







presented by: Aréve Alexander MCR Federal, LLC 781-266-0743 aalexand@mcri.com Getting It Together Combining ACE Estimates January 2009





- Row Copy
- Save/Insert Section, a.k.a. Section Templates
- ACE-to-ACE Plug-In
- Comparison of Methods
- Using Multiple Methods
- Summary



(Good Old) Row Copy Chart 1 of 3

• Procedure

- Highlight continuous block of rows in source session
- Copy via menu, power keys, or icons
- Cursor anywhere in the row where you want to insert copied rows, and paste (will act as insert)
 - Rows will be inserted above the cursor
- Imports everything on the row; e.g.,
 - Equation
 - Unique ID
 - Yearly inputs
 - DEC and Category Column data
 - RI\$K parameters
 - Narratives (with keywords adjusted to appropriate sequence for receiving session)

CRITICAL THINKING. SOLUTIONS DELIVERED.

Row Copy, Chart 2 of 3

- **DEC resolution**
 - DEC in source session, but not in receiving session, triggers Orphan DEC Dialog
 - Insert
 - Throw Away
 - Cancel = Throw Away
 - Put the data into a receiving session DEC *
 - If receiving session has a DEC with same name, data will go there*
 - New DECs will be added to the workscreen you are on, to the left of where your cursor was when you pasted
 - ESCape gives you another chance to decide
- Category Column Data Transferred
 - Columns have default names, not source session column names

*User may need to adjust the DEC type

CRITICAL THINKING. SOLUTIONS DELIVERED.

Row Copy, Chart 3 of 3

Cautions

- Situations that can cause fatal errors include:
 - A Unique ID (UID) in the source session is identical to one in the receiving session
 - A UID is used in an equation in the copied block, but the row that defined it is not in the copied block
 - Take advantage of ACE error trapping to fix
- If the source session has input data in years outside those of the receiving session, those data are not imported
- No automatic warning if the source data had a fatal error



Row Copy WBS Workscreens

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Row Copy Methodology Workscreens

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CRITICAL THINKING. SOLUTIONS DELIVERED.



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Note category column title, narrative keyword, yearly inputs (2010 - 2012), and RI\$K inputs

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Row Copy Results (3 of 4) Adjusting a DEC Type

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Row Copy Results (4 of 4) Adjusting DEC Type & Results

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CRITICAL THINKING. SOLUTIONS DELIVERED.

Save/Insert Section, Chart 1 of 5

Getting Ready

- Ensure FY and Units are specified for all \$ inputs in the source session (normal best practice) – else must check at end of Insert Section process
- Ensure no fatal errors in section to be exported
- Highlight continuous block of rows in source session

OR

 Create a section consisting of the block of rows to be exported and imported

CRITICAL THINKING. SOLUTIONS DELIVERED.

Save/Insert Section, Chart 2 of 5

Creating the Template

- In source session, on <u>File menu select Save</u> Section
- In Save Section Wizard opening dialog, select Row Range button or Section button; if using Section, enter Section ID and Description for the new template
- Next: For variables identified by ACE as used in equations for these rows, select: Exclude, Unique, Share
- Next: Name/Locate .AFF file
 - Filename default is what was entered for Section name
 - Default location: ACE Data file or browse to preferred location
 - Finish



Save/Insert Section, Chart 3 of 5

Using the Template: Introduction

- In receiving session <u>File menu</u>, select Inser<u>t</u> Section
- In Insert Section Wizard, select your template (.AFF file)
 - Show All, or
 - Show System, or
 - Show Custom, or
 - Browse to any path by clicking the Browse button (...)
- Next: View template to ensure it's what you want
- Next: Choose where to insert
 - Above an existing section marker, or at top or bottom of session
 - Variable names you've marked Unique will have a 1 added at the end of their names, in any formula referencing the variable as well as where it's instantiated, if a same-named variable existed in the receiving session
 - All row data will be imported, as with Row Copy



