

4-6 October, Nationals Park, Washington DC



How Deltek Can Help Maintain Schedule / Cost Integration

 **Project Controls**
EXPO
Washington, DC - USA

Topics

- Introduction
- Schedule / Cost Integration Overview
- Scheduling Techniques / Approaches
 - And their impact on cost baseline
- Setup vs Monthly Maintenance
- Methods to Improve Quality Data
 - Deltek Touchstone
 - Deltek PM Compass
 - Deltek wInsight
- Q&A

Introduction – Meet the Speaker



Mary Major

Senior Principal Solutions Engineer, Deltek

Mary is a Senior Principal Solutions Engineer at Deltek focusing on Deltek's PPM products. Prior to Deltek, Mary worked 27 years in the Aerospace and Defense industry in various positions within finance, program management and information technology organizations. Mary was the functional expert/system administrator of the PPM suite (Open Plan, Cobra, wInsight and PM Compass) and directed several migrations, upgrades, and implementations. Mary's PPM experience includes EVMS implementation and validation, including System Description design to adoption, user training and customer/DCMA coordination. In addition, Mary was a key IT resource with expertise in various financial aspects of ERP tools – Costpoint and Time & Expense. Mary was a core team member of various Costpoint implementation projects. Mary received a bachelor's degree in Mathematics from Frostburg State University. Mary is currently working towards a master's degree in Business Data Analytics at West Virginia University.

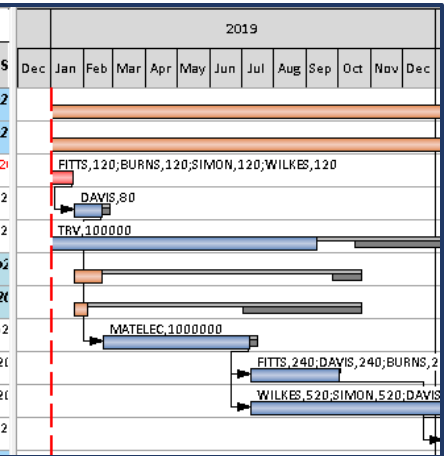
Schedule / Cost Integration Overview

Schedule / Cost Integration Overview

- Start with the schedule
 - Logically connected activities (durations, relationship types)
 - Resource loaded
 - Tied to WBS (scope), OBS (organization) and Control Account Manager (CAM)
 - Other attributes important to the program or company
 - IMP
 - SOW
 - Reporting structure, CWBS, Internal WBS
- Use the schedule to build the cost baseline
 - Deltek Cobra has direct integrations to Deltek Open Plan, MS Project (Professional and Server), Oracle Primavera P6 and MS Excel (for non-schedule generated data, e.g. MRP-type data)
 - Eliminates dual-entry and typical data-entry errors
- Automated process can be easily repeated
 - Monthly updates
 - Repetitive what-if exercises

Schedule / Cost Integration Overview

Activity ID	Activity Desc.	WBS	OBS	WP	Duration	Total Float	Baseline Start	Baseline Finish	Early Start	Early Finish	Late S
1.1	Milestones				386d	0	01Jan2019	24Jan2020	01Jan2019	24Jan2020	02Jan2
1.2	C-130H Structural Upgrades				275d	0	02Jan2019	21Jan2020	02Jan2019	21Jan2020	02Jan2
1.2.1	Initiate kickoff and preliminary planning	1.1100.1110	104.4.4.0.50	111001	15d	0	02Jan2019	22Jan2019	02Jan2019	22Jan2019	02Jan2
1.2.2	Order all material for Structural Upgrades	1.1100.1110	104.4.4.0.50	111002	20d	5d	23Jan2019	19Feb2019	23Jan2019	19Feb2019	30Jan2
1.2.3	Support Travel for Structural Upgrade	1.1100.1160	104.4.4.0.50	111001	180d	206d	02Jan2019	10Sep2019	02Jan2019	10Sep2019	17Oct2
1.2.4	Complete Airframe Drawing Package	1.1100.1150	104.4.8.1.50	115001	20d	175d	23Jan2019	19Feb2019	23Jan2019	19Feb2019	25Sep2
1.2.5	Complete Interior Drawing Package	1.1100.1150	104.4.8.1.50	115002	10d	115d	23Jan2019	05Feb2019	23Jan2019	05Feb2019	03Jul20
1.2.6	Acquire material for Structural upgrades	1.1100.1190	104.4.4.0.50	119001	100d	5d	20Feb2019	09Jul2019	20Feb2019	09Jul2019	27Feb2
1.2.7	Complete first phase Airframe upgrades	1.1100.1120	104.4.8.2.50	112001	10d	0	10Jul2019	01Oct2019	10Jul2019	01Oct2019	10Jul20
1.2.8	Complete second phase of Interior upgrades	1.1100.1120	104.4.8.2.50	112002	130d	0	10Jul2019	07Jan2020	10Jul2019	07Jan2020	10Jul20
		104.4.8.2.50	112003	112003	10d	0	08Jan2020	21Jan2020	08Jan2020	21Jan2020	08Jan2



