Welcome to ACEIT 8.2

Supporting Inflation & Escalation **Best Practices**



ACEIT: Designed to Support Best Practices

Since the 1980's, ACEIT has been designed to...



Provide a standardized framework to support estimating processes for US Government and other organizations



Support cost analysts to follow **established best practices** with analysis, model development, uncertainty, and reporting

OSD CAPE seeks to better define program costs associated with inflation vs. escalation.

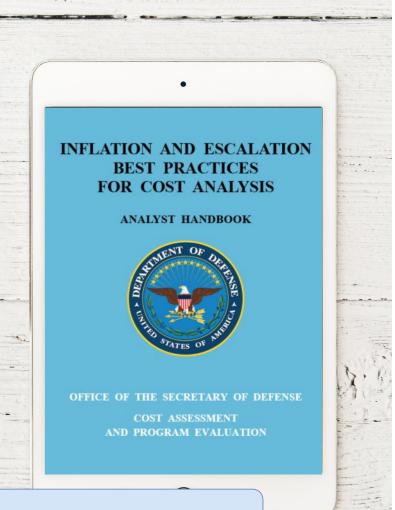
ACEIT 8.2 supports that mission.

OSD CAPE Inflation and Escalation Guidance

In December 2021, OSD CAPE published updated guidance on inflation and escalation practices

CAPE Goals

- Account for differences between inflation and escalation
- Adopt consistent terminology
- Use realistic escalation rates to estimate costs in Then-Year dollars
- Make long-term assumptions about fuel prices, military pay, others rates that balance realism and stability of estimates
- Normalize inputs appropriately for use in cost estimate calculations
- Use Then Year and Constant Year dollars for external budgeting and decision making reports
- Document and label all indices used



These guidelines go beyond OSD: they are cost estimation best practices

Empowering Analysts to Adopt New Practices

ACEIT 8.2 is designed and developed to...

Adopt new terminology: update cost types throughout suite

Guide transition: automate existing model transition to new terminology and document updates

Label indices clearly: expand capabilities to distinguish between inflation and escalation



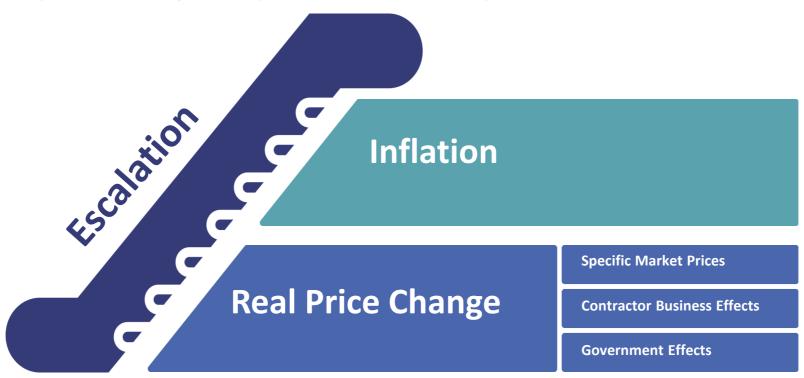
Facilitate new cost method data entry: include Constant Year cost types

Enhance reports for all cost types: convert reports to the new terminology

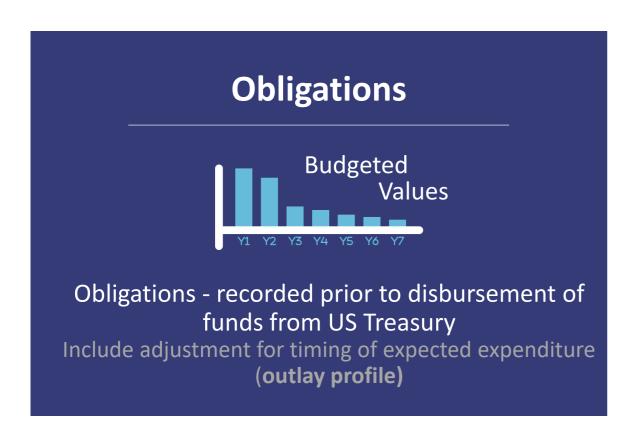
Our goal: lead analysts through terminology changes so they can focus on selecting indices to correctly normalize inputs and inform estimates

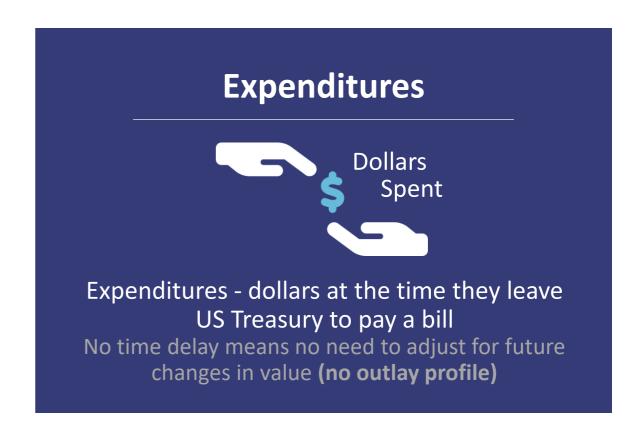
Price Change: Not Just Inflation

- Inflation: economy-wide price change
- Real Price Change: any price change a commodity experiences not explained by inflation;
 - Includes specific market price changes, contractor business effects, government effects
- Escalation: overall price change to specific commodity; includes Inflation and Real Price Change



