



**Project Controls Expo – 16<sup>th</sup> Nov 2016**  
**Emirates Stadium, London**

**Analyze Smarter with**  
**Deltek wInsight**

# About the Speaker

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## Jimmy Malik, PMP, MSTM

- Jimmy Malik is a PPM Software Solutions Engineer (both Pre-Sales and Delivery) at Deltek. He has 12 years of experience in the implementation of Project Management practices, specifically 8 years focused on EVM implementations. He has worked in various industries, (e.g. GovCon and Commercial) implementing project management software solutions. Over the years, Mr. Malik has helped clients improve their project management capabilities associated with planning, cost estimating, risk management and data analytics. In his current role, he works closely with various internal groups such as Product Development, Product Marketing, Performance Testing and Customer Support to create innovative solutions that fit the needs of a diverse global client base.

# About the Topic

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## Outline

- What is Deltek wInsight Analytics?
- Benefits
- Underlining Data Model
- Dashboards

# What is wInsight Analytics?

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- ❑ Deltek's solution to intuitive analysis of project performance data, producing informative dashboards and reports that scale for the entire team
- ❑ Data is abundantly accessible with just a few mouse clicks
- ❑ Utilizes data discovery technology to quickly move across the data in all directions rather than a predetermined path, quickly highlighting issues and discovering audit vulnerabilities before they become a problem
- ❑ Easily share Project/Program/Portfolio information with dynamic dashboards on any device

# Benefits for Individual Users

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- CAM's/Analysts/PM's
  - Spend a fraction of the time you are spending now looking at report after report
  - Spend time analyzing and adding value not just compiling data
  - Easily create your own charts/tables without being an IT expert
  
- Executives/Management
  - Instantly get visibility across projects to pinpoint the issues
  - Not only across contracts but slice and dice by organization
  - Easy to use for anyone, minimal training
  - Don't wait for information get it right away
  - Simplifies EV concepts so that the problems can be easily spotted
  
- IT
  - Confidence in a secure/scalable system for the users
  - Manage data governance rather than coding report after report

# The Evolving BI Landscape

## Business users move fast



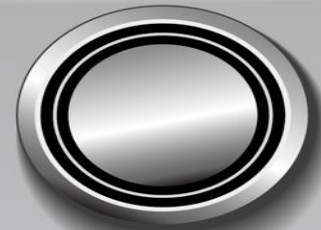
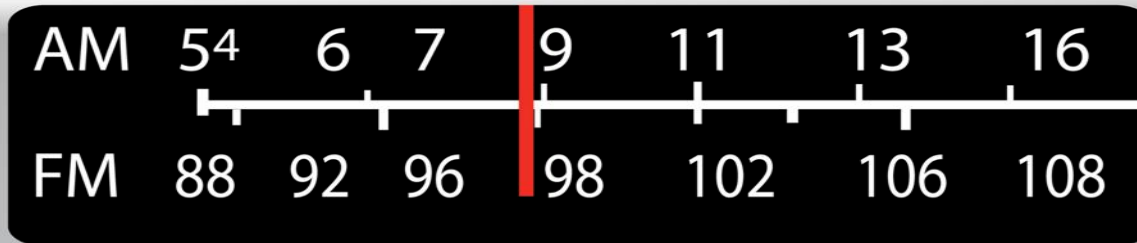
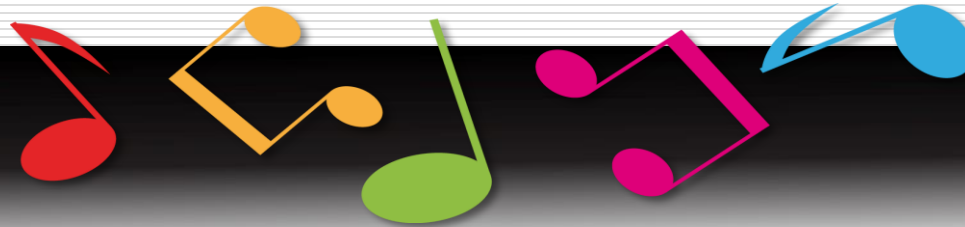
- Ease of use
- Flexibility
- Interactive
- Self service
- Any device

## IT needs to retain control over data

- Sophisticated business users
- Deliver quickly
- Deliver relevant data
- Ensure security and scalability



