

Data Integration and Analysis



ANNETTE BEITEL
PRESENTATION AT CAL TF PAC
JUNE 20, 2023

Business Case

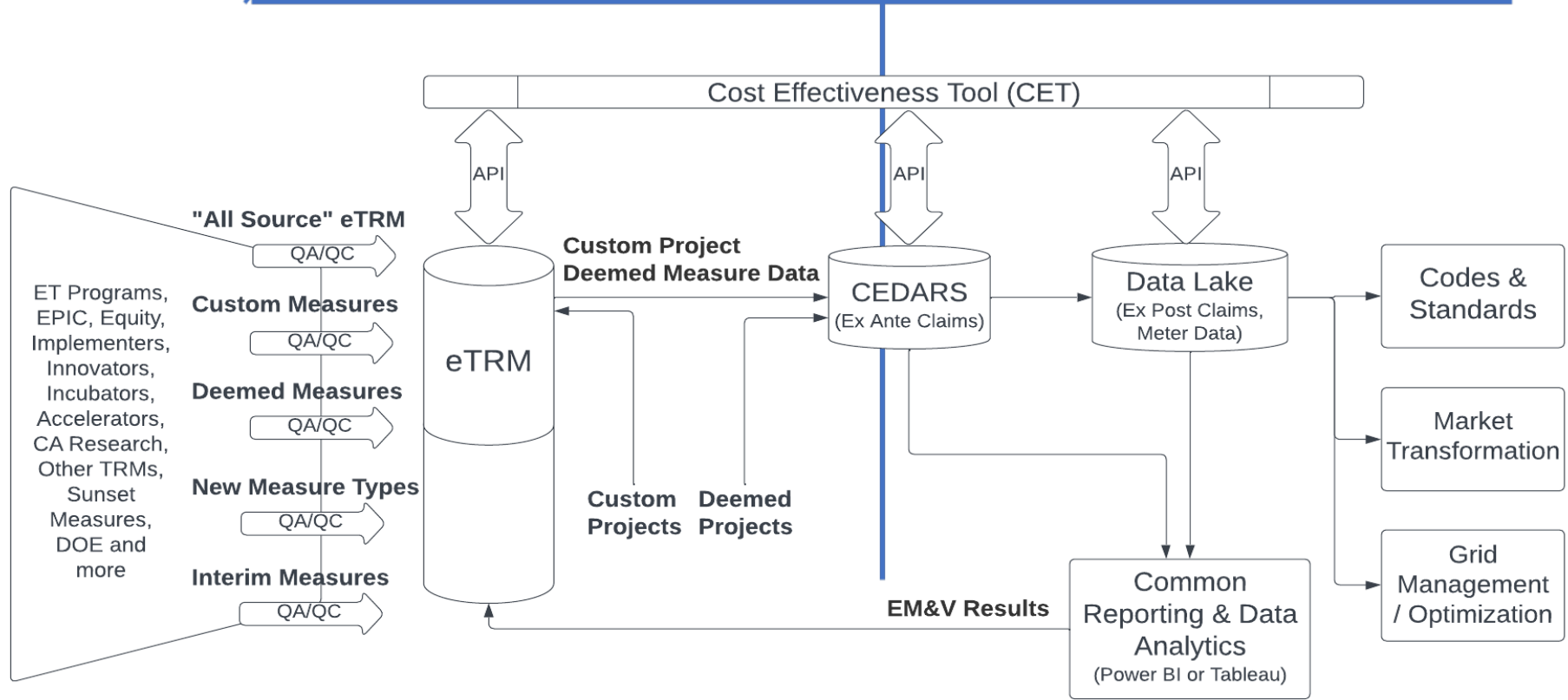
Reduce costs, time and errors associated with EE/DR data administration

Enable data analytics using commercially-available tools and through combining EE/DR data with other federal, state and possibly private data sources

- Background
- Upcoming Data Charette
- Key Emerging Issues Identified to Date

Modern, User-Friendly, Integrated User Interface

Integrated Stakeholder Advisory Group (through Cal TF)