Focus on Obligations vs Expenditures



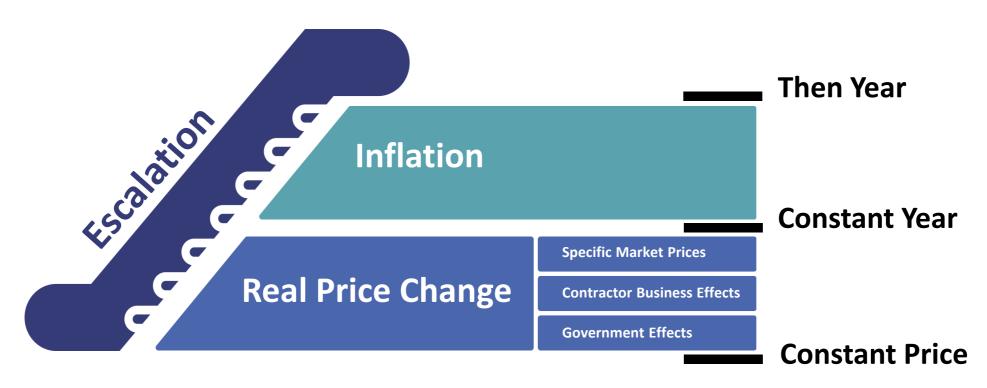


Important distinction when selecting indices:

- Weighted indices incorporate outlay profiles; appropriate for Obligations
- Raw indices do not incorporate outlay profiles; appropriate for Expenditures

New Cost Types for Improved Clarity

- Constant Price (CP\$): Impacts of escalation not included (no inflation or real price change)
 - Expressed relative to a single normalization year
- Constant Year (CY\$): Impacts of real price change included, but not inflation
 - Often called "real dollars" outside DoD



BASE YEAR dollars ARE OUT

Constant Price & Constant Year dollars are

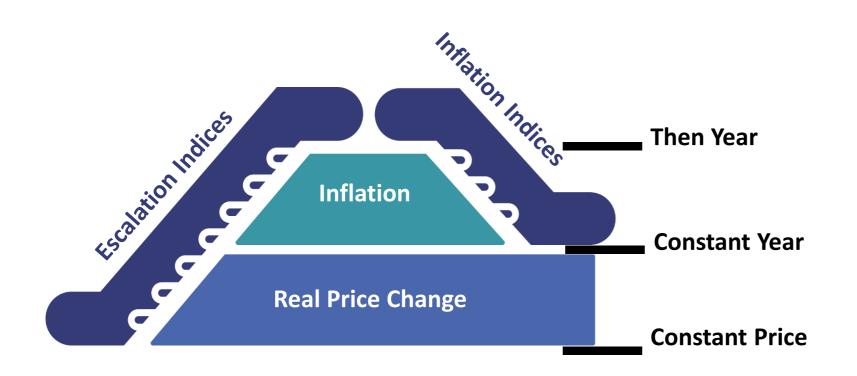


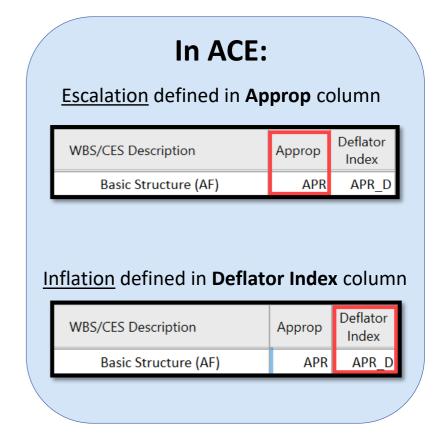
By replacing Base Year dollars (BY\$) with CP\$ or CY\$ cost estimators can more easily:

- ✓ Understand if costs include impacts of real price change or not
- ✓ Identify type of index used to produce each value

Escalation and Inflation Index Types

- DoD seeks to have well defined escalation and inflation indices
- With these two measurements, all three major cost type categories can be calculated
 - Real Price Change indices not well defined





New Cost Type Terminology in ACEIT

Constant Price

Normalized to remove the effects of escalation and any outlay profile

ACEIT 8.1 term: Base Year (BY) dollars

Then Year Obligations

Contain effects of Escalation and outlay profiles

ACEIT 8.1 term: Then Year (TY) dollars

Constant Year Obligations

CYO Contain effects of Real Price Change and outlay profiles

ACEIT 8.1 term: Reportable BY (Results only)

Then Year Expenditures

TYE Contain effects of Escalation but no outlay profiles

ACEIT 8.1 term: Same Year (SY) dollars

Constant Year Expenditures

CYE Contain effects of Real Price change but no outlay profile

ACEIT 8.1 term: Reportable BY (Results only)