Activity Details [BRGHT]

ID: 1.2.7
 Desc: Complete first phase Airframe upgrades
 Status: Planned
 Duration: 60d

Skill ID	Resource ID	Cost Class	Total Qty	Jul-19	Aug-19	Sep-19	Oct-19
	BURNS		240.00	64.00	88.00	84.00	4.00
	DAVIS		240.00	64.00	88.00	84.00	4.00
	FITTS		240.00	64.00	88.00	84.00	4.00

Total Labor Qty: 720.00 | 192.00 | 264.00 | 12.00

Spreadsheet Status Date: 01/31/2019

WBS	OBS	WP	Resource	Class	Total	Jul19	Aug19	Sep19	Oct19
Total					9,009.00	405.38	601.47	587.19	379.12
1.1100.1110	104.4.4.0.50								
1.1100.1120	104.4.8.2.50								
1.1100.1120	104.4.8.2.50	112001	BURNS	Budget	240.00	64.00	88.00	84.00	4.00
1.1100.1120	104.4.8.2.50	112001	DAVIS	Budget	240.00	64.00	88.00	84.00	4.00
1.1100.1120	104.4.8.2.50	112001	FITTS	Budget	240.00	64.00	88.00	84.00	4.00
1.1100.1120	104.4.8.2.50	112002							
1.1100.1120	104.4.8.2.50	112003							
1.1100.1150	104.4.8.1.50								

Scheduling Techniques / Approaches

Scheduling Techniques / Approaches

- Resource loaded schedule
 - Best practice, but not necessary – control account/work package key information (dates, percent complete, etc.) can be integrated from schedule to cost baseline
- Resource assignments at activity level vs summary level
 - Best practice is at activity level
- ALL scope included in schedule
 - Level of Effort
 - Materials
- Level of detail for non-labor
 - Materials (or any purchased item or service) at PO line or total
 - Critical vs non-critical materials

Resource Assignments at Activity Level vs Summary Level

BURNS								Apr 19				May 19				Jun 19						
Resource ID	Res. Desc.	Activity ID	Activity Desc.	Duration	Rem. Dur.	Early Start	Early Fini	30	06	13	20	27	04	11	18	25	01	08	15	22	29	
- 121001A																						
BURNS	Burns	1.3.1A.1	CS001: Console electronics	20d	0	17Apr2019	14May201				24	40	40	40	16	16						
CERNAN	Cernan	1.3.1A.4	CS003: Communication	50d	0	17Apr2019	25Jun2019				12	20	20	20	20	20	20	20	20	20	8	8
DAVIS	Davis	1.3.1A.2	CS002: Wiring	30d	0	17Apr2019	28May201				24	40	40	40	40	40	16	16				
FITTS	Fitts	1.3.1A.2	CS002: Wiring	30d	0	17Apr2019	28May201				24	40	40	40	40	40	16	16				
LINDSTROM	Lindstrom	1.3.1A.4	CS003: Communication	50d	0	17Apr2019	25Jun2019				12	20	20	20	20	20	20	20	20	20	8	8
PHOENIX	Phoenix	1.3.1A.1	CS001: Console electronics	20d	0	17Apr2019	14May201				3000	5000	5000	5000	2000	2000						
PHOENIX	Phoenix	1.3.1A.3	CS003: Navigation	25d	0	17Apr2019	21May201				3000	5000	5000	5000	5000	2000	2000					
PHOENIX	Phoenix	1.3.1A.2	CS002: Wiring	30d	0	17Apr2019	28May201				3000	5000	5000	5000	5000	5000	2000	2000				
PHOENIX	Phoenix	1.3.1A.4	CS003: Communication	50d	0	17Apr2019	25Jun2019				3000	5000	5000	5000	5000	5000	5000	5000	5000	5000	2000	2000
SIMON	Simon	1.3.1A.3	CS003: Navigation	25d	0	17Apr2019	21May201				24	40	40	40	40	16	16					
WILKES	Wilkes	1.3.1A.3	CS003: Navigation	25d	0	17Apr2019	21May201				12	20	20	20	20	8	8					
WILKES	Wilkes	1.3.1A.1	CS001: Console electronics	20d	0	17Apr2019	14May201				12	20	20	20	8	8						

