# Effect of PMIS in PMO Success for Infrastructure Projects

**Presented by** **Mohamed Elfouly**

Project Controls
E X P O

# Speaker BIO

- **Phd. in Project Management, Cairo University**
- **Master of Engineering in Project Management, Helwan University in Cairo.**
- **PMP® ,PMI-RMP® ,PMI-SP®**
- **PRINCE2® , P3O ®, ITIL-4®, PMO-CP®**
- **Association of The Charted Institute of Arbitrators (ACIArb Membership No. 6091334)**
- **Association of Planning Engineers (AAPE Membership No. 120047)**

- **Contributed to Review of The Practice Standard for Scheduling 3rd Edition (Refer to Appendix X2.2.2 Final Exposure Draft Review).**
- **Contributed to Review of The Practice Standard for Work Breakdown Structures 3rd Edition (Refer to Appendix X2.2.2 Public Exposure Draft Review).**
- **Contributed to Review of The Standard for Project Management and A Guide to the Project Management Body of Knowledge – Seventh Edition (Refer to Appendix X1 Contributors and Reviewers).**

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# AGENDA

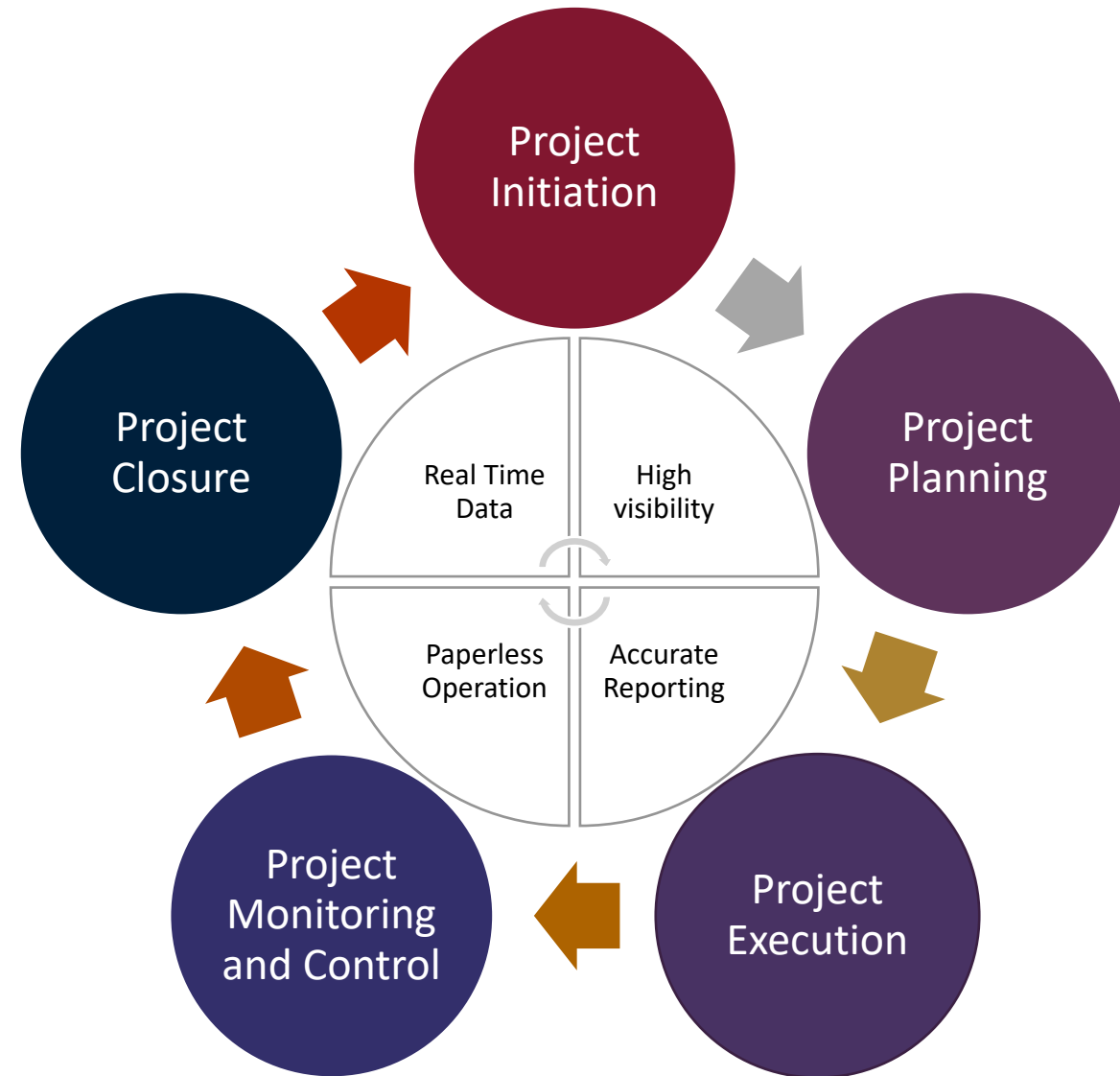| | |
|---|---|
| **1** | Introduction to Project Management Information System (PMIS) |
| **2** | Project Controls  Scope in PMO Projects |
| **3** | PMIS Role to Support Project Controls  in PMO |
| **4** | Reporting to support decision making using PMIS with 4D Planning and Business Intelligence. |

