

Welcome to the fifth of six sessions which comprise an introduction to the Department of Energy's Project Reporting and Assessment System (PARS). The analysis and reporting capabilities of PARS provide decisions makers at all levels with tools to best manage these projects over their lifecycle as well as a repository for data and documents for projects reporting to PARS in accordance with DOE Orders.



This fifth session will focus the sixth training objective and the user gaining an understanding of both interactive and pre-filters in Empower in PARS, plus a few additional tricks from Empower. When you complete all six sessions of the PARS user basic course, you will earn 6 CEUs. Any session may be repeated as a refresher as needed in the future. There will be questions through out the training and the user will need to achieve a passing score being 70% or better to successfully complete this course.

MW2 Need to identify how contractors will get credit? Matthew West, 7/1/2020

Slide 2

Helpful Docu	ment for Interactive Filters
Help User's Manual DOE 'Gold Card' Empower DQI Test Guide About EPASOP Useful Commands and Filter Parameters	 As introduced in the last session, in the Empower help menu, DOE has placed the Useful Commands and Filter Parameters Document. It is provided here for you to take notes on and have available throughout this lesson. It is recommended that you keep this document readily available when using Empower
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Use the attached Useful Commands and Filter Parameters sheet to help you get the most out of Empower. In addition to sorting as discussed earlier, filtering provide a rapid way to find the most impactful elements which are benefiting or hurting the project. This allows the user to help point out to leadership where their attention could best be focused to either reinforce what is working well or to work to address areas of concern.

This is in addition to the:

EPASOP DOE Gold Card Empower User Guide Slide 3

AY3 Update file Young, Amber, 2/20/2024



Interactive filters work using the boxes below the column headings. This is separate from the concept of pre-filters which will be discussed later, but it is possible to save a simple interactive filter as a pre-filter. We will discuss how to make a simple interactive filter into a prefilter later in the session.

If you enter a Criteria in two or more boxes – this is treated as an "AND" clause. For example, if you filter on a CAM, say Jones and SV = Yellow, it will only show you CAM = Jones and SV = Yellow elements. All other will be filtered out until you clear the filters

When clearing a filter, it is recommended that you use the Clear button on the toolbar. One filter is a space – which is very hard to see or remember that you have it turned on.

We will look what you can filter on and with which filter commands over the next several slides. The filter options are on your Useful Commands and Filter Parameters handout.



First we will look at the VAR column. This is an indicator that a variance report should have been prepared for a control account. While Empower has a variance reporting system that some contractors use, DOE did not enable this function. The user should look for a Variance report in the CPR/IPMR Format 5 report. The contractor is supposed to upload this report to the DMS in PARS each month.

It must be stressed, the VAR indicator is a general indication. Each contractor generally has specific triggers in their system description based on dollars and percentage as to what triggers the need for a variance report. As DOE works with multiple contractors, the flag trips are set to the following

- C = No Dollar Threshold and 10% Threshold
- S = No Dollar Threshold and 10% Threshold
- c = No Dollar Threshold and 10% Threshold
- s = No Dollar Threshold and 1% Threshold
- V = No Dollar Threshold and 10% Threshold

Discuss each of the filter rules above



Data Quality is based on over 150 metrics, from multiple sources to include the Department of Energy EVMS Compliance metrics, the Department of Defense Compliance metrics, the NDIA PASEG and more. Some are more impactful than others and you would need to review the DQI reports to dig in to the impact each has on data quality. In the Advanced course, we will review data quality. It is possible to have data concerns to the point the user does not believe the forecast information provides reasonable information to project leadership.

Encore Analytic	T	re	nd	F	ilters	
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There are several sort window views that use trends to help the user see what each element is doing. The examples shown here are variances – are they greater that established thresholds to be green and are the improving, worsening, or steady. The data can be presented with colors or without for those who prefer the text only grid or cannot distinguish between colors. The text only grid helps the user see the possibilities in filtering.

You can Filter on either just a color or just a trend. You can also filter on a color and trend. For example, you could filter to see all yellows (marginal) and trending down schedule variance. These maybe activities I put a lot of short-term attention in an effort to turn them around.

