



Earned Value Management Solution

Oracle Global Partner Award Winner
Construction & Engineering
Industry Solutions



ORACLE PRIMAVERA SPECIALISTS
RPC.UK.COM



RPC's Unifier EVM Solution conforms to the American National Standards Institute/Electronic Industries Alliance standard ANSI/EIA-748 – the standard for all US Department of Defense (DoD) Programs.



Value Proposition

RPC's Earned Value Management System facilitates rigorous, updated processes at all levels of an organisation, and the production of the 5 CPR formats required for compliance with the defined standard reporting process.

Flexible: Whilst this EVM solution is an out-of-the-box rapid deployment tool, it can, in partnership with the client, be further configured to incorporate any number of custom business processes.

Collaborative: Fosters a truly collaborative way of working, achieving transparency of data that enables programme teams to make better, more informed decisions at all levels.

Auditable: Full audit trails allow users to track information changes and a Change Control process makes it easy to understand the potential and actual impact to the programme of changes in budget, scope, resources, schedule and more.

Driving performance through an integrated solution

→ **Integrated**

Automated and digitised integrated cross-platform Work Breakdown Structures and their dictionaries

→ **Connected**

Automated and connected budget management to total [CBB](#)

→ **Financial Analysis**

[EV analysis](#) across [financial and work breakdown structures](#)

→ **Variance-based Reporting**

Automated and connected management of Schedule Reserve, [VAR](#) and [BCR](#)

Quick hit credibility

**Transparency of
data that is
always up to date**



**Empowers
collaborative
working**



**Create,
approve,
manage and
track top-down
and bottom-up
reports**



**Simplify
management of
highly complex
programmes**



Quick hit credibility

**Visibility of
change impacts
on the
programme**



**Supports better,
more informed
decision
making**



**Automatic
generation of
VAR reports**



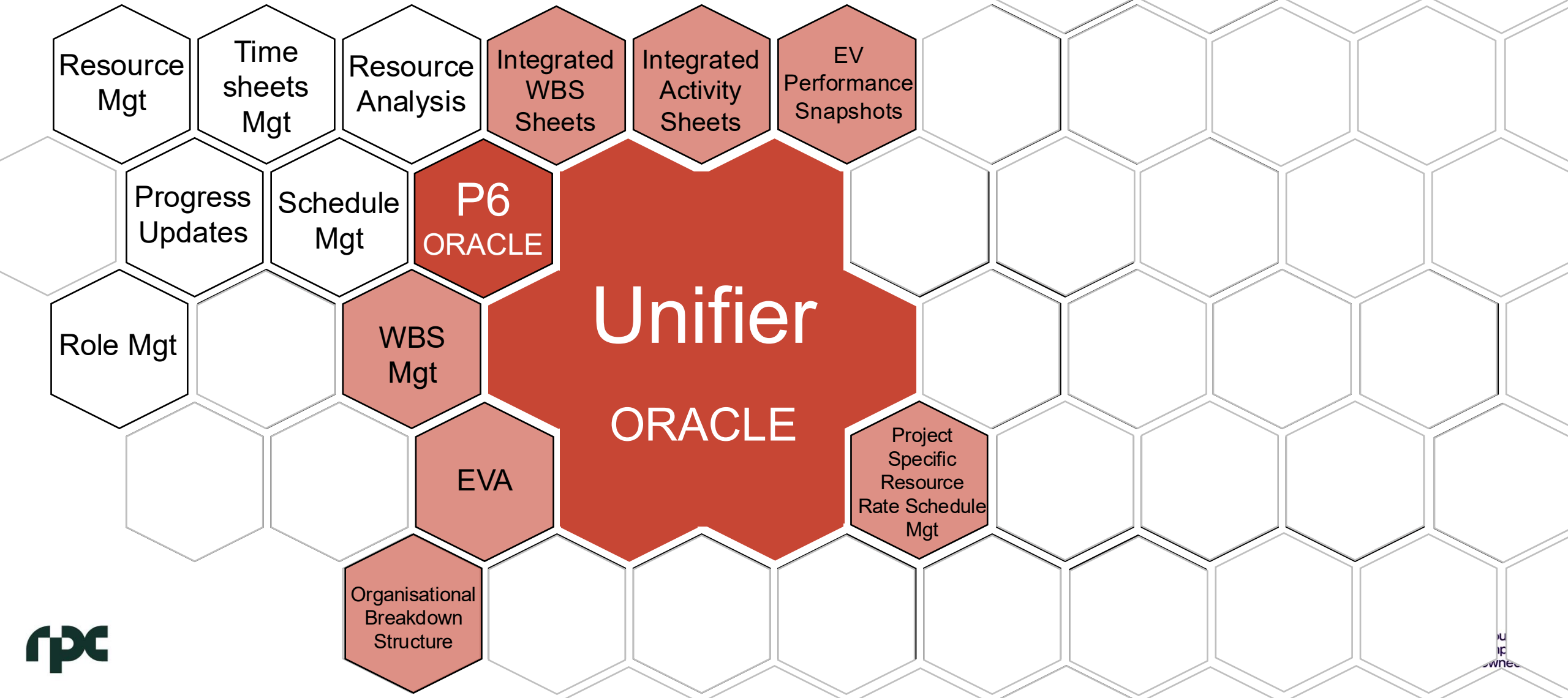
**Templated
workflows and
auditing functions**