# Music Analogy



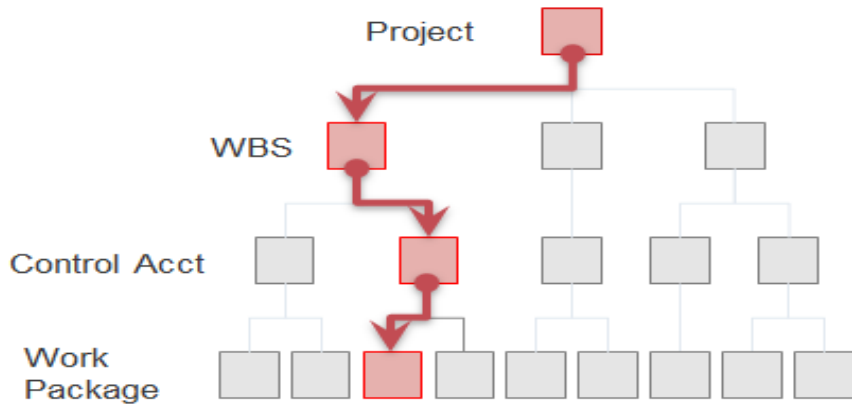






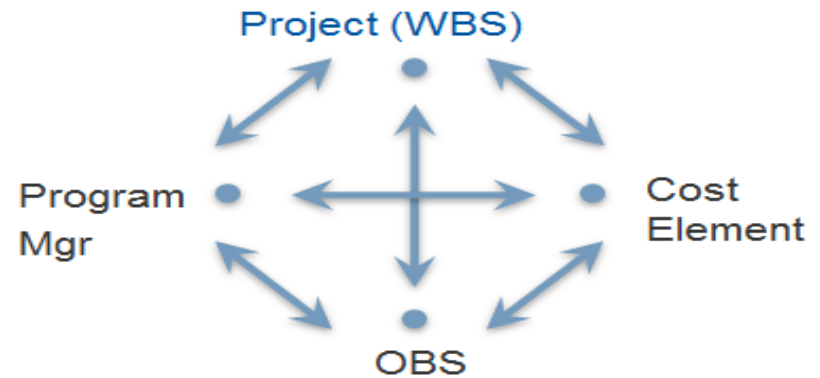


# Associative Data Model



## IT Driven

- Linear, pre-defined thinking
- Insights missed in hidden data
- Months to change
- Data-centric



## User Driven

- User decides where to start
- All data, always visible
- Minutes to change
- Insight driven

# See Your Project the Way You Want

Master Dashboard
Data Validation
Emerging Issues
Detail Analysis
Element of Cost
EAC Realism
Future Forecast
Custom Validation Dashboard

**Contract**

- EAGLE
- ARINC\_A
- Battleship\_A
- Battleship\_B
- Battleship\_C
- BOOMERANG
- COBTRAIN
- IDIQ\_B
- IDIQ\_C

Period:

Cumulative  Current

Amount  Percent

**Data Options**

Structure:  WBS

Unit:  Dollars

Exclude Indirect:

**Unindented Elements**

- 1 - EAGLE
- 1.1 - AIR VEHICLE
- 1.1.1 - INTEG ASS'BLY
- 1.1.2 - AIRFRAM SEGMENT
- 1.1.2.1 - COMP ASSY
- 1.1.2.1.1 - INTEGRATION
- 1.1.2.1.2 - TEST SUPPORT
- 1.1.2.1.3 - SEALING
- 1.1.2.1.4 - RADAR ABS MATL
- 1.1.2.2 - STRUCTURE
- 1.1.2.2.1 - NOSE CONE
- 1.1.2.2.2 - UPPER AIRFOIL
- 1.1.2.2.3 - LOWER AIRFOIL
- 1.1.2.2.4 - EXHAUST FLANGE
- 1.1.2.2.5 - ELEVONS

**Additional Filters**

CAM:

User Filters:

**Contract: EAGLE for 06/30/08** [Help](#) [Show Contract Info](#)

Sort View - Cumulative Amount    Indented Pivot View - Cumulative Dollars

**Sort View - Cumulative Amount**

Level 3	SV	CV	VAC	SV	CV	VAC
1.1.1 - INTEG ASS'BLY	8,000.00			98,000.00		-500,000.00
1.1.2 - AIRFRAM SEGMENT	-4,867,000.00			-5,268,000.00		-3,000,000.00
1.1.3 - ENGINE SEGMENT	-20,000.00			1,057,000.00		-500,000.00
1.1.4 - NAV/GUIDANCE	256,000.00			2,295,000.00		-2,100,000.00
1.1.5 - PAYLOAD EQUIP	15,000.00			940,000.00		0.00
1.1.6 - DT EQUIP	27,000.00			-56,000.00		-500,000.00
1.1.7 - OT EQUIP				0.00		0.00
1.2.1 - A/C INTEG				-80,000.00		-108,000.00
1.2.2 - SHIP INTEG				-461,000.00		-291,000.00
1.4.1 - TNG EQUIPMENT				-67,000.00		237,000.00
1.4.2 - PERSONAL TNG				-222,000.00		-502,000.00
1.6.1 - MOCKUPS				-1,079,000.00		-1,145,000.00
1.6.2 - TEST FACILITIES				-1,480,000.00		-1,708,000.00
1.8.1 - DATA MGT				-77,000.00		-37,000.00
1.8.2 - DATA				-29,000.00		3,000.00

