# Cost Assessment Data Enterprise (CADE) Project

## **CAPE Vision for**

NDIA's Program Management Systems
Committee (PMSC)

January 2014

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OST ASSESSMENT & PROGRAM EVALUATION

## Agenda

- Objectives
- Government-Industry Cooperation Opportunities
- History Analysis Evolution
- Today's Process
- Vision Total Analyst Access
- Incs 1.0 (Jan '14) & Incs 2-5
- Current Collaboration
- Industry Ideas



## **CADE Objectives/KPPs**

OSD CARE

#### Improve Analyst Productivity

- Increase output per unit time
- Provide near real-time access to data, more data, and less burden on the analyst to retrieve and process
- Reduce time for analyst to climb the program familiarization learning curve

#### Effectiveness

- Enable more comprehensive assessments
- Gain insight from previous analysts
- Facilitate telling the program's "story", holistic analysis

#### Data Quality and Reporting Compliance Improvement

Includes all the Department's cost data - both EVM and CSDRs

#### Source Data Transparency



# Opportunities for Government-Industry Cooperation

#### Contractor/Government Implementation Efficiency

- Mechanize and automate data transfer
- Reduce errors
- Reduce down-the-line questions
- Improve contractor-to-government communication and insight

#### • CADE: The Department's Unified Initiative to Collect, Organize and Use Data

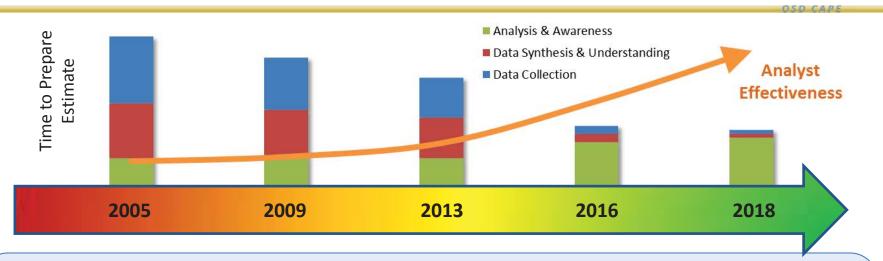
- We'll have useable data in one place for all government analysts to use
  - Today there are 4-6 or more offices collecting, normalizing, reviewing, storing cost data at one time -- this happens at every major review
- Collect it only once!

#### Access to Your Contractor Data

- Near real-time access to data, and less burden on the analyst to retrieve and process
- Easily check if the data is showing up correct
- See how the government is looking at your data



## **Analysis Evolution**



#### Data Sources

- Program OfficeDACIMS
- DACIN
- SARs
- DAES
- Contractors
- Service O&S
- Data Libraries
- Colleagues Network

- EVM-CR
- DACIMS
- DAMIR
- Contractors
- Contractor
- Service O&S
- Data Libraries
- EVM Visual Display
- DCARC Bulk Download
- DAMIR
- Contractors
- Service O&S
- Data Libraries

