

Overview Project and Portfolio Management Solution (PPM)

May 2016



FOR GENERATIONS

Agenda

- PPM History and Background
- PPM Systems Overview
- PPM Workspace
- Project Lifecycle: Project Development
- Project Lifecycle: Monthly Progressing
- Integrated Reporting
- Unifier within PPM
- PPM Success Factors

PPM History and Background

History of PPM

PPM started as a replacement of Peoplesoft and an in-house project management solution with SAP Project Systems

- 2010 SAP PS and limited BW reporting live
- 2011 P6 integrated with SAP PS/BW added
- 2012 PPM Workspace live
- 2013 Integrated BW executive reporting available
- 2015 Unifier and Supply Chain Workspace added

PPM Solution components and scope

The PPM Solution is based on three pillars:

- Comprehensive set of practices
- Integrated toolset
SAP, P6, Unifier, Sharepoint, Business Warehouse
- Processes, procedures, guidelines, and dedicated training material

All Capital Infrastructure projects are managed in PPM:

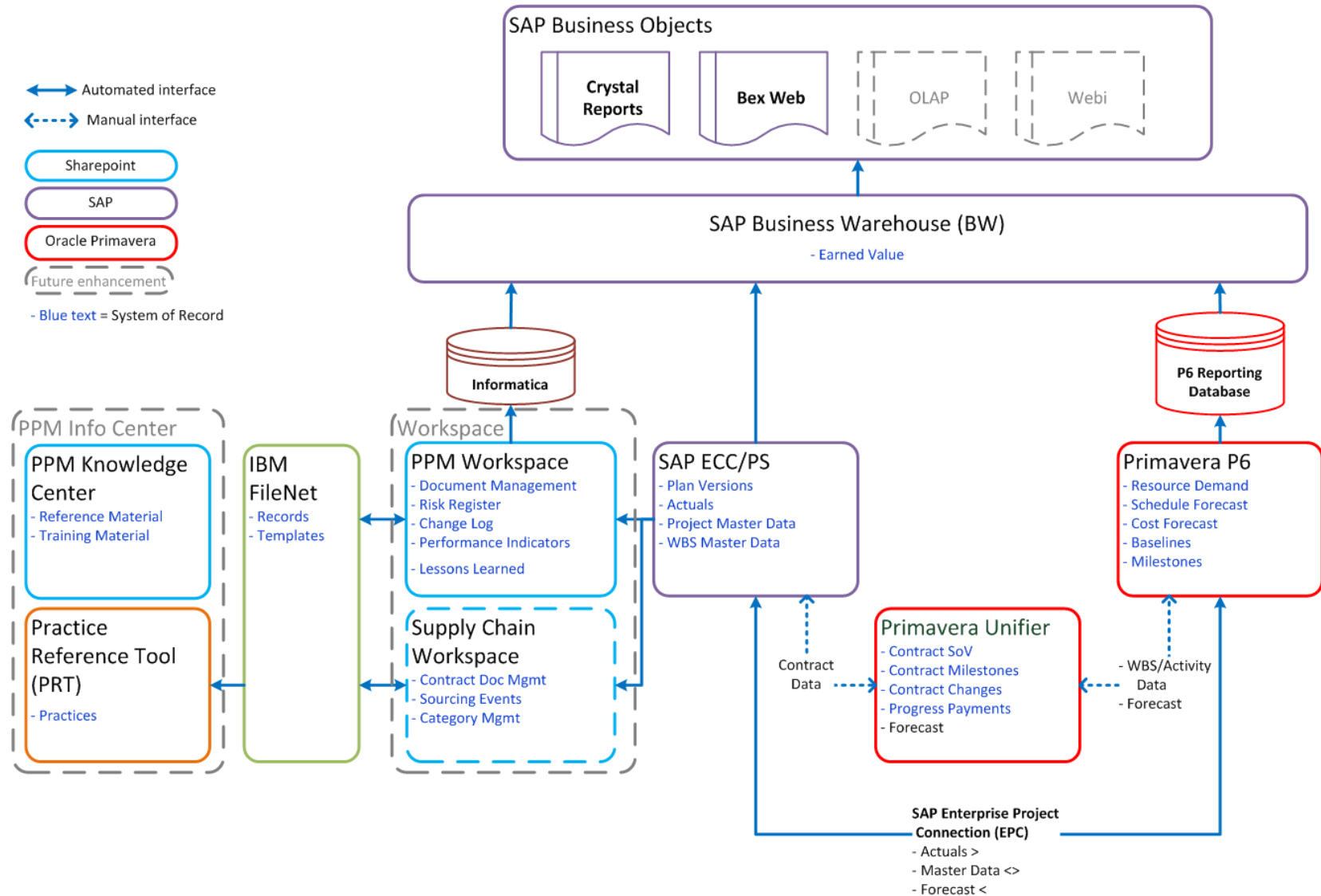
- Approx. 150 Generation projects
- Approx. 325 Transmission projects
- Small number of larger Distribution capital projects are also managed within PPM

PPM Systems Overview

PPM Guiding Principles

- Integrate project scope, schedule, and costs
- Create work packages with clear responsibilities
- Maintain resource loaded schedules
- Baseline, forecast, and track costs and resources at the same level
- Define a System of Record for each data component
- Consolidate and integrate all project management dimensions

PPM Systems overview



SAP – P6 Interface: EPC

The main component for the interface between SAP and P6 is EPC (Enterprise Project Connection).

- Bi-directional data movement
 - Project and WBS level data to P6
 - Activity, Expense, and Resource data to SAP
 - Actuals to P6
- ABAP code to move data in and out of SAP
- Fixed Oracle API's to move data in and out of P6

P6 - BW Interface: P6 Reporting Database

P6 Version 7 includes the P6 Reporting Database (PRD). The PRD is used for:

- **Making P6 data permanent**

Some data in the P6 user interface is calculated on the fly and not available in the database. The PRD makes it permanent so it is available for transfer to the BW

- **Transforming information**

The project structures in SAP PS and P6 are not fully compatible (P6 cannot carry costs on a WBS element; SAP can). The PRD transforms the P6 information so it will fit in the project structure in the BW.

Sharepoint - BW Interface: Informatica

Informatica is the tool used for preparing Sharepoint data for loading into the BW. Informatica is used for:

- Extracting Sharepoint list information into a consolidated dataset across all projects
- Creating csv files for loading into the BW

BW field length is limited to approx. 1,300 characters

Csv format puts restrictions on the use of certain characters

PPM Workspace

PPM Workspace

Every PPM project has an associated PPM Workspace in Sharepoint

PPM HOME

PPM Workspace

PPM HOME

PPM Home » PPM Workspaces » Active Projects▼

LIBRARIES

- ppm_ws_reports
- Site Pages

LISTS


- PPM Workspaces
- PRT Templates
- Announcements

WORKSPACE ARCHIVING

- My Requests
- Request Archive

WORKSPACE FACILITIES REQUESTS

- Request Generating Station or Transmission Station

<input type="checkbox"/>	<u>Project Identifier</u>	<u>Site URL</u>		<u>Project Name</u>	<input type="checkbox"/> <u>Project Manager</u>	<u>Project Performance Indicators</u>
	TY-0007	http://ppm-uat/projects/TY-0007		VAST2RET Vaseux Lake T2 Re-Termination		http://ppm-uat/projects/TY-0007/Lists/PerformanceIndicators
	TY-0085	http://ppm-uat/projects/TY-0085		DAW11FDR - Add 4 Feeder Positions Projec		http://ppm-uat/projects/TY-0085/Lists/PerformanceIndicators
	GZ-0231	http://ppm-uat/projects/GZ-0231		CMS10 PIV Control Upgrade - Q06 update (SAPT)		http://ppm-uat/projects/GZ-0231/Lists/PerformanceIndicators
	GY-0008	http://ppm-uat/projects/GY-0008		GMS Spillway Slope Stabilization Project		http://ppm-uat/projects/GY-0008/Lists/PerformanceIndicators
	GZ-0124	http://ppm-uat/projects/GZ-0124		BRR Townsite Redevelopment		http://ppm-uat/projects/GZ-0124/Lists/PerformanceIndicators
	GZ-0133	http://ppm-uat/projects/GZ-0133		TRZ Spillway Gate Upgrade		http://ppm-uat/projects/GZ-0133/Lists/PerformanceIndicators

PPM Workspace

Most important functionality in PPM Workspace:

GMS11 G1-G5 CONTROL SYSTEM UPGRADE

PPM Workspace

GMS11 G1-G5 CONTROL SYSTEM UPGRADE ▾

GMS11 G1-G5 Control System Upgrade »

DOCUMENTS

- Project Documents

- FileNet

PROJECT MANAGEMENT

- Risk Register

- Change Log

- Tactical Issues and Actions

- User Requirements

- Non Conformances

- Lessons Learned

- Project Deficiency Tracker (Post 'In-service')

PERFORMANCE

- Performance Indicators

COLLABORATION TOOLS


- Calendar

- Tasks

- Team Discussions

- Contacts

- Project Links



PPM
Project & Portfolio Management

Project ID
GY-0088

Project Name
GMS11 G1-G5 Control System Upgrade

Project Manager
[REDACTED]

Project Status
Active

RIM Assistant
Cost Analyst
Scheduler

CALENDAR

☐ Start Time Title

There are no items to show in this view of the "Calendar" list. To add a new item, click "New".