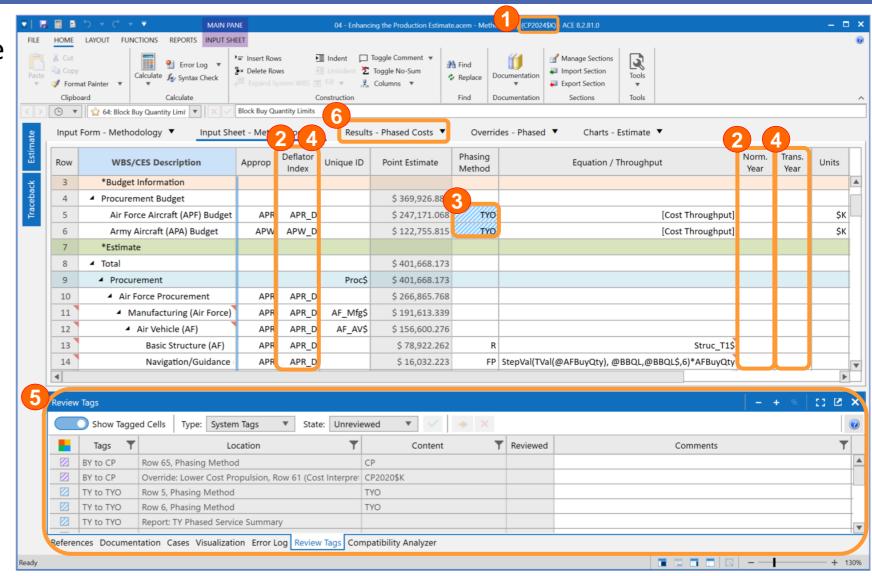
ACEIT 8.2 adopts OSD CAPE Handbook cost terms





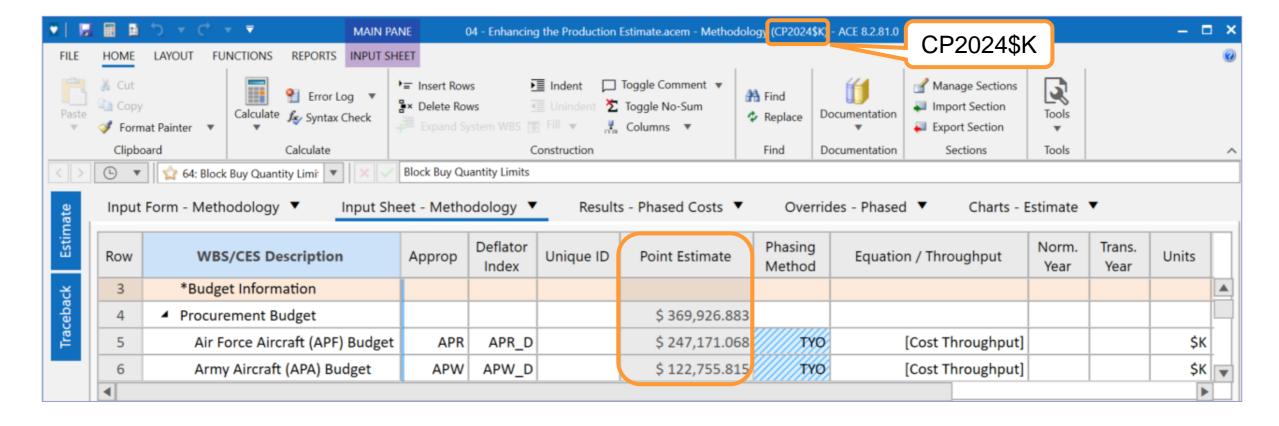
High Profile Updates to ACE

- 1. Session Results in Constant Price
- 2. Renamed "Fiscal Year" Column "Norm. Year"
- 3. Updated Phasing Methods to new cost types
- 4. Support for CY\$ inputs with Deflator Index and Trans. Year
- 5. Review Tags Pane tracks system cost type changes
- 6. Results in new Cost Types



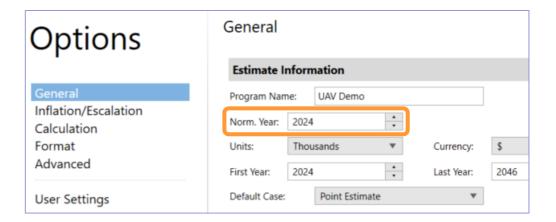
Session Results in Constant Price

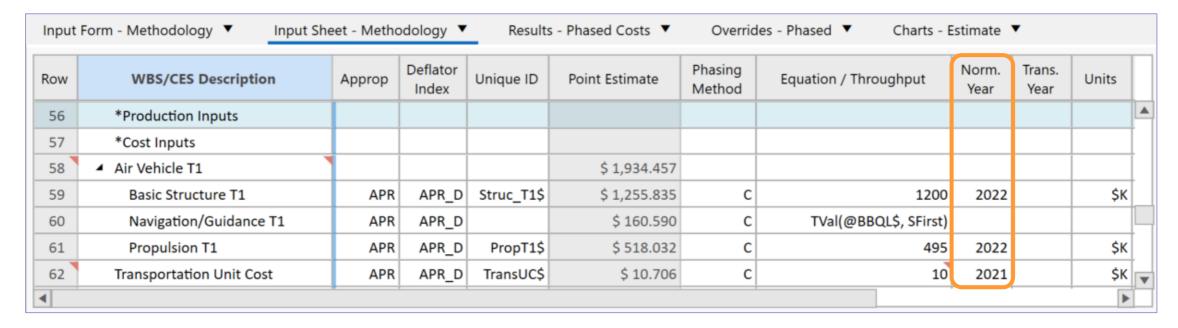
- Constant Price used to understand historical trends, compare costs, develop CERs
- ACE sessions calculated in CP\$ of user-selected Norm. Year