Activity Level

- Resource assignments at activity level – time-phased resources align with each activity
- Provides accurate cost baseline profile, especially if one activity is “different” than the others
 - Longer or shorter duration
 - Significantly more or fewer resources

Resource Assignments at Activity Level vs Summary Level

BURNS								Apr 19				May 19				Jun 19				Summary Level		
Resource ID	Res. Desc.	Activity ID	Activity Desc.	Duration	Rem. Dur.	Early Start	Early Fini	30	06	13	20	27	04	11	18	25	01	08	15		22	29
- 121001B																						
BURNS	Burns	1.3.1B	Complete Systems Technical Documents	50d	0	17Apr2019	25Jun2019				22	36	36	36	36	36	36	36	36	36	36	14
DAVIS	Davis	1.3.1B	Complete Systems Technical Documents	50d	0	17Apr2019	25Jun2019				26	44	44	44	44	44	44	44	44	44	44	18
FITTS	Fitts	1.3.1B	Complete Systems Technical Documents	50d	0	17Apr2019	25Jun2019				14	24	24	24	24	24	24	24	24	24	24	10
PHOENIX	Phoenix	1.3.1B	Complete Systems Technical Documents	50d	0	17Apr2019	25Jun2019				7500	12500	12500	12500	12500	12500	12500	12500	12500	12500	5000	5000
SIMON	Simon	1.3.1B	Complete Systems Technical Documents	50d	0	17Apr2019	25Jun2019				12	20	20	20	20	20	20	20	20	20	20	8
WILKES	Wilkes	1.3.1B	Complete Systems Technical Documents	50d	0	17Apr2019	25Jun2019				11	18	18	18	18	18	18	18	18	18	18	7

- Resource assignments at summary level – resource assignments are spread across the range of activities, not each specific activity
- This “peanut butter” spread can skew the cost baseline profile, especially if one activity is “different” than the others
 - Longer or shorter duration
 - Significantly more or fewer resources

Setup vs Monthly Maintenance

Setup vs Monthly Maintenance

- Setting up and maintaining an earned value schedule / cost baseline is hard work
 - Hard work (and time) setting up a schedule (and cost baseline) will pay off monthly processing
- Best Practice is to resource load the schedule at the activity level
 - As the schedule progresses, forecast start and finish dates will update
 - Resource assignment time-phasing will stay aligned with their activities
- Resource loading at a summary level may seem easier to setup...
 - Time-phasing will require manual review and updates each month
- There is no such thing as a free lunch!
 - Shortcuts during setup will cause extra work on a monthly basis
 - Hard work during setup will simplify monthly processing

Setup vs Monthly Maintenance

- **Level of Effort (LOE) and Other Direct Costs (ODC) in the schedule or not?**
 - There are as many good reasons to include LOE /ODC in the schedule as there are reasons to exclude it
 - Either way, it's important to understand the source of all earned value data
- **How much material (purchased items) or subcontracts (services) detail should be included in the schedule?**
 - Too much detail (every single purchase order line is a schedule activity) will cause extra effort during monthly processing
 - Too little detail (one number for all materials) will cause extra analysis drilling into the details to identify root cause of an issue
 - Include critical items (material and subcontracts) as their own activities; organize everything else into logical activities
- **Cost baseline reconciliation process can be complicated if cost data comes from different sources**
 - Use functionality in your cost system to segregate data by source – in Deltek Cobra use different cost classes or control account / work package codes

Methods to Improve Quality Data

Deltek Touchstone – Acceptance Criteria

The screenshot shows the 'Acceptance Criteria Templates' interface for 'FUSE Schedule Quality'. It includes a search bar, navigation controls, and a table of metrics used to calculate the score. The table has columns for Folder, Metric, Influence Selector, Influence Value, and Automatically Reject. Each metric row features a slider to adjust the influence value.