[Add new event](#)

TOP 5 RISKS

<input type="checkbox"/>	ID	Risk Event Description	Risk Status
	2	Multiple fatalities and loss of generation	Active
	1	Schedule delay causing project to miss U5 and U3 outages	Active
	3	Equipment design and installation re-work	Active
	4	Schedule delay causing project to miss U5 and U3 outages	Active
	5	Schedule delay causing project to miss implementation	Active

TEAM DISCUSSIONS

PROJECT LINKS

There are currently no fa

[Add new link](#)

COMMUNICATIONS




















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designed to help you shar

15

PPM Workspace

Risk Register

























EDIT RISK RECORD

Risk Drivers Description	Due to potential delays with design, equipment supply and integration of non-unit related scope items	
Risk Event Description *	Schedule delay causing project to miss U5 and U3 outages	
Consequences Description	Which may result in a requirement for dedicated outages for units 5 and 3 controls upgrade work	
Risk and Response Summary	There is a risk that the outage schedule for units 5 and 3 misses the units 5 and 3 turbine upgrade outages	
Portfolio Risk Category	Site Conditions - Coordination of multiple contracts	
Risk Owner	 	
Risk Status *	Active	
Risk Reporting Status *	Report	
Expected Risk End Date	8/1/2015  mm/dd/yyyy	
Consequence Type	Financial Loss	
Consequence Severity	S3 - \$1M to \$10M	
Probability of Consequence	L6.5: 30% (Fairly Likely - Often occurs)	
Risk Level	9.5	
Risk Zone	Zone 2 - Initiators	
Project Phase for Risk Event		
Schedule Impact		

PPM Workspace

Change Log

EDIT CHANGE LOG ENTRY

Title *	Unplanned upgrade to generator deluge system	
Project Phase *	Implementation	
Change Level *	Work Package Level	
Funded By	Contingency Draw	
Change Type *	Cost	
Change Driver		
Related Risk		
Next Actions		
Description of Change (What)	Transfer \$15K from the Inflation Fund (Activity 4417 in P6) to "Generation Design Engineering - L5 IMP" Work Package	
Reason for Change (Why)		
Implementation of Change (How, Who)		
Impact Assessment		
Work Package Adjustment(\$)	\$15,000.00	
Contingency Adjustment(\$)		
Work Packages Affected	Generation Design Engineering - L5 IMP (GY-0088.4.Z.02.04)	
Work Package Manager 1		
WPM 1 Acceptance		
Work Package Manager 2		
WPM 2 Acceptance		
Work Package Manager 3		
WPM 3 Acceptance		
Change Status *	Approved 	
Decision Date	5/26/2014	

Lessons Learned

ID	Title	PPM Practice Area	PPM Procedure	Key Equipment	Issue/Opportunity	Recommended Actions	Reporting Status
1	Contract Schedule	Construction & Contract Management	Contract Management	N/A	Do allow contractor to start onsite work without an approved Contract Schedule.	If the Contract Schedule is not submitted ontime, promptly send a letter to the contractor notifying them of the late submission. Remind the contractor that site work cannot start without an approved schedule. Consider telling the contractor that if the Contract Schedule is not submitted with a specific number of days that you will issue a Notice of Delay.	Report
2	Site visit access	Construction & Contract Management	Contract Management	N/A	Ensure that all areas needed for completion of the scope of work have access during the procurement site visit	If areas needed for construction work are normally inaccessible, make these areas accessible for the site visit.	Report
3	Construction Schedule Critical Path	Construction & Contract Management	Contract Management	N/A	Contractor and BC Hydro could not agree on the critical path activities of the contract schedule. Issue never came up until well after the Contract Schedule was agreed.	Agree to the critical path prior to accepting the Contract Schedule.	Draft for Review
4	Submissions Schedule	Procurement	N/A	N/A	Create a realistic schedule for the list of submissions prior to issuing the contract for tender. Ex. 14 days for a Contract Schedule is not realistic.	The submissions schedule should be developed with input/direction from Construction Management.	Draft for Review