For Trends – you only get to have one color and one trending (up, down, or flat) for box. You cannot use the Or "|" pipe to have green and yellow



For any column in the sort window view that uses numbers, these are filters that are available for use. As many are common to other tools, we will focus on only one, "Range of Values" The example shows that Empower will filter out any element in the sort window view that are less than 10% Spent and more than 90% Spent. You can use this in percent complete to only consider a range – more than 5% and less than 95% for instance, as those which just started likely do not have enough track record to analyze and those over 95% may not be good to look at as there is little you can do to influence that elements outcome.



There are text fields in Empower which can also be filtered. Maybe you want to look at one or more CAM, only WP and PP, or all LOE. For each of these you can.

First off, we need to discuss the option of "begins with". If you are looking for the CAM "West", when you enter "W" you get all of the CAMs whose name begins with a W – West, Williams, Walters. Then when you add the "E" such that you type We it filters to all with a We in their name. You notice the pipe command for the "Or" function where you can multiple CAMs. You can also use this to make sure if the CAM name is loaded with both upper case only and lower case and First capital, you could use WEST | West | west to cover all ways it could be loaded in the data. Best if it is consistent, and this can be a good way to check if there is variation in capitalization.

The "!" means to exclude such as !LOE in the EVM column

An underscore takes out all fields without data. You could look for all elements with a VAR requirement (from prior slide). If you place a "_" in the interactive filter box for VAR, you will see all that have a VAR requirement indicated.

Last – a space in the interactive filter box, and you get all that no value. In this case,

you may want to look for any field without a CAM name for all Control accounts. In Element Type interactive filter box type "CA" and then in CAM interactive filter box place a space.

This really reinforces that when you clear filters – it is best to use the Clear button on the toolbar as you could easily miss a space in the interactive filter box.

 Filter buttons narrow down the Activities that are display Slip Count – Did a Finish Variance occur during this period SlipVal – Finish Variance (Finish (Forecast) – Baseline Filter Off Select "None" 	red in the Schedule od? = 1, otherwise 0 inish)
Filter Criteria•Red – Neg float <-5 days or 3 slips in past 3 months Slip > 30 days past BL•Yellow – Neg float -0>= to -5 days 2 slips in past 3 months Slip > 15 <30 days past BL•Green – No negative float 1 slip in past 3 months Slip < 15 days past BL•White – All uncompleted tasks	Filter Red Yellow Green White None

These were shown in the past lesson, but remember that there are Gantt filters as well.

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These were shown in the past lesson, but remember that there are Gantt filters as well.

Benefits include analyzing the schedule without opening scheduling tool (P6).



Pre-filters are predefined filters than limit the data loaded in to empower in the data set. If you select Level 1 Only, Empower only loads the top level records for each project (contract) you select.

There are both cost and Gantt filters. It is best to mark the Gantt filters with a (G) at the end. For the Global prefilters, this done. If you make a user prefilter, this is a good habit to get into.

Important to remember – the Clear button on the toolbar does NOT clear a prefilter. You must select the Prefilter menu and select "All Elements or if you are in a Gantt – All Tasks"

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The status bar also shows what prefilter is turned on using the [PF: xxxxxxx]

We are not going to do review of each prefilter, only look at a couple. First is the top, a level 1 prefilter is turned on. You only see top level data in each row of the sort window. This is used in the Leadership Dashboard which turns on the "Level 1 Only" prefilter and sets up the DOE Leadership View, Contract Performance Report, and AI Report.

The Late Finish Gantt prefilter only show activities which are finishing late.

Just remember to use All Elements or All Tasks to get out of the Pre-filter and check the status bar to make sure it is off.

AY4	Encore	Analytics	Drilli Sum A Group yof Chart ~ P	ng i zoom <u>°</u> Pin ^{Pin} g Childred	nto	а	Le	eve	el 1	F	ilte	ere	d V	⁄ie	W	
(All Con	racts) CUR-0 WBS Dollars :	: D-001 DOE Leade	rship :: S-001 DOE Leadership													
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1						2019-10-27	10.38		5,704,319	110,961,383	105,257,064	104,058,147	110,961,000			0.943
1		//// <i>//</i> //		aaaaaaa		2019-11-24	0.00		883,744	883,744	0	0	4,601,000			0.940
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1			drill into a pro	iact's 🛛		2020-01-26	96.74		-2,440,633	14,411,975	16,852,608	15,455,961	15,047,378			0.862
1						2020-05-17	0.00	-	339,597,315	339,597,315	0	0	457,937,923			1.000
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All Cont	acts) CUR-0 WBS Dollars ::	D-001 DOE Leader	toolbar								to	olbar.				
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1						2020-06-21	54.70	1	3,467,942	115,962,822	112,494,880	112,494,880	118,075,695	1	Ť	0.876
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One note about the Level 1 Only prefilter, as it is used for folks looking at several project, there is a tool to let them drill into lower levels of the project, when needed. If you select a project and use the Drill button on the toolbar, it will take you to the next lower level of that project. You can keep drilling into the project until you reach the lowest level. When done drilling down use the Off button to stop drilling and return to the Level 1 Only view you had before you started to drill down.