Solution Overview

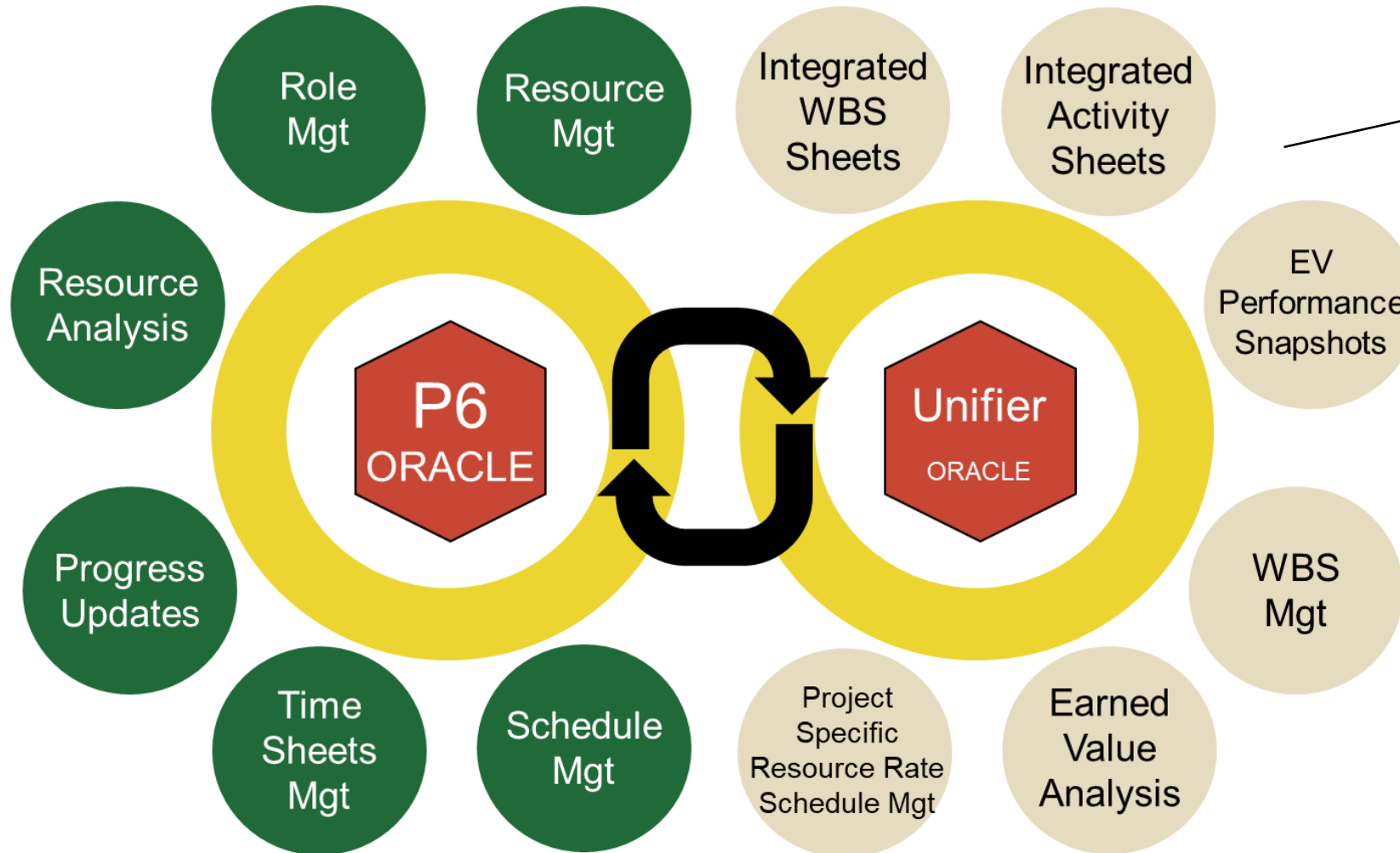


EVM in the Unifier Accelerator



Native Primavera Integrations

→ Automated and Manual Synchronisation with P6 EPPM



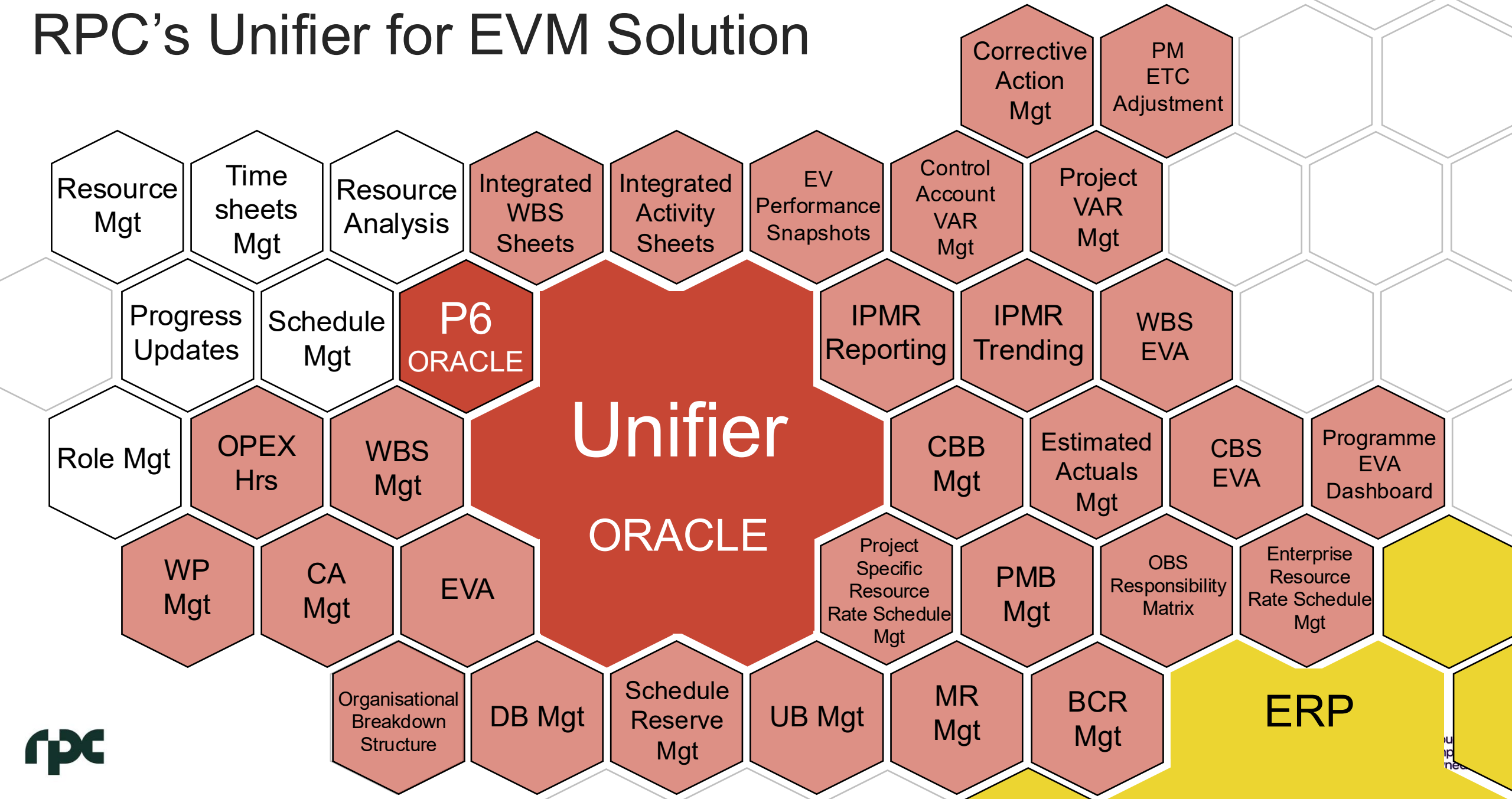
No additional integration licensing required

Unifier out-of-the-box EVM Features

- Organisational Breakdown Structure
- WBS Dictionary Management
- WBS Performance
- Integrated Activity Schedules
- Planning and Actual Rate Schedule Management
- Analysis and Dashboards
- CPR Reporting Data Extracts
- CPR Currency – WBS, OBS and Baseline
- CPR4 Units – Staffing

The Primavera Unifier Earned Value Management Solution augments the out-of-the-box Unifier Accelerator EVM capability for greater depth. When combined with integration to other ERP platforms, such as Fusion, it is a powerful tool.

RPC's Unifier for EVM Solution



→ Baseline Change Requests

Baseline Change Request

+ Create Actions View: All Records [edit] [refresh] [print] [search] [list] [help]

Record No.	Status	BCR Number	BCR Title
BCR-000005	Implemented	100002-BCR-000005	August 2023 Re- Baseline
BCR-000004	Authorised	100002-BCR-000004	CA1 - Distribute PSS PMB Costs
BCR-000003	Authorised	100002-BCR-000003	CA1 - Distribute MR Costs
BCR-000002	Authorised	100002-BCR-000002	CA1 - Distribute OPEX PMB Costs
BCR-000001	Authorised	100002-BCR-000001	CA1 - Distribute EP PMB Costs

BCR logs,
automatically
generated

Baseline Change Request

Accept Decline [dropdown]

General Impacted WBS Nodes Risks and Issues Key Milestones Assumptions Associated Projects Associated Project Groups

Attachments Comments Linked Records Linked Mail **Workflow Progress** Aud [dropdown]

Title Record Number Current Step BP Setup Used

BCR-000004 Implementation PJ_WF

View Graphic... Filter By: Visited Steps

Step Name	Assignee	C...	Status	Action	Completion Date
Creation	Company Admini...	RPC ...	Completed	Send for Initial Re...	29/08/2023 02:06 PM (UTC+0)
Initial Change Rev...	Company Admini...	RPC ...	Completed	Send for Impact ...	29/08/2023 02:07 PM (UTC+0)
Change Impact A...	Company Admini...	RPC ...	Completed	Send for Authoris...	29/08/2023 02:07 PM (UTC+0)

BCR management workflow built in

Impact Assessment Summary: Current PMB Position

Impact Assessment Summary: Delta/Change PMB	
Delta/Change EP PMB	Distributed EP PMB
£0.00	£0.00
Delta/Change PSS PMB	Distributed PSS PMB
£0.00	£1,000,000.00

→ WBS Dictionary Management

System WBS Sheet Project: P6 - RPC_SE_2023_01

View: (Modified) Default Currency: Pound Sterling (GBP)

	WBS Code	WBS Name	Sequence Path	WBS Type	Funding Type	Performance Measurement Type	Supplier	OBS
1	RPC_SE_2023...							
2	RPC_SE_20...	RPC Space Engine 2023 01 ROOT	110	WBS Element	OP Cost	EVM		Project Manager
3	1	High Trajectory Launch Space Engine CA	110.20	Control Account	OP Cost	EVM		Project Manager
4	1ASMB	Assembly WP	110.20.30	Work Package	EP Cost	EVM		Senior Engineer
5	1CMP	Components WP	110.20.20	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
6	1C...	Cylinder Heads	110.20.20.20	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
7	1C...	Engine Block	110.20.20.10	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
8	1C...	Engine Internals	110.20.20.30	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
9	1DES	Design WP	110.20.10	Work Package	EP Cost	EVM		Lead Designer
10	1PD	Packaging & Delivery WP	110.20.50	Work Package	PSS			Distribution Man...
11	1TST	Test WP	110.20.40	Work Package	EP Cost	EVM		Lead Tester
12	2	Soft Eject Landing Engine CA	110.30	Control Account	OP Cost	EVM		Project Manager
13	2ASMB	Assembly WP	110.30.30	Work Package	EP Cost	EVM		Senior Engineer
14	2CMP	Components WP	110.30.20	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
15	2C...	Cylinder Heads	110.30.20.20	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
16	2C...	Engine Block	110.30.20.10	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
17	2C...	Engine Internals	110.30.20.30	Work Package	EP Cost	EVM	Weyland Corp	Senior Engineer
18	2DES	Design WP	110.30.10	Work Package	EP Cost	EVM		Lead Designer

Allocation and management of WBS responsibilities

Identification of WBS type

General Variance Analysis Linked Records

> **General WBS Information**

▼ **Responsibility**

OBS

Senior Engineer

PUID

SE1

Short Name

SE

Full Name

Senior Engineer

Title

Department

Aerospace

Auditability and accountability ensure clear, at-a-glance visibility of any information or responsibilities that have been changed, and by whom

→ Budget Distribution

Budget automatically distributed through the BCR process

System WBS Sheet Project: P6 - RPC_SE_20

View: (Modified) Default Currency: Pound Sterling (GBP)

	WBS Code	WBS Name	Distributed EP PMB	Distributed PSS PMB	Distributed OPEX PMB	Distributed Total PMB	Distributed Management Reserve (MR)
1	RPC_SE_2023...		£9,001,584.00	£1,000,000.00	£1,538,160.00	£11,539,744.00	£1,600,000.00
2	RPC_SE_20...	RPC Space Engine 2023 01 ROOT	£9,001,584.00	£1,000,000.00	£1,538,160.00	£11,539,744.00	£1,600,000.00
3	1	High Trajectory Launch Space Engine CA	£9,001,584.00	£1,000,000.00	£1,538,160.00	£11,539,744.00	£1,600,000.00
4	1ASMB	Assembly WP	£435,872.00	£0.00	£0.00	£435,872.00	£500,000.00
5	1CMP	Components WP	£6,819,200.00	£0.00	£0.00	£6,819,200.00	£500,000.00
6	1C...	Cylinder Heads	£2,186,520.00	£0.00	£0.00	£2,186,520.00	£200,000.00
7	1C...	Engine Block	£4,319,000.00	£0.00	£0.00	£4,319,000.00	£200,000.00
8	1C...	Engine Internals	£313,680.00	£0.00	£0.00	£313,680.00	£100,000.00
9	1DES	Design WP	£1,307,600.00	£1,000,000.00	£0.00	£2,307,600.00	£250,000.00
10	1PD	Packaging & Delivery WP	£0.00	£0.00	£1,538,160.00	£1,538,160.00	£100,000.00
11	1TST	Test WP	£438,912.00	£0.00	£0.00	£438,912.00	£250,000.00
12	2	Soft Eject Landing Engine CA	£0.00	£0.00	£0.00	£0.00	£0.00

→ EVM Data Snapshots

The screenshot displays the Oracle Primavera Unifier interface. On the left is a navigation menu with options like Alerts, Task Manager, E-Signatures, Mailbox, Information, Activity Manager, Cost Manager, Earned Value Manager, Earned Value BP's, Baseline PMB, MR an..., Baseline Change Req..., ACWP, PM ETC Adjustment..., PM ETC Adjustment, Performance Snapshot (highlighted), Variance Analysis Re..., Monthly Project Perf..., Internal Functions, and Reports.