Save/Insert Section, Chart 4 of 5

Using the Template: Operations

- **DEC resolution**
 - DEC in source session but not in receiving session will be added and will retain its DEC type
 - If receiving session has DEC with same name, data will go there; user may have to adjust DEC type
- Category column data automatically transferred
 - Default column name, not source session column name
- Narrative keywords
 - ACE selects them
 - They integrate with keywords in receiving session



Save/Insert Section, Chart 5 of 5

Using the Template: Cautions

- Cautions
 - A UID nested within the equation that defines another UID will not be brought in automatically
 - The rows you specified, plus rows whose UIDs are directly referenced from those rows' equations, are brought in with the indentation they had in the source session.
 - May not be at the right indentation for the receiving session
 - Correct, row by row, if necessary
 - Take advantage of ACE error trapping to resolve above issues
 - If the source session/rows have input data in years outside those of the receiving session, those data are not imported
 - Yearly inputs are imported relative to session start year
 - No explicit warning if the source data had a fatal error



Save Section Wizard Select and Variables Dialogs

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CRITICAL THINKING. SOLUTIONS DELIVERED.

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Insert Section Wizard Select and Preview Dialogs

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EXAMPLE 1 Solutions Delivered: Save Dialog and Initial Result

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Insert Section Results (1 of 2)

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DEC widths reduced, DEC type of LAN DEC modified; note shared variables



Insert Section Results (2 of 2)

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Note category column title, narrative keyword, yearly inputs (2009 - 2011), and RI\$K inputs

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ACE-to-ACE Plug-In, Chart 1 of 7

What It Does

- Imports results of any of these types:
 - Phased \$BY cost and non-cost
 - Total \$BY cost and non-cost
 - RI\$K
- Rows to import don't have to be a continuous block in the source session
- In the receiving session, Plug-In automatically records information about the source session
- You can later refresh the imported session/session part, i.e., automatically update the receiving session with changes in the source session



ACE-to-ACE Plug-In, Chart 2 of 7

What It Does Not Do

- Doesn't import other row information
 - Equation Unique ID Narrative
 - Source session DEC and Category Column data
 - Source session RI\$K parameters

Getting Ready

- Ensure source session contains no fatal errors
- In receiving session, set up workscreen to receive the data, unless you want 6 to 8 new DECs added to an existing screen
 - Five documenting source file information
 - One showing type of results imported for each row
 - Two used if total cost and/or non-cost results imported
- Use View Arrange (Ctrl-G), Click New button, then No
- Give the new workscreen a name and click OK



ACE-to-ACE Plug-In, Chart 3 of 7

Using It: The Basics

- On Tools menu, select ACE-to-ACE Plug-In, then "Import WBS Elements" box
 - Other alternative is to update previously imported session(s)
 - Select file to import from, then
 - Select rows on WBS Elements tab
 - Select data types to be imported on Results tab
 - Click OK
 - If source session contains any fatal errors, import will not occur
- ACE will create the required WBS elements and DECs and insert the selected results



ACE-to-ACE Plug-In, Chart 4 of 7

Using It: Additional Options

- Default: imported data will be at the bottom of the session
 - Or you can set import to occur below the current cursor position
 - To do that. click on Tools > Options from Plug-In dialog.
- If years don't match, years will be added to each end as needed, once you OK this
 - If you don't OK it, the Plug-In will not run
 - If using matrix functions, StepVal() or Coef(), or methods that continue to the last year or start with the first year of the session, check to see what needs adjusting



ACE-to-ACE Plug-In, Chart 5 of 7

Results Inserted: Basics

- New DECs left to right in order shown on next slide, with default names shown
- WBS element names, appropriations, BY and units
- Phased results in FY columns
- Methodology
 - Not necessarily the original method
 - BY for phased costs
 - IS for phased non-cost
 - C for non-phased results