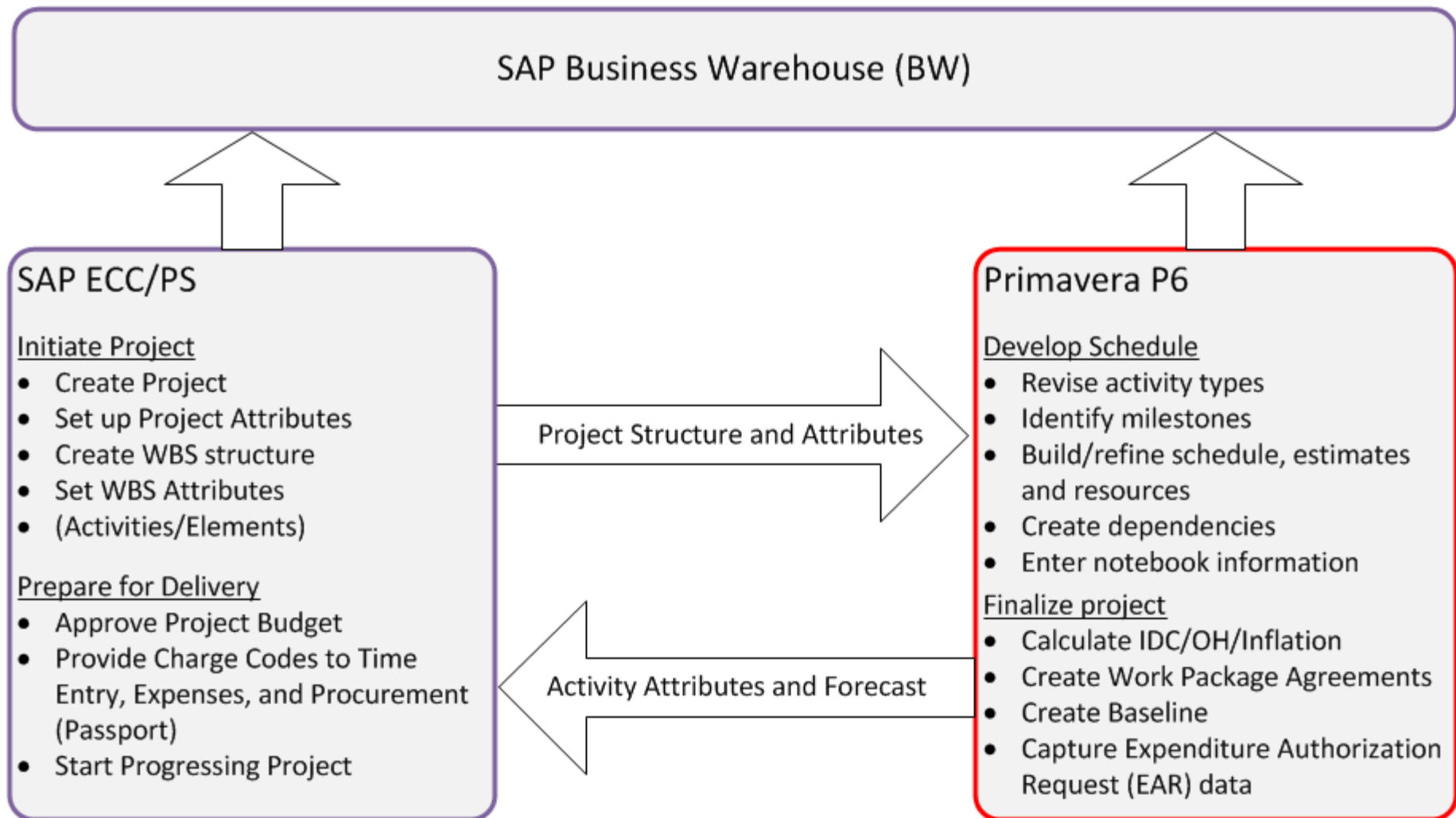
PPM Workspace

Performance Indicators

Indicator ID↓	Indicator Name	Indicator Value	Comments
26	Operational Issues	N/A	
23	Project Health	Amber	<p>Tranche #1 - Implementation Phase</p> <p>Plant LAN extension work is complete. Integration testing of all G5 panels is complete. All G5 panels have been delivered to site. G5 UCB, SIP and RTU panels have been installed. G5 cabling pulling (6km) is 80% complete G5 UCB interpanel termination work has started.</p> <p>Tranche #2 - Definition Phase</p> <p>Working with site mgmt regarding clarification of GMS GPO role.</p>
22	Project Description	N/A	Design, procure, install and commission replacement unit controls Units 9 to 10, replacement controls for intake systems, replacement remote operation controls for GMS and PCN.
21	Stakeholders	Green	
16	First Nations	Green	
13	Schedule	Green	<p>Tranche #1 - Implementation Phase</p> <p>G5 installation work is in progress - on schedule G3 detailed design work is in progress - on schedule</p> <p>Tranche #2 - Definition Phase</p> <p>Control room design concept report has been issued. Attachments</p>
12	Cost	Green	<p>Project had budgeted to spend \$2.8M (PV) Project has actually spent \$2.1M (AC) Project has completed \$2.4M worth of work (EV)</p>

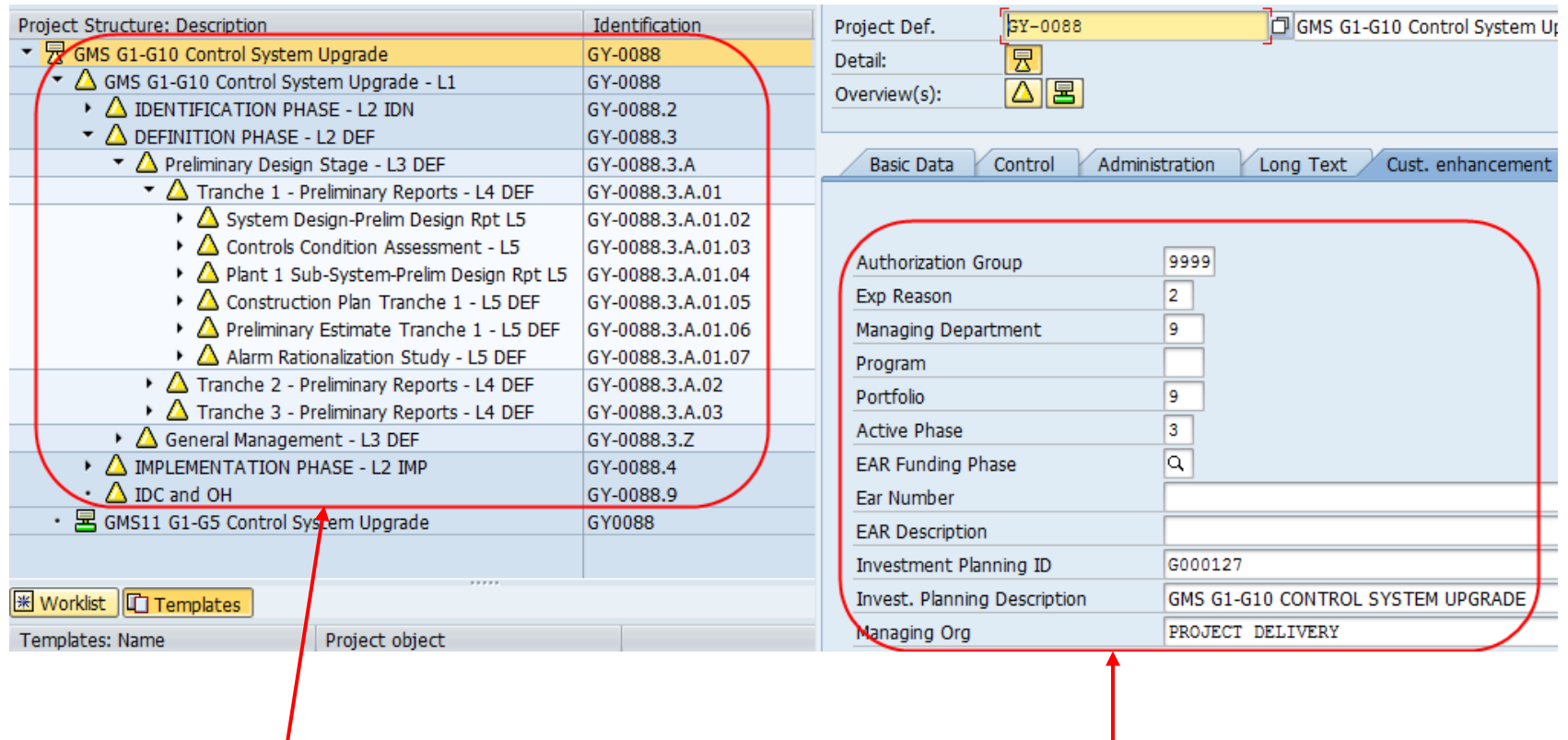
Project Lifecycle: Project Development

Project Lifecycle: Project Development






Project Lifecycle: Project Development

Initiate Project in SAP:



The screenshot displays the SAP Project Development interface. On the left, the 'Project Structure: Description' table lists the project hierarchy. A red circle highlights the 'GMS G1-G10 Control System Upgrade' project and its Work Breakdown Structure (WBS) elements. A red arrow points from this circle to the 'Project and WBS structure' caption. On the right, the 'Project Def.' table shows the project details. A red circle highlights the 'GMS G1-G10 Control System Upgrade' project and its attributes. A red arrow points from this circle to the 'Project and WBS Attributes' caption.

Project Structure: Description	Identification
▼ GMS G1-G10 Control System Upgrade	GY-0088
▼ GMS G1-G10 Control System Upgrade - L1	GY-0088
▶ IDENTIFICATION PHASE - L2 IDN	GY-0088.2
▼ DEFINITION PHASE - L2 DEF	GY-0088.3
▼ Preliminary Design Stage - L3 DEF	GY-0088.3.A
▼ Tranche 1 - Preliminary Reports - L4 DEF	GY-0088.3.A.01
▶ System Design-Prelim Design Rpt L5	GY-0088.3.A.01.02
▶ Controls Condition Assessment - L5	GY-0088.3.A.01.03
▶ Plant 1 Sub-System-Prelim Design Rpt L5	GY-0088.3.A.01.04
▶ Construction Plan Tranche 1 - L5 DEF	GY-0088.3.A.01.05
▶ Preliminary Estimate Tranche 1 - L5 DEF	GY-0088.3.A.01.06
▶ Alarm Rationalization Study - L5 DEF	GY-0088.3.A.01.07
▶ Tranche 2 - Preliminary Reports - L4 DEF	GY-0088.3.A.02
▶ Tranche 3 - Preliminary Reports - L4 DEF	GY-0088.3.A.03
▶ General Management - L3 DEF	GY-0088.3.Z
▶ IMPLEMENTATION PHASE - L2 IMP	GY-0088.4
▶ IDC and OH	GY-0088.9
• GMS11 G1-G5 Control System Upgrade	GY0088

Project Def.	GY-0088	GMS G1-G10 Control System Up
Detail:		
Overview(s):	 	

Basic Data	Control	Administration	Long Text	Cust. enhancement
Authorization Group	9999			
Exp Reason	2			
Managing Department	9			
Program				
Portfolio	9			
Active Phase	3			
EAR Funding Phase	Q			
Ear Number				
EAR Description				
Investment Planning ID	G000127			
Invest. Planning Description	GMS G1-G10 CONTROL SYSTEM UPGRADE			
Managing Org	PROJECT DELIVERY			

Project and WBS structure

Project and WBS Attributes

Project Lifecycle: Project Development

Develop Schedule in P6 (Cost):