**Bottom 5 Cumulative SV**

Level 3	SV	SV
1.1.2 - AIRFRAM SEGMENT	-4,867,000.00	
1.6.2 - TEST FACILITIES	-1,480,000.00	
1.6.1 - MOCKUPS	-1,079,000.00	
1.2.2 - SHIP INTEG	-461,000.00	
1.4.2 - PERSONAL TNG	-222,000.00	

**Top 5 Cumulative SV**

Level 3	SV	SV
1.1.4 - NAV/GUIDANCE	256,000.00	
1.1.6 - DT EQUIP	27,000.00	
1.1.5 - PAYLOAD EQUIP	15,000.00	
1.1.1 - INTEG ASS'BLY	8,000.00	
1.1.7 - OT EQUIP	0.00	

**Bottom 5 Cumulative CV**

Level 3	CV	CV
1.1.2 - AIRFRAM SEGMENT	-5,268,000.00	
1.6.2 - TEST FACILITIES	-1,708,000.00	
1.6.1 - MOCKUPS	-1,145,000.00	
1.4.2 - PERSONAL TNG	-502,000.00	
1.2.2 - SHIP INTEG	-291,000.00	

**Top 5 Cumulative CV**

Level 3	CV	CV
1.1.4 - NAV/GUIDANCE	2,295,000.00	
1.1.3 - ENGINE SEGMENT	1,057,000.00	
1.1.5 - PAYLOAD EQUIP	940,000.00	
1.4.1 - TNG EQUIPMENT	237,000.00	
1.1.1 - INTEG ASS'BLY	98,000.00	

**Bottom 5 Vac**

Level 3	Vac	Vac
1.6.1 - MOCKUPS	-39,300,000.00	
1.6.2 - TEST FACILITIES	-25,650,000.00	
1.1.2 - AIRFRAM SEGMENT	-3,000,000.00	
1.1.4 - NAV/GUIDANCE	-2,100,000.00	
1.1.7 - OT EQUIP	-500,000.00	

**Top 5 Vac**

Level 3	Vac	Vac
1.1.5 - PAYLOAD EQUIP	0.00	
1.2.1 - A/C INTEG	0.00	
1.4.1 - TNG EQUIPMENT	0.00	
1.4.2 - PERSONAL TNG	0.00	
1.8.2 - DATA	0.00	

**Bottom to Top Cumulative SV**

**Cumulative SV % and CV % Distribution**

**BCWP to Total Budget Comparison**

Unit Scale: Ones

Selected Related Unrelated

Worse than -15%
Between -15% and -5%
Between -5% and 10%
Better than 10%
↑ Change Threshold 10%

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Build: 7.0.1700.400

QlikView **Deltek** Know more. Do more.™

# Built-In Data Validation

Period

**Validation Type**

- Informational
- Warning
- EAC unrealistic
- Error

**Validation Check**

- ACWP charged to unopened task
- ACWP equals BAC
- ACWP exceeds BAC
- ACWP increase without BCWP increase
- ACWP on Completed work
- BAC change
- BAC change without EAC change
- BAC or BCWP inconsistency
- BCWP increase without ACWP increase
- Completed work with ETC

**Data Options**

Structure

Unit

**Element Type**

Lowest Elements

Control Account

Work Package

**Control Account**

- 1.1.1 - Primary Require
- 1.1.2 - Initial Design
- 1.1.3 - Secondary Desig
- 1.1.4 - Component Build
- 1.1.5 - Test and Integr
- 1.1.6 - Compatibility
- 1.1.7 - Mechanical
- 1.2.1 - Primary Require
- 1.2.2 - Initial Design
- 1.2.3 - Secondary Desig
- 1.2.4 - Component Build

**Additional Filters**

Contract

CAM

User Filters

**Contract: LJ1 for JUL 2015** [Help](#)

**Alerts By WBS Levels**

WBS Level 1	Data Validation Check	# of Alerts
0 - Little Jet	ACWP charged to unopened task	12
	ACWP equals BAC	7
	ACWP exceeds BAC	17
	ACWP on Completed work	9
	BAC change	48
	BAC or BCWP inconsistency	1
	Completed work with ETC	17
	CPI-TCPI < -0.05	12
	CPI-TCPI > 0.05	18
	EAC change	48
	EAC not within range of CPI and CPI*SP...	36
	No BAC	16
	No EAC	1