ACE-to-ACE Plug-In, Chart 6 of 7

Results Inserted: New DECs

- ACE_TNC and/or ACE_TBYC, if you chose total noncost and/or cost data types
- ACE_IMPORT_RESULTS notes whether phased and/or RI\$K data was imported (if neither, column will be blank)
- ACE_CASE_NAME name of case used from source session
- ACE_IMPORT_DATE and ACE_FILE_DATE
- ACE_ELEMENT_EXTERNAL_CODE (identifies source session rows)
- ACE_SESSION (includes path)

If you change the DEC names of any of the three bold-faced DECs above, you won't be able to refresh the data.

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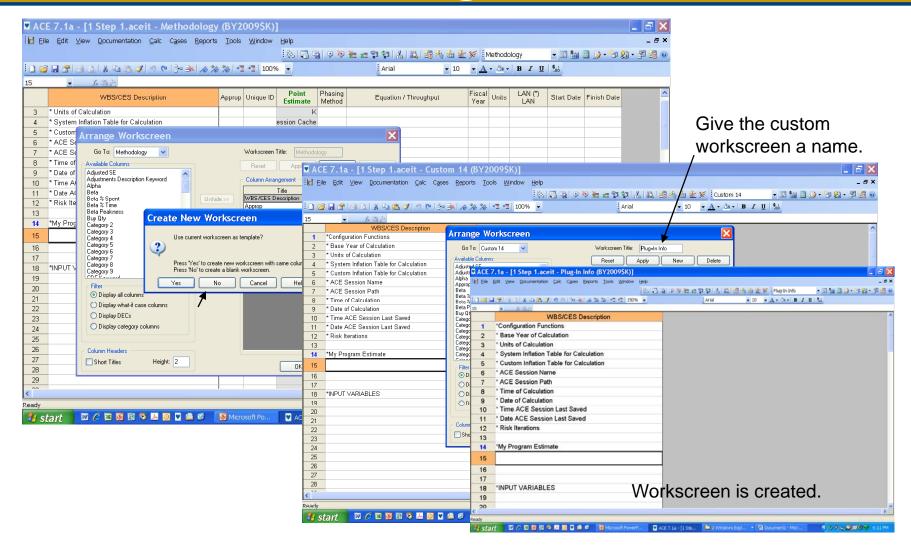
ACE-to-ACE Plug-In, Chart 7 of 7

Results Inserted: Treatment of RI\$K

- Custom cumulative distribution functions (CDFs) initially reflect the RI\$K distributions in the source session
 - Can be observed or edited using Tools>RI\$K Custom CD<u>F</u>s
- For description of a detailed approach to modifying the RI\$K results from imported session(s) to reflect correlations that need to be recognized when combining multiple estimates, see "Implementing Tiered Correlation" section of 2008 ACE Users Group presentation by Antonio Rippe of TRI:

Linking ACE Sessions Together with the ACE to ACE Plug-In

Plug-In Preparation Creating Custom Workscreen



CRITICAL THINKING.



ACE-to-ACE Plug-In Initial Operations

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5	* Custom Inflation Table for	ACE 7	.1a - [1 Step 1.aceit - Plug-In	-In Info (BY2009\$K)]	×
6	ACE Session Name		dit ⊻iew Documentation Calc Cases		
7	* ACE Session Path			[3] [급 및] 이 여 આ 호텔 함 [盖] 眞 過 3 名 金 🖉 Plug-in Info 💿 💿 🗃 🗃 🗦 • 한 없 • 한 2	۲
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9	* Date of Calculation	15	- <u>f. 🛱 A</u>		
10	* Time ACE Session Last	1	WBS/CES Description *Configuration Functions	💀 Import ACE Data	^
11	* Date ACE Session Last 3	2	* Base Year of Calculation	File Tools Help	
12	* Risk Iterations	3	* Units of Calculation	ACE File: C:\Documents and Settings\aalexand\My Documents\ACE Users Group Paper\C	
13		4	* System Inflation Table for Ca		
14	*My Program Estimate	5	* Custom Inflation Table for Ca	WBS Flements Hesults	
15		6	* ACE Session Name	Result Types	
16		7	* ACE Session Path	✓ Total (Cost) Plug-in Options Total (Nor-Cost)	
17		8	* Time of Calculation	Phased Insett Imported Rows	
18	*INPUT VARIABLES	9	* Date of Calculation	At end of session At current position	
19	Sortie	10	* Time ACE Session Last Sav	av av	
20	GFE	11	* Date ACE Session Last Save	OK Cancel	
<		12	* Risk Iterations		
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🦺 star		14	*My Program Estimate		
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ACE-to-ACE Plug-In Years Message