Renamed Session "Base Year" and "Fiscal Year" Column to "Norm. Year"

- Base Year and Fiscal Year terms were overloaded in ACEIT
- Session base year renamed Norm. Year
- Renamed to Norm. Year as a descriptor year of normalization

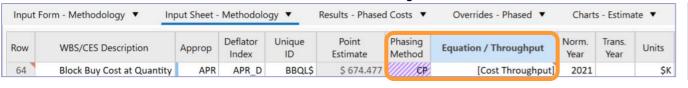




Updated Cost Phasing Methods

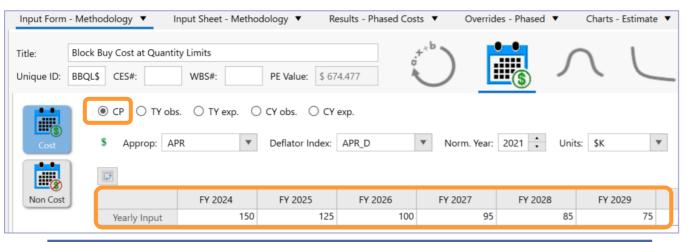
Phasing Methods drive how ACE calculates a row's equation or time phased inputs

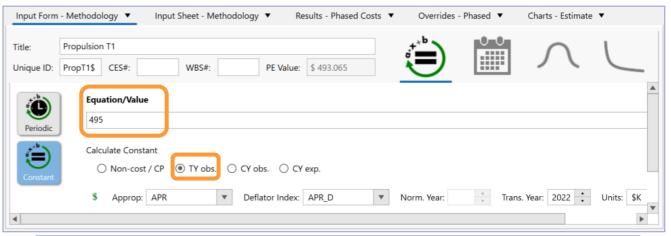
Time Phased Inputs





Equation/Throughputs





Time Phased Cost Phasing Methods

Yearly/Monthly cost data entered by time period

CP TYO TYE CYO CYE

ACEIT 8.1 terms: BY, TY, SY

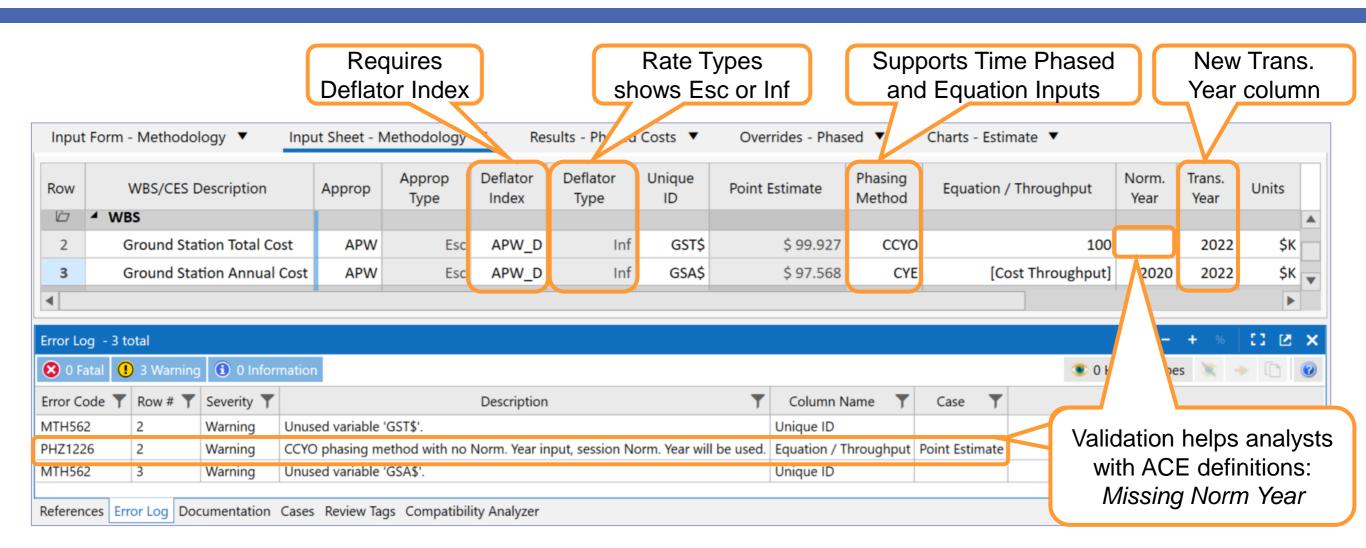
Equation/Throughput Cost Phasing Methods