Drilling can be used all views, not just with prefilters, but this Level 1 example is one that frequently gets used. One example of drilling in elsewhere is you see an element with issues and it is level 3 with the lowest level being 6. If you select the level 3 and use drill, it helps you get to the levels below it that roll up to make that level 3.

Slide 14

AY4 Roland to send slide for children Young, Amber, 2/22/2024

Build	your own Prefilters	
Fire: weil to fire: weild to fire: weilto fire:	Edit Filter X Filter Level 1 Only >50% Show in Menu: Column Group Columns Contract A-C0 Element A-C0 Adjusted OTB Acconcmp DOI IMS ActualDurvial Action ActualFinish ActualFinish ActualFinish Failures DOI Test 'EV method 0-100 and Test: > > Save Save As ElemLevel = 1 AND (PctCmp > 50)	Prefiters PARS Support Team Help Global 9
In this example we create a Level 1 Only prefilter that only returns project over 50% complete	Description This provides a list of all projects at Level 1 only that are 50% complete, per the top level.]	15

In past sessions and this, we have said you can build your own views, charts, reports, dashboards, and prefilters. We have already looked at dashboards and now will take a look at prefilters. We will look at the others in the final session.

Where Dashboards were simple to build, prefilters are either easy and hard, depending on what you want to do. There are easy if the prefilter just records interactive filters you have applied and hard if you building them from scratch. For the basic course we only focus on the easy option here and discuss the hard option under the advanced course. To demonstrate the easy option, we want to set up a prefilter that is both Level 1 Only for Projects over 50% complete. To do that:

- 1. Turn on the Level 1 Only prefilter
- 2. Go to % Complete interactive filter box and place a >50 in it
- 3. Click on Prefilter Edit Sort Filter to have a box pop up. (on slide)
- Because we turned on the interactive filter, you will notice that there are two filter items in the box. One is ElemLevel = 1 and the other is PctCmp >50. (these column names are the internal name used by Empower and not the alias that DOE uses to better align with standard vocabulary)
- 5. Now name the prefilter with a logical name (Level 1 Only >50% is the one the

instructor chose)

- 6. Verify the Filter order is correct first level 1 and then 50%. In many cases it will not matter, but you can re-order the filter items.
- 7. You can add a description in the lowest box to help describe what and why.
- 8. Then select Save as
- 9. You will now have a User Folder with your prefilter.

This works for simple interactive filters, or ones that do not include OR / NOT (i.e. "Troop|Smith" for only Troop and Smith or "!LOE" for "not LOE") clauses.

For the advanced course, we will consider the many options you can build using all columns (over 600) and doing the coding to make sure you get the test correct. For the easy one, the system filling in the coding and all the user does is rename, add a description, make sure the filter order is correct and save with a logical and unique name. It is also recommended that you not build more than about 20 to 25 so the pull down menu will fit better on your screen which you open the User option.



When you select all projects via the "All Contracts" option in the Dataset or even just two or more using the "CTRL + Mouse Click)" you are able to apply a prefilter against more than one project. You can group and sum these as well to look at logically linked projects. One example would be that you have 5 sub-projects that are part of an over all parent project and you want to see them in aggregate. You can group by a column, select sum and look at the summary line for that grouping. You can also drill into a specific projects as was discussed prior. We will go over this in more detail over the next few slides. (BETTER TO HAVE SCREEN CAPTURE)