The main area shows a 'Performance Snapshot' log with the following data:

Record No.	Status	Creator	Creation Date	Reporting Pe
SS-000004	Posted	Company Administrator	29/08/2023 04:06 PM	23/24 AP
SS-000003	Posted	Company Administrator	29/08/2023 03:45 PM	23/24 AP
SS-000002	Posted	Company Administrator	29/08/2023 03:23 PM	23/24 AP
SS-000001	Posted	Company Administrator	29/08/2023 02:58 PM	23/24 AP

An inset window titled 'Performance Snapshot' provides a detailed view of a record. It includes a 'General' tab and a table with the following columns: No., Short Description, Number of Performance Threshold, Reporting Period, Period Start Date, Period End Date, WBS Path, WBS Code, and WBS Name.

No.	Short Description	Number of Performance Threshold	Reporting Period	Period Start Date	Period End Date	WBS Path	WBS Code	WBS Name
004	WBS Performance	1	23/24 AP04 JUL	01/07/2023	31/07/2023	RPC_SE_2023_02...	3	Orbit Stabilising ...
003	WBS Performance	2	23/24 AP04 JUL	01/07/2023	31/07/2023	RPC_SE_2023_02...	2	Soft Eject Landin...
002	WBS Performance	1	23/24 AP04 JUL	01/07/2023	31/07/2023	RPC_SE_2023_02...	1	High Trajectory L...
001	Project/Project G...	2	23/24 AP04 JUL	01/07/2023	31/07/2023	100003	100003	RPC Space Engin...

Below the table, a form shows details for record SS-000004, including 'General Workfl' and 'Reporting Period' sections.

Two callout boxes provide context:

- A dark green box with white text: "Automatically generated snapshot log" (pointing to the log table).
- A dark green box with white text: "Snapshot captures cumulative to date and previous period performance data" (pointing to the 'Reporting Period' field in the form).

→ Variation Analysis

Automated and manual creation of VAR's

Variance Analysis Report

+ Create Actions View: (Modified) All Records

Record No.	Status	Reporting Period	Period Start
VAR-000001		AP01 APR	01/04
VAR-000002		AP01 APR	01/04
VAR-000003		AP01 APR	01/04
VAR-000004		AP02 MAY	01/05
VAR-000005		AP02 MAY	01/05
VAR-000006	Pending	23/24 AP02 MAY	01/05
VAR-000007	Authorised	23/24 AP03 JUN	01/06
VAR-000008	Authorised	23/24 AP03 JUN	01/06
VAR-000009	Pending	23/24 AP03 JUN	01/06
VAR-000010	Authorised	23/24 AP04 JUL	01/07
VAR-000011	Authorised	23/24 AP04 JUL	01/07
VAR-000012	Authorised	23/24 AP04 JUL	01/07
VAR-000013	Pending	23/24 AP05 AUG	01/08
VAR-000014	Pending	23/24 AP05 AUG	01/08
VAR-000015	Pending	23/24 AP05 AUG	01/08

Manual and automatically created VAR's using EVM Snapshots

Record Details Workflow Progress Attachments

General Record Information

Record No.: VAR-000001 Status: Authorised

Number of Performance Threshold Breaches: 2 Reporting Period: 23/24 AP01 APR

Period Start Date: 01/04/2023 Period End Date: 30/04/2023

General Workflow Information

WBS Additional Information

WBS Responsibility Information

Current Period Performance

Period PV	Period Unifier ACWP	Period P6 AC	Period Total AC
152,320.00	0.00	168,000.00	168,000.00
Period EV	Period SV	Period CV	Period SPI
161,280.00	8,960.00	(6,720.00)	1.06
Period CPI	0.96		

Cumulative Performance

At Completion

Automated VAR log creation

Variance Analysis Report



General Additional Information Items

▼ Cumulative VAC % Variances

- Cum VAC % Lower Threshold Breached
- Cum VAC % Upper Threshold Breached

BAC	EAC	VAC
10,539,744.00	10,546,464.00	(6,720.00)

Cumulative VAC % Impact, Analysis and Corrective Actions

Variance accepted no action at this time.

Easy to identify performance threshold breaches

Capture CA against each threshold breach

▼ Cumulative PM Adjusted VAC % Variances

- Cum PM VAC % Lower Threshold Breached
- Cum PM VAC % Upper Threshold Breached

BAC	PM Adjusted ETC	PM Adjusted EAC	PM Adjusted VAC
10,539,744.00	10,378,464.00	10,546,464.00	(6,720.00)

Cumulative PM Adjusted VAC % Impact, Analysis and Corrective Actions

Variance accepted no action at this time.

Control changes to the programme and understand the potential and actual impact alongside corrections and variation analysis for budgets, resources and performance data, enabling users to define, agree and implement corrective mitigating actions.

→ Estimated Actuals by WBS and CBS

Estimated Actuals automatically assigned to correct time period

Estimated Actuals get automatically added to integrated Actuals from P6

Allocate the Estimated Actual to the CBS

Allocate the Estimated Actual to the WBS

Define the amount for the period to be included

The screenshot displays the ACWP (Actual Cost of Work Performed) interface. At the top, there is a table with columns: Record No., Status, Action Selected, Sent On, Sent By, and Reporting Period. Below this is a detailed view of a record with columns: No., Short Description, WBS Picker, WBS Path, WBS Name, Fundi... Type, Cost Code, Code Name, and Period Unifier ACWP. A 'TOTAL' row is visible at the bottom of the table, showing a total amount of £877,040.00.

Record No.	Status	Action Selected	Sent On	Sent By	Reporting Period
ACWP-000005	Posted	Post Period ACWP	29/08/2023 05:26 PM	Company Administrator	23/24 AP05 A
ACWP-000004	Posted	Post Period ACWP	24/08/2023 04:22 PM	Company Administrator	23/24 AP04 .
ACWP-000003	Posted	Post Period ACWP	24/08/2023 04:02 PM	Company Administrator	23/24 AP03 :

No.	Short Description	WBS Picker	WBS Path	WBS Name	Fundi... Type	Cost Code	Code Name	Period Unifier ACWP
003	2023/2024 - Aug	1DES	RPC_SE_2023_01...	Design WP	EP Cost	LPC.Tas...	RAC	£257,760.00
002	2023/2024 - Aug	2DES	RPC_SE_2023_01...	Design WP	EP Cost	LPC.Tas...	RAC	£417,680.00
001	2023/2024 - Aug	3DES	RPC_SE_2023_01...	Design WP	EP Cost	LPC.Tas...	RAC	£201,600.00
TOTAL								£877,040.00

→ Project Manager ETC Adjustments

Define the adjustment by WBS and CBS

The screenshot shows the 'PM ETC Adjustment Requests' interface. At the top, there's a header with 'PM ETC Adjustment Requests' and a toolbar with 'Create', 'Actions', 'View: All Records', and various icons. Below this is a table with columns: Record No., Status, Creator, Creation Date, Active Period (days), and Tran Date. A single record is visible: PMETCRQ-0..., Posted, Company Administrator, 30/08/2023 10:55 AM, 15, 14/09/2023.

Below the table is a browser window showing the URL: demo21-evm.rpc.uk.com/bp/mod/bp/record/open/uxl10094/1/0/0?srcid=1&model=uxl10094&fromcos... The page title is 'PM ETC Adjustment Requests' and it has tabs for 'General' and 'PM ETC Adjustments'. The 'PM ETC Adjustments' tab is active, showing a table with columns: No., Short Description, WBS Picker, WBS Path, WBS Name, Cost Code, Code Name, and ETC Adjustment.

No.	Short Description	WBS Picker	WBS Path	WBS Name	Cost Code	Code Name	ETC Adjustment
003	PM ETC Adjustment	3DES	RPC_SE_2023_0...	Design WP	LPC.Tas...	RAC	£100,000.00
002	PM ETC Adjustment	2DES	RPC_SE_2023_0...	Design WP	LPC.Tas...	RAC	£150,000.00
001	PM ETC Adjustment	1DES	RPC_SE_2023_0...	Design WP	LPC.Tas...	RAC	£250,000.00
TOTAL							£500,000.00

At the bottom of the table, it says 'Total: 3'.

On the right side, there are tabs for 'Record Details', 'Workflow Progress', and 'Attachments'. The 'Record Details' tab is active, showing sections: 'General Record Information' (Record No. PMETCRQ-000001), 'General Workflow Information' (Creator: Company Administrator), 'General PM ETC Adjustment Information' (Active Period (days): 15, Transaction Reversal Date: 14/09/2023), and 'Reason / Justification' (Reason / Justification: Delay in design phase has impacted the ETC.).

Three callout boxes are present: 1. 'Define the adjustment by WBS and CBS' points to the 'WBS Picker' column in the table. 2. 'Automatically reversed at the defined time' points to the 'Active Period (days)' field. 3. 'Include commentary for background information' points to the 'Reason / Justification' text area.