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# Introduction to Project Management Information System (PMIS)

- What is PMIS
- Why PMIS?
- PMIS Benefits
- Characteristics of a PMIS
- What is PMIS Capabilities?
- Types of PMIS?

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# What is PMIS?

- a group of Project Management integrated applications that assists the organization to manage and control a project through its lifecycle from Project initiation to Closure.



Project Initiation

Project Planning

Project Execution

Project Monitoring and Control

Project Closure

Real Time Data

High visibility

Paperless Operation

Accurate Reporting

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# Why PMIS?

Isolated Systems with unshared data

Lack of Documents Management

Manual Reporting and Dashboards

Multi data source with unverified data

Lack of effective tool that facilitate PMT collaboration and communication

Lack of achieving organizational strategic goals

Lack of Support all aspects of project management and the information they monitor or collect

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# PMIS Benefits

**01.**
Business Process Automation

**02.**
Ability to retrieve historical data

**03.**
Engineering Drawing Review/Markup

**04.**
Single source of truth

**05.**
Reducing documentation cycle approvals duration

**06.**
Transparency & Accountability information

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# Characteristics of a PMIS

**1**

Schedule and Planning

**2**

Resource Management

**3**

Cost Estimation and Control

**4**

Control and Performance

**5**

Reporting and Communication

**6**

Integration and Ease of Use

**7**

RISK Management

**8**

Quality Control

**9**

Document Control

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# What is PMIS Capabilities?

- PMIS should support Most of the communication and Collaboration needs of a project environment.

| | | |
|---|---|---|
| 1. Analyze & Forecast | 2. Monitoring & Control | 3. Governance |
| 4. Reliability | 5. Rapidity | 6. Adaptive |

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# Types of PMIS?

- There are different types of PMIS software, but most share feature sets that include tools for scheduling, work authorization, information collection and distribution, etc..

- PMIS may differ in scope, design and features depending upon an organization's operational requirements.

- PMIS can vary from something as simple as a File  containing Microsoft Excel documents, to a full-blown enterprise PMIS software.

- PMIS has two types in terms of utilization:

    Custom Made PMIS such as SharePoint.

    On-Shelf PMIS such as Primavera Unifier.