Activity ID	Activity Name	Actual Total Cost	Remaining Total Cost	At Completion Total Cost	BL Project Total Cost	Earned Value Cost	Control Budget
GMS G1-G10 Control System Upgrade							
GMS G1-G10 Control System Upgrade - L1							
+ Identification Phase - L2 IDN							
- Definition Phase - L2 DEF							
+ Preliminary Design Stage - L3 DEF							
- General Management - L3 DEF							
+ Tranche 1 - Project Management - L4 DEF							
+ Tranche 1 - Procurement Mgmt - L4 DEF							
+ Tranche 1 - Constr & Cont Mgmt - L4 DEF							
- Tranche 2 - Project Management - L4 DEF							
- Tranche 2 Planning - L5 DEF							
GY0088-3782	Perform Common Mgmt - Tranche 2 Project Planning						
GY0088-3774	IMP Tranche 2 Full Funding Request Issued						

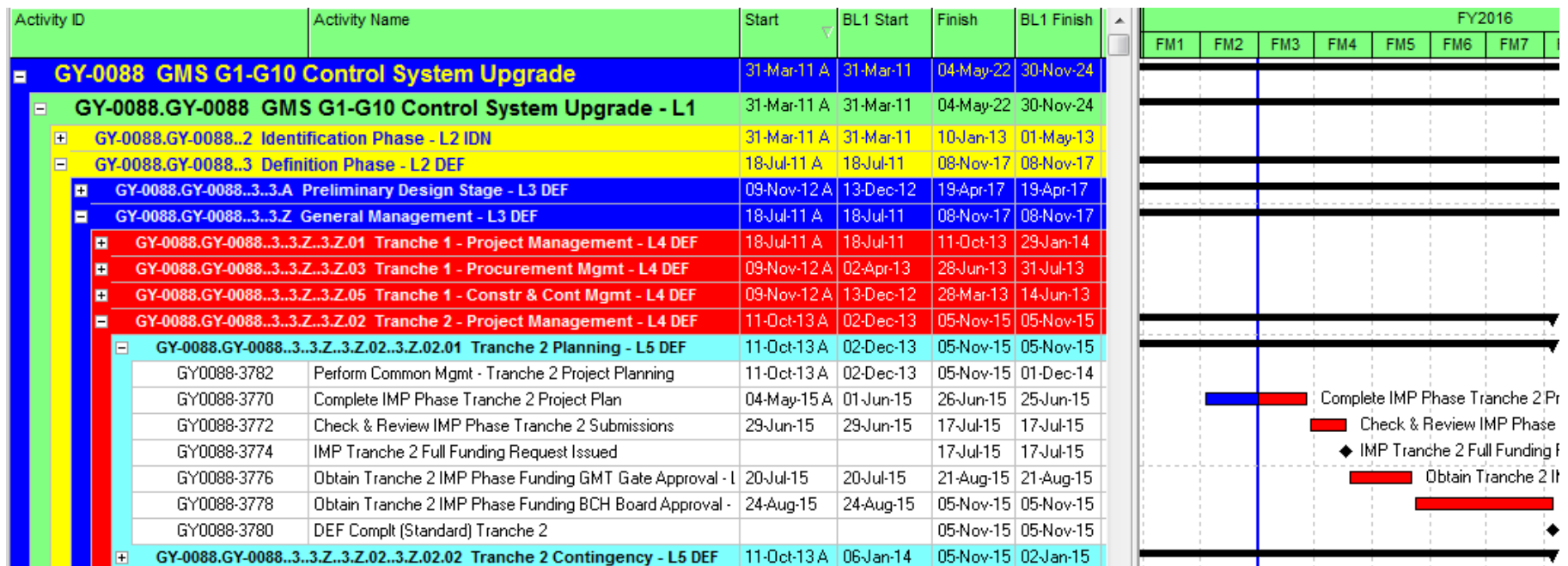
General	Status	Relationships	Resources	Expenses	Notebook	Codes	
Activity		GY0088-3782 Perform Common Mgmt - Tranche 2 Project Planning					
Resource ID Name	SAP Description	Actual Units /	Remaining Units	Completion Units	Actual Cost	Remaining Cost	At Completion Cost
GPD_PM02-S45.Project Manager 2 (S45)	Project Manager (S45)	274	0	274			
GPD_SH01-S10.Scheduler (S10)	Scheduler (S10)	165	35	200			
GEN_EP11-S45.Main Eng P&C (S45)	Maint Eng for G9 G10 Gov Asse	156	0	156			
GPD_CA01-S08.Cost Analyst (S08)	Cost Analyst (S08)	54	7	60			
GPD_AS08-S06.Proj Deliv Admin (S06)	Admin Asst (S06)	25	15	40			

Resource

Activity

Project Lifecycle: Project Development

Develop Schedule in P6 (Dates):




Project Lifecycle: Project Development

Finalize Project: Interest During Construction (IDC)/Overhead (OH)

Activity ID	Activity Name	At Completion Total Cost	BL Project Total Cost
GY-0088 GMS G1-G10	Control System Upgrade		
GY-0088.GY-0088	GMS G1-G10 Control System Upgrade - L1		
GY-0088.GY-0088..2	Identification Phase - L2 IDN		
GY-0088.GY-0088..3	Definition Phase - L2 DEF		
GY-0088.GY-0088..4	Implementation Phase - L2 IMP		
GY-0088.GY-0088..9	IDC and OH		
Z.2	Z.2 - Identification Phase - L2 IDN		
Z.2.A.01.01	Z.2.A.01.01 - Project Plan (Seed Funded) F950-L5 IDNO		
Z.2.D.01.01	Z.2.D.01.01 - Project Plan (Seed Funded) F100 - L5 IDN		
Z.2.C.01.01	Z.2.C.01.01 - Feasibility Report - L5 IDN		
Z.2.Z.01.01	Z.2.Z.01.01 - Project Management - L5 IDN		
Z.2.Z.01.03	Z.2.Z.01.03 - Estimating - L5 IDN		
Z.2.Z.03.01	Z.2.Z.03.01 - Procurement Management - L5 IDN		
Z.3.Z.01.01	Z.3.Z.01.01 - Project Management - L5 DEF		
Z.4.Z.01.01	Z.4.Z.01.01 - Project Management - L5 IMP		
Z.2.Z.01.09	Z.2.Z.01.09 - Contingency - L5 IDN		
Z.3.Z.05.01	Z.3.Z.05.01 - Construction Management - L5 DEF		
Z.3.Z.03.01	Z.3.Z.03.01 - Procurement Management - L5 DEF		

Project Lifecycle: Project Development

Finalize Project: Work Package Agreement

BChydro 		Work Package Agreement	
Project No:	GY-0044	Date/Time:	May-12-2015 1:45:52PM
Project Name:	VAR 600v Circuit Breaker & Metal Clad	Data Date	Apr-01-2015
Work Package No. (WBS):	GY-0044.2.Z.01.01	Start Date:	Feb 29, 2012
Work Package Description:	Project Management - L5 IDN	Approved Amount:	
Work Package Manager:		End Date:	May 10, 2018
		Agreed Amount:	\$0

Scope:

1. WORK PACKAGE SCOPE


Provide Project Management Services to:

- Monitoring of Work Package progress (ie. monitor scope, cost, schedule and deliverable due dates)
 - Progress Work Package Activities on a monthly basis
 - Coordinate project meetings as required
 - Review Conceptual Design Report ? Review sketches of alternatives.
 - Review Feasibility Design Report
 - Review Procurement Strategy.
 - Review Contracting Plan.
 - Participate in Constructability Review - Identify constructability issues
 - Prepare Project Hazard Log
 - Prepare Risk Register
 - Lead the development of the User Requirements
 - Review Safety Management Plan
 - Prepare project plan and DEF phase documents
- Construction Management Services
- Coordination of site visits for project team
 - Feasibility Design review from a constructability perspective
 - Provide input and assist with the DEF and IM

