



EVM needs a little love
But if provided, it will pay
back and then some!

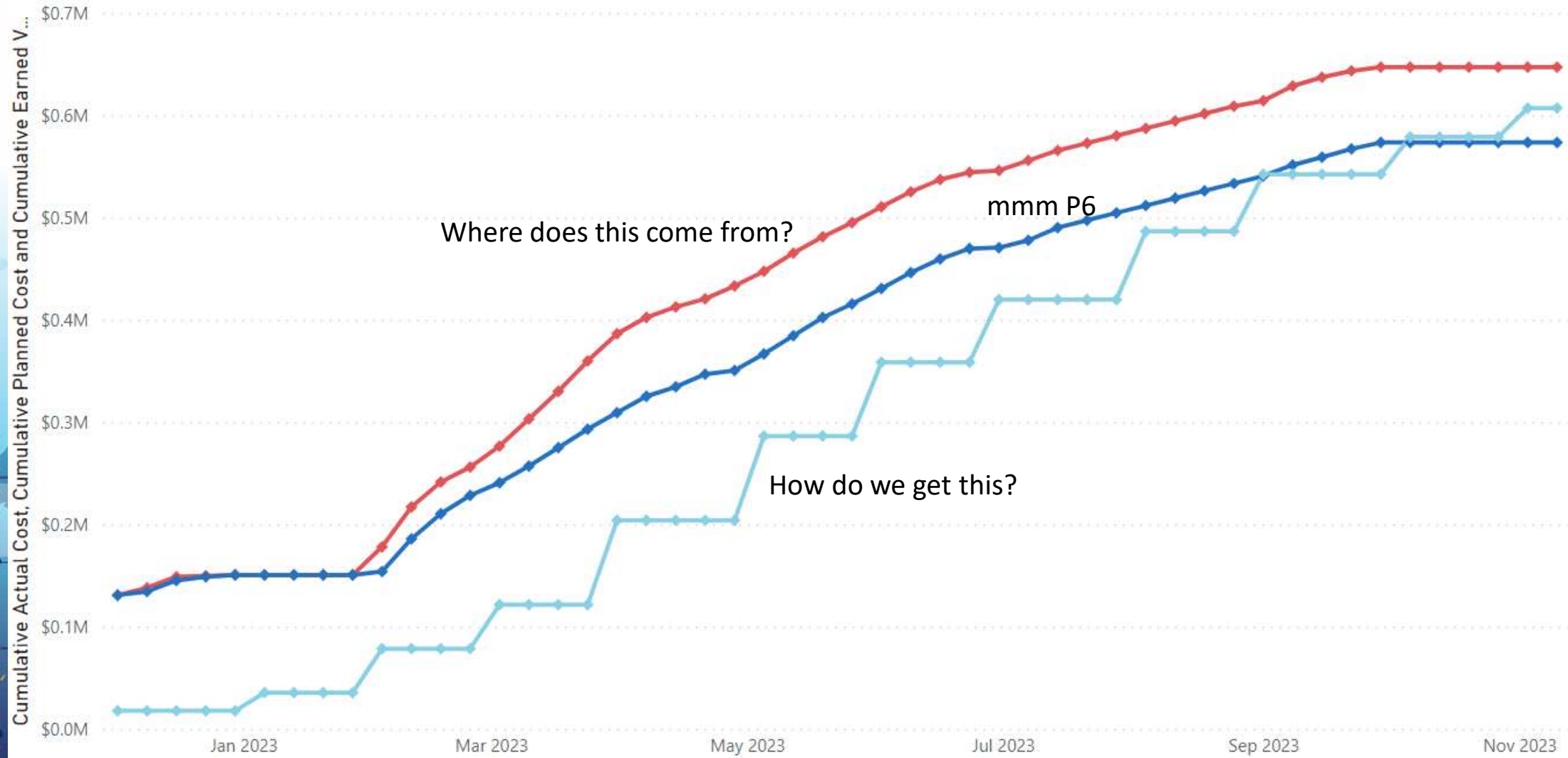
18 April 2024

Mark Heath

Simple Ingredients

- WBS
- Baseline Resource Plan/Earned Profile Spend
- Timesheets/Purchasing Invoices/Accruals
- Progress

◆ Cumulative Actual Cost ◆ Cumulative Planned Cost ◆ Cumulative Earned Value



Where does this come from?

mmm P6

How do we get this?

EV – Disparate Closed Systems



WBS

- How low do you go?
- Accounting system will not have this
- How real is it to actual work?