- CADE Total Access
- Service O&SData Libraries

• CADE Total Access 2.0





**Manual Entry** 



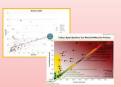
Cut & paste



Automated Entry Manual Analysis



Automated analytics



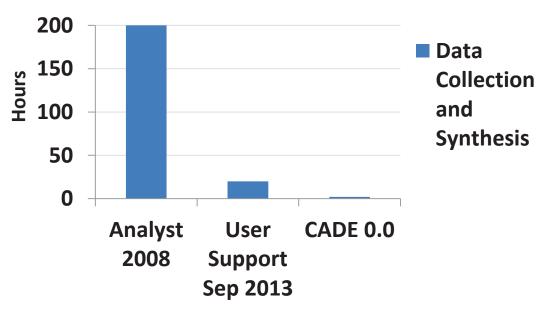
Complete, seamless knowledge sharing



## **Today's Process**

OSD CAPE

#### **Time for CPR Data Collection and Syntheses**



#### Analyst in 2008:

200 hours, typing in by hand selected data over time

#### **User Support Sep 2013:**

20 hours to bulk download and format ~40 contracts

#### **CADE 0.0**:

Retrieve data from 40 contracts over time within 2hrs

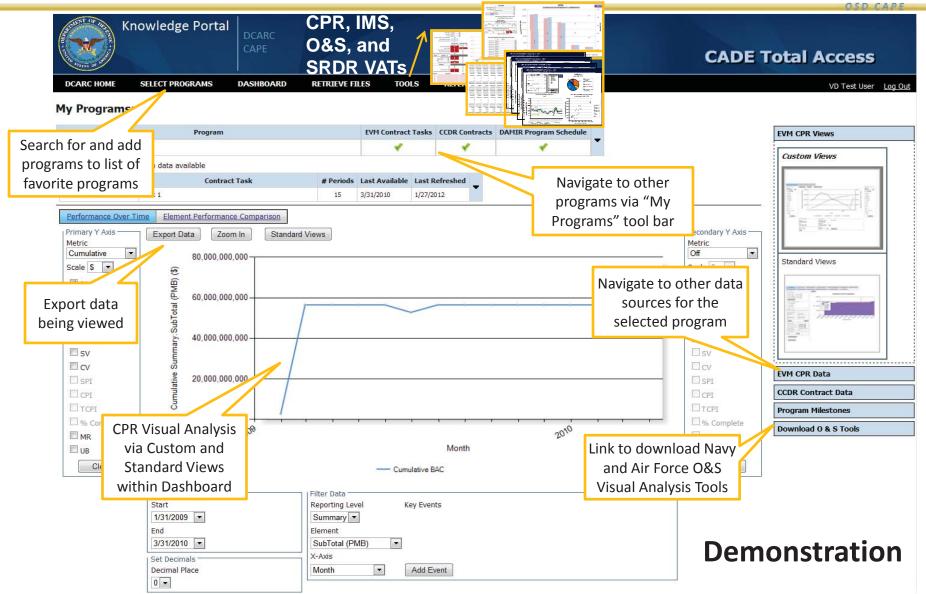


## CADE Vision of the Future: Total Analyst Access

OSD CAPE **Knowledge Portal CADE Total Access** PROGRAM SEARCH DASHBOARD SOURCE DATA **TOOLS CONTACT US** VD Test User Log Out authoritative data sources USS Voyager SEARCH Advanced Search 'lapse Widgets > **USS Voyager Concept CCDR** 0&S **USS Vovager** USS Vovager Class Terminal Program View in DAMIR **USS Vincent** RDT&E: \$14,268N **USS Vantage** Seamless integratior Procurement: \$7.628M Units: Export Data Zoom In Select View: Milestones Set Thresholds Program Milestones from DAMIR Independent EAC Growth for Total Milestone APB Ojb. APB Thres. as of Date: 4/22/07 Concept Dem... Jul. 2012 Dec. 2012 Apr. 2013 High Growth: MS II/B Feb. 2014 May 2013 May 2013 \$140,000,000 Low Growth: View More Independent EAC **Key Program Events** \$120,000,000 Reporting Level: 1 Cey Events list maintained by Community Element: Total Mar. 2013 - LM closes LA ops Performance Index: 3 Month \$100,000,000 Oct. 2012 - Dev. APB #3 Sept. 2012 - New PM CPI Weight SPI Weight Jun. 2011 - First Flight **€**80,000,000 0.25 View More Forecast **CADE Community Knowledge** \$60,000,000 Y-Axis: Dollars 4 Analysts have been assigned to this program. X-Axis: Adj. % Complete BDopkeen shared a PowerPoint. Forecast Metric: Independent EAC \$40,000,000 KHazel posted a link Forecast Start: 22.9% BDopkeen posted a note Forecast End: 77.1% ELofgren shared an Excel Document. \$20,000,000 ✓ Linear View More Add New Log Linear Planned End Date: 09/24/2010 **CCRL Search** 0% Override Contractor Planned End Date 100% references pertain to this program. On/Off Enter End Date: 'Voyager Technical Documentation" Independent EAC Forecast Basis Briefing to Under Secretary for"... · · · · · Log-Linear Forecast - Linear Forecast - 50% Growth Threshold - 25% Growth Threshold 'CER for Voager Development"... >LHusband: "Great CER w/ data visibility"... View More **External Links** Clear Milestones/Events Opens website in new tab Defense Cost and Resource Center (DCARC) Data Warehouse DAMIR (AT&L)