Scope will be delivered in accordance with EARG Project

2. WORK PACKAGE SCHEDULE

Refer to activity dates above



Work Package Agreement

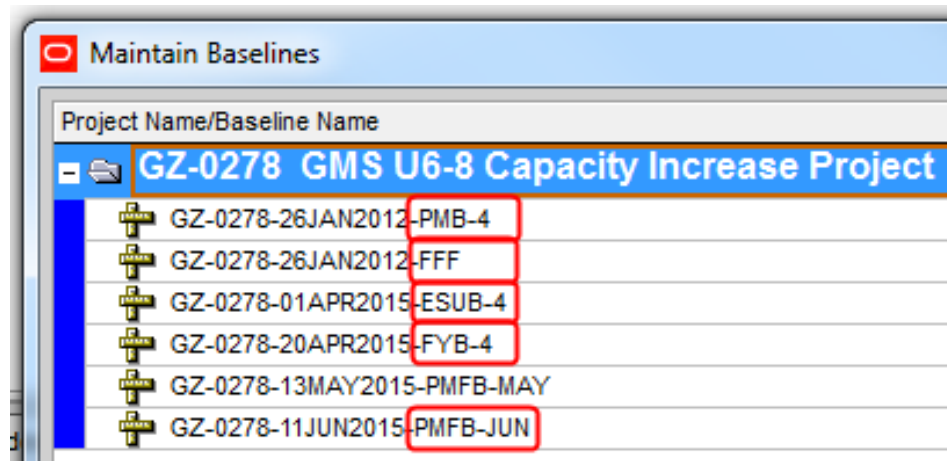
At Completion										
Activity ID	Activity Name				Start	Finish	Hours	Labor	Expenses	Estimate Amount
GY0044-2170	Revise MCA schedule & WPA				Dec 22, 2014	Jan 02, 2015	56			
Hours							Dollars			
Resource	Network	NWA	NWAE	SAP Description	Actual	Remaining	At Completion	Actual	Remaining	At Completion
Scheduler (\$10)	GY0044	2170	A035	Scheduler	56	0	56			

Activity ID	Activity Name				Start	Finish
GY0044-2180	Wait for GY-0142 MCA contract award - LAG				Mar 03, 2014	Jan 12, 2015

Activity ID	Milestone	Activity Name				Start	Finish
GY0044-2190	4.60	SoO DEF Issued - MCA					May 13, 2015

Project Lifecycle: Project Development

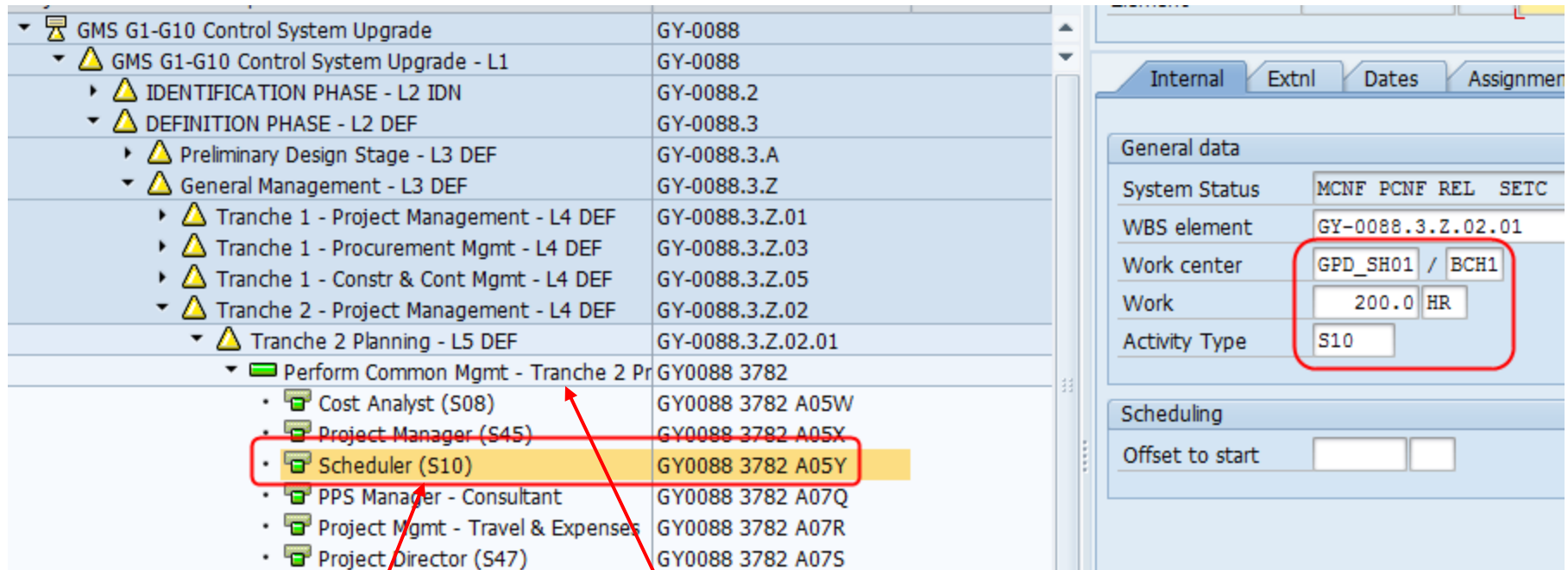
Finalize Project:
Create Baseline



Term	What does it mean	What is it
PMB	Performance Measurement Baseline	The project data (cost and schedule) as it was saved after the latest EAR was approved
PMFB	Prior Month Forecast Baseline	The project data (cost and schedule) as it was saved after the latest project progression
FFF	First Full Funding	Approved project budget the first time the whole project was approved for delivery
FYB	Fiscal Year Baseline	Baseline for fiscal year milestone scorecard performance
ESUB	EAR Submission	Baseline to be used as basis for the approved Plan Version in SAP

Project Lifecycle: Project Development

Sync Back to SAP:



Task Name	Task ID
GMS G1-G10 Control System Upgrade	GY-0088
GMS G1-G10 Control System Upgrade - L1	GY-0088
IDENTIFICATION PHASE - L2 IDN	GY-0088.2
DEFINITION PHASE - L2 DEF	GY-0088.3
Preliminary Design Stage - L3 DEF	GY-0088.3.A
General Management - L3 DEF	GY-0088.3.Z
Tranche 1 - Project Management - L4 DEF	GY-0088.3.Z.01
Tranche 1 - Procurement Mgmt - L4 DEF	GY-0088.3.Z.03
Tranche 1 - Constr & Cont Mgmt - L4 DEF	GY-0088.3.Z.05
Tranche 2 - Project Management - L4 DEF	GY-0088.3.Z.02
Tranche 2 Planning - L5 DEF	GY-0088.3.Z.02.01
Perform Common Mgmt - Tranche 2 Pr	GY0088 3782
Cost Analyst (S08)	GY0088 3782 A05W
Project Manager (S45)	GY0088 3782 A05X
Scheduler (S10)	GY0088 3782 A05Y
PPS Manager - Consultant	GY0088 3782 A07Q
Project Mgmt - Travel & Expenses	GY0088 3782 A07R
Project Director (S47)	GY0088 3782 A07S

Internal	Extnl	Dates	Assignment
General data			
System Status	MCNF PCNF REL SETC		
WBS element	GY-0088.3.Z.02.01		
Work center	GPD_SH01 / BCH1		
Work	200.0	HR	
Activity Type	S10		
Scheduling			
Offset to start			