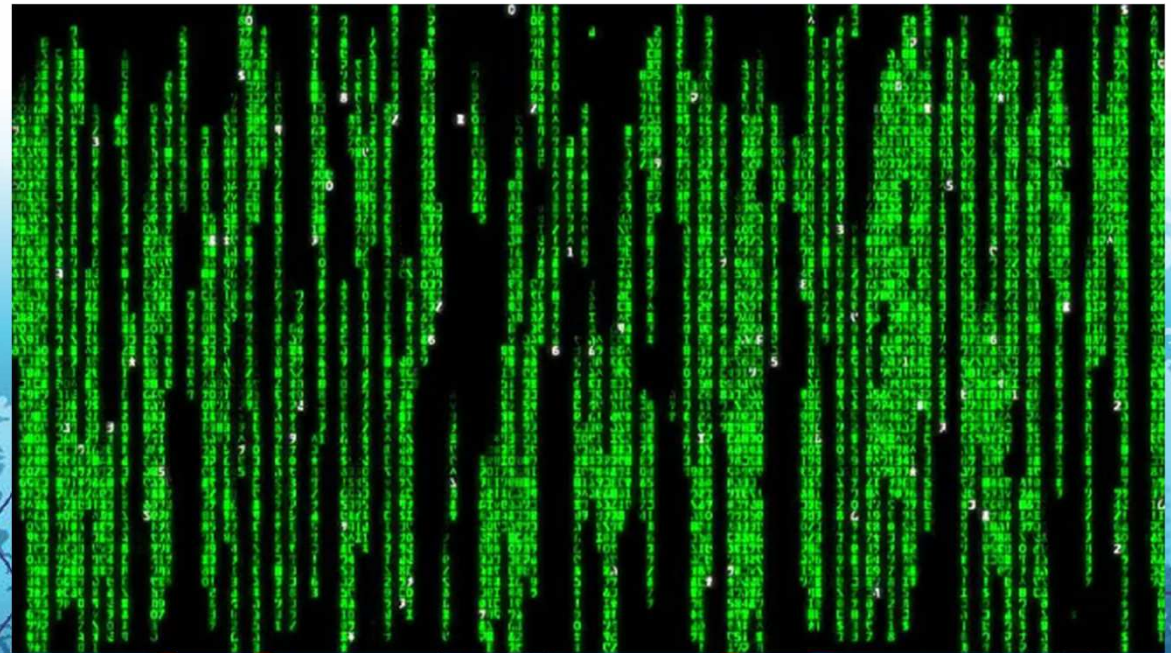
WBS

- Agile?
- How long to incorporate Change?
- Using Jazz method?