ytics	elect Mu	Itiple Projects
Contract	Most Recent Period	🗇 Open Dataset 🛛 🗙
ALPHA	Jun 2023	(All Contracts)
BOOMERANG	Dec 2017	BOOMERANG CUR-2 IPT EQP CUR-2 IPT COM S
Jeep 240z	Feb 2019	LAR EMD MOH-2 CUR-4 CUR-5 V LAB \$
LAR EMD	Jun 2010	Level 1 Only
MOH-2	Jan 2023	OK
When selecting normalize the tii period of selecte selected contrac slide right to alig contracts.	multiple contracts with me-phased data by alig ed contracts. For examp its, so the data for all ot on with Jun 2023. CUR-(CTRL + Select for multiple contracts varying "most recent periods", Empower will ning all selected contracts with the most recent ble, Jun 2023 is the most recent period of data for the ther selected contracts not statused for Jun 2023 will D is the most current data for each of the selected

To select more than one project, either use "All Contracts or CTRL + Select (mouse click) for each you want to select. If you use an Apple computer - use the command rather than control button.

 Contract – Contract Names are unique (PARS ID) Periods – End of Month Dates, Cur-X Structures – WBS, OBS, IPT, Resource Units – Dollars and EOC Dollars in whole units Hours in ones EON Month Names 	
Units — Dollars and EOC Dollars in whole units Hours in ones EOD Monthly Hours (Available Hours	
 LCG - Monthly Hours/Available Hours Indirects - Overhead, G&A and COM EOC- Labor, Material, ODC, Sub Prefilter - subset of data based on Prefilter selected Val Elements/ CHI Elements/ CHI	CUR-0 VUBS ODelars

Pick the dataset options you would like to select and also consider that you can apply sort window prefilters here as well (not Gantt prefilters)



Use the "Group" button on the toolbar to bring up the list of columns you have available in the sort window. If you do not have the column you need, you can make a new view (next session) to provide the column. Follow the list on the slide to group by.

In this example, the DOE Program field was selected (internal to Empower this is called ProgName). In this case, the field has sent in a variety of data rather than the from the 8 basic programs (NNSA, EM, SC, FE, NE, etc) so the data is not yet reflective, but can see that it groups by what ever is in the column. In this case, the SUM button on the toolbar was also selected and where there are two or more projects in a group, you get a summary line to use as the active element for analysis.

DOE is working hard to make sure the data is correct, with two fields used for grouping still under review – program and site.

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)	ALPHA		Hughes	ALPHA	Arn	ny	TCW	Stealth Je	ер	126	Jones	1		65.1	7 ↓	4	↔
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1	LAR		North Ame	rican LAR TREE	Nav	ry	CPIF	LAR Vehic	:le	756	Smith	1		74.5	6 1	1	1
1000	MOR-2		Dougias	Group	By Site		PAF	Monawk	venicie	100-1000	Smiur	1		32.9	9 <u>†</u>	Ļ	
HIEF	WBS	DESCR	RIPTION	Site	Contract	Serv	ice	ContrType	Progra	am	ProgNum	PM A	nalyst	LVL	Group By		>
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Using this test data, you can see it again in the sort window how it may look. In this case, site represents airline manufactures of the past.