→ CPR Reporting Data – Extracts Solution Set

All data automatically populated

Multiple filter parameters

Switch between projects in interactive mode

Variety of output formats

Solution set generated in Oracle BI Publisher

ORACLE BI Publisher Enterprise

RPC - IPMR EV By WBS - Currency - Project Level

Report Type: Detail

TLB: All | Business Unit: All | Business Group: All | Delivery Group: All | Portfolio: All

Project Group: All | Project: RPC Space Engine 2023 01 | Hierarchy Level: All | WBS Parent: All | WBS Type: Control Account | Funding Type: All

PRJ_NUMBER 100002

INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR) EV BY WBS - CURRENCY

WORK BREAKDOWN STRUCTURE

PROJECT	Number: 100002	Data Date: 01/09/2023
	Name: RPC Space Engine 2023 01 RL	Period Start Date: 01/08/2023
		Period Finish Date: 31/08/2023
		Run Date: 23/02/2024

	EP PMB	PSS PMB	OPEX PMB	TOTAL PMB	MR
ORIGINAL:	£27,019,472	£3,000,000	£4,614,480	£34,633,952	£4,800,000
DELTA / CHANGE:	£385,100	£0	£0	£385,100	£0
NEW / REVISED:	£27,404,572	£3,000,000	£4,614,480	£35,019,052	£4,800,000
DISTRIBUTED:	£9,001,584	£1,000,000	£1,538,160	£11,539,744	£1,600,000
UNDISTRIBUTED:	£18,402,988	£2,000,000	£3,076,320	£23,479,308	£3,200,000

PERFORMANCE DATA

WBS	WBS Name	Funding Type	CURRENT PERIOD							CUMULATIVE TO DATE							AT COMPLETION						
			EV	PV	AC	SV	CV	SPI	CPI	EV	PV	AC	SV	CV	SPI	CPI	BAC	ETC	EAC	VAC	TCPI(BAC)	PM Adj ETC	PM Adj EAC
	High Trajectory Launch Space Engine CA	OP Cost	£280,160	£289,120	£257,760	-£8,960	£22,400	0.97	1.09	£1,226,960	£1,235,920	£1,264,760	-£8,960	£-37,800	0.99	0.97	£10,539,904	£3,553,800	£4,818,560	£5,721,344	1.00	£3,553,800	£4,818,560
	Soft Eject Landing Engine CA	OP Cost	£417,680	£308,720	£417,680	£108,960	£0	1.35	1.00	£910,480	£892,320	£922,680	£18,160	£-12,200	1.02	0.99	£10,546,592	£3,826,200	£4,748,880	£5,797,760	1.00	£3,826,200	£4,748,880
	Orbit Stabilising Engine CA	OP Cost	£197,120	£134,400	£201,600	£62,720	£-4,480	1.47	0.98	£465,920	£492,800	£604,600	£-26,880	£-138,680	0.95	0.77	£10,549,216	£4,050,704	£4,655,304	£5,893,912	1.01	£4,050,704	£4,655,304
	TOTAL	TOTAL	£894,960	£732,240	£877,040	£162,720	£17,920	1.22	1.02	£2,603,360	£2,621,040	£2,792,040	£-17,680	£-188,680	0.99	0.93	£31,635,712	£11,430,704	£14,222,744	£17,412,968	1.01		

Highlighted key information

Additional report requirements can be met using Oracle BI Publisher



→ CPR1 – Currency EV by WBS Solution Set

Multiple filter parameters, inc. Shell hierarchy, WBS Type, Funding Type and other WBS attributes

Shell data

RPC - IPMR EV By WBS - Currency - Project Level

Report Type: Detail

TLB: All | Business Unit: All | Business Group: All | Delivery Group: All | Portfolio: All

Project Group: All | Project: RPC Space Engine 2023 01 | Hierarchy Level: All | WBS Parent: All | WBS Type: Control Account | Funding Type: All

PRJ_NUMBER 100002

INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR) EV BY WBS - CURRENCY

WORK BREAKDOWN STRUCTURE

PROJECT	Number : 100002	Data Date : 01/09/2023
	Name : RPC Space Engine 2023 01 RL	Period Start Date : 01/08/2023
		Period Finish Date : 31/08/2023
		Run Date : 22/02/2024

FINANCIAL PERIODS

ORIGINAL :	EP PMB	PSS PMB	OPEX PMB	TOTAL PMB	MR
DELTA / CHANGE :	£27,019,472	£3,000,000	£4,614,480	£34,633,952	£4,800,000
NEW / REVISED :	£385,100	£0	£0	£385,100	£0
DISTRIBUTED :	£27,404,572	£3,000,000	£4,614,480	£35,019,052	£4,800,000
UNDISTRIBUTED :	£9,001,584	£1,000,000	£1,538,160	£11,539,744	£1,600,000
	£18,402,988	£2,000,000	£3,076,320	£23,479,308	£3,200,000

PERFORMANCE DATA

WBS	Funding Type	CURRENT PERIOD						CUMULATIVE TO DATE						AT COMPLETION								
		EV	PV	AC	SV	CV	SPI	CPI	EV	PV	AC	SV	CV	SPI	CPI	BAC	ETC	EAC	VAC	TCP(BAC)	PM Adj ETC	PM Adj EAC
High Trajectory Launch Space Engine CA	OP Cost	£280,160	£289,120	£257,760	-£8,960	£22,400	0.97	1.09	£1,226,960	£1,235,920	£1,264,760	-£8,960	-£37,800	0.99	0.97	£10,539,904	£3,553,800	£4,818,560	£5,721,344	1.00	£3,553,800.00	£4,818,560.00
Soft Eject Landing Engine CA	OP Cost	£417,680	£308,720	£417,680	£108,960	£0	1.35	1.00	£910,480	£892,320	£922,680	£18,160	-£12,200	1.02	0.99	£10,546,592	£3,826,200	£4,748,880	£5,797,712	1.00	£3,826,200.00	£4,748,880.00
Orbit Stabilising Engine CA	OP Cost	£197,120	£134,400	£201,600	£62,720	-£4,480	1.47	0.98	£465,920	£492,800	£604,600	£26,880	-£138,680	0.95	0.77	£10,549,216	£4,050,704	£4,655,304	£5,893,912	1.01	£4,050,704.00	£4,655,304.00
TOTAL	TOTAL	£894,960	£732,240	£877,040	£162,720	£17,920	1.22	1.02	£2,603,360	£2,621,040	£2,792,040	-£17,680	-£188,680	0.99	0.93	£31,635,712	£11,430,704	£14,222,744	£17,412,968	1.01	£11,430,704.00	£14,222,744.00

Cost Performance data displayed by WBS

Earned Value Data by Current Period showing Budgeted Cost, Actual Cost and the Variance

Cumulative to Date Earned Value Data showing Budgeted Cost, Actual Cost and the Variance

VAR threshold breach indication

Period data

Budget Distribution

At Completion Earned Value Data showing Budgeted Cost, Estimated Cost and the Variance

→ CPR2 – Currency – EV by OBS Solution Set

Multiple filter parameters, inc. Shell hierarchy, WBS Type, Funding Type and other WBS attributes

RPC - IPMR EV By OBS - Currency - Project Level

Report Type: Detail

TLB: All | Business Unit: All | Business Group: All | Delivery Group: All | Portfolio: All

Project Group: All | Project: RPC Space Engine 2023 01 I | Hierarchy Level: All | WBS Parent: RPC_SE_2023_01_RPC_SE | WBS Type: All | Funding Type: All | Apply

PRJ_NUMBER: 100002

INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR) - EV BY OBS - CURRENCY

ORGANISATIONAL BREAKDOWN STRUCTURE

PROJECT	Number: 100002	FINANCIAL PERIODS	Date Date: 01/09/2023
	Name: RPC Space Engine 2023 01 RL		Period Start Date: 01/08/2023
			Period Finish Date: 31/08/2023
			Run Date: 22/02/2024

	EP PMB	PSS PMB	OPEX PMB	TOTAL PMB	MR
ORIGINAL:	£27,019,472	£3,000,000	£4,614,480	£34,633,952	£4,800,000
DELTA / CHANGE:	£385,100	£0	£0	£385,100	£0
NEW / REVISED:	£27,404,572	£3,000,000	£4,614,480	£35,019,052	£4,800,000
DISTRIBUTED:	£9,001,584	£1,000,000	£1,538,160	£11,539,744	£1,600,000
UNDISTRIBUTED:	£18,402,988	£2,000,000	£3,076,320	£23,479,308	£3,200,000

PERFORMANCE DATA

OBS - WBS		CURRENT PERIOD								CUMULATIVE TO DATE								AT COMPLETION			
OBS Name	WBS Name	Funding Type	EV	PV	AC	SV	CV	SPI	CPI	EV	PV	AC	SV	CV	SPI	CPI	BAC	ETC	EAC	VAC	TCPI(BAC)
Lead Designer	Design WP	EP Cost	£280,160	£289,120	£257,760	-£8,960	£22,400	0.97	1.09	£1,226,960	£1,235,920	£1,264,760	-£8,960	-£37,800	0.99	0.97	£1,307,600	£542,400	£1,807,160	-£499,560	1.00
Senior Engineer	Components WP	EP Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£6,819,200	£4,319,000	£4,319,000	£2,500,200	1.00
	Engine Block	EP Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£4,319,000	£4,319,000	£4,319,000	£0	1.00
	Cylinder Heads	EP Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£2,186,520	£2,186,520	£2,186,520	£0	1.00
	Engine Internals	EP Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£313,680	£1,038,800	£1,038,800	-£725,420	1.00
	Assembly WP	EP Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£436,032	£1,038,800	£1,038,800	-£602,768	1.00
Lead Tester	Test WP	EP Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£438,912	£1,038,800	£1,038,800	-£599,888	1.00
Distribution Manager	Packaging & Delivery WP	PSS Cost	£0	£0	£0	£0	£0			£0	£0	£0	£0	£0			£1,538,160	£1,538,160	£1,538,160	£0	1.00
TOTAL	TOTAL	TOTAL	£280,160	£289,120	£257,760	-£8,960	£22,400	0.97	1.09	£1,226,960	£1,235,920	£1,264,760	-£8,960	-£37,800	0.99	0.97	£10,539,904	£8,477,160	£9,741,920	£797,884	1.00

At Completion Earned Value Data showing Budgeted Cost, Estimated Cost and the Variance

VAR threshold breach indication

→ CPR3 – Currency – Baseline Change Solution Set

Shell hierarchy filter parameters

Previous captured Baseline information

Baseline Change Requests Authorised in Period

Current Baseline information

IPC - IPMR Baseline Change - Currency - Project Level

TLB: All Business Unit: All Business Group: All Delivery Group: All Portfolio: All

Project Group: All Project: RPC Space Engine 2023 011 Apply

IPMR Baseline Change - ...