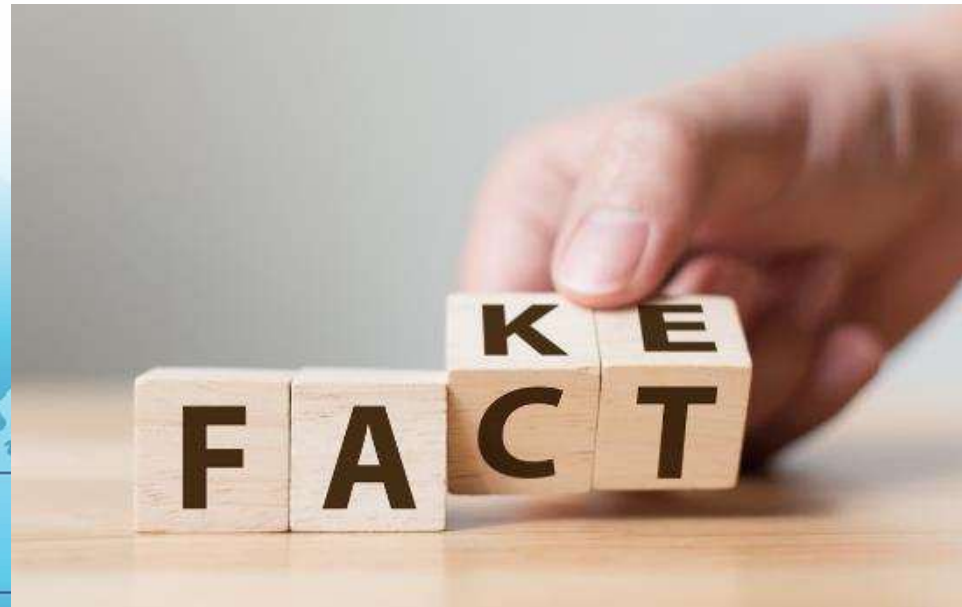
WBS

- Matrix



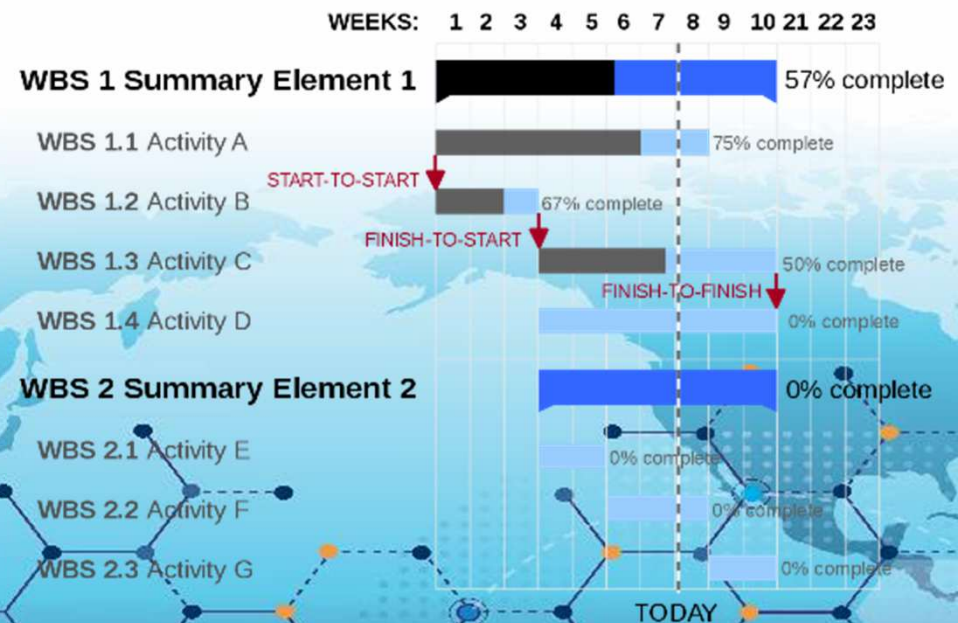
WBS

- Is it real?