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< Cumul 15 10 5 0 -5 -10 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -15 -		Virtu	Jal total filterec	base d dat	d up	32. 26. DON	ARY : Pi	F: Leve	el 1 (o Dnly] ≡ & Rep	Six Pri Six Pri CEI COS	ect Sun VAR %_ c	o eport MMARY FI 8,820 8,321 nmary I 0 0 0 -1,142	1 B 12 W R-5 000 12 0 W 5 09 949 000 -1	2 VBS Dolla Six Perio 2,639,450 975,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,840 955,940 955,940 955,940 955,940 955,940 955,940 955,940 955,940 955,955,950 955,955,950 955,955,950 955,955,950,950,950,950,950,950,950,950,	15 15 SUMM od Summa CUR-3 15.927,270 14.111,220 17.333,230 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050 -1.816,050	0 CUR 18,637,11 16,076,5 19,069,21 -2,560,5 -1-13: 0,81 0,00 -2,992,61	1 2 10 19,6 10 18,5 10 20,5 10 -5 4 3 0 0 -1,6	0 Only] CUR-1 362,290 312,270 325,260 350,020 -4.78 0.952 0.000 512,990 2.620	2 20,091, 19,697, 21,279, -394, -1 0,: 0,: -1,581,	R-0 780 590 380 190 .96 980 341 790
 Cumul 15 10 5 0 -5 -10 -15 20 		Virtu	sum (PF: Level 1 Jual total filterec	base d dat	d up	32. 26. Doon	ARY : Pl arcent	F: Leve	el 1 (o Dnly] = & Rep	Six Pri Six Pri CEI COS CEI COS	ect Sun VAR %_C 'VAR_C 'VAR %_C	6 sport MMARY FI 8,820 8,321 0 0 0 0 0 0 0 0 0 0 0 0 0	1 B 12 W R-5 000 12 000 12 000 000 -1 849 000 -1 8.84 880	2 VBS Dolla Six Peric 2,639,450 975,840 975,840 975,840 975,840 975,840 975,840 975,840 9,515 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,517 9,	15 15.927,270 15.927,270 14.111,220 17.333,230 -1.816,050 -11.40 0.889 0.000 -3.222,010 -22.83 0.844	0 CUR ARY : PF: y CUR 18,637,11 19,069,21 -2,560,5 -13. 0,88 0,00 -2,992,68 -18,1 0,08	1 2 i0 19,6 i0 18,5 i0 20,5 '0 -5 '4 3 0 0 -1,6 2 3	0 Only] CUR-1 362,290 312,270 325,260 350,020 -4.78 0.952 0.000 312,990 -8.53 0.921	2 20,091, 19,697, 21,279, -394, -1 0,0 0,0 -1,581, -8	R-0 780 590 190 1.96 980 341 790 1.03 926
Cumul 15 10 5 -10 -15 -20			Jal total filtered	base dat	d ur a	32. 26. Doon	ARY : P	F: Leve	el 1 (o Dnly] = & Rep	Six Period	ect Sun VAR %_C VAR %_C 3	6 eport MMARY FI 8,820 8,820 8,820 0 0 -1,142 -1,142 -1 0 33,935	1 B 12 W R-5 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 000 12 12 12 12 12 12 12 12 12 12	2 VBS Dolla Six Peric 2,639,450 975,840 975,840 3,610 -5,25 0,947 0,000 1,621,850 -13,54 0,881 0,674,450	15 15,927,270 14,111,220 17,333,230 -1,816,080 -11.40 0.886 0.000 -3,222,010 -22,83 0.814 62,501,720	0 CUR 18,637,11 16,076,51 19,069,21 -2,560,5 -13. 0,80 0,00 -2,992,61 -16,8 8,1138,8 8,1138,8	1 2 30 19,6 30 20,5 30 -5 4 30 0 -1,6 2 3 0 101,0	0 Cull-1 362,290 312,270 555,280 350,020 -4.78 0.952 0.000 512,990 -8.53 0.921 201,160	2 20,091, 19,697, 21,279, -394, -1 0,0 -1,581, -8 0,1 21,092, -1 21,092, -1	R-0 780 590 380 190 190 196 980 341 790 103 926 940