PRJ_NUMBER 100002

INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR) - BASELINE CHANGE - CURRENCY						
PROJECT	Number : 100002		FINANCIAL PERIODS		Data Date : 01/09/2023	
	Name : RPC Space Engine 2023 01 RL				Period Start Date : 01/08/2023	
					Period Finish Date : 31/08/2023	
					Run Date : 22/02/2024	
	EP PMB	P55 PMB	OPEX PMB	TOTAL PMB	MR	
ORIGINAL :	£27,019,472	£3,000,000	£4,614,480	£34,633,952	£4,800,000	
DELTA / CHANGE :	£385,100	£0	£0	£385,100	£0	
NEW / REVISED :	£27,404,572	£3,000,000	£4,614,480	£35,019,052	£4,800,000	
DISTRIBUTED :	£9,001,584	£1,000,000	£1,538,160	£11,539,744	£1,600,000	
UNDISTRIBUTED :	£18,402,988	£2,000,000	£3,076,320	£23,479,308	£3,200,000	

PERFORMANCE MEASUREMENT BASELINE DATA															
	1. PV Cumulative to Date	2. PV This Period Value	3. 2023-04	3. 2023-05	3. 2023-06	3. 2023-07	3. 2023-08	3. 2023-09	3. 2023-10	3. 2023-11	3. 2023-12	3. 2024-01	3. 2024-02	3. 2024-03	4. Total
	£	£	£	£	£	£	£	£	£	£	£	£	£	£	£
A. Performance Measurement Baseline (Beginning of Period)	£2,838,900	£0	£182,320	£331,520	£601,200	£803,680	£950,160	£7,052,720	£8,935,080	£8,000,300	£738,080	£1,959,382	£3,232,288	£27,432	£31,833,952
B. Baseline Change Authorised During Reporting Period	100002 BCR 000006 Baseline Change 08-2023	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£1,900
C. Performance Measurement Baseline (End of Period)	£2,821,040	£777,760	£182,320	£340,480	£628,800	£721,800	£777,760	£7,044,400	£7,019,840	£8,811,800	£806,640	£1,223,632	£2,386,272	£47,304	£31,835,712
D. Management Reserve	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£0	£4,800,000

	PMB (End of Period) - TOTAL BUDGET	PMB (Beginning of Period) - TOTAL BUDGET	BCR - TOTAL BUDGET	VARIANCE
TOTAL : Implemented BCR Variance	£31,835,712	£31,833,952	£1,900	£1,400

Baseline Change requests, measured against the previous and current baseline

→ CPR4 – Units – Staffing Solution Set

Shell hierarchy filter parameters

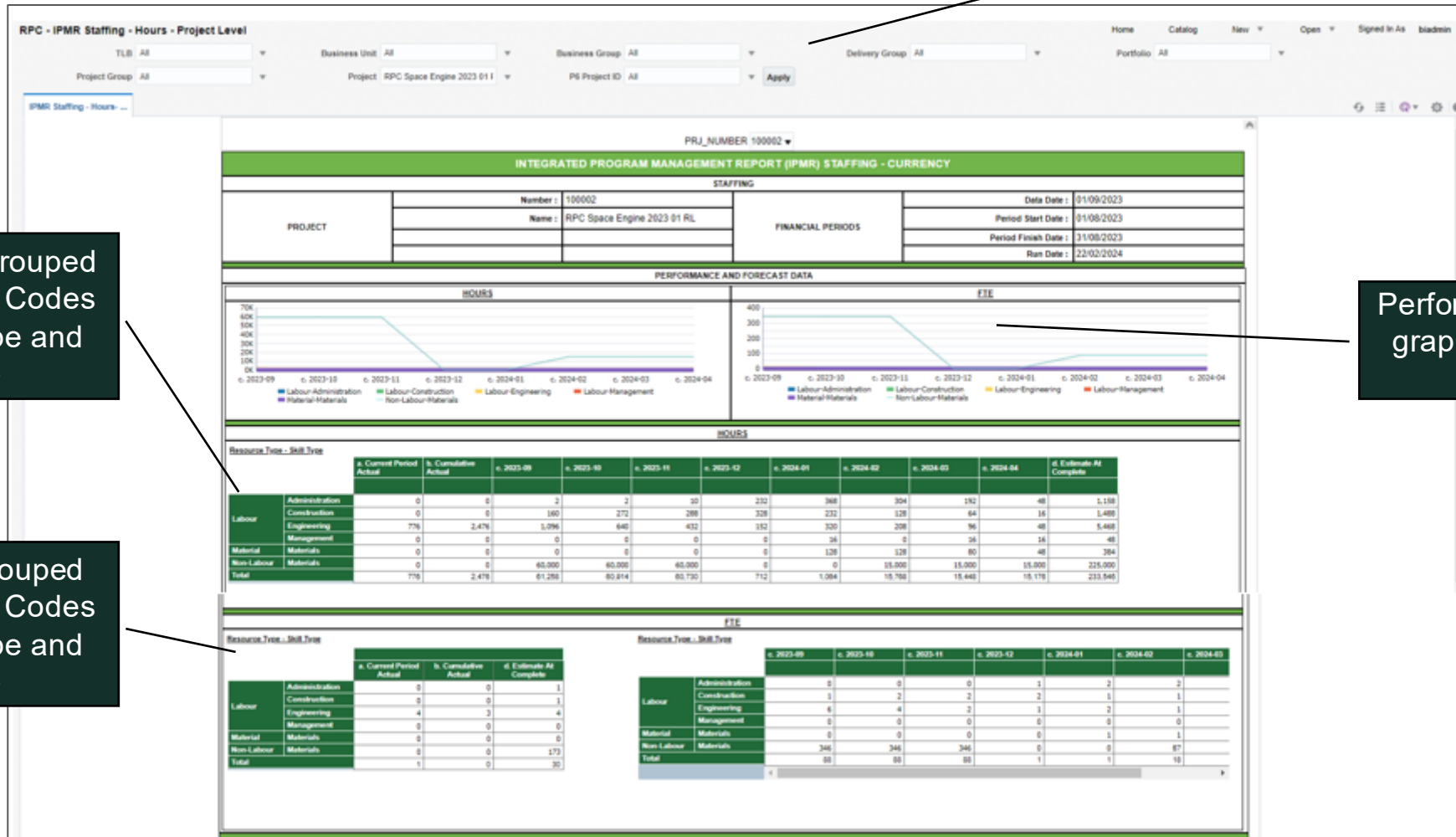


Table of Hours grouped by P6 Resource Codes = Resource Type and Skill Type

Performance forecast graph by hours and FTE

Table of FTE grouped by P6 Resource Codes = Resource Type and Skill Type



→ CPR5 – Currency – Variance Analysis Report Solution Set

Project and VAR information

PROJECT & VAR INFORMATION		WBS & OBS INFORMATION	
Project Number	10002	WBS Code	01
Project Name	APC Space Station 2025 (1.0)	WBS Name	2nd Operating Stage CA
Control Account Manager	Control Account Manager	WBS Path	APC_01_002_01_000_01_000_01_0
VAR Number	VAR-00002	WBS Type	1.1 (C) - C
VAR Status	Active	WBS Type	Control Account
Member of the Executive Committee	Yes	Reporting Type	01 (C)
Reporting Period	01/01/2025 - 01/01/2025	Light/Dim Name	010001
Period Start Date	01/01/2025	VAR PWD	001
Period End Date	01/01/2025	OBS Full Name	Project Manager

WBS Period Performance inc. VAR breach indicator

WBS PERIOD PERFORMANCE			
PI	0.00	SI	0.00
SI	0.00	CVI	0.00
CVI	0.00	SPI	0.00
SPI	0.00	CVI	0.00
TOTAL AC	0.00		

WBS Cumulative Performance inc. VAR breach indicator

WBS CUMULATIVE PERFORMANCE			
PI	0.00	SI	0.00
SI	0.00	CVI	0.00
CVI	0.00	SPI	0.00
SPI	0.00	CVI	0.00
TOTAL AC	0.00		

Filter parameters include Shell hierarchy, Reporting Period, VAR status and VAR number

VAR Threshold breach information inc. Analysis and Corrective Actions

VARIANCE ANALYSIS INFORMATION			
PI	0.00	SI	0.00
CVI	0.00	SPI	0.00
VAC	0.00	PVI	0.00
PVI	0.00		

Project and VAR information

Filter parameters include Shell hierarchy, Reporting Period, VAR status and VAR number

WBS and OBS information

WBS Cumulative Performance inc. VAR breach indicator

WBS Period Performance inc. VAR breach indicator

VAR Threshold breach information inc. Analysis and Corrective Actions

→ CPR7 – Currency – EV Spread by WBS Solution Set

Multiple filter parameters, inc. Reporting Period, Shell hierarchy, WBS Type, Funding Type and other WBS attributes

RPC - IPMR EV Spread By WBS - Currency - Project Level

Report Type: Detail | Reporting Period Start: 01-01-2022 | Reporting Period Finish: 31-12-2032

TLB: All | Business Unit: All | Business Group: All | Delivery Group: All

Portfolio: All | Project Group: All | Project: RPC Space Engine 2023 01 I

Hierarchy Level: All | WBS Parent: All | WBS Type: Control Account | Funding Type: All | Apply

IPMR EV Spread By WBS - ...