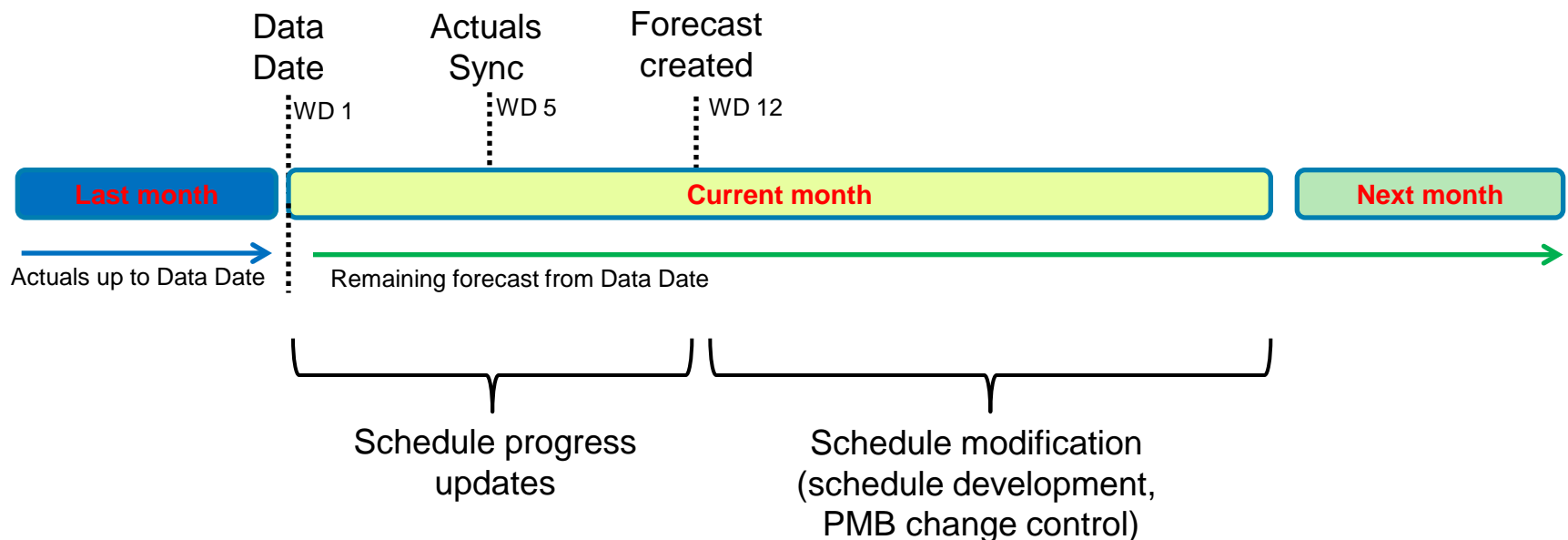
Resource

Activity

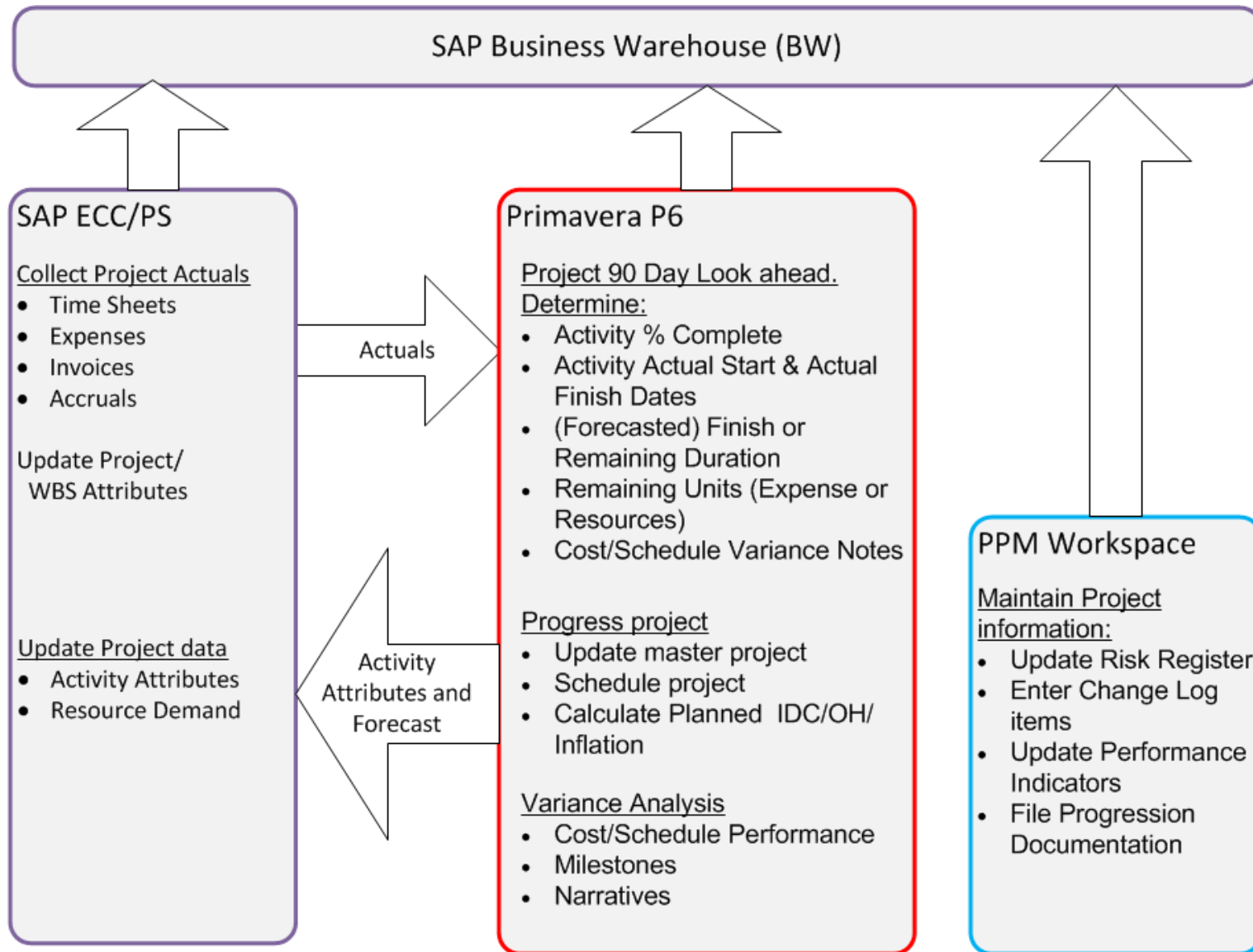
Project Lifecycle: Monthly Progressing

Schedule Progress Cycle - “Work Day 12” Timeline

- Progress updated directly in current schedule (no reflections)
- SAP Actuals available by WD3 (Direct Costs) and WD5 (Loaded Costs)
- Forecast finished by end of Work Day 12