Cumul 15 10 -5 -10 -20 -25		Virtu	Ial total filterec	base dat	d up a	32, 26	ARY : P	F: Leve	el 1 (o Dnly] ≡ & Rep	Six Period	10 10 10 10 10 10 10 10 10 10	6 eport MMARY FI 8,820 8,820 8,820 8,820 0 0 0 0 0 0 0 0 0 0 0 0 0	1 B 12 W R-5 000 12 000 5.09 5.09 5.49 5.09 5.49 5.09 5.49 5.09 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.40 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.49 5.4	2 VISS Dollar Six Peric CUR-4 2,639,450 975,840 975,840 975,840 975,840 975,840 975,840 975,840 9,525 9,947 0,000 1,621,850 1,621,850 0,881 6,574,450 2,518,840	15 15 [SUIMM. 26 Summa 15.927,270 14.111,220 17.333,230 -18.16,050 -11.40 0.886 0.000 -22.83 0.814 62,501,720 56.830,060	0 CUR 18,637,11 16,076,53 19,069,21 -2,580,6 -133 0,88 0,00 -2,992,6 -18,1 0,88 81,138,8 72,706,6	1 2 10 19,6 10 19,6 10 10,1 10 0 -1,6 2 3 0 101,0 0 91,6 10 10,5 10 10 10 10 10 10 10 10 10 10	0 Culk-1 362,290 312,270 555,280 350,020 -4.78 0.952 0.000 512,990 -8.53 0.921 0.921 0.01,180 318,910	2 20,091, 19,697, 21,279, -394, -1, 0,: 0, -1,581, 8 0,0 121,092, 111,316,	R-0 780 590 380 190 198 90 103 926 940 500
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4 Cumul 15 10 5 0 -10 -15 -20 -25		Virtu	sum (rr: Lovel 1 pal total filterec	or Laboration	d ur a		ARY : P	F: Leve	el 1 (only] =	Six Pr Six Pr Dort ref SCH SCH SCH SCH SCH SCH SCH SCH	ect Sum VAR %_6 ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	6 eport CL 8,820 8,371 1 1 1 0 0 0 -1,142 -1 0 33,935 30,643 34,505 -3,392	1 B 12 W R-5 000 0 W 5.09 949 000 000 12 0 W 5.09 949 000 000 12 0 W 5.09 949 000 000 12 0 W 5.09 949 000 000 12 0 W 5.09 5.09 5.09 5.00 0 00 0 00 12 0 W 5.09 5.00 0 00 0 00 12 0 W 5.09 5.00 0 00 0 00 12 0 W 5.09 5.00 0 00 0 00 12 0 W 5.09 5.09 5.00 0 00 0 00 0 00 12 0 00 0 00 0 00 12 0 00 12 0 00 0 00 0 00 0 00 12 0 00 0 00 12 12 12 12 12 12 12 12 12 12	2 VBS Dolla Six Peric CUR-4 2,639,450 975,840 -5,25 0,947 0,000 1,621,850 -13,54 0,841 6,574,450 2,518,840 8,102,690 4,055,610	18 15.927,270 15.927,270 14.111,220 1.833,230 -1.846,000 -22.83 0.814 62.501,720 68.830,080 65.435,920 -6.871,680	0 CUR 18.637,11 16.076,55 19.089,22 -2.560,5 -13. 0.00 -2.992,66 -18. 0.00 -2.992,66 -18. 0.08 0.00 -2.992,66 -18. 10.88 81,138,88 72,706,66 84,505,11 -8.4522,27 -8.4522,27	1 2 3 3 4 4 3 5 5 10 10 10 10 10 10 10 10 10 10	0 CuR-1 362,290 912,270 0.952 252,260 0.952 0.952 0.921 0.000 16,53 0.020 0.521 0.001 160 0.001 0.101 0.001 0.001 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.002 0.003 0.000 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.003 0.004 0.003 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.	2 20,091, 19,697,3 21,279, -394, -1 0,3 -1,581, -1,581, -1,581, 121,092, 111,316,1 126,309, -9,776,	R-0 780 590 380 190 193 880 341 790 103 826 940 520 820 440