Bottlenecks

- **Measure Development/Intake**
 - Streamline new measure creation
 - Allow new measure types, including equity
- **Data Flow**
 - Custom – multiple opportunities
 - Deemed –Seamless data transfer
 - Claims - make reported data accessible
 - EM&V - Feed data back to measure development
 - Simplify access to cost effectiveness
- **Data Visibility**
 - Join multiple data sets
 - Missing data

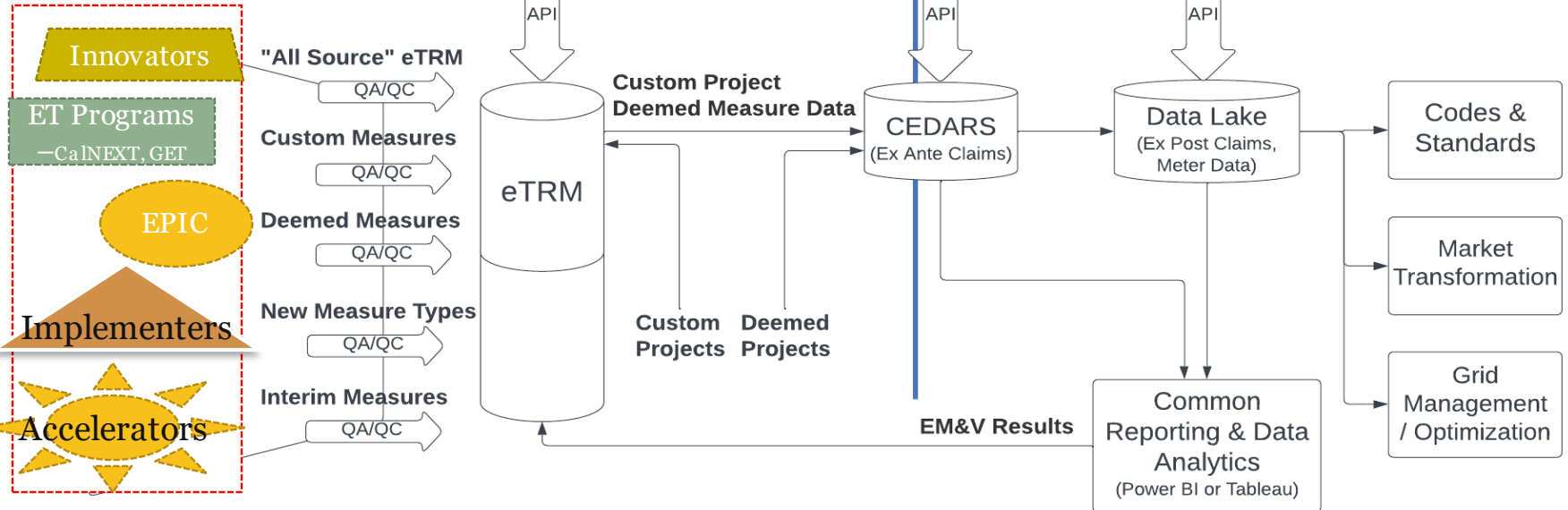
Streamline New Measure Creation

5

Modern, User-Friendly, Integrated User Interface

Integrated Stakeholder Advisory Group (through Cal TF)

Cost Effectiveness Tool (CET)