Resource plan

- Schedule algorithms

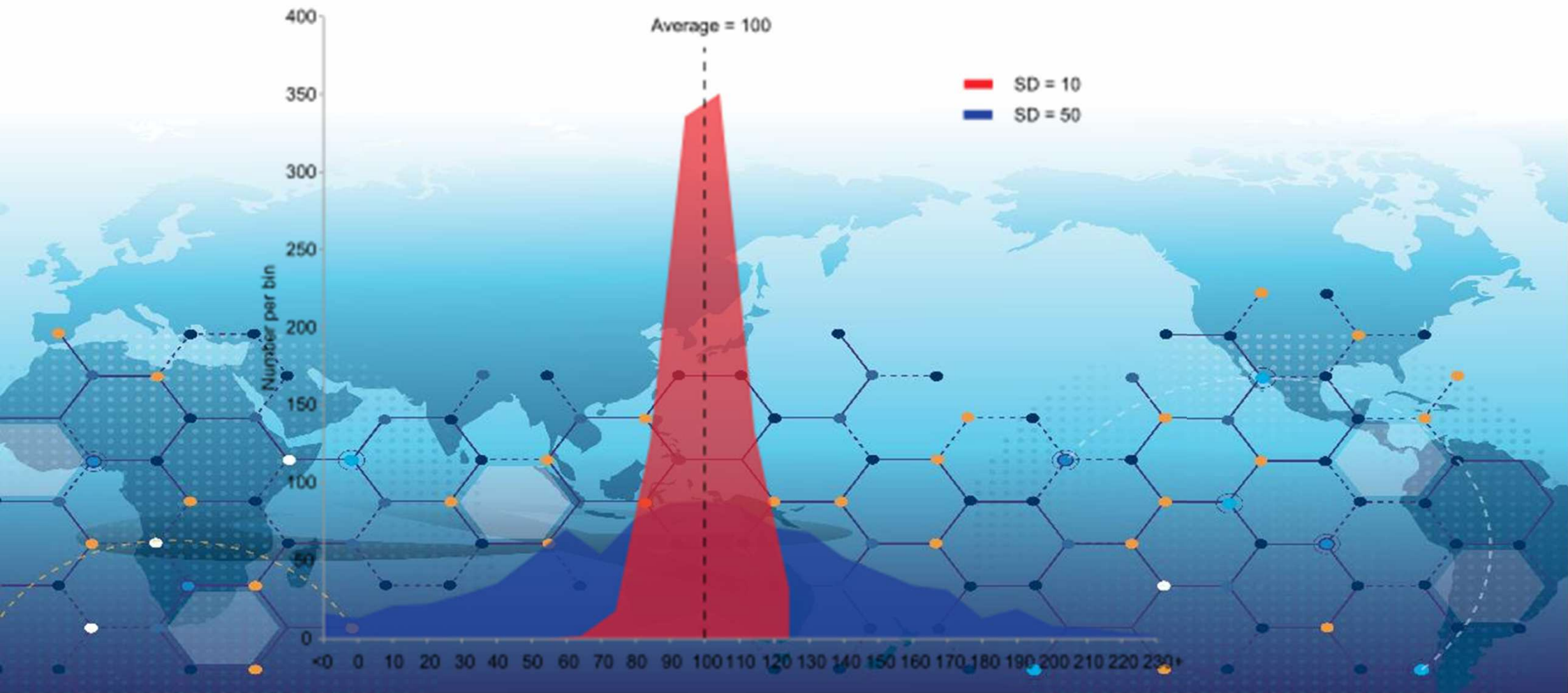


Resource plan

- % allocation

<input type="checkbox"/>	Resource	Act/Fcst Total	19 Nov	26 Nov
	Construction			
<input type="checkbox"/>	Annie Lennox - No longer on team	1029.1	20.0238%	20.0238%
<input type="checkbox"/>	Arthur Williams (Birdcat Construction)	929.1	21.1892%	21.1892%
<input type="checkbox"/>	Bernard Neeson	996.1	20.0238%	20.0238%
<input type="checkbox"/>	Cyndi Lauper (Birdcat Construction Queensland)	929.1	20.0238%	20.0238%
<input type="checkbox"/>	Denise Meehan	929.1	20.0238%	20.0238%
<input type="checkbox"/>	Jane W Smith	929.1	40.0475%	40.0475%
<input type="checkbox"/>	Jo Bloggs	939.1	20.0238%	20.0238%
<input type="checkbox"/>	Tammy Miller	929.1	40.0475%	40.0475%
<input type="checkbox"/>	Tim Mander	929.1	40.0475%	40.0475%
	Search Resource Pool			
		8538.9	24%	24%

Resource plan - You will be wrong



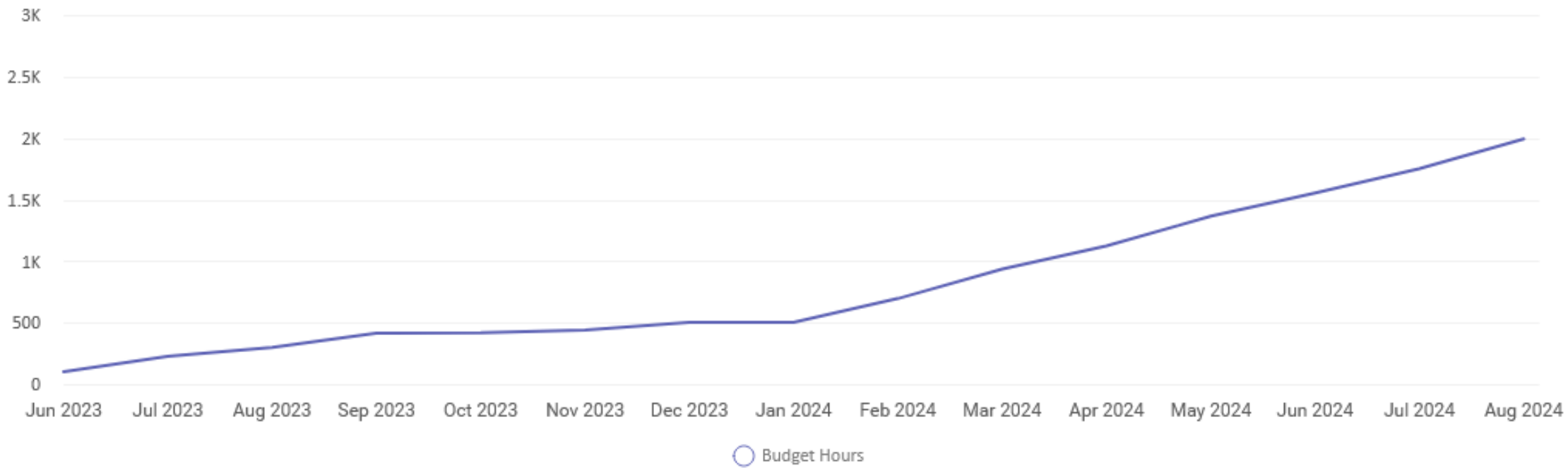
Resource plan

Rates complexity
needs a flexible system



Resource plan - result

Resource Plan





What timesheet system?