Just a reminder that the SUM button lets you look a summary line for the active element with respect to all views – Sort Window, Chart, and Report. This used with the Group by function provides a portfolio opportunity for the user.



One concept that came up here is that of data fields in Empower. While Empower supports over 600, not all are filled out. You are able to look at all of them in a pick list when making or selecting one, or you can look under logical groups. As was mentioned for grouping, if you do not have the column available in the sort window view you are using and there is not another view to use, you can make your own. We will discuss this more in the next session, but to do so, you need to know the internal Empower field name to add the correct ones. In the case of DOE, we have used ProgName for DOE Program and ProgOffSym for the site name. In the advanced course and the Empower Users Guide, you can get a better appreciation for this.

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HER' WES DESCRIPTIO	u	ET CAN	96	imp Noto N	oPred NoSuo	a Outlegian	e floet<0 High/floet	tighbur H>Status HardCarut AS>Status (HorH>BF	PF-Status TS-Status	Lap Lead Af+Incorp	JUICE-UVS CD MAY 18 Six P	8 WBS Dollars [SU Period DQI Trends	WMARY : I	LL='x']			
	•										Data Quality Indicator	CAT D	ic 17	N FI	18 MAS	APR 18	MAY 18
151144 ARCE/05.01.01.04.04 STM Mass Per	Housing x	WP builthe	r	4.00	9	0 0		0 0 0 0 2			ACWP CUM with no BAC	ε	1	1	1	1	1
151146 3.002.05.01.00.04.06 STM Mass Per	Bendy-Checkout/1 x	WP beath	5	0.00 0	0	0 0					ACWP CUR with no BAC Zero hydrael work parkerse	6	2	2		1	2
1511471 3.002.05.01.01.04.07.01 STM Mass Mit	Vibration Testing x	W7 beathe		0.00	0	0 0	a a a	0 0 0 7		0 0 0	BCWP with no ACWP	E	4	5	4	3	3
1511473 3/002/05/01/01/04/07/01 STM Mass Pla 1511473 3/002/05/01/01/04/07/01 STM Mass Pla	Properties Pleasure x	WP beakle		0.00	0	0 0					Incomplete work without ETC	E	6	9	9 1	7	7
151140 3.0CE.05.01.01.04.00 STM Mass Mil	Final Closeout & D x	WP beakte	er 👘	0.00	0	0 0		0 0 0 2	4 4		ACWP on completed work Negative BCWP CUB	E	2	4	6 3	27	9
15121 3.002.05.01.02.01 Fab Fatures 15122 3.002.05.01.02.02 Handling Pote	×	WP beathe	er in the second se	0.00	0	0 0	2		4 6		Budgets not identified by Element of Cost	6	6	6	6 1		0
1513 XECE.05.81.03 Mechanical Pr	wenests x	WP beathe	K.	81.47		0 0	a a 🗾 🛛 🕹	6 0 0 0 <i>0</i>	4 0	0 0 0	No EV method assigned to WP	6	1	1	1	1	1
1514 JUCE/05/81.04 Mechanical C	stight x	WP brathe	H.	100.00 0	0	0 0		0 0 0 1	4 4		work or planning package with negative BAC Account with zero or negative EAC	E	2	2	2 3	2	2
e Andre Andre Constitution of Second Second	1.4								_		Non-meterial AcupCur > 0 BoxpCur = 0	ε	22	18	20 2	43	17
ACTION CARL CARL & HIGHNAL CARL								JUICE-UVS CD MAY 18 WBS (SUMMAR	Y:LL='x]		Non-material BoxpCur > 0 with AcxpCur = 0	E	6	8	6 1	4	7
HER UD	me	Dem	AssessedPutCre	Sort #	noh BL	L Sløt		Schedule Assessment			Non-material AcupCur > 0 for completed activity with BowCu = 0	e E	8	5	10	24	6
15521 2002 UV5 5932 21454 6 Alge 5P to P	oing	0 238	0.8%	2115-09-18 2018	09-24 2020	0-04-35	Linked Complete Tasks Tasks	Incomplete Incomplete Planned Tasks Discrete Tasks Completion	Actual S Completion	Relationship res Count	Open WP with BAC ⇔ prior BAC	E					1
155141 3JECE-OVS5HLAR EH 357 Manangemen	Y 38	106	0.5%	2017-13-02 2018	06-01 2017	7-30-62	1,078 51	10 568 293	545	369 678	Negative ACWP CUR	E	57	3	4 1	5	0
155312 3UEXE-UNS 11582 TVAC GSE Cables	-	%C	9.1%	2018-02-25 2018	05-31 2930	0-67-34	Metric	Description	Goal	Percent Count	Material Apagour > 0 with BoxpCur = 0	E	2	2	1 3	6	3
1551422 XICE-UNSHADIE Full Functional Test		50-50	50.0 %	2018-00-15 2018	05-29 2017	7-11-26	Logic	Masing predecessors, successors or both	4:5%	8.80 % 50	Material AsypCur > 0 for completed activity with BoxpCur = 0	ε	1	1	1 3	4	2