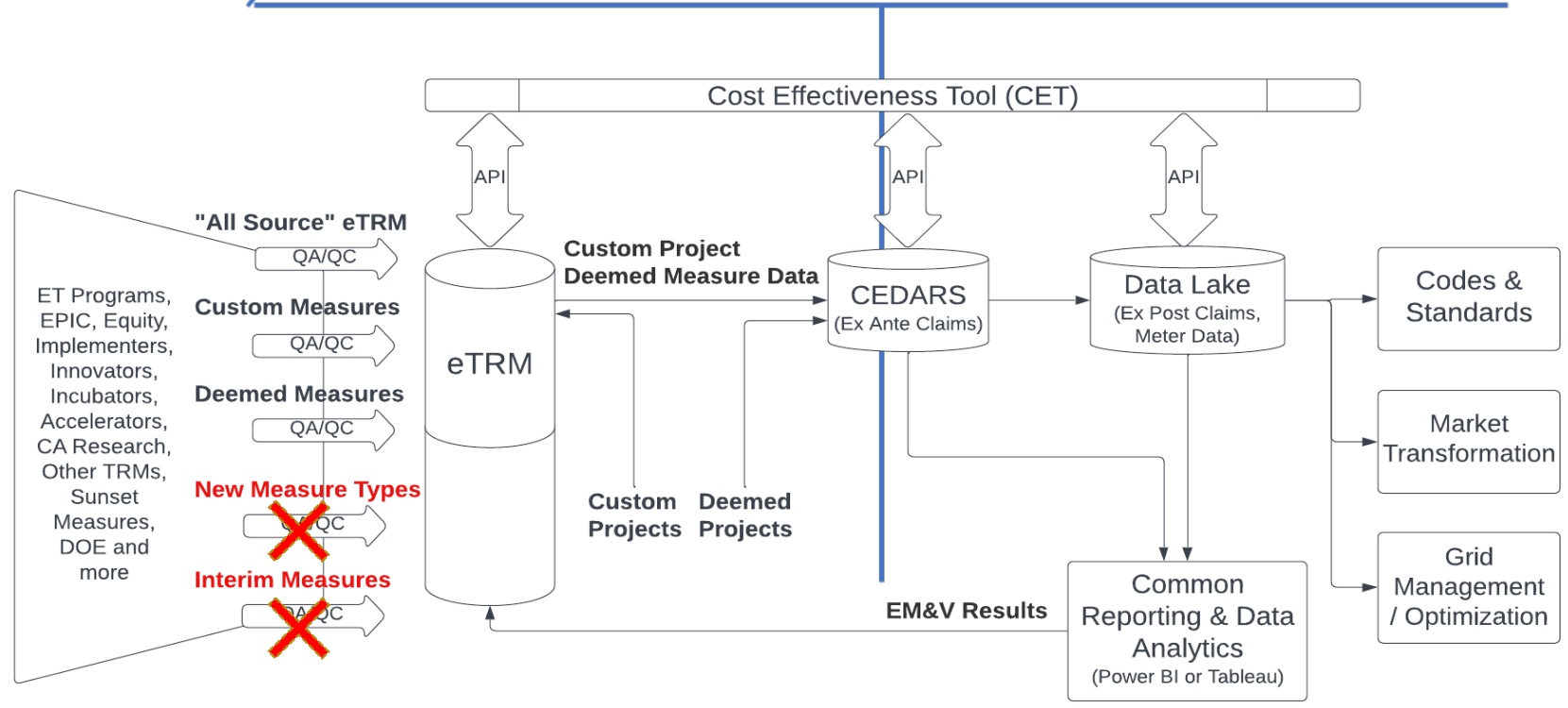


Add New Measure Types, Including Equity

6

Modern, User-Friendly, Integrated User Interface

Integrated Stakeholder Advisory Group (through Cal TF)