Timesheets

- Touches all users – great opportunity
- Distributed data capture
- Comments
- Remaining hours
- Same system as plan
- Matches WBS

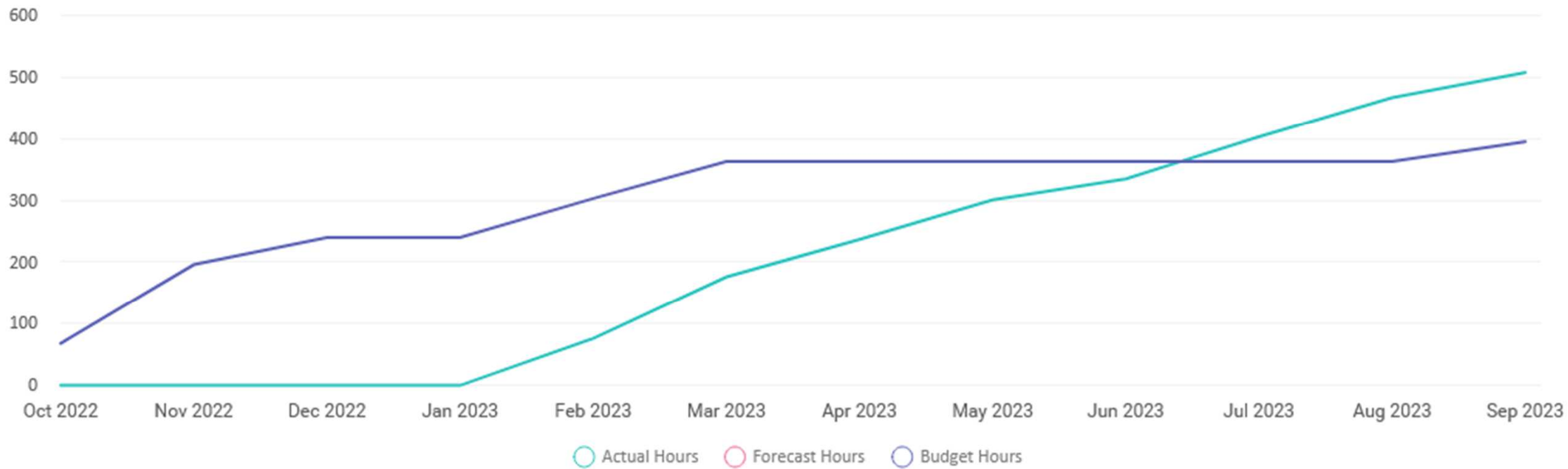


Timesheet - Result



Two Down One To Go

Resource Plan



Progress – How?



Earned profile

Milestone	%
Issued for Review	30
Issued for Approval	20
With Project Engineer	15
Interdisciplinary Review	30
Approved	5