FOLDER	METRIC	INFLUENCE SELECTOR	INFLUENCE VALUE	AUTOMATICALLY REJECT
Default Metrics \ Schedule Quality				
	Critical		3	<input type="checkbox"/>
	Hard Constraints		-5	<input checked="" type="checkbox"/>
	Insufficient Detail™		0	<input checked="" type="checkbox"/>
	Logic Density™		0	<input type="checkbox"/>
	Merge Hotspot		-5	<input type="checkbox"/>
	Missing Logic		-10	<input type="checkbox"/>
	Negative Float		-10	<input type="checkbox"/>
	Number of Lags		-4	<input type="checkbox"/>
	Number of Leads		-10	<input checked="" type="checkbox"/>

- Sliders can be used to define acceptance (and rejection) criteria by metric type
- Identifies schedule quality issues before integration into the cost baseline

Deltek Touchstone – Project Snapshots

Projects ◻ ◀ 1 of 3 ▶

FCH Design (OPP)
Design for FC High (OPP)
Last modified 9/22/2021 9:02:02 AM by ROBERTEDWARDS

OVERVIEW **SNAPSHOT** CONFIGURATION ACCESS CONTROL

Project Snapshots

SCHEDULE	PROJECT % COMPLETE	SCORE	WINDOW CLOSE DATE	STATUS	LAST SUBMITTED
SHIP_Month_2.bk3	24.84%	100% ✓	9/26/2021	Accepted	9/22/2021
FCH Design Month 1.bk2	24.84%	62% ▲	1/8/2021	Rejected with Comments	1/5/2021
Movie in Progress.bk3	4.77%	55% ▲	1/6/2020	Rejected with Comments	1/5/2020
SHIP_Month_2.bk3	24.84%	76% ✓	12/26/2019	Accepted	12/19/2019
SHIP_Baseline.bk3	0.00%	77% ✓	10/6/2019	Accepted	10/30/2019
SHIP_Month_2.bk3	24.84%	76% ✓	10/6/2019	Accepted	10/5/2019
			8/31/2019	Missing	
Movie in Progress.bk3	4.77%	92% ✓	8/24/2019	Accepted	8/22/2019
			8/6/2019	Missing	
CurrentSchedule.bk3	0.00%	87% ✓	7/31/2019	Accepted	7/23/2019
6MonthUpdate.bk3	0.00%	89% ✓	7/1/2019	Accepted	6/27/2019
SHIP Baseline.bk3	0.00%	96% ✓	5/31/2019	Accepted	5/8/2019
SHIP Baseline.bk3	0.00%	96% ✓	5/1/2019	Accepted	4/23/2019

- Project Snapshots are maintained
- Valuable compliance tool for internal and external schedules