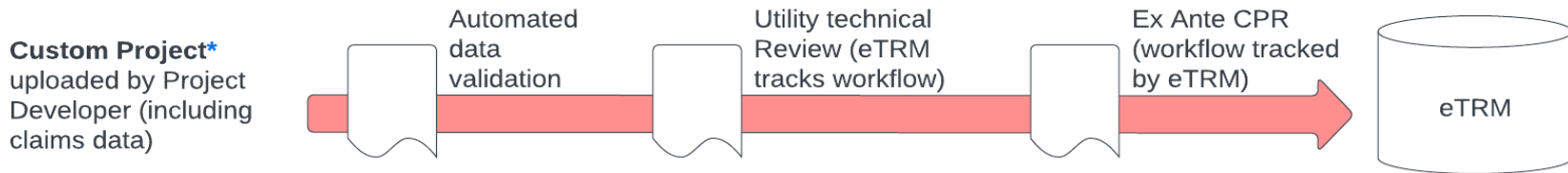
Custom – Multiple Opportunities

7

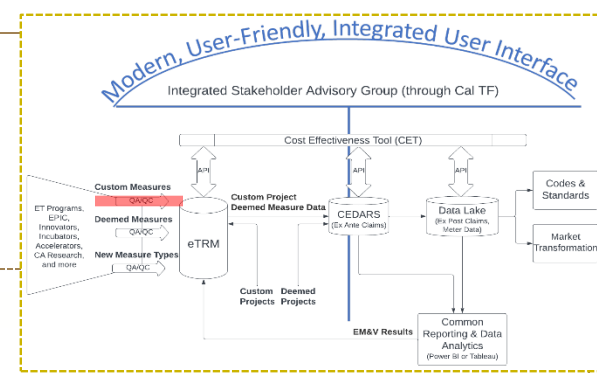
Modern, User-Friendly, Integrated User Interface

- Web interface includes:
- All custom requirements
 - Statewide tools
 - Guidance documents
 - Training videos

All Custom Projects housed in eTRM, facilitating Ex Ante and Ex Post analysis, reporting and data analysis across projects



- Statewide standardization project nomenclature
- Statewide standardized project template, by Project Type
- Statewide standardized project data collection requirements, by Project Type
- Standardized baseline "look-up" rather than after-the-fact baseline determination



Custom – Multiple Opportunities

8

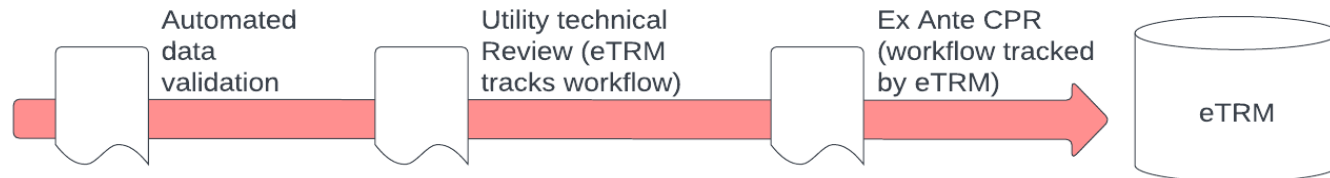
Modern, User-Friendly, Integrated User Interface

Web interface includes:

- All custom requirements
- Statewide tools
- Guidance documents
- Training videos

All Custom Projects housed in eTRM, facilitating Ex Ante and Ex Post analysis, reporting and data analysis across projects

Custom Project*
uploaded by Project Developer (including claims data)