# Project Controls  Scope in PMO Projects

- PMO Major Success Factors

- Project Controls Main Elements

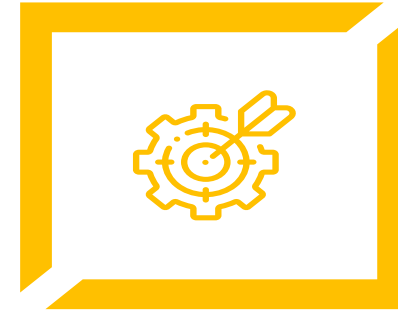# 10 key and recurring themes in successful PMOs



- The level of engagement by senior decision makers within the organisation;
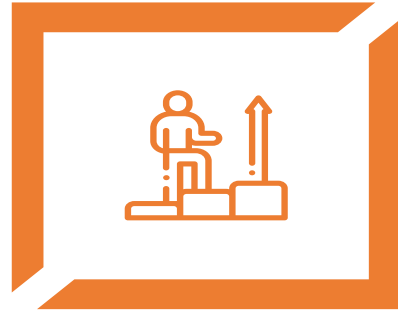
- Use of skilled resources actively managed with Project Management expertise
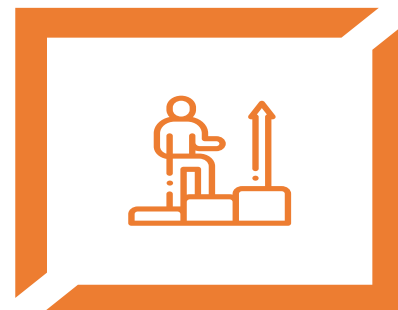
- Clear business objectives;

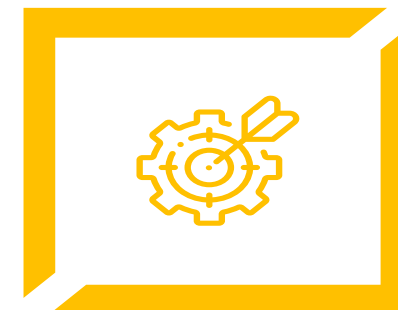- Agility, speed and adaptability

- Scope optimisation

- Organizations understanding at the outset what benefits they were aiming to achieve
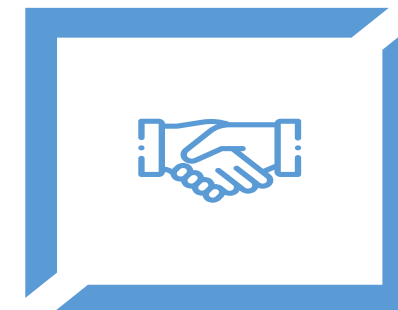
- Projects controls expertise

- Integrated Project management tools (PMIS)

- Financial management
- Risk management

- A formal, robust methodology for project delivery

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# Project Controls Main Elements

**01** Planning and Scheduling
(includes Developing & Monitoring)

**02** Cost estimating and management

**03** Risk Management
(includes identification & assessment)

**04** Scope and Change Management

**05** Earned Value Management

**06** Document Control

**07** EPC Performance Tracking

**08** Building Information Modelling (BIM)

**09** Reporting and forecasting

**10** Information Management System (PMIS)

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# PMIS Role to Support Project Controls in PMO
# (Case Study)