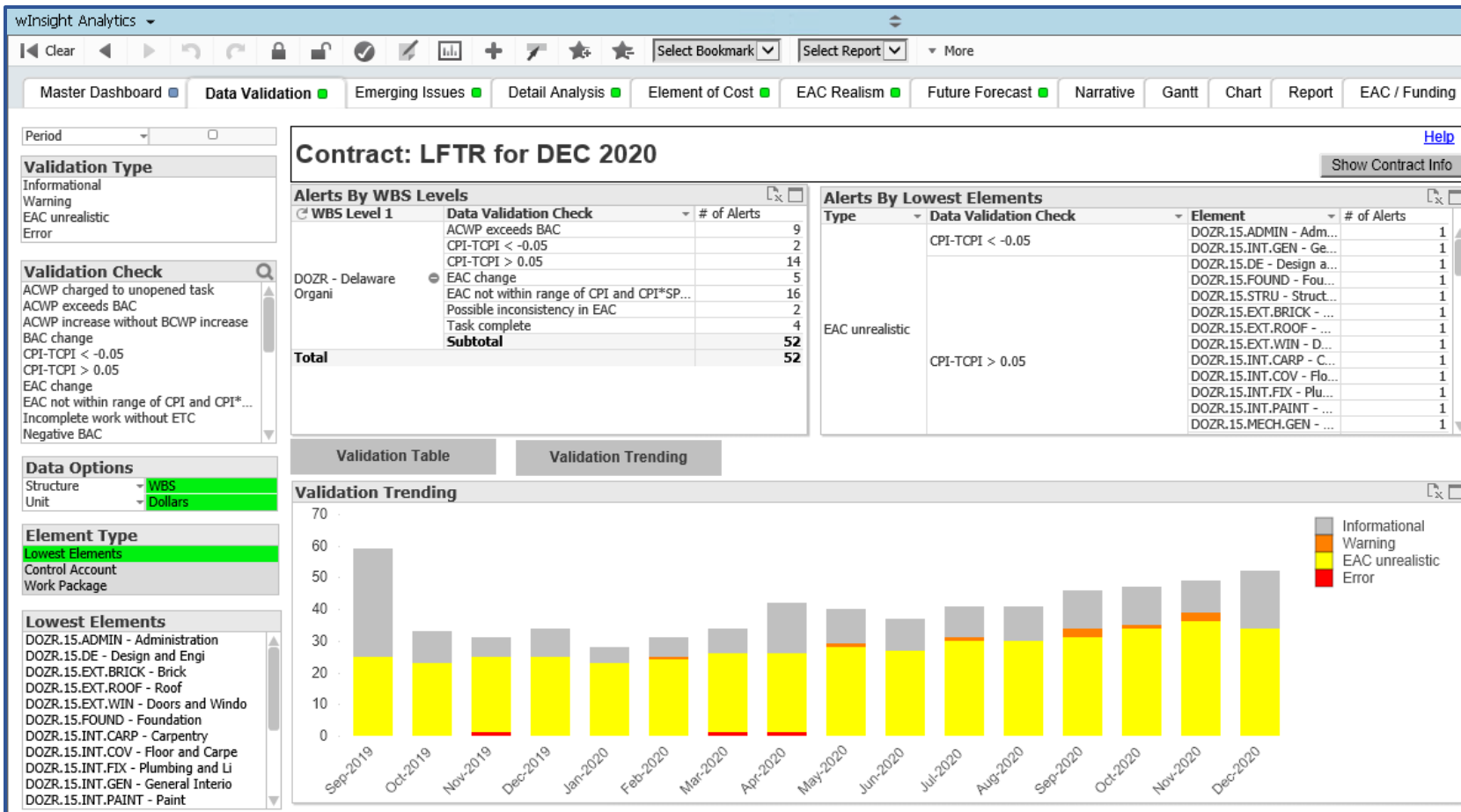
Deltek PM Compass – Schedule Traceability Reports