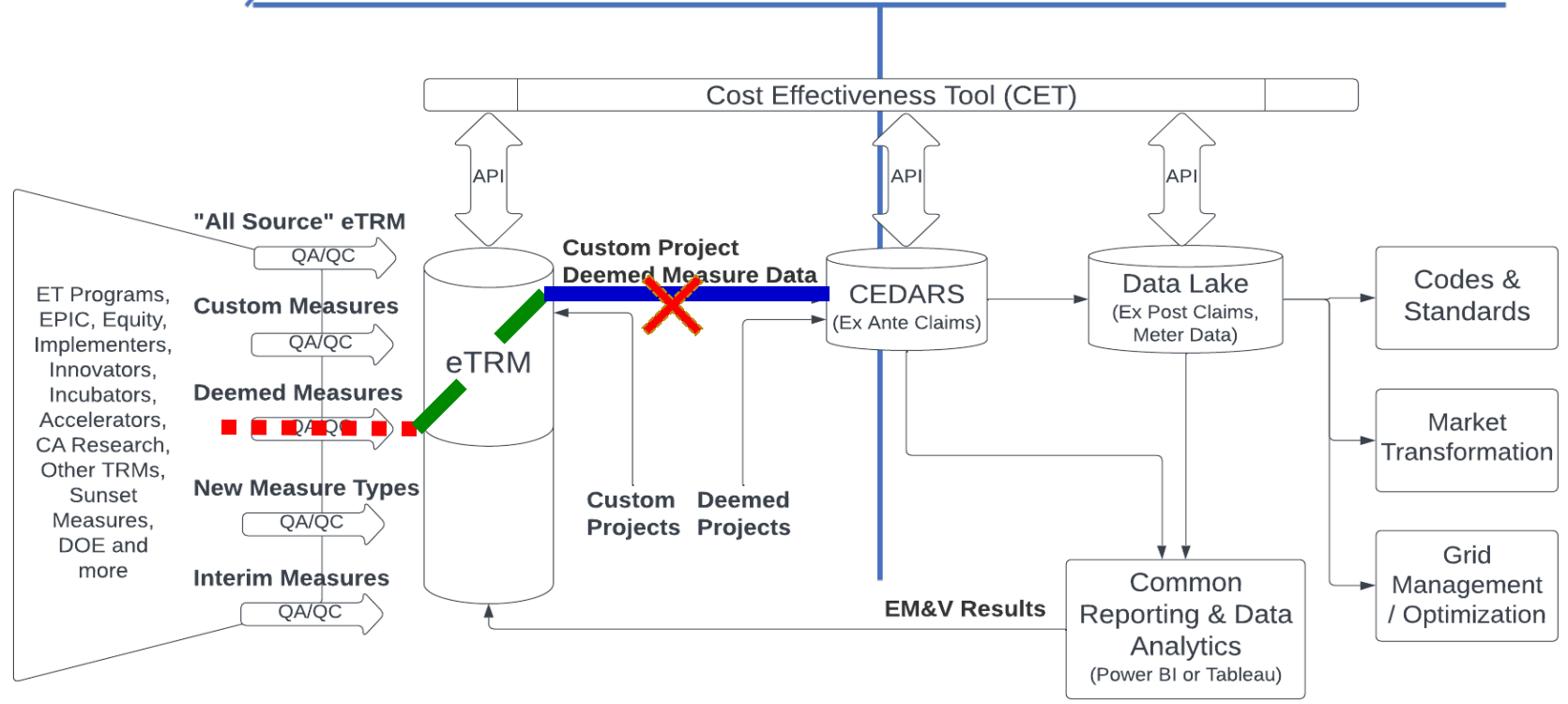
- "Custom Tools Library" for common custom measures/projects
- Transparent tracking through project development and review – Where, How Long?
- Attributions – Why are ex post values so low? Use data to understand
- Custom Reference Library – All Requirements, One Place, Easy-to-Use
- REDUCE COSTS of data administration – so much time spent sharing files, finding data

Deemed – Seamless Data Flow

9

Modern, User-Friendly, Integrated User Interface

Integrated Stakeholder Advisory Group (through Cal TF)