ACE uses the term "Constant" for non-Time phased methods

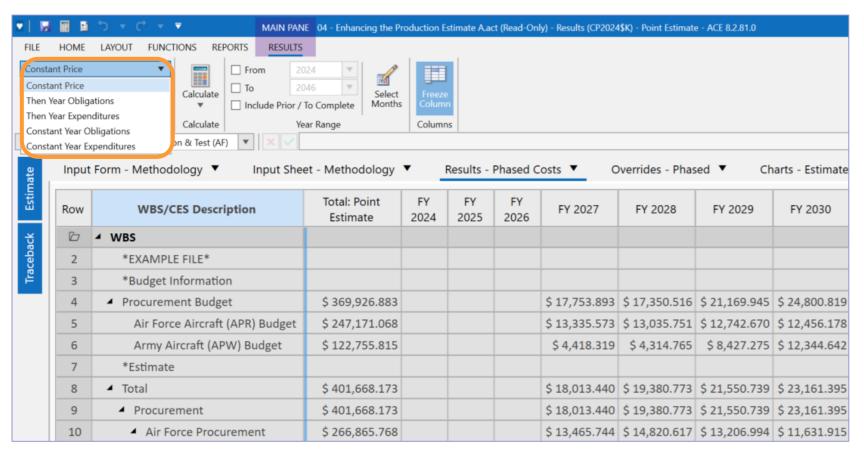
C CTYO CCYO CCYE

ACEIT 8.1 terms: **C and CTY**

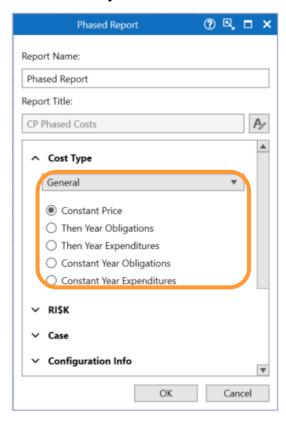
Support for CY\$ Inputs



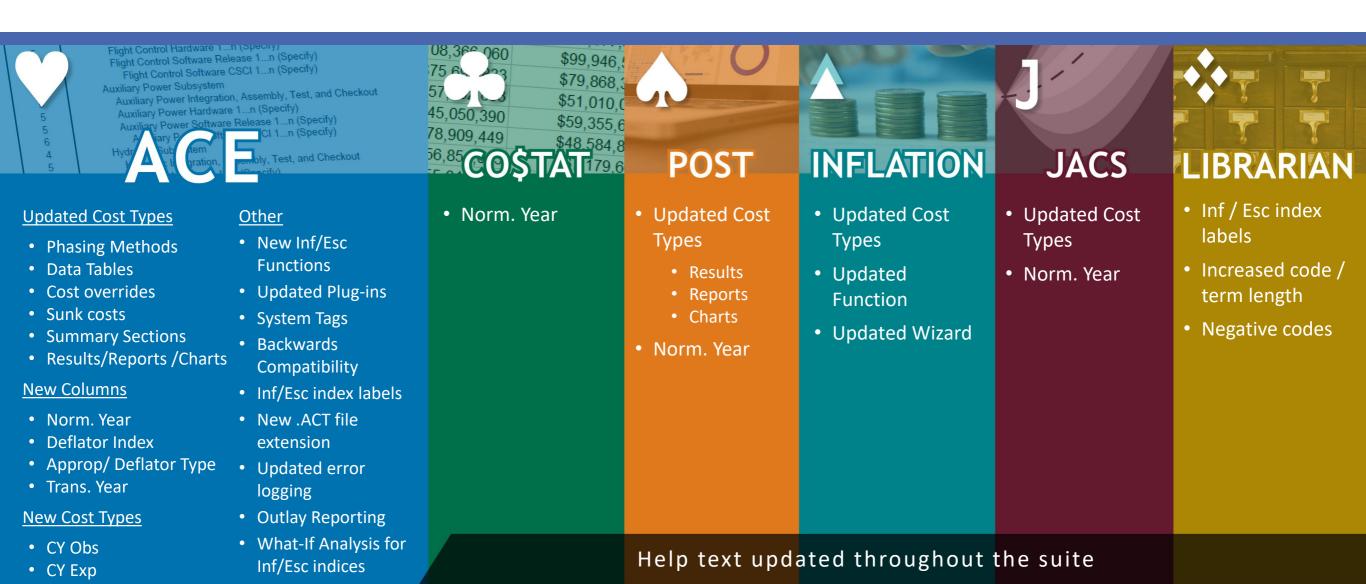
Results and Reports in All Cost Types



- Clear cost type selection
- Obligations vs. Expenditure options emphasized



Cost Types Updated Across the ACEIT Suite

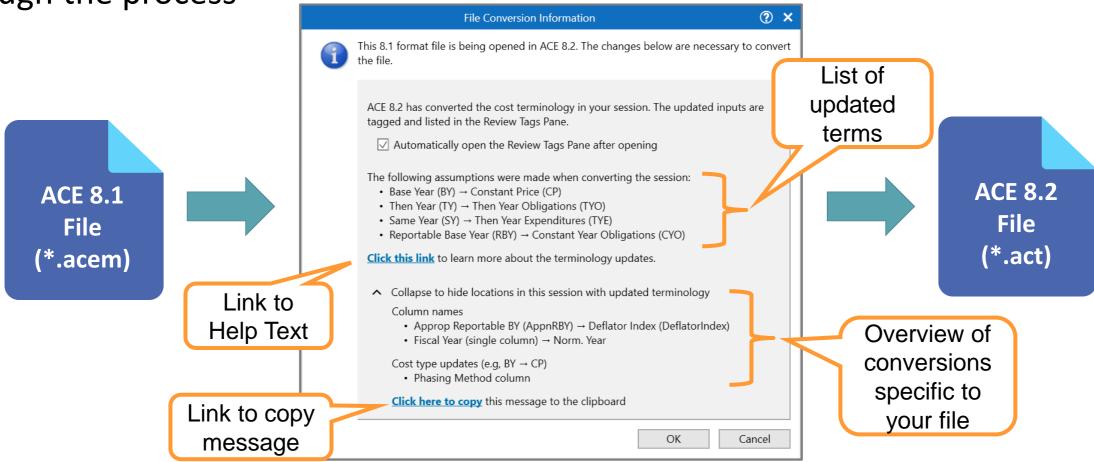