PRJ_NUMBER 100002

INTEGRATED PROGRAM MANAGEMENT REPORT (IPMR) EV SPREAD BY WBS - CURRENCY

TIME PHASED EV DATA

PROJECT	Number : 100002		FINANCIAL PERIODS		Data Date : 01/09/2023	
	Name : RPC Space Engine 2023 01 RL				Period Start Date : 01/08/2023	
					Period Finish Date : 31/08/2023	
					Run Date : 22/02/2024	
	EP PMB	PSS PMB	OPEX PMB	TOTAL PMB	MR	
ORIGINAL :	£27,019,472	£3,000,000	£4,614,480	£34,633,952	£4,800,000	
DELTA / CHANGE :	£385,100	£0	£0	£385,100	£0	
NEW / REVISED :	£27,404,572	£3,000,000	£4,614,480	£35,019,052	£4,800,000	
DISTRIBUTED :	£9,001,584	£1,000,000	£1,538,160	£11,539,744	£1,600,000	
UNDISTRIBUTED :	£18,402,988	£2,000,000	£3,076,320	£23,479,308	£3,200,000	

WBS Elements

			Monthly Spread												
			2023-04	2023-05	2023-06	2023-07	2023-08	2023-09	2023-10	2023-11	2023-12	2024-01	2024-02		
			E	E	E	E	E	E	E	E	E	E	E		
RPC_SE_2023_01	High Trajectory Launch Space Engine CA	OP Cost	1. PV	£0	£152,320	£331,520	£595,440	£946,800	£1,236,920	£7,036,720	£7,884,180	£8,099,780	£8,525,200	£9,036	
			2. EV	£0	£161,280	£358,400	£583,591	£946,800	£1,226,960	£1,226,960	£1,226,960	£1,226,960	£1,226,960	£1,226	
			3. AC	£0	£170,000	£344,000	£609,000	£1,007,000	£1,264,760	£1,264,760	£1,264,760	£1,264,760	£1,264,760	£1,264,760	£1,264
			4. ETC	£0	£1,148,320	£1,307,800	£1,038,800	£814,800	£542,400	£3,553,800	£3,553,800	£3,553,800	£3,553,800	£3,553,800	£3,553
	Orbit Stabilising Engine CA	OP Cost	1. PV	£0	£0	£0	£170,240	£358,400	£492,800	£819,680	£1,173,200	£7,521,920	£7,760,080	£7,980	
			2. EV	£0	£0	£0	£179,209	£268,800	£465,920	£465,920	£465,920	£465,920	£465,920	£465	
			3. AC	£0	£0	£0	£212,000	£403,000	£604,800	£604,800	£604,800	£604,800	£604,800	£604	
			4. ETC	£0	£0	£0	£1,307,600	£1,307,600	£1,038,800	£1,038,800	£1,038,800	£1,038,800	£4,050,704	£4,050,704	£4,050
	Soft Eject Landing Engine CA	OP Cost	1. PV	£0	£0	£152,320	£349,440	£583,600	£892,320	£1,209,040	£7,627,920	£7,875,280	£8,018,320	£8,500	
			2. EV	£0	£0	£134,400	£313,600	£482,800	£910,480	£910,480	£910,480	£910,480	£910,480	£910	
			3. AC	£0	£0	£135,000	£325,000	£505,000	£922,880	£922,880	£922,880	£922,880	£922,880	£922	
			4. ETC	£0	£0	£1,307,800	£1,307,800	£1,038,800	£814,800	£814,800	£814,800	£3,826,200	£3,826,200	£3,826	
TOTAL	TOTAL	TOTAL	1. PV	£0	£152,320	£483,840	£1,085,120	£1,888,800	£2,621,040	£9,665,440	£16,685,280	£23,496,960	£24,303,800	£25,521	
			2. EV	£0	£161,280	£492,800	£1,078,400	£1,708,400	£2,603,360	£2,603,360	£2,603,360	£2,603,360	£2,603,360	£2,603	
			3. AC	£0	£170,000	£479,000	£1,148,000	£1,916,000	£2,792,040	£2,792,040	£2,792,040	£2,792,040	£2,792,040	£2,792	
			4. ETC	£0	£1,148,320	£2,815,200	£3,654,000	£3,181,200	£2,396,000	£5,407,400	£8,418,800	£11,430,704	£11,430,704	£11,430	

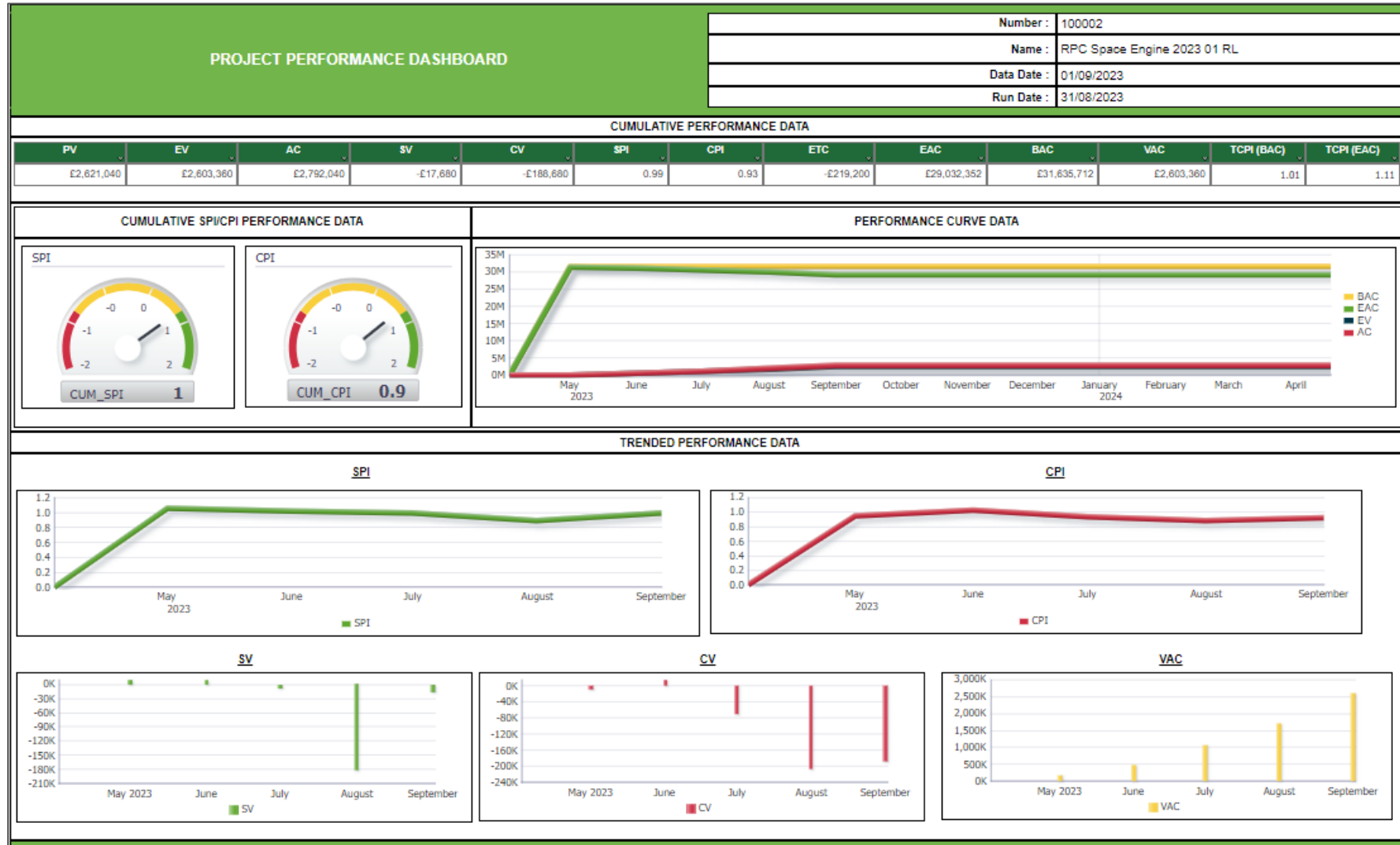
Cost Performance data displayed by P6 Project, WBS and Funding Type

Period Spread Earned Value Data

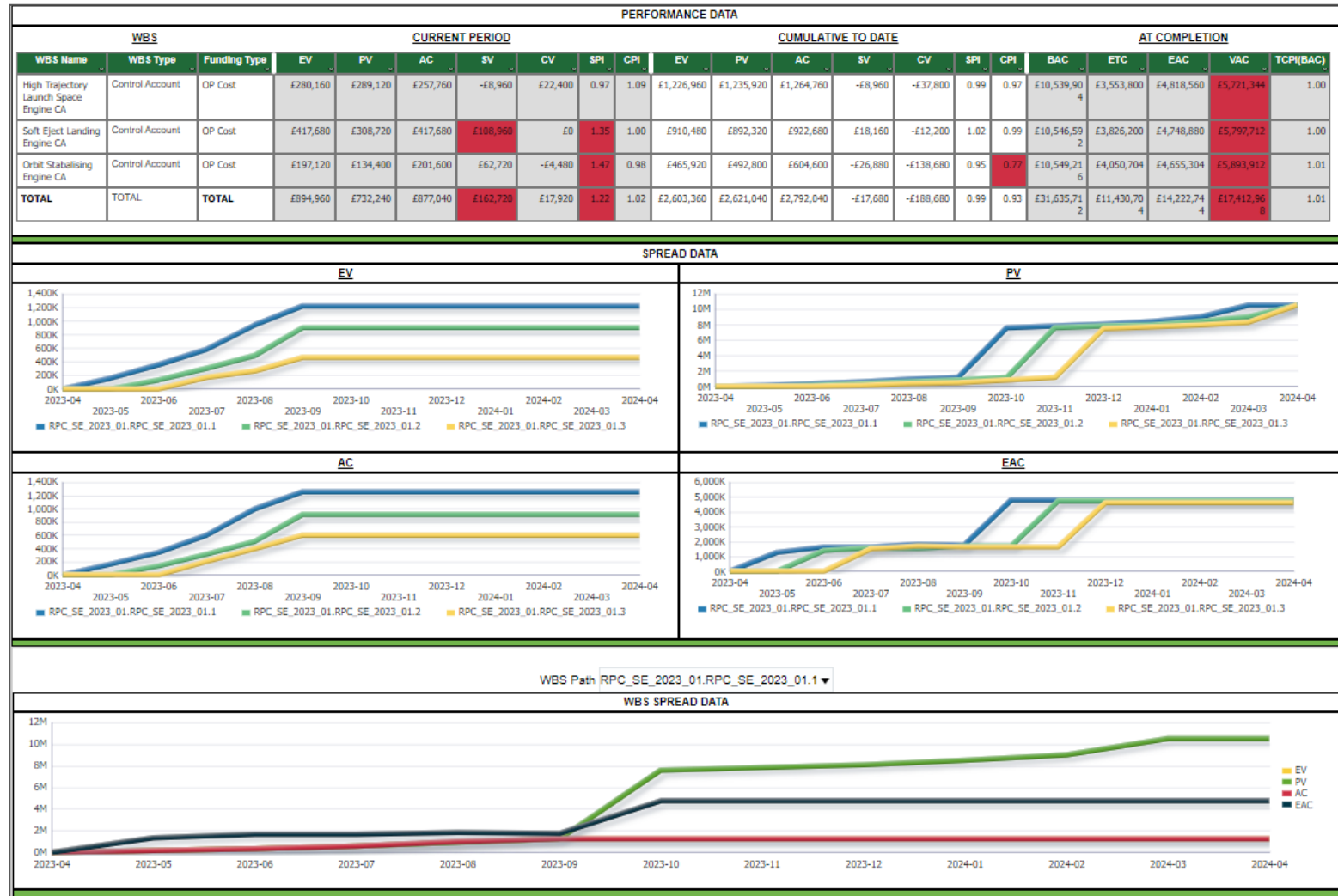
Total Earned Value Data

Performance management and tracking can be performed by WBS and OBS, with at-a-glance dashboards and ANSI/EIA-748 compliant reports.