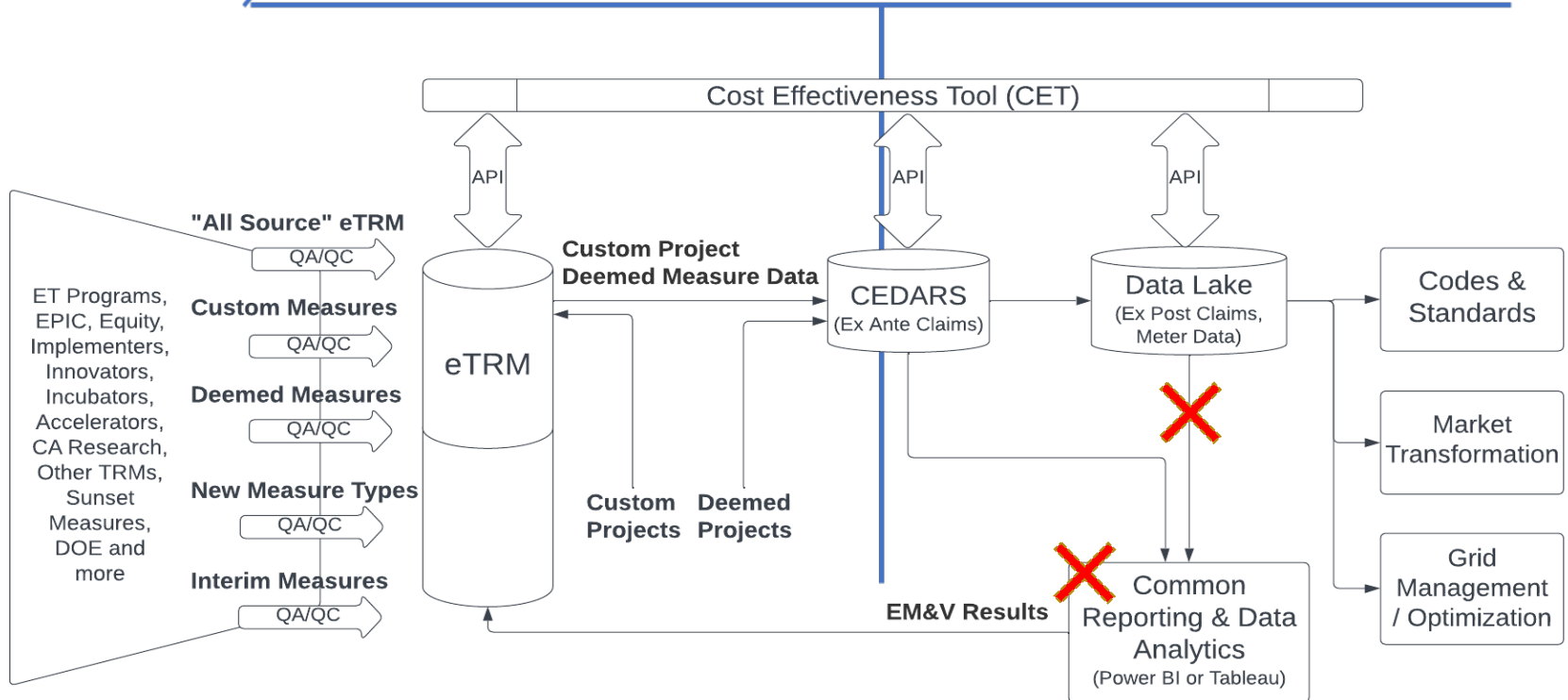


Claims - Make Reported Data Accessible

10

Modern, User-Friendly, Integrated User Interface

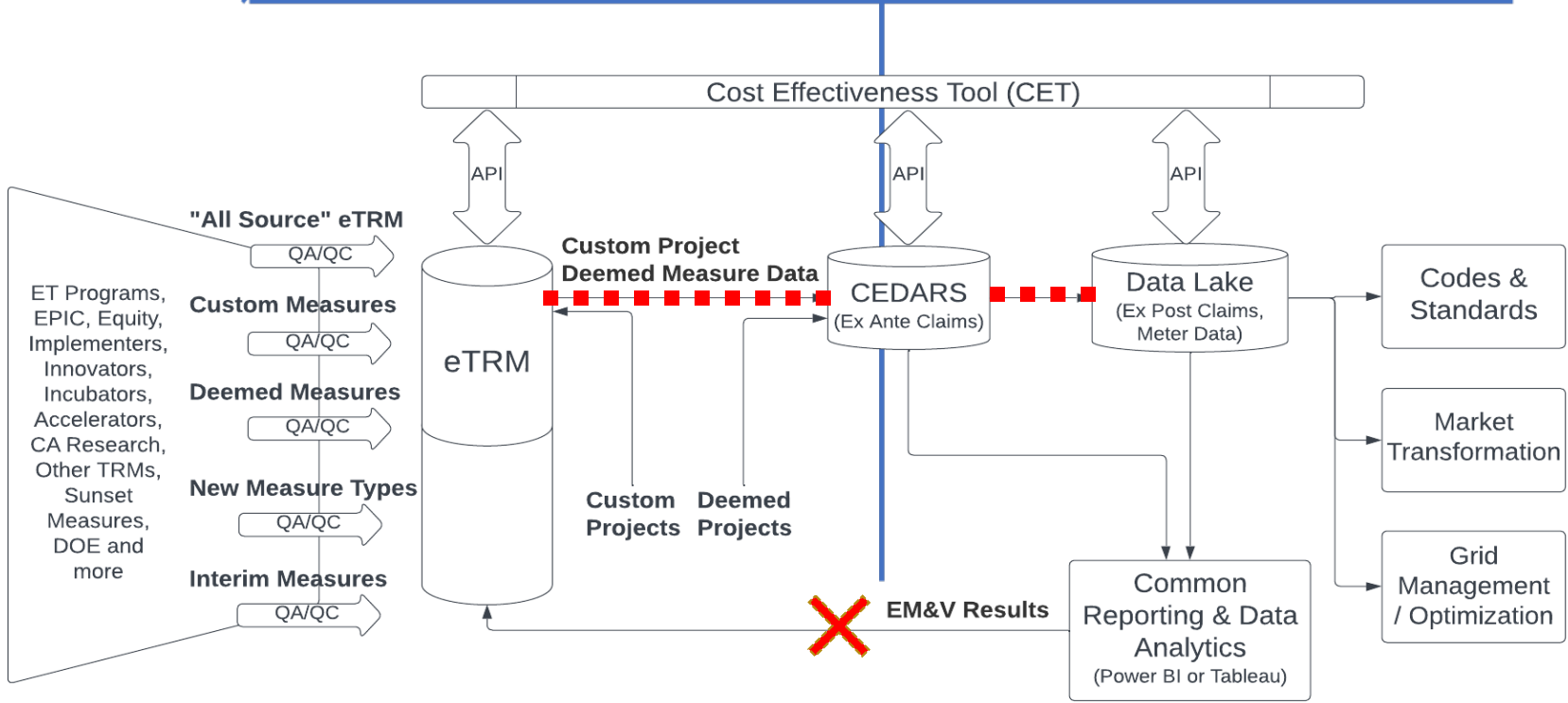
Integrated Stakeholder Advisory Group (through Cal TF)



EM&V - Feed Data Back to Measure

Modern, User-Friendly, Integrated User Interface

Integrated Stakeholder Advisory Group (through Cal TF)