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1 *Configuration Functions	File Tools Help
2 * Base Year of Calculation	
3 * Units of Calculation	ACE File: C:\Documents and Settings\aalexand\My Documents\ACE Users Group Paper\C
4 * System Inflation Table for Calculation	
5 * Custom Inflation Table for Calculation	WBS Elements Results
6 * ACE Session Name	
7 * ACE Session Path	Year Ranges Do Not Match
8 * Time of Calculation	
9 * Date of Calculation	The year range in the ACE session does not match the year range in the session to be imported.
10 * Time ACE Session Last Saved	
11 * Date ACE Session Last Saved	Clicking 'Yes' causes the plugin to add 4 additional year(s) to the end of your ACE session. You may need to adjust your session if you have estimating methods that continue to the last
12 * Risk Iterations	vear of the estimate.
13	
14 *My Program Estimate	Do you wish to continue adding phased data?
15	
16	Yes No
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18 *INPUT VARIABLES	
19 Sortie	
20 GFE	
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22	Check All Uncheck All OK Cancel
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ACE-to-ACE Plug-In Results (1 of 3)

ProjectPathRow-

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	WBS/CES Description	ACE_TNC (!) Total	ACE_TBYC (!\$) Total	ACE_IMPORT_RESULTS A	CE_CASE_NAME (*)	ACE_IMPORT_DATE	ACE_FILE_DATE (*) Date		SESSION (*) ACE Ses
	Airborne Systems (PME)			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE59	C:\Documents
	Air Vehicle (Group A)			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE77	C:\Documents
	Non-Recurring		7973.11980063043	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE78	C:\Documents
	Recurring		9040.38780543922	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE79	C:\Documents
	Mission Avionics (Group B)			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE80	C:\Documents
	Non-Recurring		5838.58379101283	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE81	C:\Documents
)	Recurring			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE82	C:\Documents
	Testbed		1965.02873826561	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE83	C:\Documents
2	Labs		3641.26731052413	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE84	C:\Documents
}	Computer Programs		15757.8981886475	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE86	C:\Documents
ł	Trial Installation, PAT & Delivery			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE87	C:\Documents
5	Non-Recurring		7973.11980063043	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE88	C:\Documents
;	Recurring		9040.38780543922	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE89	C:\Documents
,	System Engineering/Project Management			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE90	C:\Documents
)	Systems Engineering		7973.11980063043	Phased,Risk	Point Estimate	1/27/2009 2:23:62	1/24/2009 10:00:09 PM	ACE91	C:\Documente
1	Project Management/Customer Support		9040.38780543922	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE92	C:\Documents
)	System Test and Evaluation		7973.11980063043	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE93	C:\Documents
	Integrated Logistics Support		9040.38780543922	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE98	C:\Documents
2	Govt Costs			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	OGC\$	C:\Documents
}	GFE		522.620220105676	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	GFE\$	C:\Documents
Ļ	Test			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	Test\$	C:\Documents
;	Test		3370.90041968161	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	Test4\$	C:\Documents
;	SPO			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	SPO\$	C:\Documents
, ,	A&AS		1087.7319575901	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE99	C:\Documents
;	FFRDC		1297.64514238819	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE100	C:\Documents
,)	ECO			Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE246	C:\Documents
,)	ECO		7334.77425086011	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ECO_s\$	C:\Documents
	Sortie Cost		187.272245537867	Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE426	C:\Documents
2	GFE phasing	522.620220105676		Phased,Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE262	C:\Documents
}	GFE parts package		522.620220105676	Phased.Risk	Point Estimate	1/27/2009 2:23:52	1/24/2009 10:00:09 PM	ACE263	C:\Documents
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CRITICAL THINKING.