Process of Transitioning Files

When opening an existing session in ACE 8.2 there is messaging to help the user

through the process

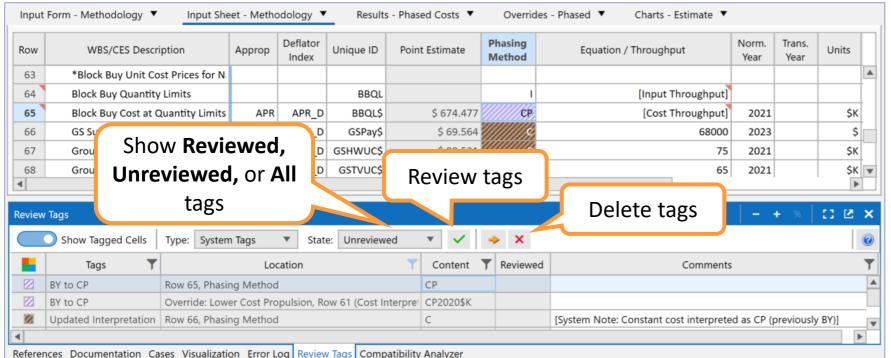


Analyst Responsibility after Conversion



ACE 8.2 automatically converts terminology



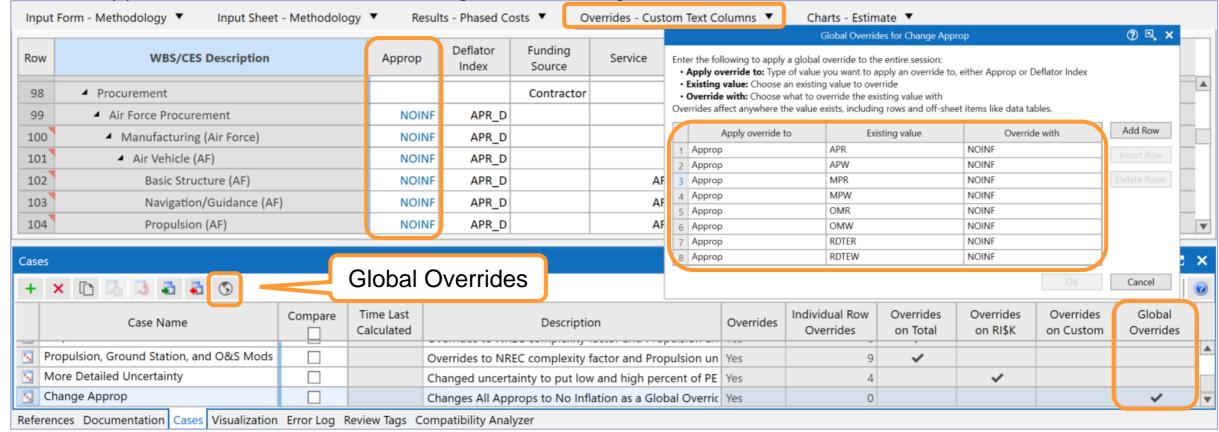


- Review Tags Pane lists every change made to the session
- Main Pane shows cells with conversions visibly tagged