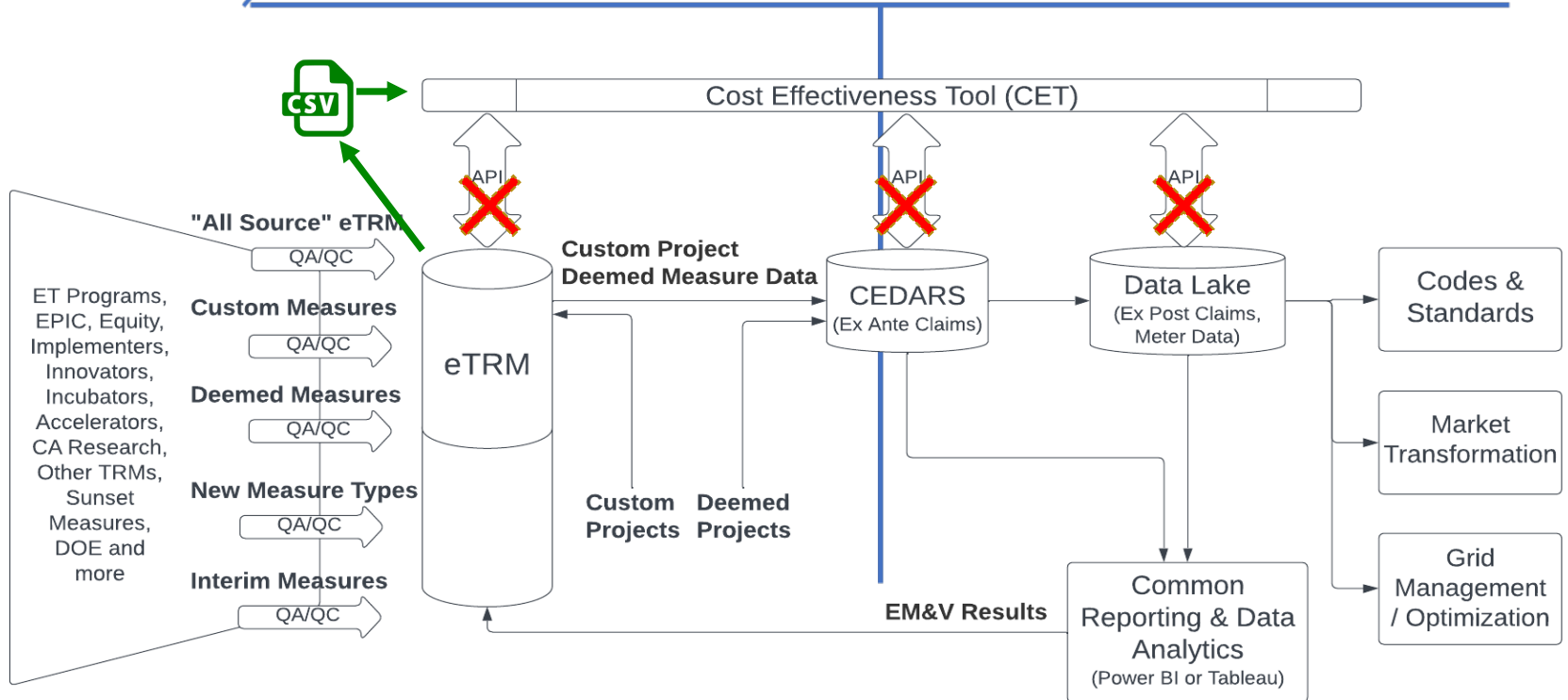


Simplify Access to Cost Effectiveness

12

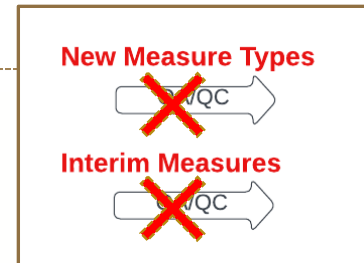
Modern, User-Friendly, Integrated User Interface

Integrated Stakeholder Advisory Group (through Cal TF)



DAC Measure Permutations

13



- Create measures for DAC/EJ/low income applications (new measure permutation type)
- Use existing “market rate” measures, modify relevant parameters to create “DAC” permutations
- Use “DAC” measures whenever measure is implemented in DAC/EJ/low income community (regardless of whether program is considered “low income”)
- Funding should be able to come from EE, with consideration of low income program funding as well

Data Analytics

- **Enable Data Analytics:** Allow appropriate data access (preserving PII) throughout measure journey for data analysis using commercially-available tools
 - ❑ PowerBI
 - ❑ Tableau
- **Create and Analyze More Robust Data Sets**
 - ❑ Identify federal, state and commercially available data basis that could be combined with EE/DR data to answer important questions in portfolio and program planning, design, implementation and analysis.

Data Analytics - Examples

15

- **Examples – Key Questions in Equity Space**
 - **Program Penetration:** Track program and measure penetration against DAC, EJ, low-income, other demographics
 - **Program Benefits (Customer):** have low-income communities received benefit commensurate with how much they've paid in to PGC?
 - **Program Benefits (Economic/Trade Allies):** track WHO is doing work in DAC, EJ and low-income communities – is WORK going to under-employed and historically under-represented workers and trade allies
 - ✦ Maybe add vendor through "Measure Property Data"

FINAL THOUGHT

16

- What power would be unlocked to cost-effectively capture savings, including GHG reductions, if market actors had access to meter-level data?