**Alerts By Control Account**

Type	Data Validation Check	Element	# of Alerts
Error	ACWP on Completed work	1.9.3 - Support 3	1
		2.1.1 - Heavy Equipment	1
		WF231D - Phase 1	1
		WF231E - Phase 2	1
		WF231F1 - Phase 3	1
		WF241Z - Phase 4	1
		WF242B - Phase 5	1
		WF711I - Secondary D...	1
		WF712C - Initial Design	1
		BAC or BCWP inconsistency	1.7.1 - Peer Review
	1.2.3 - Secondary Desig	1	
	1.3.3 - Secondary Desig	1	
	2.1.1 - Heavy Equipment	1	

**Validation Trending**

Legend:

- Informational
- Warning
- EAC unrealistic
- Error



**Project Controls**  
EXPO

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# Drill into Trends

Master Dashboard | Data Validation | **Emerging Issues** | Detail Analysis | Element of Cost | EAC Realism | Future Forecast | Custom Validation Dashboard

Period: [ ]

**Data Options**  
 Structure: WBS  
 Unit: Dollars

**Element Type**  
 Lowest Elements  
 Control Account  
 Work Package

**Lowest Elements**  
 1.1.1 - INTEG ASS'BLY  
 1.1.2.1.1 - INTEGRATION  
 1.1.2.1.2 - TEST SUPPORT  
 1.1.2.1.3 - SEALING  
 1.1.2.1.4 - RADAR ABS MATL  
 1.1.2.2.1 - NOSE CONE  
 1.1.2.2.2 - UPPER AIRFOIL  
 1.1.2.2.3 - LOWER AIRFOIL  
 1.1.2.2.4 - EXHAUST FLANGE  
 1.1.2.2.5 - ELEVONS  
 1.1.3 - ENGINE SEGMENT  
 1.1.4.1 - RADAR ALT ELEM  
 1.1.4.2 - POWER SUPPLY  
 1.1.4.3.1 - NP-NAV SYS S/W  
 1.1.4.3.2 - DIG TER (MAP)  
 1.1.4.4 - CMP FLT CTL SYS  
 1.1.5 - PAYLOAD EQUIP  
 1.1.6 - DT EQUIP  
 1.1.7 - OT EQUIP  
 1.1.0 - COM SPT EQUIP  
 1.1.1 - IND FACILITIES  
 1.1.2 - INITIAL SPARES  
 1.2.1 - A/C INTEG

**Additional Filters**  
 Contract: EAGLE  
 CAM: [ ]  
 User Filters: [ ]

### Contract: EAGLE for 06/30/08

**Emerging SV as of 06/30/08**

WBS	SvCur	SvCum	SvCur	SvCum	SvCum Trend
1.1.4.2 - POWER SUPPLY	↓	↓	-192,000..	331,000..	
1.4.1 - TNG EQUIPMENT	↓	↓	-63,000.00	-67,000.00	
1.5 - PEC SPT EQUIP	↓	↓	-13,000.00	-44,000.00	
1.1.4.3.1 - NP-NAV SYS S/W	↓	↓	-118,000..	-223,000..	
1.1.2.2.3 - LOWER AIRFOIL	↓	↓	-25,000.00	-41,000.00	
1.1.2.2.2 - UPPER AIRFOIL	↓	↓	-18,000.00	-32,000.00	
1.1.2.2.1 - NOSE CONE	↓	↓	-30,000.00	-28,000.00	
1.8.2 - DATA	↓	↓	-13,000.00	-29,000.00	
1.8.2 - DATA MGT	↓	↓	-15,000.00	-77,000.00	
1.2.2 - SHIP INTEG	↓	↓	-116,000..	-461,000..	
1.2.1 - A/C INTEG	↓	↓	-54,000.00	-80,000.00	
1.1.3 - ENGINE SEGMENT	↓	↓	-20,000.00	-20,000.00	
1.0 - SITE ACTIVATION	↓	↓	-16,000.00	-16,000.00	

**Emerging CV as of 06/30/08**

WBS	CvCur	CvCum	CvCur	CvCum	CvCum Trend
1.1.2.1.1 - INTEGRATION	↓	↓	-35,000.00	-47,000.00	
1.1.4.2 - POWER SUPPLY	↓	↓	-202,000..	954,000..	
1.4.1 - TNG EQUIPMENT	↓	↓	-11,000.00	237,000..	
1.5 - PEC SPT EQUIP	↓	↓	-16,000.00	-36,000.00	
1.1.4.3.1 - NP-NAV SYS S/W	↓	↓	-80,000.00	-168,000..	
1.1.2.2.3 - LOWER AIRFOIL	↓	↓	-32,000.00	-49,000.00	
1.1.2.2.2 - UPPER AIRFOIL	↓	↓	-12,000.00	-22,000.00	
1.1.2.2.1 - NOSE CONE	↓	↓	-28,000.00	-26,000.00	
1.2.2 - SHIP INTEG	↓	↓	-69,000.00	-291,000..	
1.2.1 - A/C INTEG	↓	↓	-25,000.00	-108,000..	
1.1.6 - DT EQUIP	↓	↓	-24,000.00	-56,000.00	
1.1.3 - ENGINE SEGMENT	↓	↓	-11,000.00	1,057,00..	