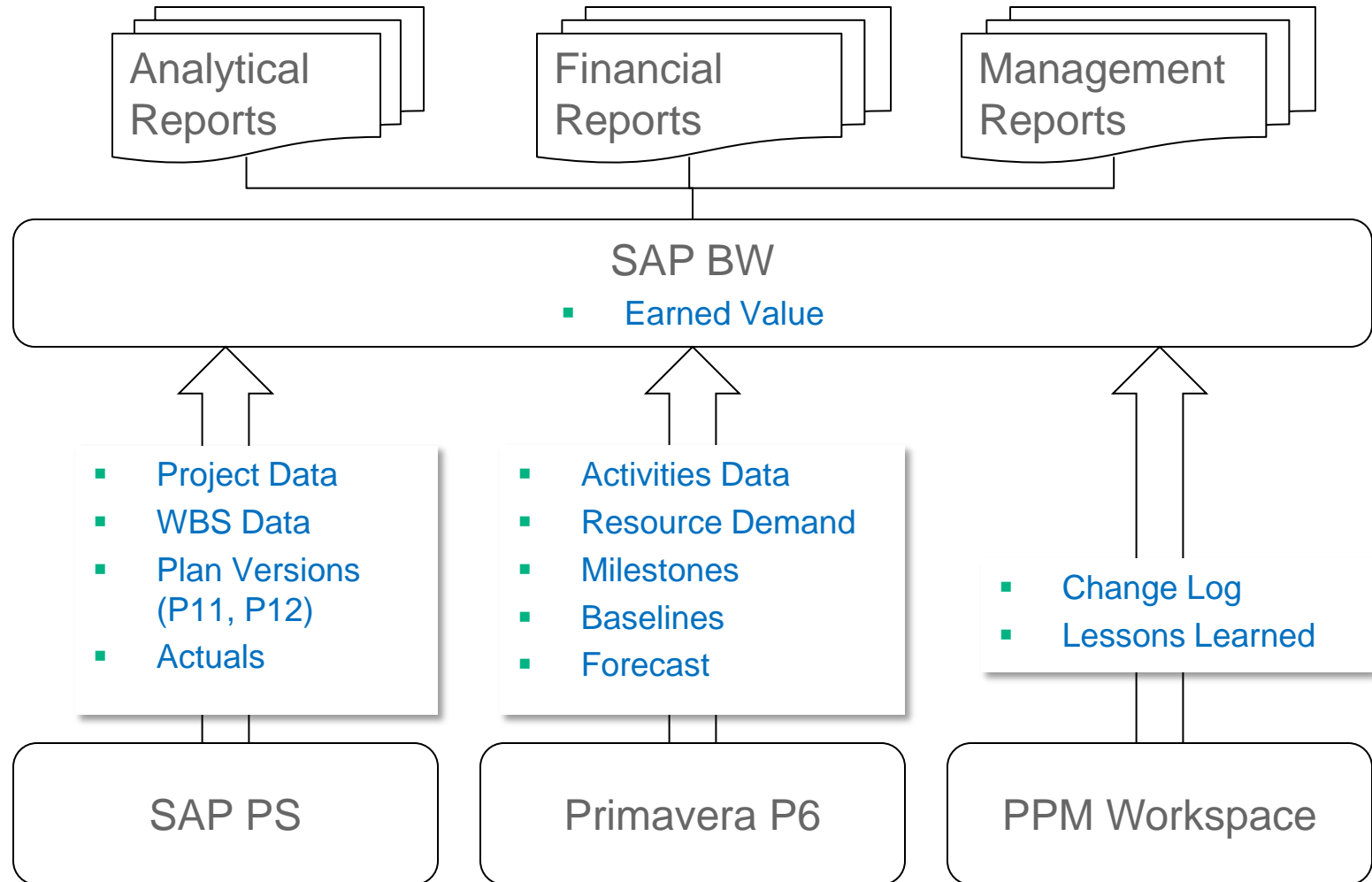


Project Lifecycle: Monthly Progressing

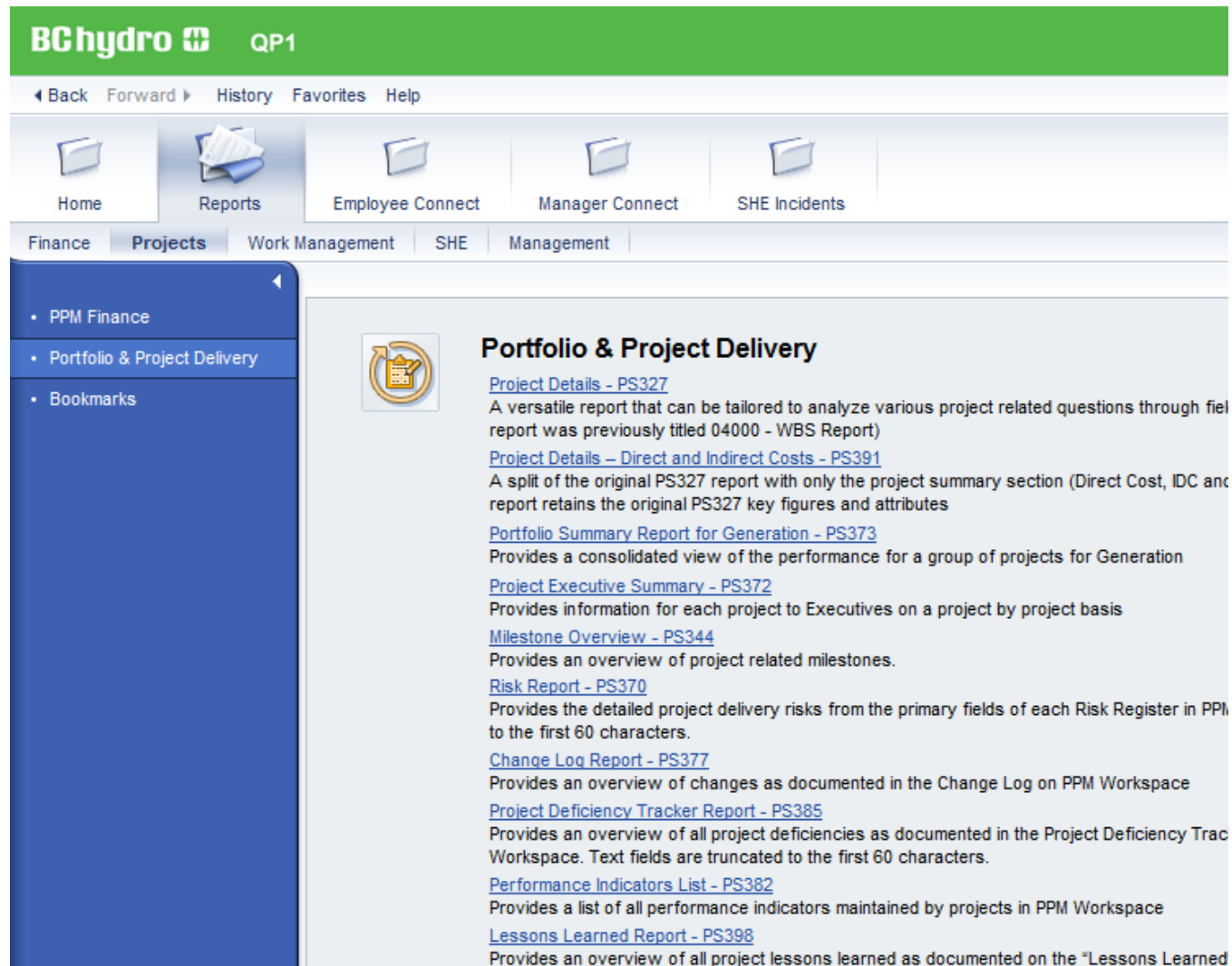


Integrated Reporting

This is where the information comes from



PPM BW – Most important reports










The screenshot displays the BC Hydro PPM BW web application interface. At the top, a green header bar contains the BC Hydro logo and the text 'QP1'. Below this is a navigation bar with links: 'Back', 'Forward', 'History', 'Favorites', and 'Help'. A secondary navigation bar features icons and labels for 'Home', 'Reports', 'Employee Connect', 'Manager Connect', and 'SHE Incidents'. A third navigation bar includes 'Finance', 'Projects' (which is highlighted), 'Work Management', 'SHE', and 'Management'. On the left side, a blue sidebar menu lists 'PPM Finance', 'Portfolio & Project Delivery' (which is selected), and 'Bookmarks'. The main content area is titled 'Portfolio & Project Delivery' and features a circular icon with a magnifying glass. It lists several reports with their respective IDs and brief descriptions:

- Project Details - PS327**
A versatile report that can be tailored to analyze various project related questions through field report was previously titled 04000 - WBS Report)
- Project Details – Direct and Indirect Costs - PS391**
A split of the original PS327 report with only the project summary section (Direct Cost, IDC and report retains the original PS327 key figures and attributes
- Portfolio Summary Report for Generation - PS373**
Provides a consolidated view of the performance for a group of projects for Generation
- Project Executive Summary - PS372**
Provides information for each project to Executives on a project by project basis
- Milestone Overview - PS344**
Provides an overview of project related milestones.
- Risk Report - PS370**
Provides the detailed project delivery risks from the primary fields of each Risk Register in PPM to the first 60 characters.
- Change Log Report - PS377**
Provides an overview of changes as documented in the Change Log on PPM Workspace
- Project Deficiency Tracker Report - PS385**
Provides an overview of all project deficiencies as documented in the Project Deficiency Tracker Workspace. Text fields are truncated to the first 60 characters.
- Performance Indicators List - PS382**
Provides a list of all performance indicators maintained by projects in PPM Workspace
- Lessons Learned Report - PS398**
Provides an overview of all project lessons learned as documented on the "Lessons Learned


Project Details Report

Project Info




Header

Project Definition 	Project Initiator 	Project Sponsor 	Project Manager 	Project Tech/Scheduler 	Project Syst. Status 	Investment Planning ID 
GY-0088 GMS G1-G10 Control System Upgrade					Partially released	G000127

Project Summary - Direct Cost, IDC and OH

Project Definition 	Project Details	Actuals Up to Data Date	ETC	EAC	Plan Version PMB/P15
GY-0088 GMS G1-G10 Control System Upgrade					

Directs

WBS Element 	Work Package Manager 	WBS Forecast Start Date 	WBS Forecast	Actuals Up to Data Date	ETC	EAC	Plan Version PMB/P15
GY-0088.2.A.01.01 Project Plan (Seed Funded) F950-L5 IDNO		2011-03-31	2011-05-31				
GY-0088.2.C.01.01 Feasibility Report - L5 IDN		2012-05-15	2012-11-09				
GY-0088.2.D.01.01 Project Plan (Seed Funded) F100 - L5 IDN		2011-04-01	2012-05-15				
GY-0088.2.Z.01.01 Project Management - L5 IDN		2012-05-15	2013-01-10				
GY-0088.2.Z.01.03 Estimating - L5 IDN		2012-07-20	2012-11-07				
GY-0088.2.Z.03.01 Procurement Management - L5 IDN		2012-08-10	2012-11-09				
GY-0088.3.A.01.02 System Design-Prelim Design Rpt L5		2012-11-09	2013-04-30				
GY-0088.3.A.01.03 Controls Condition Assessment - L5		2012-11-09	2013-06-28				
GY-0088.3.A.01.04 Plant 1 Sub-System-Prelim Design Rpt L5		2012-11-09	2013-06-28				
GY-0088.3.A.01.05 Construction Plan Tranche 1 - L5 DEF		2012-11-09	2013-07-10				
GY-0088.3.A.01.06 Preliminary Estimate Tranche 1 - L5 DEF		2012-11-09	2013-07-31				
GY-0088.3.A.01.07 Alarm Rationalization Study - L5 DEF		2013-04-15	2013-07-05				
GY-0088.3.A.02.02 Seilway Sub-System - PDR - L5 DEF		2013-10-11	2014-11-07				

