												
64	▲ Total	\$ 907,466.992	\$ 8,812.812	\$ 7,267.761	\$ 13,578.674	\$ 36,136.151							
65	✓ RDT&E	\$ 63,375.769	\$ 8,812.812	\$ 7,267.761	\$ 13,578.674	\$ 18,074.491							
66	 Concept Refinement 	\$ 1,058.240	\$ 1,058.240										
67	Contractor A	\$ 531.150	\$ 531.150				Sheet -	Methodolo	gy 🔻 🛛 F	Results - RI	\$K Statistics	s 🔻 🛛 Cł	harts - Estir
68	Contractor B	\$ 527.090	\$ 527.090										
69	 Technology Development 	\$ 4,710.518	\$ 266.172	\$ 1,250.306	\$ 1,067.636	\$ 285.600	nate	Mean	Std Dev	cv	5%	10%	15%
70	Contractor A	\$ 2,355.259		\$ 57.371	\$ 171.485	\$ 285.600							
71	Contractor B	\$ 2,355.259	\$ 266.172	\$ 1,192.935	\$ 896.151		. (38%)	\$ 56,214.	\$ 14,910.	0.2652	\$ 35,603.	\$ 38,987.	\$ 41,57
			4	 Manufact 	turing	\$ 35,16	6. (48%)	\$ 36,848.	\$ 9,524.	0.2585	\$ 23,471.	\$ 25,801.	\$ 27,393
			5	Air Vel	hicle	\$ 30,57	9. (46%)	\$ 32,560.	\$ 8,382.	0.2574	\$ 20,884.	\$ 22,839.	\$ 24,21
			6	Integra	ation & Test	\$ 4,58	7. (64%)	\$ 4,287.	\$ 1,361.	0.3175	\$ 2,380.	\$ 2,697.	\$ 2,927
			7	SEPM		\$ 13,01	1. (28%)	\$ 17,520.	\$ 6,808.	0.3886	\$ 8,701.	\$ 9,865.	\$ 10,868
			8	Program	Office Costs	S 1.84	1. (50%)	\$ 1,846.	\$ 638.	0.3458	\$ 794.	\$ 1,022.	\$ 1,179

Review Model Consistency in Reports

💟 🛃 🗃 🗂 🤊 (° =	DOCUMENTATION MAIN PANE Methodology (BY2019\$K) - 06 - Implementing O&S Es	timatiı
FILE HOME LAYOUT CONSTRUCTION FUNCTIONS REPO	TS EDIT INPUT SHEET	
Phased Narrative learning RI\$K Inflation Columns + View	Detailed Basis of Estimate (BY) - Point Estimate - 06 - Implementing O&S Estimating N File REPORT Ø Ø Ø	Refresh Report View
Create and Tailor Narrative Reports	Detailed Basis of Estimate (BY)	Report Settings Report Name: BY ACE Narrative (Selected Rows) Report Title: Detailed Basis of Estimate (BY)
 Select from template 	Row 50 Integration & Test (AF) \$ 23,621.164 BY20195K	Cost Type
 Use settings to adjust the template 	Fy2017 FY2018 FY2019 FY2020 FY2021 FY2022 FY2023 FY2024 \$ 285.001 \$ 261.668 \$ 247.556 \$ 237.181 \$ 3,251.852 \$ 5,052.459 \$ 9,617.976 \$ 4,667.471	 RI\$K Case Rows Filter
 Refresh the Report 	Total \$ 23,621.164	Attachments
 Review modeling methods and documentation 	B. Phasing Methodology (Yearly Factor/Inputs) C. Estimating Methodology (Equation/Throughput Calculated Yearly and Summed) 0.15*AF_AV\$ C.1 Methodology Rationale This is our standard program office integration factor.	 Fiscal Year Phasing Results Phasing Methodology Estimating Methodology Cost Adjustments Learning Curve Parameters Variables *

Ready

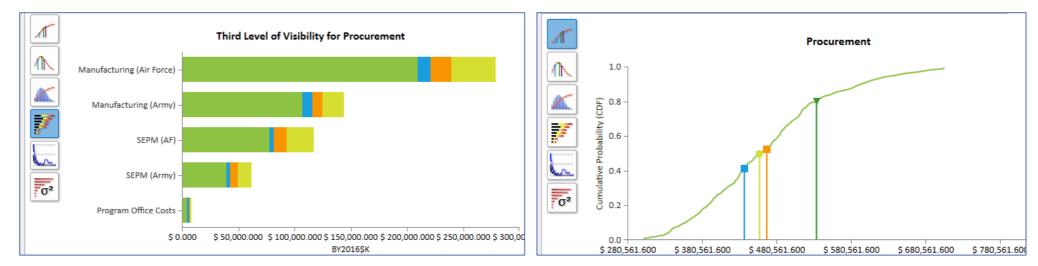
ACEIT

- + 100%

Quickly Generate Charts to Understand Results

- Estimates
 - One case multiple views
- Case Comparative
 - Two or more cases
- Uncertainty
 - CDF
 - PDFs
 - Contributors
- Analysis