ACE-to-ACE Plug-In Results (2 of 3)

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	WBS/CES Description	Approp	Unique ID	Point Estimate	Phasing Method	Equation / Throughput	Fiscal Year	Units			
13							[
14	*My Program Estimate		*Estimate								
15	*** C:\Documents and Settings\aalexand\My Documents\ACE U										
16	SDD			\$ 106,735.765 (37%) *							
17	Contractor Costs			\$ 93,389.028 (38%) *							
18	Airborne Systems (PME)			\$ 60,029.209 (28%) *							
19	Air Vehicle (Group A)			\$ 16,679.909 (49%) *							
20	Non-Recurring	3600		\$ 7,816.784 (36%) *	BY	[Cost Throughput]	2010	\$K			
21	Recurring	3600		\$ 8,863.125 (64%) *	BY	[Cost Throughput]	2010	\$K			
22	Mission Avionics (Group B)			\$ 11,220.470 (52%) *							
27	Computer Programs	3600		\$ 15,448.920 (37%) *	BY	[Cost Throughput]	2010	\$K			
28	Trial Installation, PAT & Delivery			\$ 16,679.909 (26%) *							
31	System Engineering/Project Management			\$ 16,679.909 (70%) *							
34	System Test and Evaluation	3600		\$ 7,816.784 (36%) *	BY	[Cost Throughput]	2010	\$K			
35	Integrated Logistics Support	3600		\$ 8,863.125 *	BY	[Cost Throughput]	2010	\$K			
36	Govt Costs			\$ 13,346.737 (46%) *							
37	GFE	3600		\$ 512.373 *	BY	[Cost Throughput]	2010	\$K			
38	Test			\$ 3,304.804 *							
40	SPO			\$ 2,338.605 *							
43	ECO			\$ 7,190.955 (46%) *							
45	Sortie Cost	3600		\$ 0.000 *	С		2010	\$K			
46	GFE phasing			522.620 *	IS	[Input Throughput]					
	GFE parts package	3600		\$ 0.000 *	С		2010	\$K			



ACE-to-ACE Plug-In Results (3 of 3)