- Schedule Traceability Reports
 - Dates
 - Progress
 - Resource Assignments

Schedule Traceability Dates													
Sunday, September 25, 2022 1:22:03 PM													
Work Package	Activity ID	Baseline Start Date		Baseline Finish Date		Forecast Start Date		Forecast Finish Date		Actual Start Date		Actual Finish Date	
		Cobra	OPP	Cobra	OPP	Cobra	OPP	Cobra	OPP	Cobra	OPP	Cobra	OPP
0230	1.2.1.14	2/7/2017	4/1/2017	2/13/2017	4/1/2017	4/24/2017	4/24/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017	4/28/2017
0240	1.2.1.15	2/14/2017	4/18/2017	2/28/2017	5/1/2017	9/4/2017	9/4/2017	9/4/2017	9/4/2017	9/29/2017	9/29/2017	9/29/2017	9/29/2017
Control Account: 1.1300.01 / SUB-SEN Water Body Subsurface Sensor Study, Design, Prototype		2/28/2017	5/2/2017	12/31/2017	2/15/2018	4/3/2017	12/14/2018	4/3/2017	4/3/2017	12/14/2018	12/14/2018	12/14/2018	12/14/2018
0100	1.3.1	2/28/2017	5/2/2017	12/31/2017	2/15/2018	4/3/2017	12/14/2018	4/3/2017	4/3/2017	12/14/2018	12/14/2018	12/14/2018	12/14/2018
0110	1.3.1.2	2/28/2017	5/2/2017	3/20/2017	5/22/2017	4/3/2017	6/5/2017	4/3/2017	4/3/2017	6/5/2017	6/5/2017	6/5/2017	6/5/2017
0120	1.3.1.3	3/28/2017	5/30/2017	4/24/2017	6/26/2017	6/12/2017	8/4/2017	6/12/2017	6/12/2017	8/4/2017	8/4/2017	8/4/2017	8/4/2017
0130	1.3.1.4	4/25/2017	6/27/2017	5/22/2017	7/25/2017	6/12/2017	10/20/2017	6/12/2017	6/12/2017	10/20/2017	10/20/2017	10/20/2017	10/20/2017
0140	1.3.1.5	5/23/2017	7/26/2017	6/19/2017	8/22/2017	8/7/2017	12/1/2017	8/7/2017	8/7/2017	12/1/2017	12/1/2017	12/1/2017	12/1/2017
0150	1.3.1.6	6/20/2017	8/23/2017	7/3/2017	9/5/2017	9/11/2017	9/22/2017	9/11/2017	9/11/2017	9/22/2017	9/22/2017	9/22/2017	9/22/2017
0160	1.3.1.7	7/4/2017	9/6/2017	7/10/2017	9/12/2017	9/25/2017	9/29/2017	9/25/2017	9/25/2017	9/29/2017	9/29/2017	9/29/2017	9/29/2017
0180	1.3.1.9	7/11/2017	9/13/2017	9/4/2017	11/7/2017	10/2/2017	11/9/2018	10/2/2017	10/2/2017	11/9/2018	11/9/2018	11/9/2018	11/9/2018
0190	1.3.1.10	9/5/2017	11/8/2017	9/11/2017	11/13/2017	11/13/2017	11/13/2017	11/13/2017	11/13/2017	11/17/2017	11/17/2017	11/17/2017	11/17/2017
0200	1.3.1.11	9/12/2017	11/15/2017	10/2/2017	12/5/2017	11/20/2017	8/6/2018	11/20/2017	11/20/2017	8/6/2018	8/6/2018	8/6/2018	8/6/2018
0210	1.3.1.12	10/3/2017	12/6/2017	10/23/2017	12/27/2017	1/8/2018	11/14/2018	1/8/2018	1/8/2018	11/14/2018	11/14/2018	11/14/2018	11/14/2018
0220	1.3.1.13	10/24/2017	12/28/2017	10/30/2017	1/4/2018	12/4/2017	12/15/2017	12/4/2017	12/4/2017	12/15/2017	12/15/2017	12/15/2017	12/15/2017
0230	1.3.1.14	10/31/2017	1/5/2018	11/6/2017	1/11/2018	12/1/2017	12/8/2017	12/1/2017	12/1/2017	12/8/2017	12/8/2017	12/8/2017	12/8/2017
0240	1.3.1.15	11/7/2017	1/12/2018	11/20/2017	1/25/2018	2/12/2018	2/23/2018	2/12/2018	2/12/2018	2/23/2018	2/23/2018	2/23/2018	2/23/2018