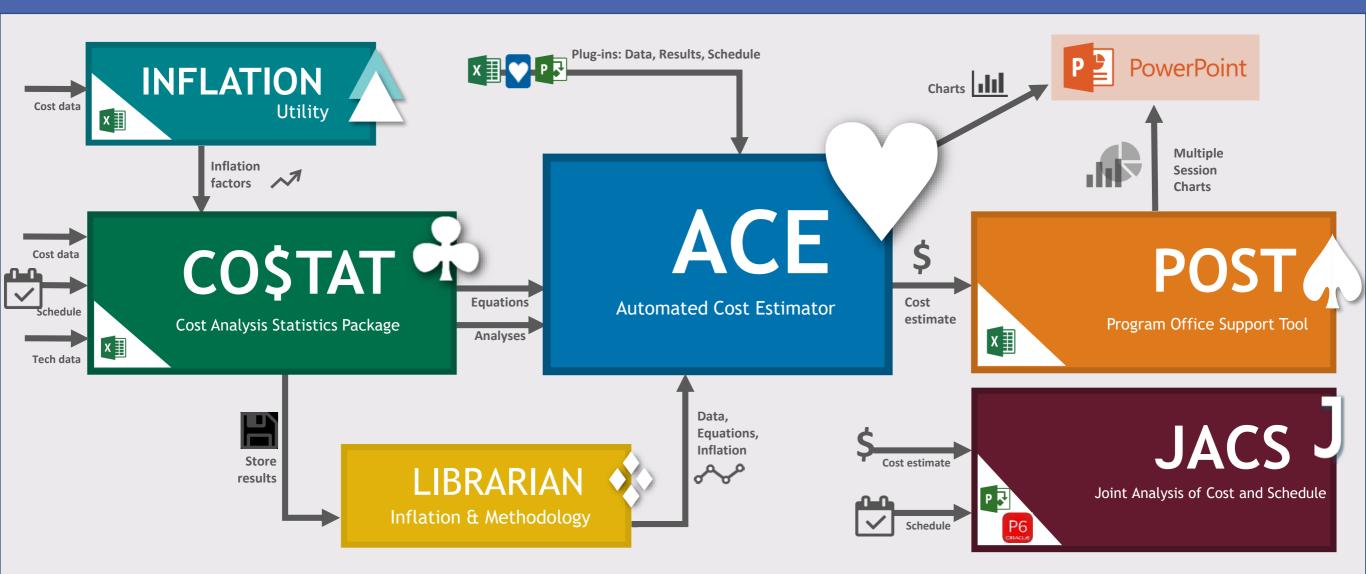


New ACEIT Architecture (() (return a.fn.t

 Revised Architecture to better show how cost, schedule and technical data flow through the ACEIT applications



ACEIT 8.0 Architecture





ACE 8.0 Educational Resources

• Several products available to assist with the transition to 8.0



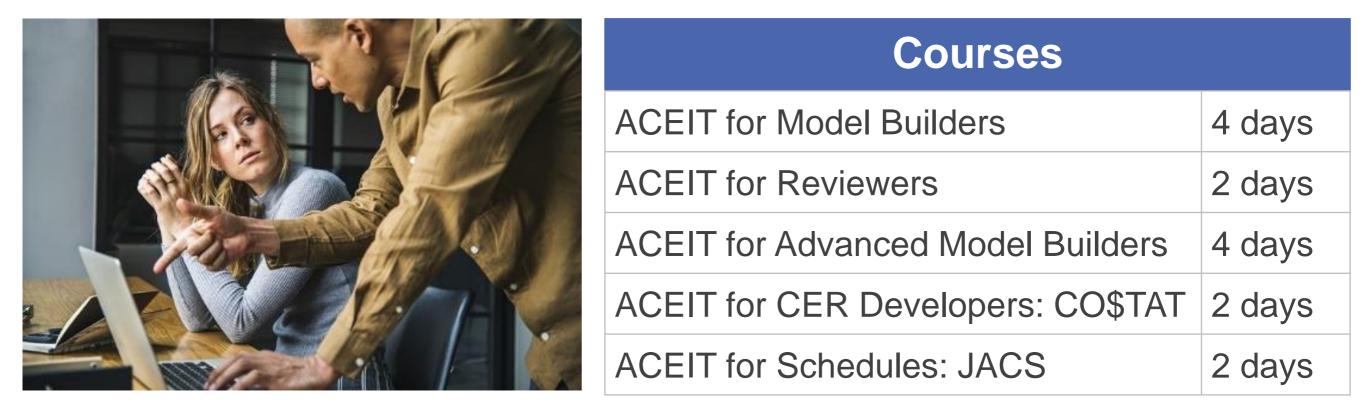
Transitioning Resources

 Transitioning Flyer Compares 7.5 to 8.0 Download at aceit.com 	WebinarsArmy Road ShowWe will schedule more
<section-header><section-header><section-header><section-header><section-header><section-header><section-header><text><text><text><text><text><text></text></text></text></text></text></text></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	<section-header>Anter a series of the series</section-header>
 Help Text Updated for ACE 8.0 Available in software 	New Web Help • How-To style articles • ACEIT.com User Resources
Help Desk Email ACEIT_support@tecolote.com Call: 805-964-6963 	 Training Classes Learn from Expert Instructors Classes Available

ACEIT

ACEIT 8.0 Training

Instructors, possessing real-world experience with ACEIT, provide hands-on training



More Information

- Visit www.ACEIT.com
- Please contact ACEIT Support

Email: aceit_support@tecolote.com

Phone: (805) 964-6963