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		Categor					FY	FY	FF	WBS/CE	Distribut	RI\$K	External	Low	High	Group	Groupi	
	WBS/CES Description	y 1	2009	FY 2010	FY 2011	FY 2012	2013	2014	γγ	S/VAR	ion	Specificati	Code	(% of	(% of	Streng	ng	CDF Keyword
	*My Program Estimate							\sim					*Estimate					
15	*** C:\Documents and Settings\aalexa								\searrow				ACE700					
16	SDD												ACE701					
17	Contractor Costs												ACE702					
18	Airborne Systems (PME)												ACE703					
19	Air Vehicle (Group A)												ACE704					
20	Non-Recurring			993.27995015761	189.24792025217	790.59193022065					CDF	Form=CDF	ACE705					:705_PointEstimat∈
21	Recurring			260.09695135981	616.15512217569	164.13573190373					CDF	Form=CDF	ACE706					:706_PointEstimat∈
22	Mission Avionics (Group B												ACE707					
23	Non-Recurring			459.64594775321	335.43351640513	043.50432685449					CDF	Form=CDF						:708_PointEstimat∉
24	Recurring												ACE709					
25	Testbed			91.257184566402	473.77155369921						CDF	Form=CDF	ACE710					:710_PointEstimat∈
26	Labs			820.63365526207	820.63365526207						CDF	Form=CDF	ACE711					:711_PointEstimat∈
27	Computer Programs			939.47454716188	303.15927545902	515.26436602664					CDF	Form=CDF	ACE712					:712_PointEstimat∉
28	Trial Installation, PAT & De												ACE713					
29	Non-Recurring			97.311980063043	1913.5487521513	262.25906841608					CDF	Form=CDF	ACE714					:714_PointEstimat∉
30	Recurring			04.038780543922	169.69307330541	966.65595158989					CDF	Form=CDF	ACE715					:715_PointEstimat∉
31	System Engineering/Project N												ACE716					
32	Systems Engineering			993.27995015761	189.24792025217	790.59193022065					CDF	Form=CDF	ACE717					717_PointEstimate
33	Project Management/Cust			260.09695135981	616.15512217569	164.13573190373					CDF	Form=CDF	ACE718					718_PointEstimate
34	System Test and Evaluation				986.55990031521	986.55990031521					CDF	Form=CDF	ACE719					719_PointEstimate
35	Integrated Logistics Support			260.09695135981	616.15512217569	164.13573190373							ACE720					
36	Govt Costs												ACE721					
37	GFE			61.310110052838	61.310110052838								ACE722					
38	Test												ACE723					
39	Test				36.361227689337	434.53919199227							ACE724					
40	SPO												ACE725					
41	A&AS			62.577319196701	62.577319196701	62.577319196701							ACE726					
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ACE-to-ACE Plug-In Editing CDFs

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14 *N	My Program Estimate	-												*Estimate					
15 **	🗝 🗖 Custom RI\$K CDF Sj	pecificat	tions		ſ	×								ACE700					
16	S													ACE701					
17	Custom Cumulative Distribution Fund	tions (CDF)												ACE702					
18	Name Origin	,	Last Updated		R(🔨									ACE703					
19	ACE705_PointEsti (no reference ACE706_PointEsti (no reference		01/28/2009 0:33 01/28/2009 0:33		Edit (Custom CE	DF				×			ACE704					
20	ACE708_PointEsti (no reference	ie)	01/28/2009 0:33	:20 AM								CDF	Form=CDF	ACE705					705_PointEstime
21	ACE710_PointEsti (no reference ACE711_PointEsti (no reference		01/28/2009 0:33 01/28/2009 0:33		Name:	ACE705_PointEs	timate					CDF	Form=CDF	ACE706					706_PointEstima
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23	<	\	01/20/2000 0.22	-00 AM	Confider	t multiplier can be nce is percentage	number	betwee	n 0 an	nd 10	0.	CDF	Form=CDF	ACE708					708_PointEstime
24			5.4% C. D. 6	57		r is a factor of the have 1.0 at 50%								ACE709					
25	New Copy Re		Edit Refres		confider			ance and	1.25	at /s	576	CDF	Form=CDF	ACE710					710_PointEstima
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28			OK Cano		991	99.000000000		512997(-				ACE713					
29					992	99.100000000		525828		· .			Form=CDF	ACE714					714_PointEstima
30	Recorning		01.000100010011		993	99.200000000		6109209 696013				CDF	Form=CDF						715_PointEstime
31	System Engineering/Project I				995	99.4000000000		819161		-				ACE716					
12	Systems Engineering		993.27995015761		996	99.500000000		942310					Form=CDF	ACE717					717_PointEstima
33	Project Management/Cust		260.09695135981		997	99.600000000		986161		-			Form=CDF	ACE718					718_PointEstima
34	System Test and Evaluation		260.09695135981	986.559	998	99.700000000		030013(108492)		-		CDF	Form=CDF	ACE719					719_PointEstima
35	Integrated Logistics Support		260.09695135981	616.155	1000	99.900000000		186972	33299	0	_			ACE720					
36	Govt Costs		04.0404.0050000		1001	100.000000000	0 1.9	186972	33299	0	×			ACE721					
37	GFE		61.310110052838	61.3101	📃 Is dis	rete distribution	(no inter	polation)					ACE722					
38	Test			36,3612										ACE723					
39	Test SPO			130.3612		ОК	Can		_	Help				ACE724					
40	A&AS		62.577319196701	162 5772			Can	.01		ieih				ACE725					
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Comparison of Methods, Chart 1 of 2