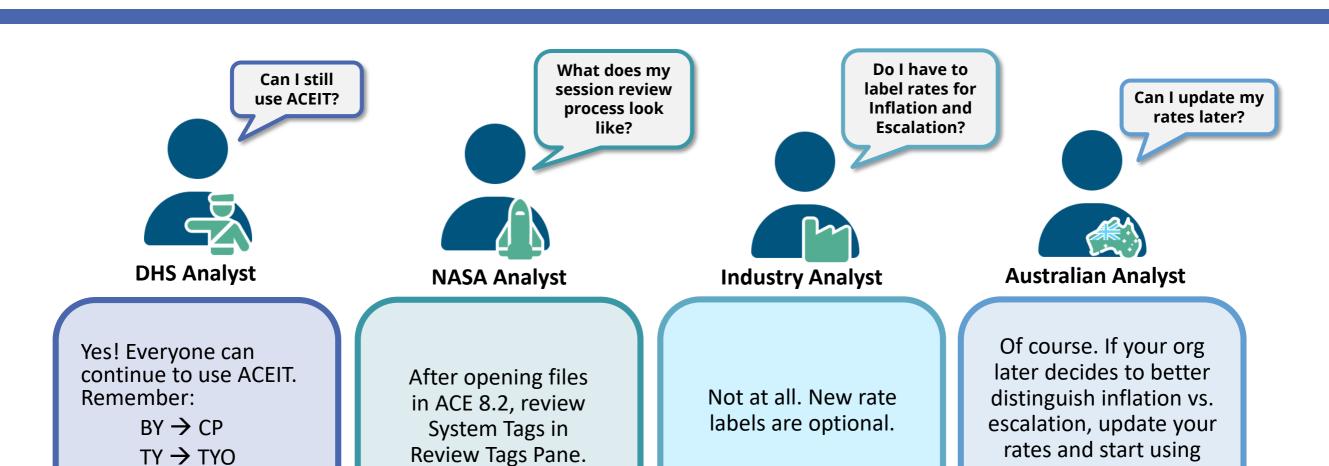
New Features Added to Support Inf/Esc

- New Global Case Overrides
 - Override an Index throughout the session includes data tables and functions
 - Visible on Overrides Custom Text Columns

• Appear blue, but not bold, to distinguish between global and row-based index overrides



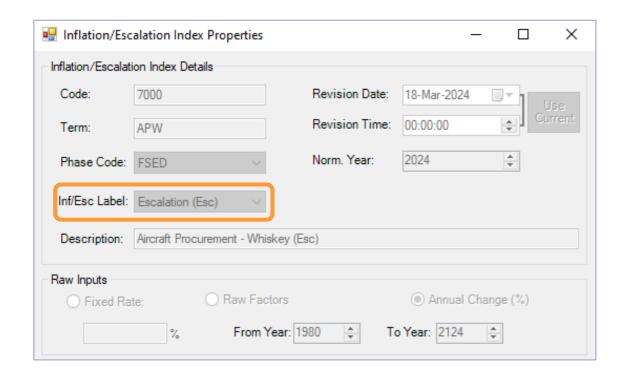
What if I'm not a DoD Analyst?



 $SY \rightarrow TYE$

the new CY cost types.

The Software is Updated...What's Next?



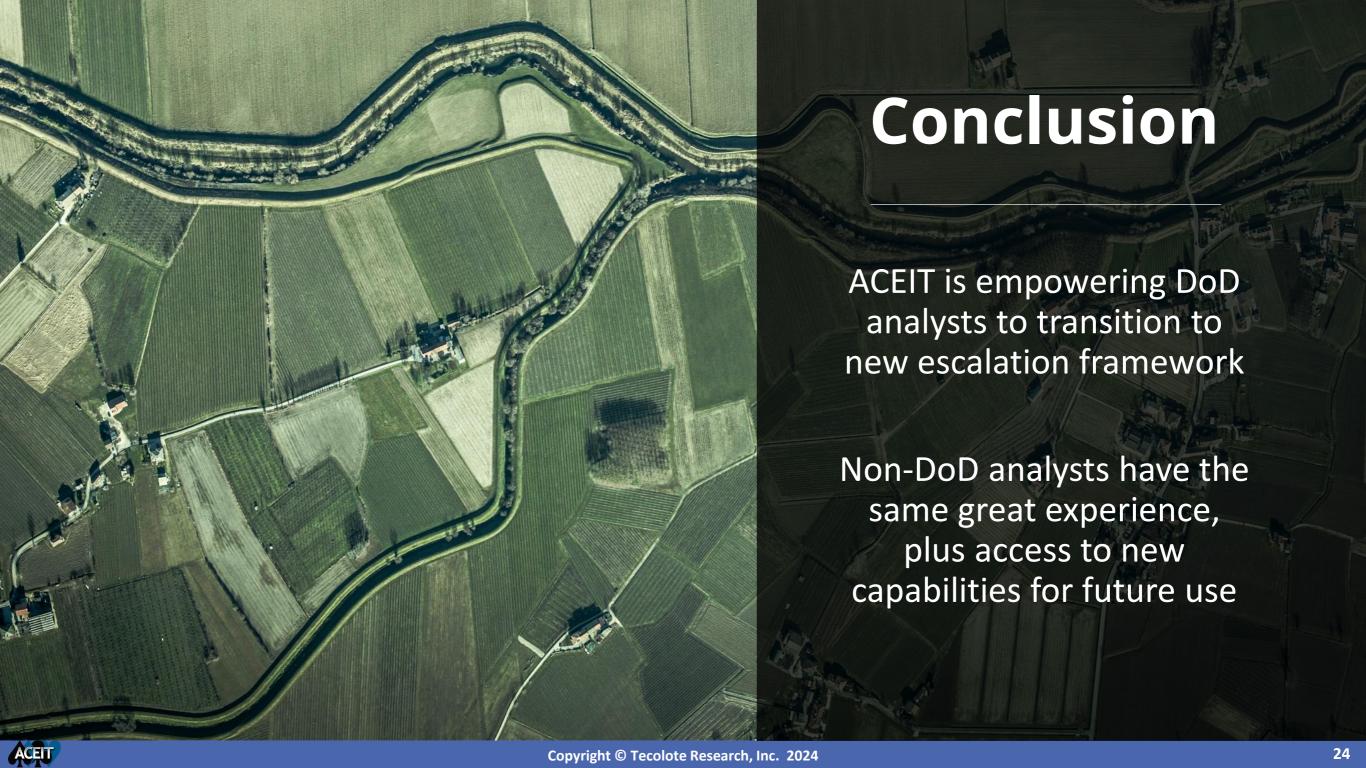
ACEIT 8.2 allows orgs to **label indices** as *Inflation, Escalation,* or *Other*