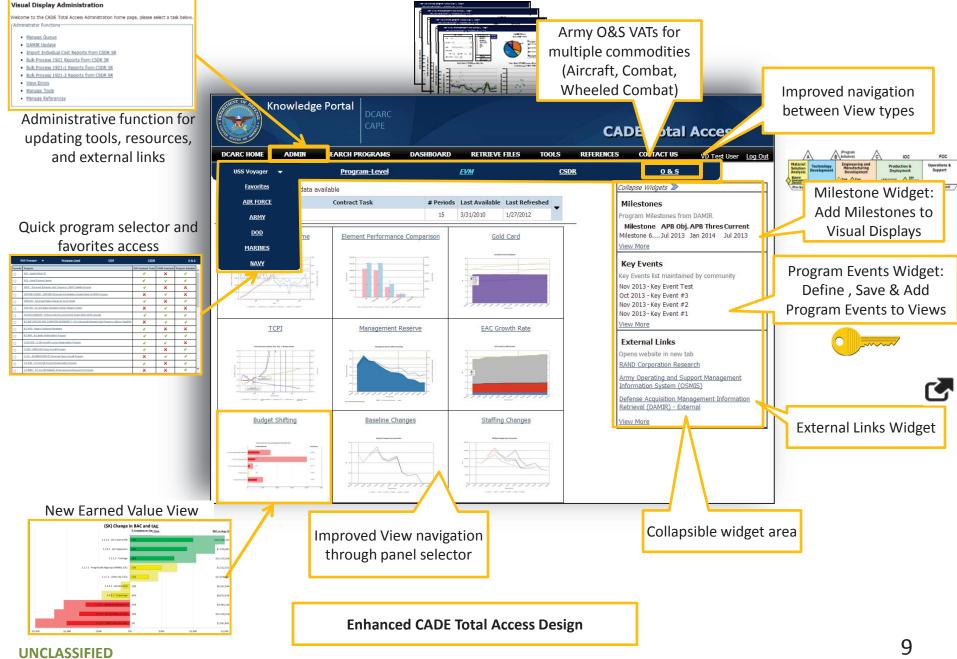


## **CADE Increment 0**

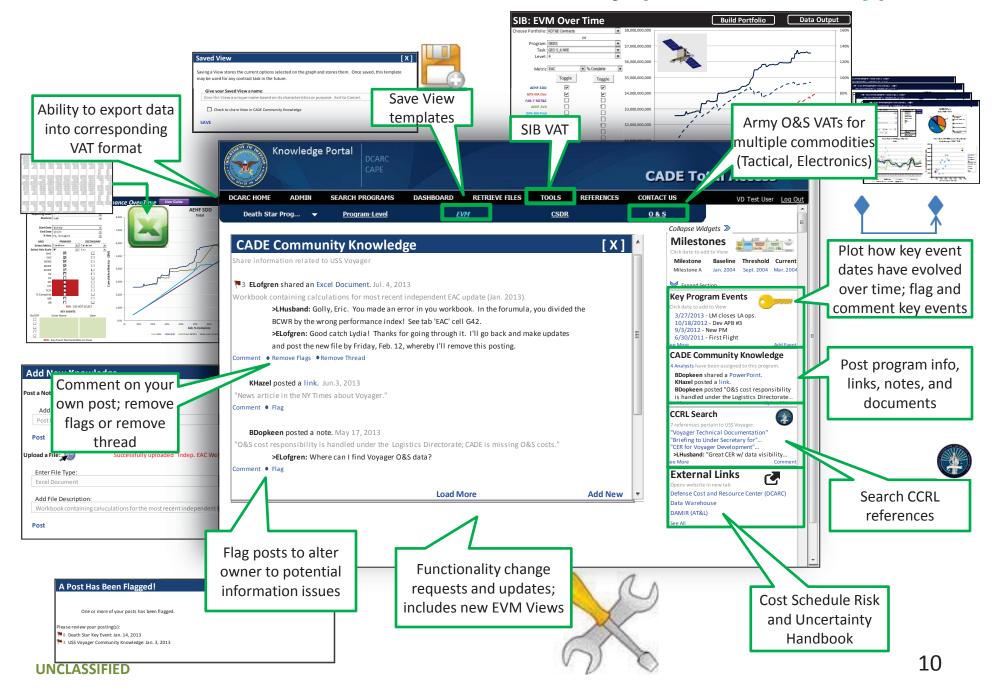


#### **Increment 0.5 – New Functionality (November)**

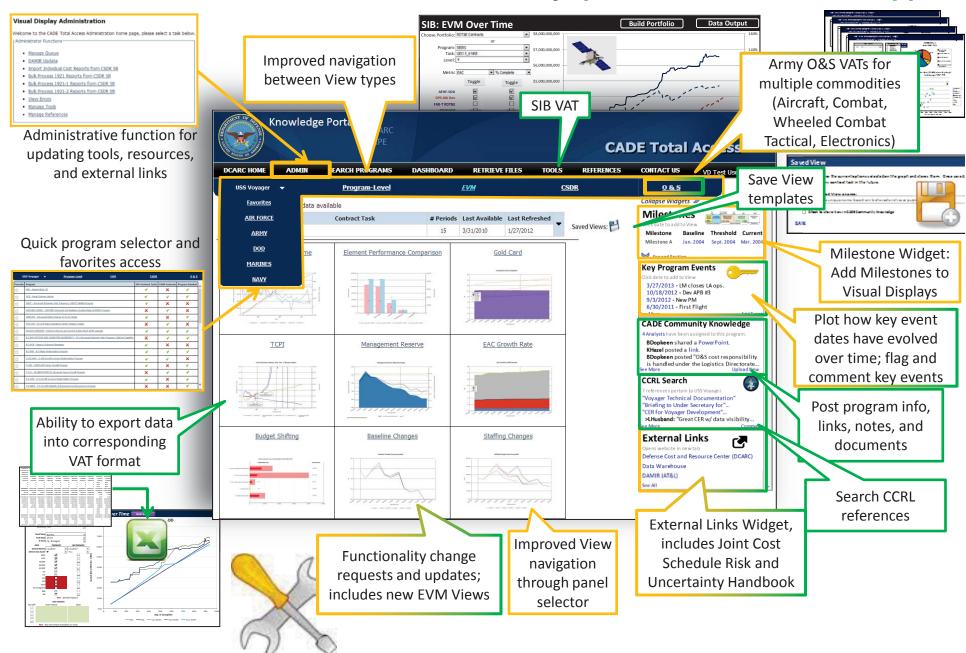




### Increment 1.0 – New Functionality (End of January) NCLASSIFIED

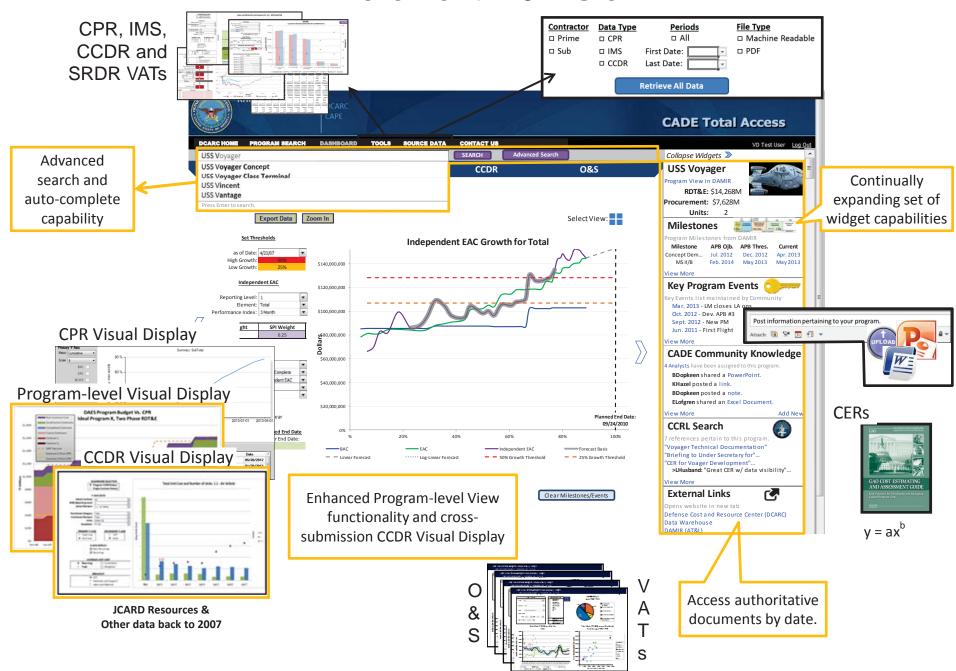


#### Increment 1.0 – New Functionality (November / February) Increment 1.0 – New Functionality (November / February)



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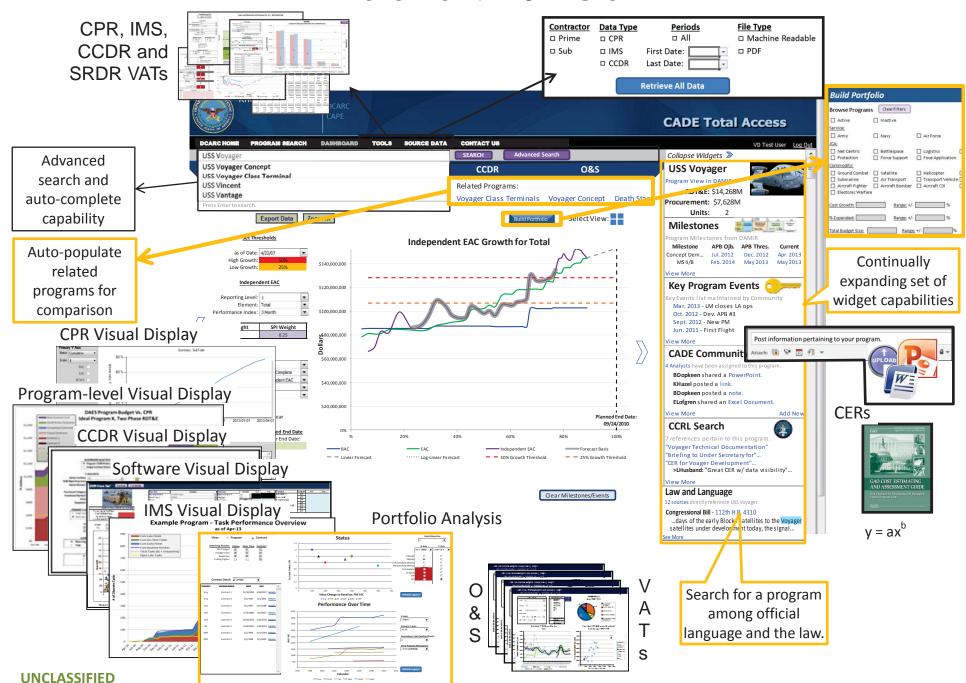
#### **Increment 2.0 Vision**



#### **Increment 3.0 Vision**



#### **Increment 4.0 Vision**





#### **Current Government CSDR Collaboration**

OSD CARE

#### Cross-Agency Working Groups to Improve CSDRs:

1921, -1, -2: Duncan Thomas, NCCA