\*\*\* Emerging issues are identified by Current Color is red or yellow while Cumulative Color is green or blue.

Cumulative 
  Current 
  6-months 
  12-months

Trending Arrows: [ ] Trending Values: [ ]

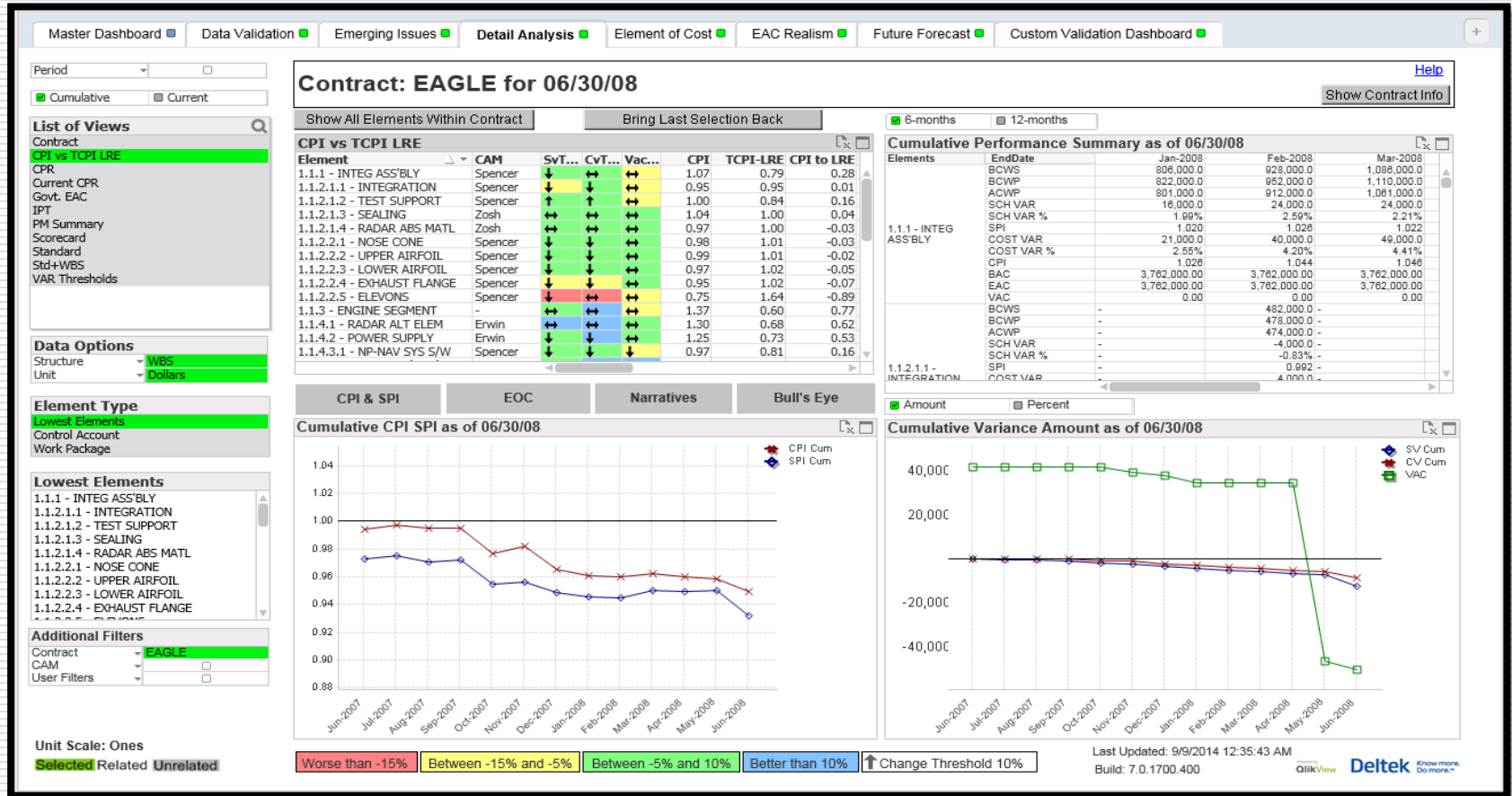
Cumulative By CV Variance	Jul-2007	Aug-2007	Sep-2007	Oct-2007	Nov-2007	Dec-2007	Jan-2008	Feb-2008	Mar-2008	Apr-2008	May-2008
1.1.1 - INTEG ASS'BLY	↑	↔	↔	↔	↔	↓	↔	↑	↔	↑	↔
1.1.2.1.1 - INTEGRATION	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.2.1.2 - TEST SUPPORT	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.2.1.3 - SEALING	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.2.1.4 - RADAR ABS MATL	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.2.2.1 - NOSE CONE	↑	↑	↑	↔	↔	↔	↔	↔	↔	↔	↔
1.1.2.2.2 - UPPER AIRFOIL	↑	↑	↓	↓	↓	↓	↓	↓	↓	↓	↓
1.1.2.2.3 - LOWER AIRFOIL	↑	↑	↓	↓	↓	↓	↓	↓	↓	↓	↓
1.1.2.2.4 - EXHAUST FLANGE	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
1.1.2.2.5 - ELEVONS	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
1.1.3 - ENGINE SEGMENT	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑	↑
1.1.4.1 - RADAR ALT ELEM	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.4.2 - POWER SUPPLY	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.4.3.1 - NP-NAV SYS S/W	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.4.3.2 - DIG TER (MAP)	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.4.4 - CMP FLT CTL SYS	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.5 - PAYLOAD EQUIP	↓	↔	↑	↑	↑	↑	↑	↑	↑	↑	↑
1.1.6 - DT EQUIP	↔	↓	↑	↑	↑	↑	↑	↑	↑	↑	↑
1.1.7 - OT EQUIP	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔
1.1.0 - COM SPT EQUIP	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔	↔