→ Analysis and Dashboards



→ Analysis and Dashboards



→ Reporting

CPR Report	Report Name	Analysis Description
CPR 1	IPMR EV BY WBS	Returns Project Earned Value Data by WBS for the Current Period, Cumulative to Date and At Completion. It also includes Distributed Budget information for the Project and highlights VAR Performance Threshold breaches.
CPR 2	IPMR EV By OBS	Returns Project Earned Value Data by OBS for the Current Period, Cumulative to Date and At Completion. It also includes Distributed Budget information for the Project and highlights VAR Performance Threshold breaches.
CPR 3	IPMR Baseline Change	Compares Planned Value Costs for Projects Previous and Current Baselines against Baseline Change Requests Authorised during the reporting period. Identifies if the requested baseline changes have been successfully implemented or not. Also includes Distributed Budget information.
CPR 4	IPMR Staffing - Hours	Returns Project Staffing Performance and Forecast Data by Resource Type and Skill Type in both Hours and FTE values.
CPR 5	IPMR Variance Analysis Report	Returns data from Project Variance Analysis Report records in Unifier. Data returned includes Project, WBS and OBS information, Current Period Performance Data and Cumulative to Date data. It also highlights the VAR Performance Thresholds breached and the analysis and corrective actions recorded.
CPR 7	IPMR EV Spread By WBS	Returns distributed Project Earned Value data by WBS and Funding Type. Also includes Distributed Budget information.
	CPR1 - Currency – Hierarchy Reporting Level	Returns Project Earned Value Data by Project for the Current Period, Cumulative to Date and At Completion. It also highlights VAR Performance Threshold breaches.
	EVM Performance Dashboard	Returns Project level Earned Value Cumulative to Date data. Visually displays Performance Indicators, Distributed Earned Value data and Trended Performance data.
	SPI v CPI Trend Report	Returns Project Level Distributed SPI and CPI Earned Value data for comparison and analysis.
	Bullseye Chart	Plots Projects CPI, SPI and BAC values on a Scatter or Bubble Chart for analysis.
	CPI Top 3 Report	Returns top 3 WBS Nodes by Project based on their CPI values. Earned Value Data by WBS for the Current Period, Cumulative to Date and At Completion. It also highlights VAR Performance Threshold breaches.

→ Reporting

CPR Report	Report Name	Analysis Description
	SPI Top 3 Report	Returns top 3 WBS Nodes by Project based on their SPI values. Earned Value Data by WBS for the Current Period, Cumulative to Date and At Completion. It also highlights VAR Performance Threshold breaches.
	VAC Top 3 Report	Returns top 3 WBS Nodes by Project based on their VAC values. Earned Value Data by WBS for the Current Period, Cumulative to Date and At Completion. It also highlights VAR Performance Threshold breaches.
	WBS Spread Dashboard	Returns Project Earned Value Data by WBS, WBS Type and Funding Type for the Current Period, Cumulative to Date and At Completion. As well as Distributed Earned Value data by WBS. It also includes Distributed Budget information for the Project and highlights VAR Performance Threshold breaches. Uses Interactive Mode format in BI Publisher to allow user to filter data by WBS at run-time.
	Project EAC TCPI Report	Returns Cumulative to Date Project Earned Value data including various EAC and TCPI calculations. It also highlights VAR Performance Threshold breaches.

Case Study

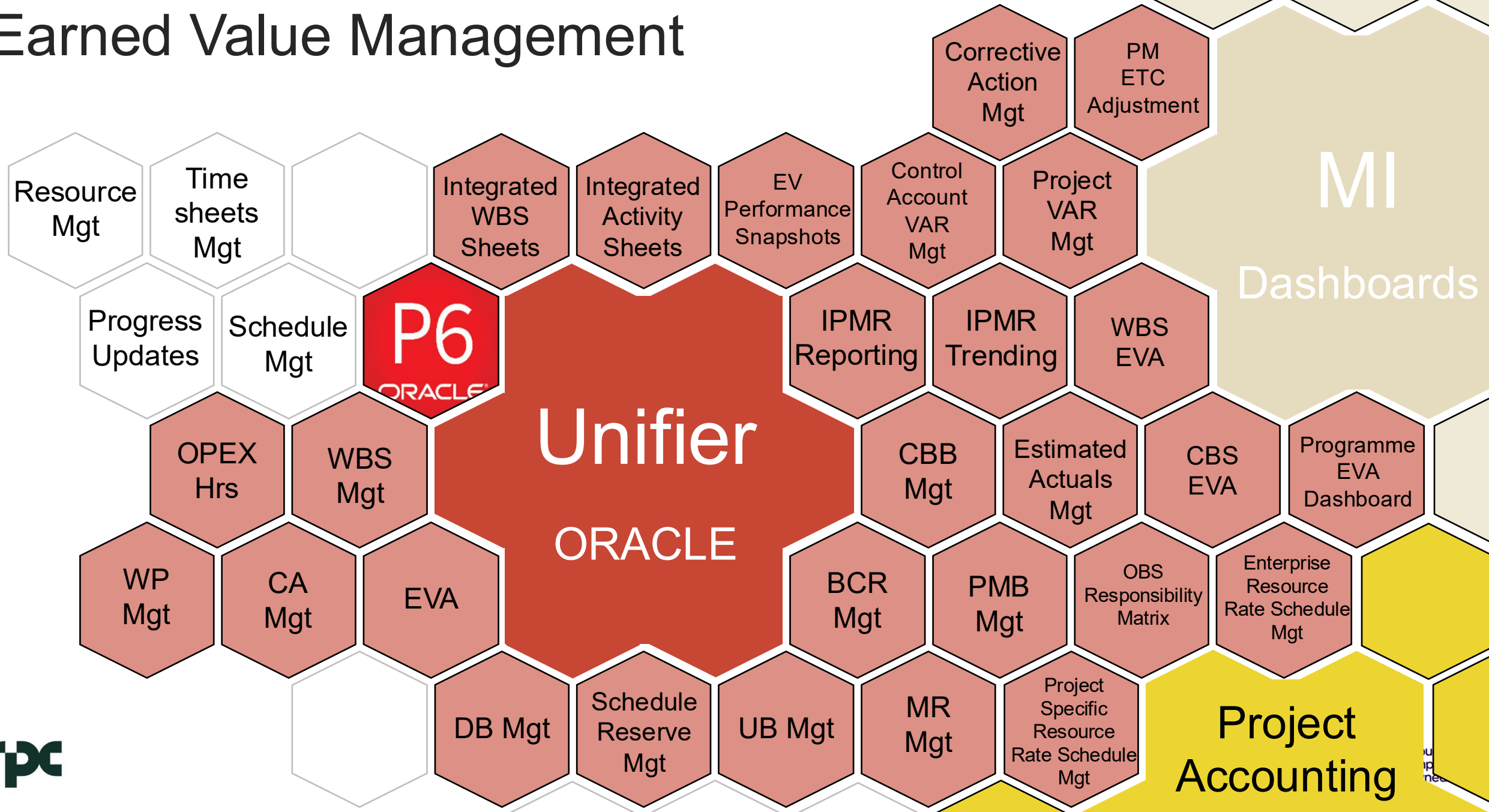
This Earned Value Management solution has been deployed in the UK MoD as part of a wider P3M solution including Cost Management and Project Management enhancements

- Bespoke business entity within MoD
- 150 locations worldwide
- Over 11,500 employees
- £178b Budget over the next 10 years
- Across 3 domains (land, sea and air)