0250	1.3.1.16	11/21/2017	1/26/2018	11/27/2017	2/1/2018	1/22/2018	1/26/2018	1/22/2018	1/22/2018	1/26/2018	1/26/2018	1/26/2018	1/26/2018
0260	1.3.1.17	11/28/2017	2/2/2018	1/23/2018	2/15/2018	1/23/2018	1/23/2018	1/23/2018	1/23/2018	1/23/2018	1/23/2018	1/23/2018	1/23/2018
Control Account: 1.1400.01 / SURF-SEN Water Body Surface Sensor Study, Design, Prototype		12/12/2017	2/16/2018	1/1/2018	1/13/2018	1/15/2018	2/1/2019	1/15/2018	1/15/2018	2/25/2019	1/15/2018	1/15/2018	1/15/2018
0100	1.4.1.1	12/12/2017	2/16/2018	1/1/2018	3/8/2018	1/15/2018	2/16/2018	1/15/2018	1/15/2018	2/16/2018	2/16/2018	2/16/2018	2/16/2018
0110	1.4.1.2	12/12/2017	2/16/2018	1/8/2018	3/15/2018	3/19/2018	4/27/2018	3/19/2018	3/19/2018	4/27/2018	4/27/2018	4/27/2018	4/27/2018
0120	1.4.1.3	1/9/2018	3/16/2018	2/5/2018	4/12/2018	7/20/2018	5/7/2018	7/20/2018	7/20/2018	5/7/2018	7/20/2018	7/20/2018	7/20/2018
0130	1.4.1.4	2/6/2018	4/13/2018	3/5/2018	5/10/2018	6/4/2018	9/14/2018	6/4/2018	6/4/2018	9/14/2018	9/14/2018	9/14/2018	9/14/2018
0140	1.4.1.5	3/6/2018	5/11/2018	4/2/2018	6/7/2018	8/20/2018	10/5/2018	8/20/2018	8/20/2018	10/5/2018	10/5/2018	10/5/2018	10/5/2018
0150	1.4.1.6	4/3/2018	6/8/2018	4/16/2018	6/21/2018	12/24/2018	12/28/2018	12/24/2018	12/24/2018	12/28/2018	12/28/2018	12/28/2018	12/28/2018
0160	1.4.1.7	4/17/2018	6/22/2018	4/23/2018	6/28/2018	7/12/2018	7/13/2018	7/12/2018	7/12/2018	7/13/2018	7/13/2018	7/13/2018	7/13/2018
0180	1.4.1.9	4/24/2018	6/29/2018	1/1/2019	8/24/2018	9/3/2018	2/1/2019	9/3/2018	9/3/2018	2/1/2019	2/1/2019	2/1/2019	2/1/2019
0190	1.4.1.10	6/19/2018	8/27/2018	6/25/2018	8/31/2018	8/6/2018	8/17/2018	8/6/2018	8/6/2018	8/17/2018	8/17/2018	8/17/2018	8/17/2018
0200	1.4.1.11	6/26/2018	9/3/2018	1/1/2019	9/21/2018	10/22/2018	1/29/2019	10/22/2018	10/22/2018	1/29/2019	1/29/2019	1/29/2019	1/29/2019
0210	1.4.1.12	7/17/2018	9/24/2018	1/1/2019	10/12/2018	2/4/2019	1/1/2019	2/25/2019	10/22/2018	1/1/2019	1/1/2019	1/1/2019	1/1/2019
0220	1.4.1.13	8/7/2018	10/15/2018	8/13/2018	10/19/2018	10/8/2018	10/19/2018	10/8/2018	10/8/2018	10/19/2018	10/19/2018	10/19/2018	10/19/2018
0230	1.4.1.14	8/14/2018	10/22/2018	8/20/2018	10/26/2018	11/12/2018	11/23/2018	11/12/2018	11/12/2018	11/23/2018	11/23/2018	11/23/2018	11/23/2018
0240	1.4.1.15	8/21/2018	10/29/2018	9/3/2018	11/9/2018	2/26/2019	3/11/2019	11/23/2018	11/23/2018	3/11/2019	3/11/2019	3/11/2019	3/11/2019
0250	1.4.1.16	9/4/2018	11/12/2018	9/10/2018	11/16/2018	11/16/2018	11/16/2018	11/16/2018	11/16/2018	11/16/2018	11/16/2018	11/16/2018	11/16/2018
0260	1.4.1.17	9/11/2018	11/19/2018	9/30/2018	11/30/2018	3/12/2019	3/25/2019	12/3/2018	12/3/2018	3/25/2019	3/25/2019	3/25/2019	3/25/2019