	Row Copy	Section Templates	ACE-to-ACE Plug-In
Procedure Complexity	Simple	More Complex.	More Complex.
Preparation	Choose block of rows.	Create the template.	Setting up separate workscreen to receive 6 to 8 new DECs (Recommended)
What's Imported	Everything <i>in a continuous block</i> of rows, or Section, except yearly inputs for years not in RS.	Everything <i>in a continuous block of</i> <i>rows, or Section,</i> except yearly inputs for years not in RS. Yearly inputs imported relative to first year.	For user-selected rows (need not be continuous), only results , selected from: cost and non-cost totals, cost and non-cost yearly results, and RI\$K distribution functions.
Vertical Location of the Imported Data	Above cursor in RS.	Top or bottom of RS, or above selected section marker.	Bottom of RS by default, or user can choose location.
Horizontal Location of Added DECs	Lef	t of cursor	First 6 to 8 columns right of WBS titles, on whichever workscreen you are on in RS
Documentation	Original WBS/element description category columns; user can modif	n, narratives, descriptive DECs and fy in RS as appropriate.	Automated transfer of selected information re source session and transfer date,

RS – Receiving session

Colors indicate related cells.



Comparison of Methods, Chart 2 of 2

	Row Сору	Section Templates	ACE-to-ACE Plug-In		
Updating for Changes in Source Session	No auto	Easy automated process.			
Is the Import Subject to "Undo"?		No.			
Resolution of Conflicts Between So	urce and RS				
DECs Not in RS	s Not in RS User choice to import or not. Will be imported; user can delete if desire				
DEC Туре	May need to adjust	N/A			
Category Column Data	Imported; column nam	N/A			
Years Not in RS	Data i	s not imported.	Years added to RS.		
UID issues	User may need to resolve missing or duplicated UIDs in RS after import.	Choose from three options per variable during template creation to avoid problems with automatically identified variables; nested variables, however, must be added manually to the RS.	N/A		

RS – Receiving session Colors indicate related cells.

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Using Multiple Methods

- A situation could arise where you'd choose to use two methods to import the *same* estimate/part of an estimate
 - You want certain features of the Plug-In; e.g.,

CRITICAL THINKING.

- The documentation about the source session that is automatically brought in
- Ability to refresh from updated source data
- The RI\$K distribution brought in as a custom CDF, so that it won't change in the new session, or will change only as you determine it should

- But you also want some things the Plug-In won't give you; e.g.,

- Narratives take the keywords brought in by Row Copy or Import Section, move them to the Plug-In-created rows, edit as needed
- The original RI\$K parameters. You can't enter them on the same row as the Plug-In-created row that has a custom CDF, but can include the row, without its variable name, as a reference





• Each method has advantages and challenges

- Row Copy: simple, but doesn't address differences in years of estimate; must iron out variable conflicts, if any, and re-address RI\$K assessment/grouping in the integrated estimate.
- Template: can be ported to another environment without the original session; some variable issues resolved automatically; more complex, still doesn't address differences in years; must still re-address RI\$K assessment/grouping.
- Plug-In: more complex initial procedure but easy updating; "loss" of original methodology and narratives, but no loss of yearly inputs; automated documentation of where the data came from, and when. RI\$K distributions as CDFs, subject to editing.
- Using two methods (Plug-In and Row Copy, or Plug-In and Template[s]) for the same import may sometimes be advisable