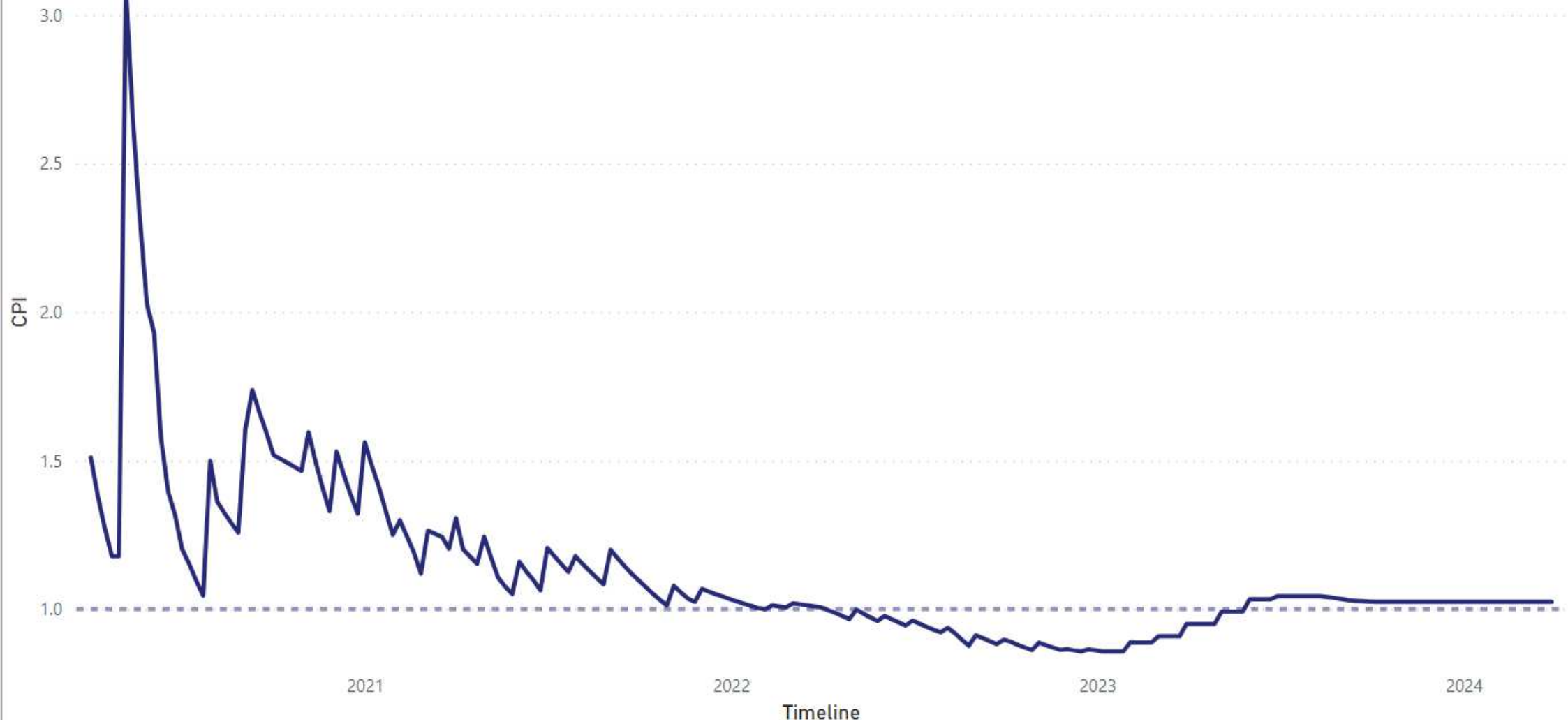
Progress - Automation



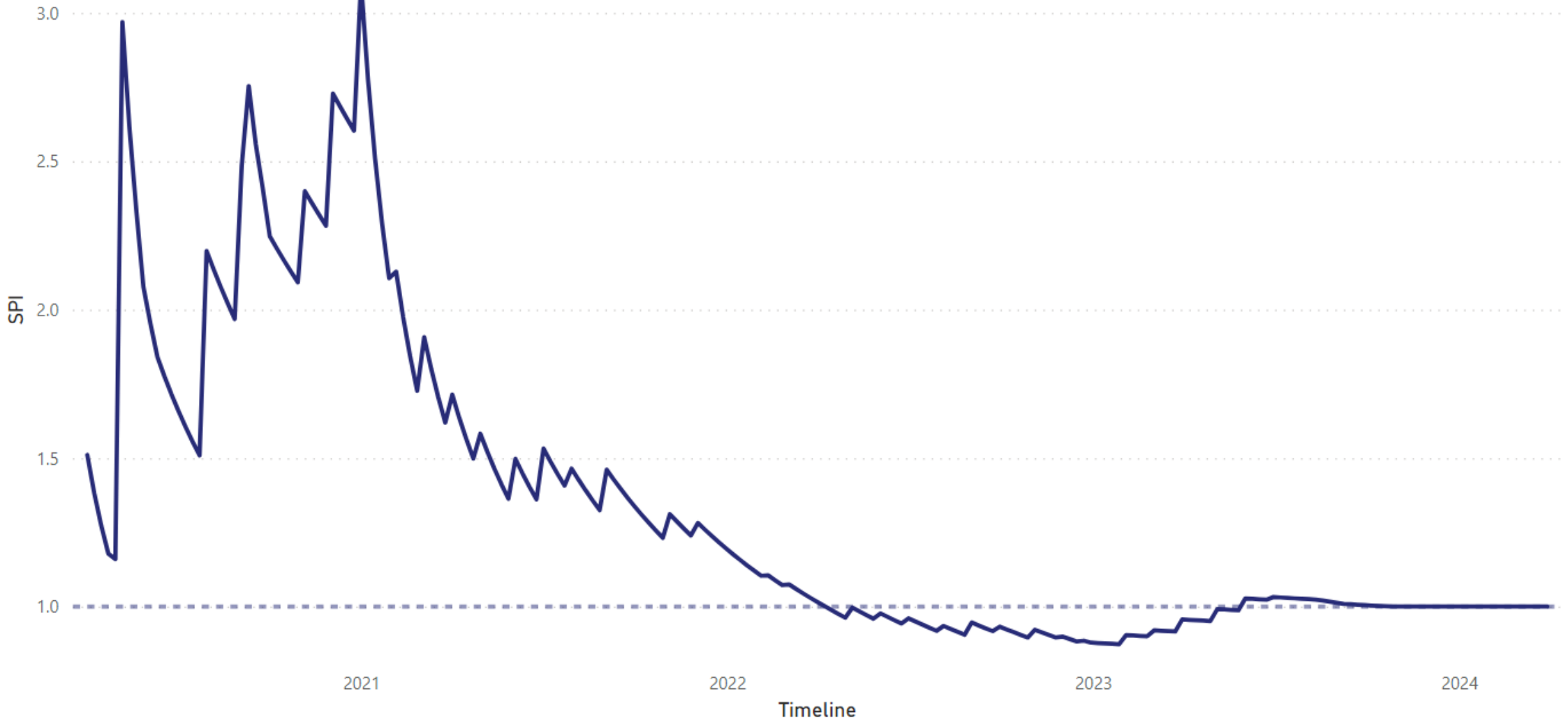
Results

Package	ACWP	BCWP	BCWS	CPI	SPI	EAC	EACi	Approved Budget	More details
1 - Work Package ABC	\$2,281,089	\$2,004,020	\$2,588,625	0.88	0.77	\$2,338,689	\$3,225,327	\$2,646,225	🔗
Work Package ABC	\$125,483					\$125,483	\$125,483		🔗
Work Package ABC - WBS Activity 1	\$1,671,874	\$1,712,332	\$1,712,332	1.02	1.00	\$1,671,874	\$1,671,874	\$1,712,332	🔗
Work Package ABC - WBS Activity 2	\$433,302	\$262,888	\$818,693	0.61	0.32	\$490,902	\$3,581,905	\$876,293	🔗
Work Package ABC - WBS Activity 3	\$50,430	\$28,800	\$57,600	0.57	0.50	\$50,430	\$151,290	\$57,600	🔗
2 - Work Package MNO	\$2,877,468	\$2,032,791	\$2,679,868	0.71	0.76	\$2,937,504	\$4,197,025	\$2,739,905	🔗
Work Package MNO	\$69,850					\$69,850	\$69,850		🔗