• Add labels in the



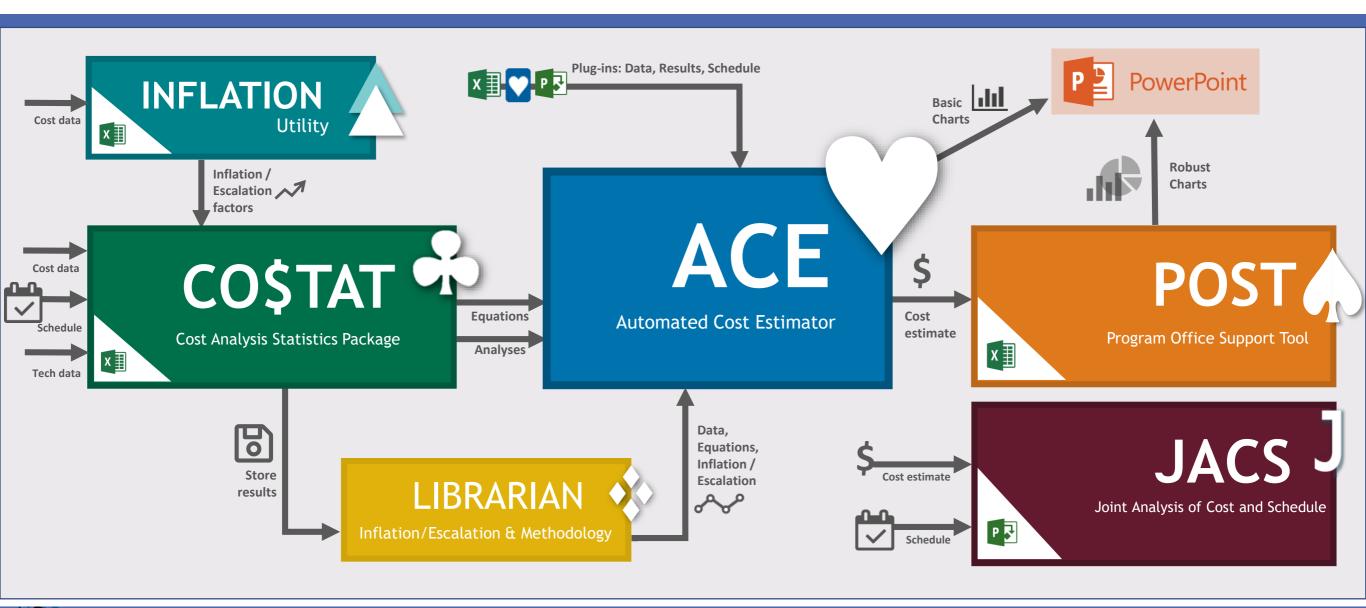
- View labels in ACE columns and reports
- Create new indices for inflation or escalation in Librarian Custom Tables
- Utilize new cost types

Updated software unlocks functionality. Now it's up to the community to evolve their indices.





ACEIT 8.2 Architecture



ACEIT 8.2 Training

Instructors with real-world experience with ACEIT provide hands-on training.







In-person

Self-paced

Onsite



ACEIT for Model Builders

- Construct an estimate
- Enter methods
- Incorporate Uncertainty
- Generate a CER
- Create What-if Cases
- Open estimate in POST



ACEIT for Reviewers

- Review an estimate
- Understand methods
- Understand Uncertainty
- Generate Reports



ACEIT for Advanced Model Builders

- Modeling Durations
- Advanced Functions
- Data Table
- Advanced Uncertainty Analysis
- Model Integration



ACEIT for CER Developers

- Dataset Organization
- Understand the dataset
- Analyze the dataset
- Validate the analysis
- Document

ACEIT for Schedulers

- Introduction to Joint
 Confidence, JACS, and
 MS Project
- Using JACS to build a JCL
- Analysis Results
- Working with JACS files

Introductory Course 4 Days of Instruction

Introductory Course 2 Days of Instruction

Advanced Course
4 Days of Instruction

Independent Course 2 Days of Instruction

Independent Course 2 Days of Instruction





Visit www.ACEIT.com

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