Schedule Traceability Progress									
Sunday, September 25, 2022 1:25:14 PM									
Work Package	Activity ID	Actual Start Date		Actual Finish Date		% Complete		Earned Value Technique	
		Cobra	OPP	Cobra	OPP	Cobra	OPP	Cobra	OPP
0200	1.8.1.11	2/13/2017	2/13/2017	5/12/2017	5/12/2017	100.00 %	100.00 %	50-50	% Complete
0210	1.8.1.12	2/24/2017	2/24/2017	8/11/2017	8/11/2017	100.00 %	100.00 %	50-50	% Complete
0220	1.8.1.13	3/20/2017	3/20/2017	3/24/2017	3/24/2017	100.00 %	100.00 %	0-100	% Complete
0230	1.8.1.14	4/3/2017	4/3/2017	4/7/2017	4/7/2017	100.00 %	100.00 %	0-100	% Complete
0240	1.8.1.15	4/11/2017	4/11/2017	4/14/2017	4/14/2017	100.00 %	100.00 %	0-100	% Complete
0250	1.8.1.16	5/19/2017	5/19/2017	5/19/2017	5/19/2017	100.00 %	100.00 %	0-100	% Complete
0260	1.8.1.17	11/6/2017	11/6/2017	11/24/2017	11/24/2017	100.00 %	100.00 %	0-100	% Complete
Control Account: 1.1700.01 / THERMO-SEN Thermosphere Sensor Study, Design, and Prototype		8/30/2016	8/30/2016	1/12/2018	1/12/2018	0.00 %	100.00 %		
0100	1.7.1	8/30/2016	8/30/2016	1/12/2018	1/12/2018	0.00 %	100.00 %		% Complete
0110	1.7.1.1	8/30/2016	8/30/2016	9/14/2016	9/14/2016	100.00 %	100.00 %	50-50	% Complete
0120	1.7.1.2	8/30/2016	8/30/2016	9/20/2016	9/20/2016	100.00 %	100.00 %	50-50	% Complete
0130	1.7.1.3	9/20/2016	9/20/2016	11/11/2016	11/11/2016	100.00 %	100.00 %	50-50	% Complete
0140	1.7.1.4	10/1/2016	10/1/2016	11/11/2016	11/11/2016	100.00 %	100.00 %	50-50	% Complete
0150	1.7.1.5	10/1/2016	10/1/2016	12/15/2016	12/15/2016	100.00 %	100.00 %	50-50	% Complete
0160	1.7.1.6	10/1/2016	10/1/2016	11/11/2016	11/11/2016	100.00 %	100.00 %	0-100	% Complete
0180	1.7.1.7	11/11/2016	11/11/2016	12/15/2016	12/15/2016	100.00 %	100.00 %	0-100	% Complete
0190	1.7.1.9	11/11/2016	11/11/2016	8/16/2017	8/16/2017	100.00 %	100.00 %	% Complete	% Complete
0200	1.7.1.10	2/21/2017	2/21/2017	2/24/2017	2/24/2017	100.00 %	100.00 %	0-100	% Complete
0210	1.7.1.11	1/10/2017	1/10/2017	2/10/2017	2/10/2017	100.00 %	100.00 %	50-50	% Complete
0220	1.7.1.12	2/23/2017	2/23/2017	5/12/2017	5/12/2017	100.00 %	100.00 %	50-50	% Complete
0230	1.7.1.13	3/6/2017	3/6/2017	3/10/2017	3/10/2017	100.00 %	100.00 %	0-100	% Complete
0240	1.7.1.14	3/6/2017	3/6/2017	3/24/2017	3/24/2017	100.00 %	100.00 %	0-100	% Complete
0250	1.7.1.15	6/12/2017	6/12/2017	6/23/2017	6/23/2017	100.00 %	100.00 %	0-100	% Complete
0260	1.7.1.17	1/8/2018	1/8/2018	1/12/2018	1/12/2018	100.00 %	100.00 %	0-100	% Complete
Control Account: 1.1800.01 / LUN-SEN Lunar Sensor Study, Design, and Prototype		8/30/2016	8/30/2016	12/29/2017	12/29/2017	0.00 %	100.00 %		
0100	1.8.1	8/30/2016	8/30/2016	12/29/2017	12/29/2017	0.00 %	100.00 %		% Complete
0110	1.8.1.1	8/30/2016	8/30/2016	9/14/2016	9/14/2016	100.00 %	100.00 %	50-50	% Complete
0120	1.8.1.2	8/30/2016	8/30/2016	9/19/2016	9/19/2016	100.00 %	100.00 %	50-50	% Complete
0130	1.8.1.3	9/20/2016	9/20/2016	10/28/2016	10/28/2016	100.00 %	100.00 %	50-50	% Complete
0140	1.8.1.4	10/5/2016</							

Deltek wInsight – Data Validations



- Validation Checks and Types are maintained in a MS Excel spreadsheet
- New Validation Checks can be established (by defining formula)
- Validation Types can be reorganized

Q&A



THANK YOU