Work Package MNO - WBS Activity 1	\$303,906	\$351,658	\$703,316	1.16	0.50	\$303,906	\$911,718	\$703,316	🔗
Work Package MNO - WBS Activity 2	\$1,181,686	\$628,875	\$807,377	0.53	0.78	\$1,241,722	\$1,757,138	\$867,413	🔗
Work Package MNO - WBS Activity 3	\$1,322,026	\$1,052,258	\$1,169,176	0.80	0.90	\$1,322,026	\$1,485,239	\$1,169,176	🔗
3 - Work Package XYZ	\$1,431,453	\$998,473	\$1,702,887	0.70	0.59	\$1,431,453	\$3,153,789	\$1,702,887	🔗
Work Package XYZ	\$102,874					\$102,874	\$102,874		🔗
Work Package XYZ - WBS Activity 1	\$387,639	\$641,608	\$712,898	1.66	0.90	\$387,639	\$435,496	\$712,898	🔗
Work Package XYZ - WBS Activity 2	\$395,116	\$34,532	\$345,323	0.09	0.10	\$395,116	\$35,955,556	\$345,323	🔗
Work Package XYZ - WBS Activity 3	\$545,824	\$322,333	\$644,666	0.59	0.50	\$545,824	\$1,637,472	\$644,666	🔗