Unit Scale: Ones  
 Selected Related Unrelated

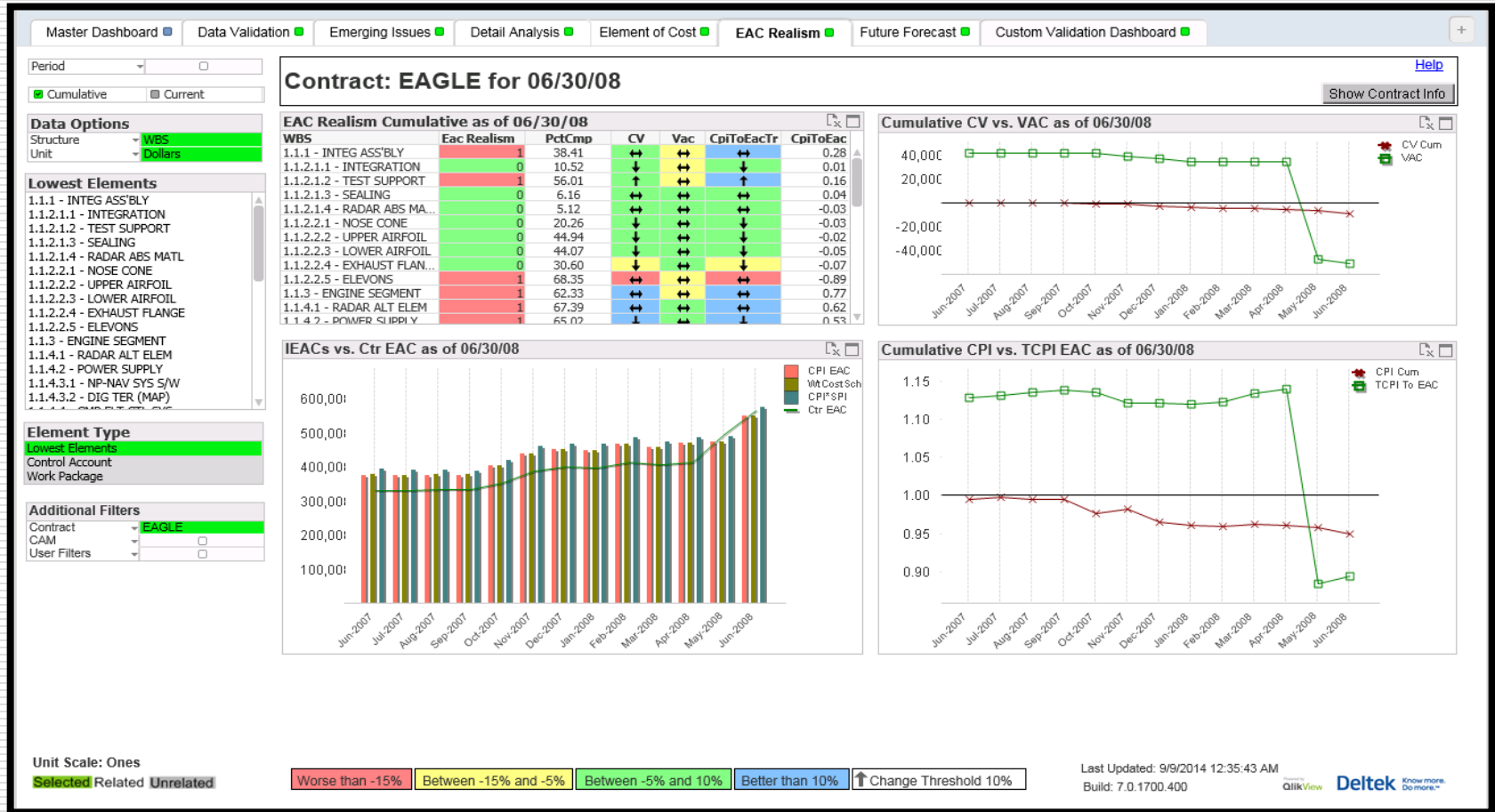
Worse than -15%
Between -15% and -5%
Between -5% and 10%
Better than 10%