1921-3s: Mike Biver, CAPE

**1921-4s**: Tom Henry, CAPE

**SRDRs: Ranae Woods, AFCAA** 

**CCDR Tech Data Reporting: Facilitating** 

**Commodity Groups' Efforts: Greg Hogan, AFCAA** 

• Commodity Leads: Distributed Across all 3 Services

#### **Office Collaboration:**

NCCA JCARD and CCRL

**NCCA** leadership discussion

MDA Consolidated Cost Research

**Working Group** 

Army JIAT/ACDB

**DASA-CE Visit** 

AFCAA AFCAA joint effort on CADE OpYr1

**Aviation CIPT, Missile Database** 

**Contracts Database** 

AT&L DAVE (DAMIR, AIR, Kaleidoscope)

#### **Service POCs:**

Army: Sean Vessey sean.d.vessey.civ@mail.mil

Navy: John Fitch john.fitch@navy.mil

Air Force: Tom Newberry thomas.newberry@pentagon.af.mil

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## Only the Beginning of Working Together...

OSD CARE

#### Where are Your CSDR Preparation Costs Incurred?

- Give us ideas on how we can help you save money:
  - Let's leverage the modern financial systems you have to improve this
  - We don't want to spend money on you recording data we don't need
  - We don't want to spend money on our side to develop a way to pull, store and visualize your data we don't need

#### Over to You -- Help Us Make Government More Efficient

- Can you offer cost cutting ideas without sacrificing oversight?
- What are some ideas that will help you save costs?

Invitation: Please come back to us at the spring CSDR working group to brief us on your ideas