Name ● Work Package ABC - WBS Activity 1



Name ● Work Package ABC - WBS Activity 1





Design Stage
N/A

Discipline
All

Zone
All

ProjID - Name
All

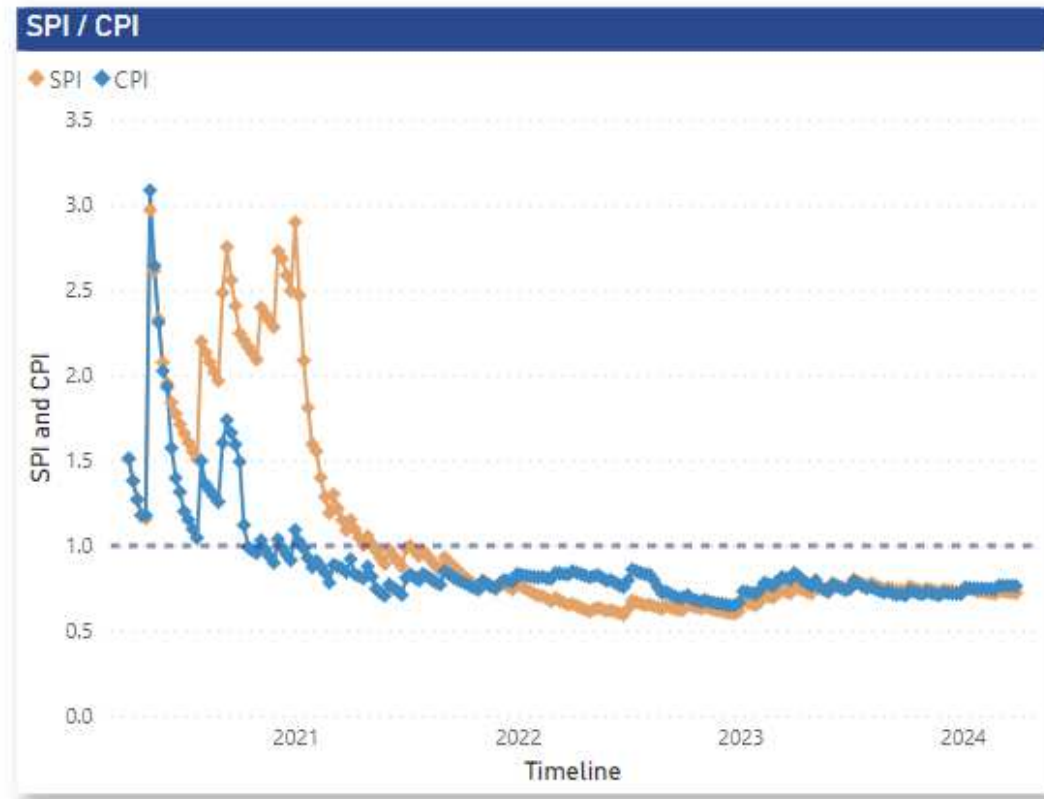
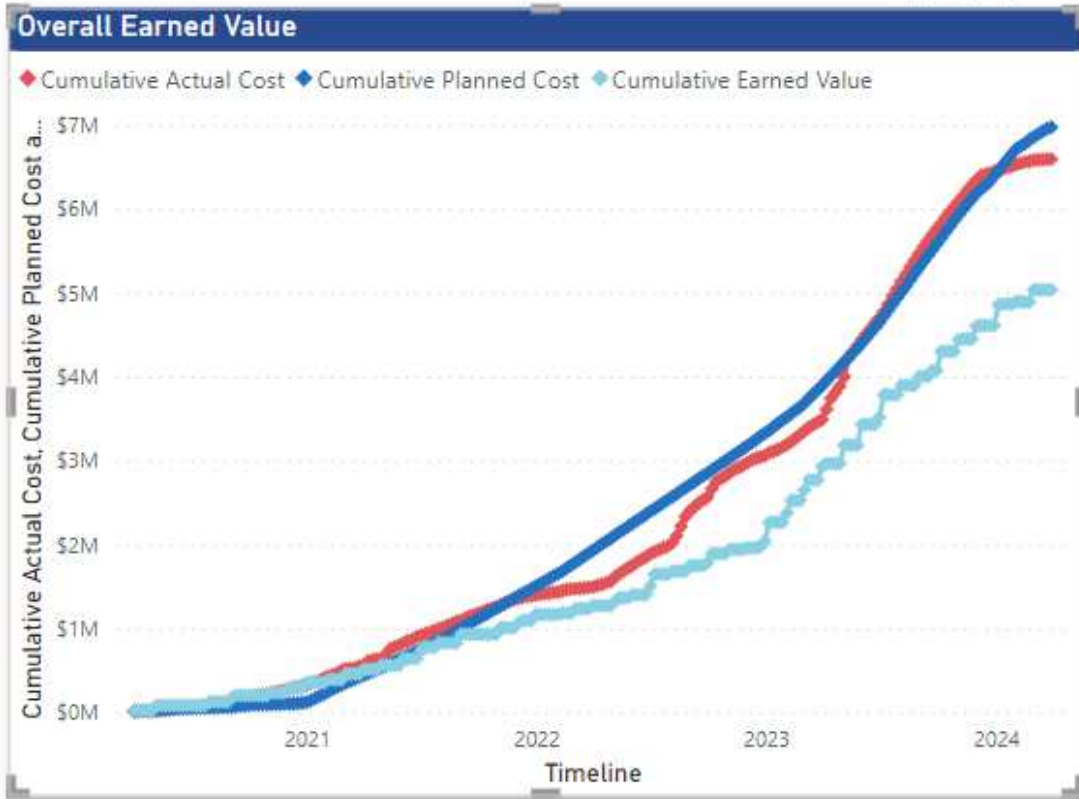
Status Date
29/03/2024

\$5,035,283
EV

\$10,315,504
EACi

0.72
SPI

0.76
CPI



Purposeful Meetings



The background consists of a light blue world map with a grid overlay. In the foreground, there is a dark blue molecular structure composed of interconnected hexagons and pentagons, with various colored dots (orange, blue, white) at the vertices. The overall aesthetic is technical and global.

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