15521 3.002-045 5780 Belle-out #1 Houling		0-100	0.8%	2115-05-29 2018	05-29 2017	7-12-14	Leads	Number of leads	0%	0.00% 0	Parent is CA but element is not WP or PP	ε	2	2	2 :	3	3
1334 JUDE-UN3 392467 Headers Delivery		0-202	0.8%	2018-05-29 2018	06-22 2017	7 68 65	Relationship Type	Finish-To-Start	× 90 %	90.97% 671	IMS OBS does not match EV cost tool OBS	ε	114 1	11 1	06 10	103	99
1554 3UECE-INS 11517 EGSE Lab Epugment	hery	0-100	0.8%	2018-05-29 2018	45-29 2017	7-20-66		Finish-To-Finish	<= 10 %	1.03%	Mis Was does not match EV oust tool WB8 CPLTCPL>0.1	F	43 1	11 1	06 10 62 5	103	90 57
1992 JULIE - UNE 1998 LINES EXCLOSES INTO	(KE BOLS LODOL)	53-53	0.5%	2118-05-29 2018	66-25 202	7-20-09		Start-To-Start Start-To-Elizab	05	4	CPI-TCPI <-0.1	F	57	67	52 5	58	58
15521 XIDD UNS 5778 Assemble Housing		50-50	0.8%	2118-05-30 2018	07-11 2000	0-61-17	Hard Constraints	MSON, MFON, SNLT, FNLT	4:5%	0.00% 0	Missing Logic	8	63 1	67	52 5	51	50
1951422 JUICE-UNSSINDING BHLTHER- CEAR ON		50-50	0.0%	2019-05-30 2019	04-08 2017	741-21	High Floet	Total Float > 44 Days	4:5%	51.41 % 292	No prodecessor	8	53 .	40	44 4	43	42
USEAUL 2010E-INSERIESE Detector/DETE ADAT		58-58	0.8%	2018-06-05 2018	06-28 2017	7-20-22	Negative Float	Total Float < 0 Days	0%	0.00% 0	Lags	8	2	2	2 3	2	2
1200ALC ARCOMSSMER Pull Purchand Text 1300ALC ARCOMSSMERS Exceeding A Musical	LOO THE	0.220	0.8%	2018-06-12 974	06-13 2017	7-12-05	Invalid Dates	Invalid Forecast Start/Finish Dates	0%	0.00% 0	88 millionship	8	8	7	7 1	6	4
1552422 3UECE-USSS4128 Beadine Punctional T	(Ix Votages)	58-58	0.8%	2115-06-14 2018	06-18 2017	7-12-06		Invalid Actual Start/Finish Dates	0%	0.00% 0	FF relationship	8	10	7	6 :	3	3
1951-622 XICO-ONSTRALLA DALPSIA SES, SUNJA	tel level testing	% C	0.8%	2018-06-19 2018	43-17 2017	7-12-20	Missed Tasks	Tasks not performing to baseline plan	er 5 %	95.60 % 521	High floet	8	218 1	03 2	18 23	334	292
1552422 JUEDE-INSSEREESE Test Results Closecut	niew	50-50	0.5%	2010-06-19 2010	06-25 2217	7-12-12	Index	Performance relative to baseline	× 95 %	67.71 % 309 / 545	Actual finish data after status date	8		1	4	1	
1554 3UDZ-UNS 11555 Neator Historial Task	nişt.	0.100	0.8%	2115-06-22 2018	06-22 2017	7 66-65	Inconsistent Status	No Actual Finish but Percent Complete = 100 %	0%	0.19% 2	Missed larget finish date	8	301 4	41 4	50 47	508	621
1552422 2002-UNSSH117 Acceptance Data Paci	e Prep	8-8	0.8%	211-06-25 2014	40-10 200	7-12-20		Actual Finish with Percent Complete < 100 %	0%	0.00% 0	BEI Incomplete	8	147 1	10 1	10 10	104	178
								core or bolling on history	0.46	0.00.1	C. C	~	~ .	-			-

Lastly in this session, we will show you another plus. (Best to demo – with Screen capture of two monitors)

It was mentioned in the Dashboard session and will be reinforced here. The option to open up additional windows outside of the tri-pane view for reports and charts. This only applies to charts and reports. Remember that there is basic Gantt view under charts to allow you to do this with a Gantt as well. If you have two or more monitors, you can hold the CTRL key down when selecting a chart or report and it will open in a separate tab of our browser. In the example the Six Period DQI Trend report is opened external to the tri-pane and would place it in a separate screen – or if I had a large screen – such as in a control room or presentation site – I may locate it on the same monitor. This external tab, will also update as you select different active elements in the tri-pane view.

This also supports project reviews, where specific charts and reports are placed on large monitors or projected to a room of folks going over the health of the project.

If you use a tri-pane with outside windows frequently, save them as a dashboard after you get them set up. This keeps you from having to reset tit from scratch each time

you want to use this display of information.



This demonstrates the same thing, but with a Gantt chart added to the second screen.