Milestone Report

Milestones

Milestones



Project Data Date [△]	Project Manager [△]	Milestone ID [△]		Milestone UID [△]	Milestone Status [△]	Total Float [△]	Milestone Plan Date [△]	Milestone Forecast Date [△]
2013-05-01		GZ0089-M008	ISD - G1	1.01	On Track	0	2013-10-30	2013-10-30
		GZ0089-M010	ISD - G2	1.01	On Track	0	2014-06-06	2014-06-06
		GZ0089-M012	ISD - G5	1.01	On Track	0	2015-01-16	2015-01-16
		GZ0089-M014	ISD - G3	1.01	On Track	0	2015-08-07	2015-08-07
		GZ0089-M029	Project Complt	3.08	On Track	0	2015-12-15	2015-12-15
		GZ0089-M031	Testing and Commissioning Plan G2 Complt	4.50	On Track	130	2014-02-07	2014-02-07
		GZ0089-M032	Testing and Commissioning Plan G1 Complt	4.50	On Track	117	2013-08-28	2013-08-28
		GZ0089-M033	Testing and Commissioning Plan G3 Complt	4.50	On Track	75	2015-04-30	2015-04-30
		GZ0089-M035	Testing and Commissioning Plan G5 Complt	4.50	On Track	12	2014-11-13	2014-11-13

Change Log Report

Change Log

Change Layout



Project Definition [△]		Title [△]	Change Level [△]	Funded By [△]	Change Status [△]	Work Package Adjustment	Contingency Adjustment
GY-0088	GMS G1-G10 Control System Upgrade	Additional \$125K of Definition Phase Tranche	Project Level	EAR Revision	Under Review		
		Bernard Liu Rotation at GMS	Work Package Level	Contingency Draw	Forecasted		
		Change of Quality Mgmt & Assurance WPM	Work Package Level	Contingency Draw	Under Review		
		Contingency Adjustment 1	Contingency Adjustme	Contingency Increase	Approved		
		Contingency Adjustment 2	Contingency Adjustme	Contingency Reductio	Approved		
		Contingency Draw 1	Work Package Level	Contingency Draw	Approved		
		Contingency Draw 3 - Unplanned Expense	Work Package Level	Contingency Draw	Approved		
		Contingency Draw 4- Unplanned Expense	Work Package Level	Contingency Draw	Approved		
		EAR Rev 1	Project Level	EAR Revision	Approved		
		EAR Rev 2	Project Level	EAR Revision	Approved		
		EAR Rev 3	Project Level	EAR Revision	Approved		
		EAR Rev 4	Project Level	EAR Revision	Approved		
		EAR Rev 5	Project Level	EAR Revision	Under Review		
		EAR0	Project Level	EAR Revision	Under Review		
		Expense Reduction	Work Package Level	Work Package Undersp	Approved		
		Expense Reduction for CS Labs	Contingency Adjustme	Contingency Reductio	Approved		

Lessons Learned Report

Lessons Learned

Change Layout

Project Definition [△]		Title [△]	PPM Practice Area [△]	Key Equipment [△]
GE-0007	Technical Services RFS	Test Lesson	Procurement	N/A
GZ-0004	MCA Unit 5 & Unit 6	Contract Schedule	Construction & Contract Management	N/A
		Site visit access	Construction & Contract Management	N/A

Issue / Opportunity [△]		Recommended Actions [△]
Testing an issue/opportunity		These are the actions you should take
Do allow contractor to start onsite work without an approved Contract Schedule.		If the Contract Schedule is not submitted ontime promptly send a letter to the contractor notifying them of the late submission. Remind the contractor that site work cannot start without an approved schedule. Consider telling the contractor that if the Contract Schedule is not submitted with a specific number of days that you will issue a Notice of Delay.
Ensure that all areas needed for completion of the scope of work have access during the procurement site visit		If areas needed for construction work are normally inaccessible make these areas accessible for the site visit.

PPM Integrated Executive Reporting

The PPM Executive reports in the BW are integrating the following project management dimensions:

- Scope
- Schedule
- Costs
- Portfolio/Program Structures
- Governance
- Resource Demand/Capacity
- Risk Management
- Project Change Control
- Performance Indicators

Examples:

- Project Executive Summary
- Portfolio Summary

PPM Integrated BW Reporting

Project Executive Summary (PS372) - pdf

Unifier within PPM

P6 – Unifier integration

Main Objectives of using Unifier:

- Capture Contract details
- Facilitate monthly Payment Estimates
- Capture Contract Changes
- Manage Contract Milestones

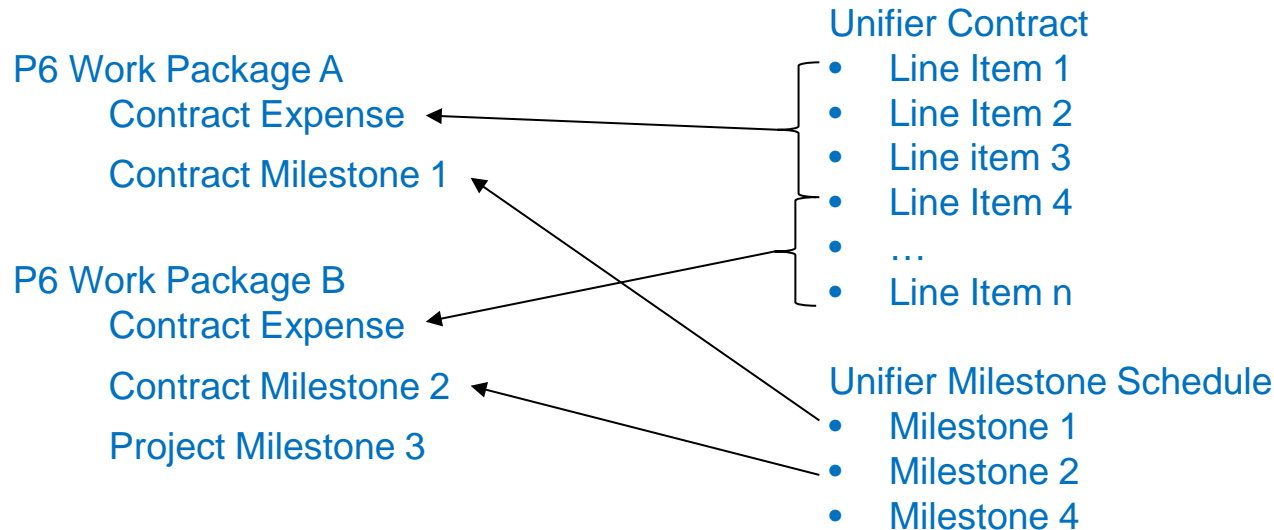
In P6

- Manage Work Packages
 - Contract Expense Forecast
 - Contract Actuals
 - Cash Flow profile
- Manage Milestones
 - Plan Date
 - Forecast Date

In Unifier

- Manage Contracts
 - Line Item Forecast
 - Line Item Payments
 - Contract Changes
- Manage Milestones
 - Forecast Date

P6 – Unifier integration



- Multiple Contract Line items in Unifier are related to one Contract Expense in P6 through the P6 Activity ID
- Line item Remaining Forecast is rolled up to the P6 Contract Expense
- Milestones in both Unifier and P6 are linked through the P6 activity ID
- Milestone Forecast date is kept synchronized between systems

PPM Success Factors

PPM Success Factors

Success of PPM is hinging on several factors:

- Clear Practices
- Defined PPM Roles
- Standard Work Breakdown Structure
- Monthly Project Progression Cycle
- Consistent Change Control
- Comprehensive Risk Management
- Integrated Reporting (no manual intervention)
- Well defined Solution Governance
- Active Enhancement program

Questions?

BC Hydro Contact:

- [REDACTED], PPM Tools Business Lead