Last Updated: 9/9/2014 12:35:43 AM  
 Build: 7.0.1700.400

# Unparalleled Insight into Data Analysis

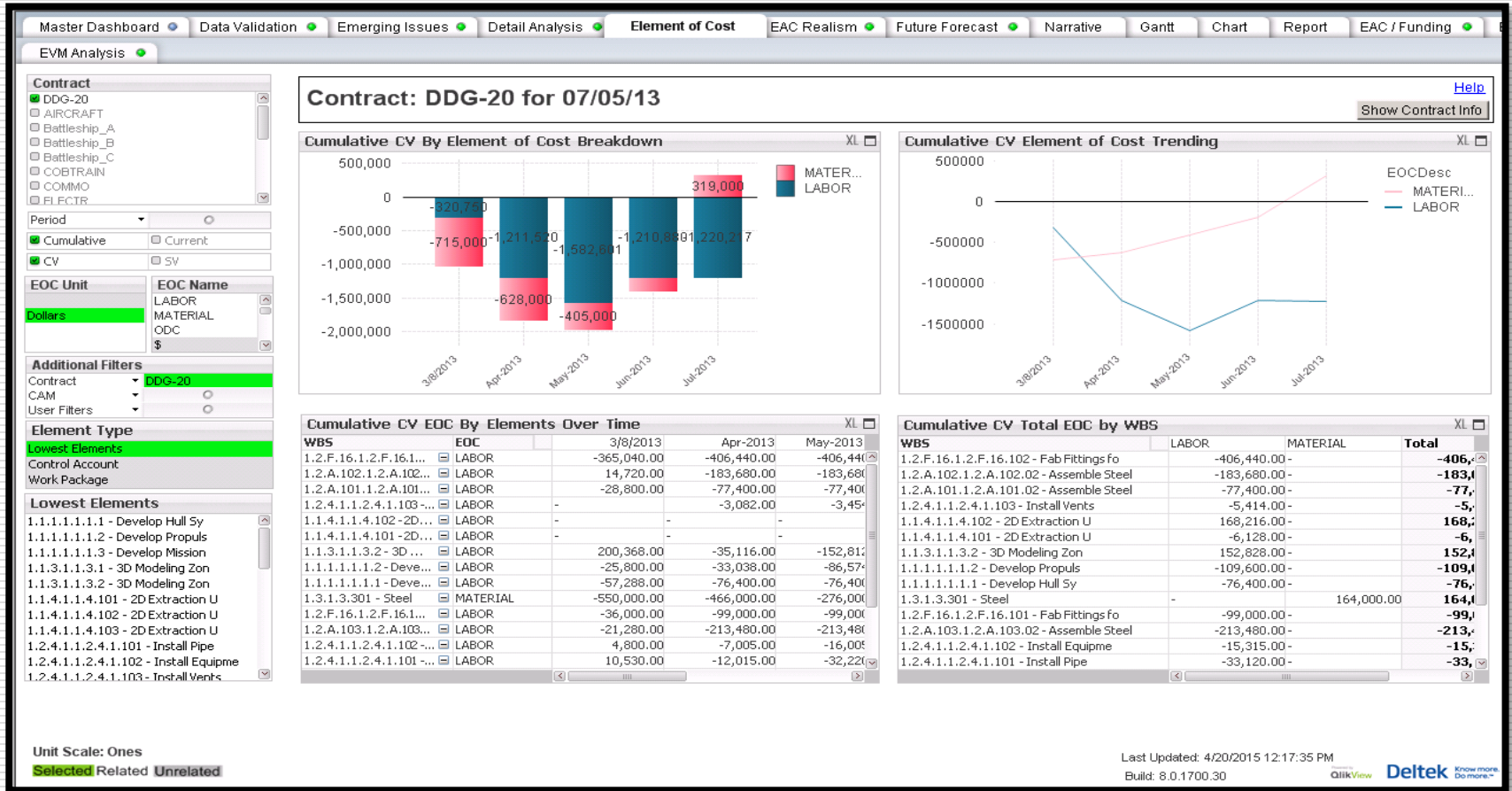


# Confidence in Your Estimates

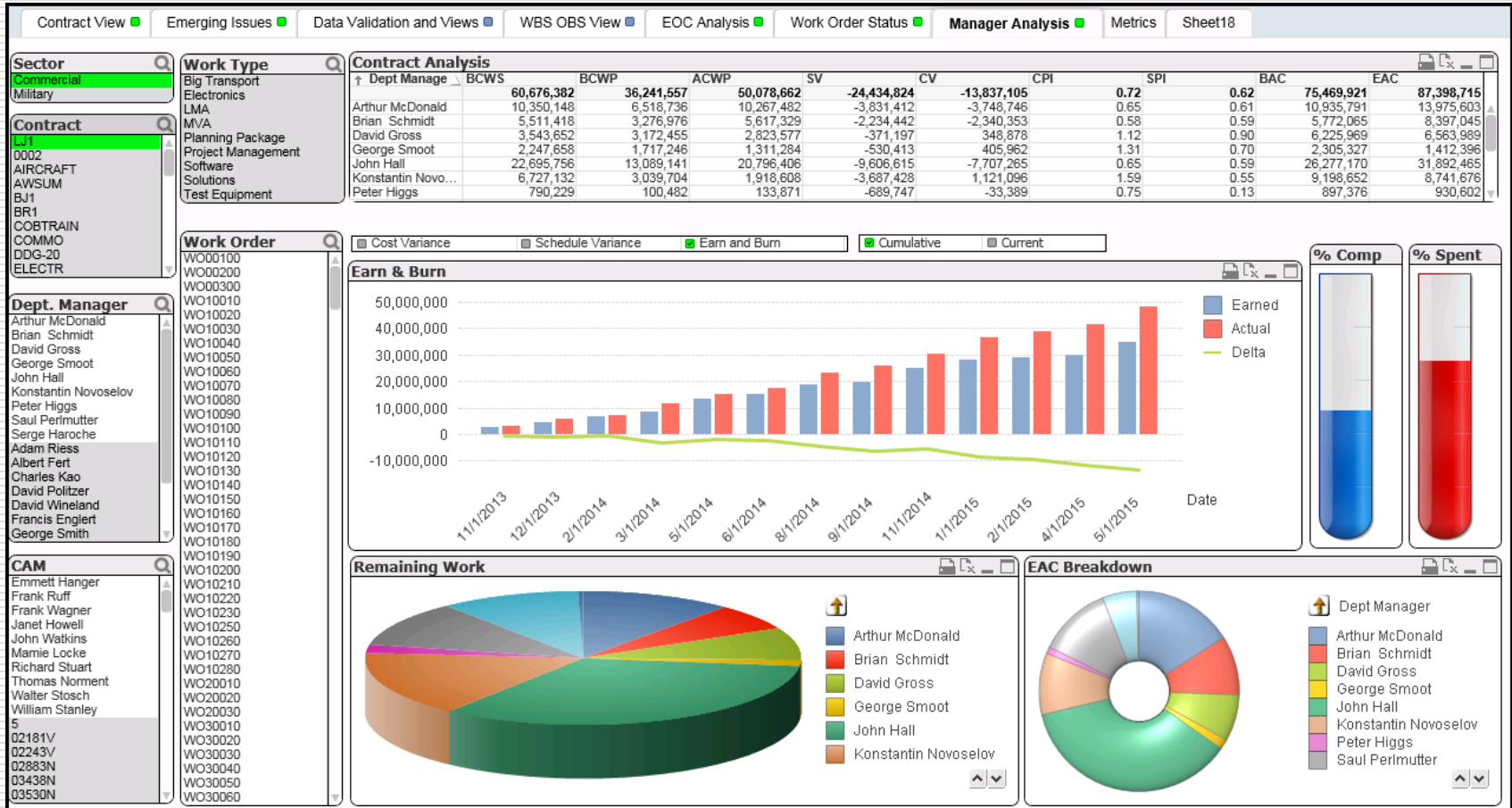




# Understand the Types of Resources Working on the Project



# Manage Your Portfolio



# The Value of wInsight Analytics

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- ❑ Explore and analyze project performance data in a natural, intuitive and efficient way
- ❑ Know your audit vulnerabilities before finalizing your data
- ❑ Discover emerging trends to avoid surprises and allow early intervention
- ❑ Trust your data, with enhanced performance analysis and validation criteria
- ❑ Easily share Project/Program/Portfolio information with dynamic dashboards on any device

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# Q&A