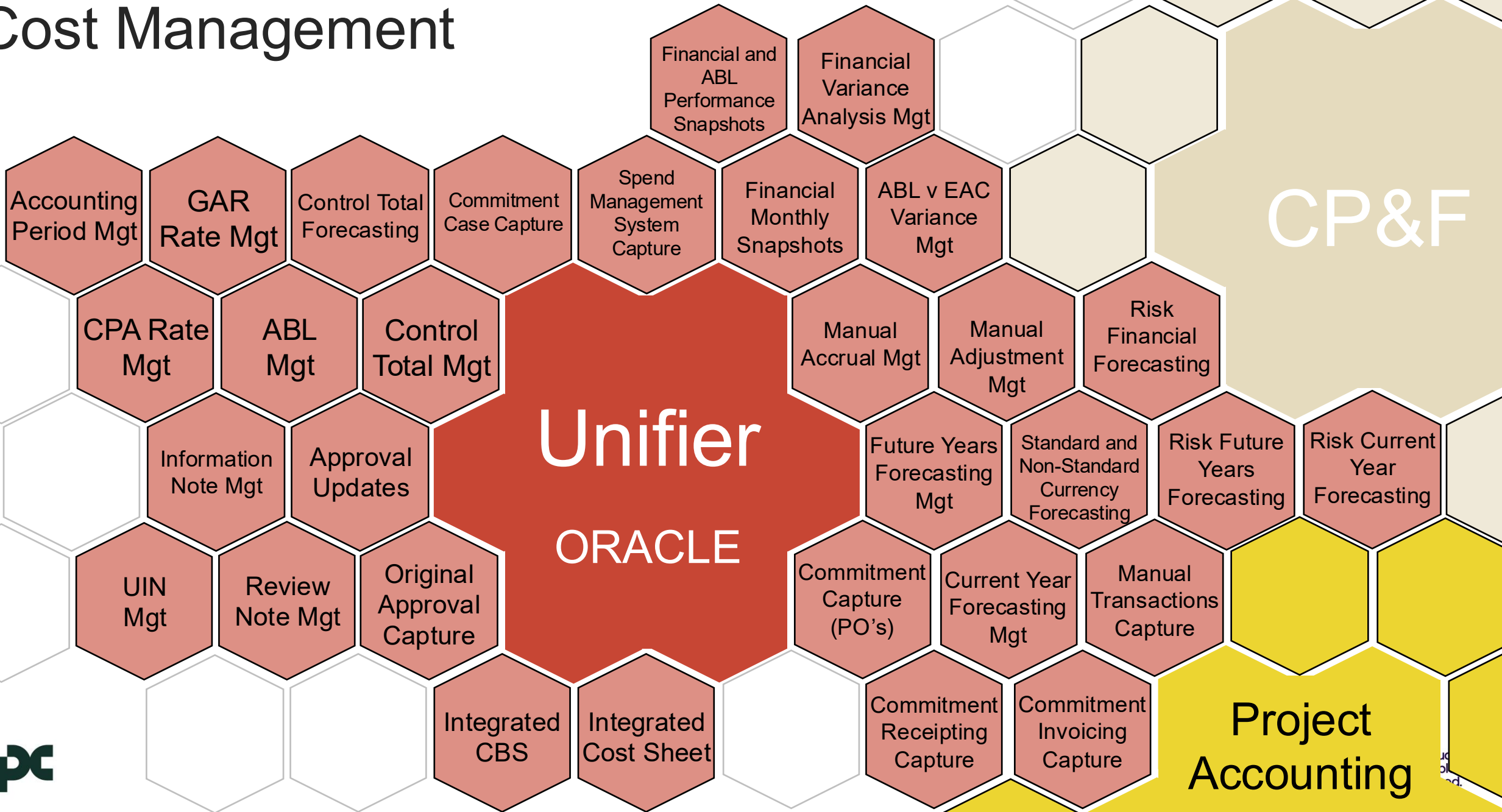


Ministry
of Defence

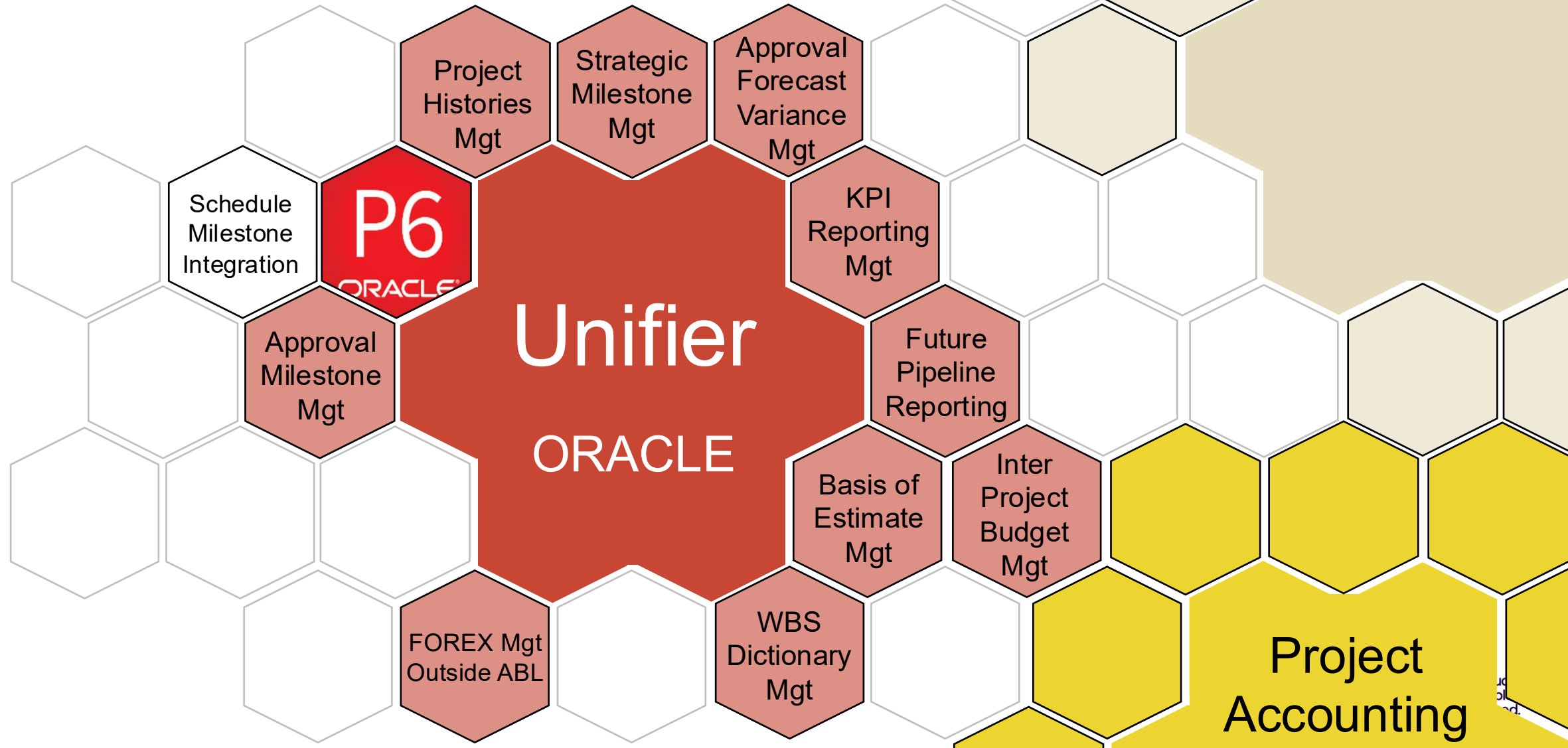
Earned Value Management



Cost Management

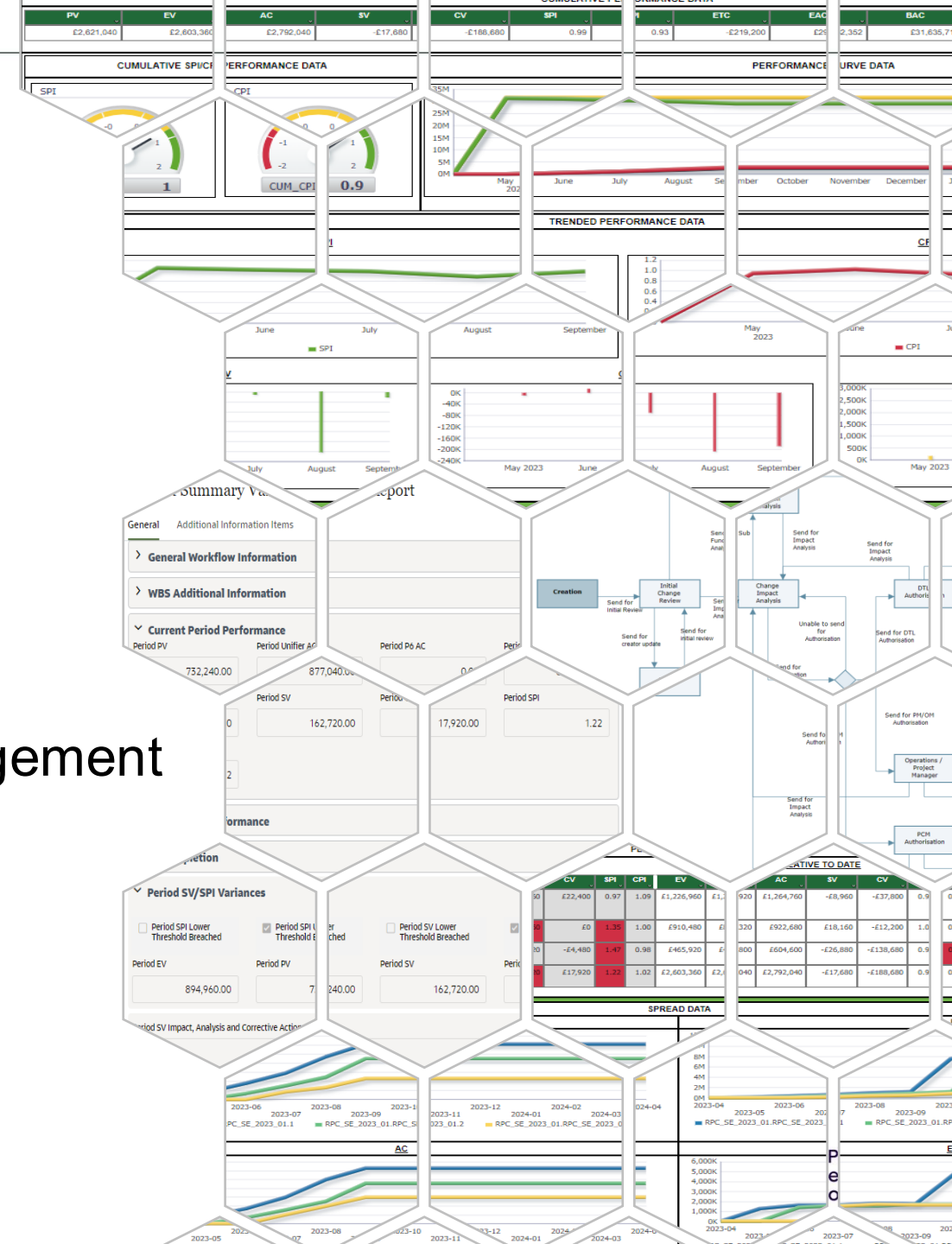


Project Management Enhancements



Project Management Enhancements

- Approval Milestone Management
- Strategic Milestone Management
- Strategic KPI Management
- Strategic KUR Management
- Project History and Commentary Capture
- Milestone, KUR, KPI and ABL Variance Management
- WBS Dictionary Management
- Basis of Estimate Management
- Future Pipeline Reporting
- Inter Project Budget Transfers



Thank You

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