- PMIS Development Processes

# PMIS Development Processes

**01** Pre-Implementation
- Gap Analysis
- Gathering Information & Requirements
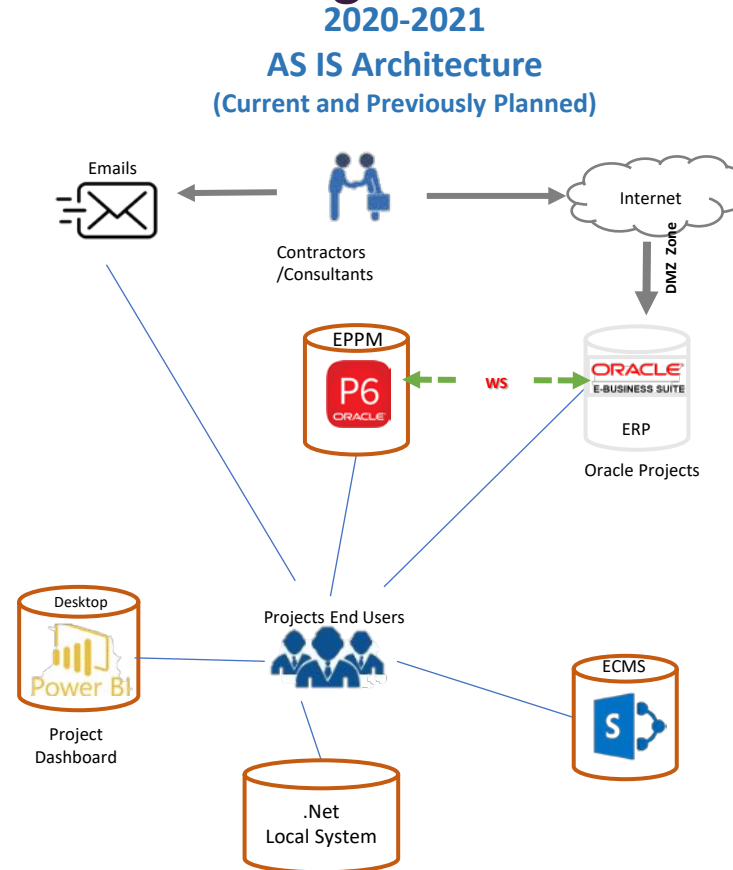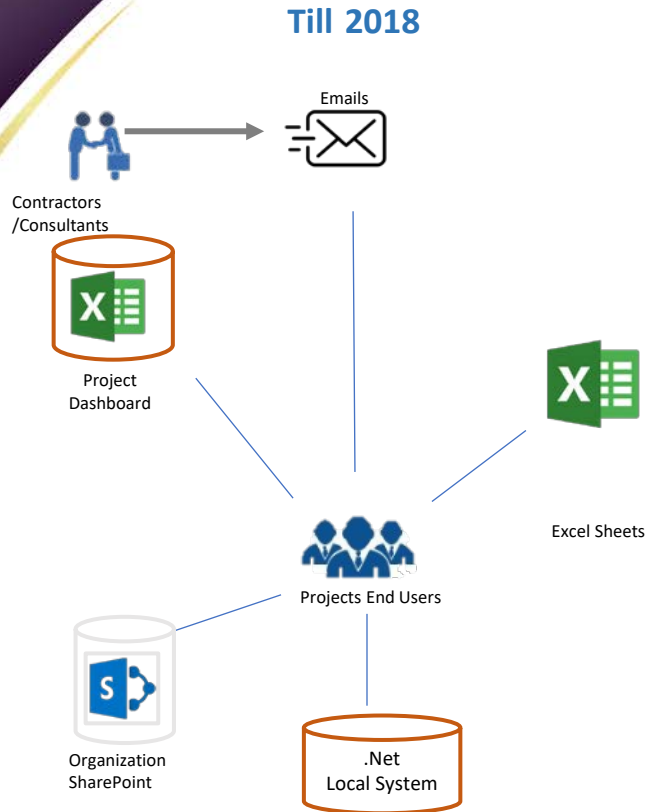- Road Map & Scoping

**02** Implementation
- Design & Development
- UAT & Operation

**03** Post-Implementation
- Monitoring & Evaluation of Outcomes
- Sustain the operation
- System Support
- Training & Knowledge Transfer

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# 1. Pre-implementation
## Gap Analysis / Gathering Information & Requirements



**Till 2018**

**2020-2021**
**AS IS Architecture**
**(Current and Previously Planned)**

**2021-2022**
**TO BE PMIS Architecture**

**New Identified Required Solutions:**
- Strategy Planning Portfolio
- Cost Estimation
- Risk Management
- Contract Management (Scope & Change Management)
- Quality Management
- Lessons Learned & Issue Logs
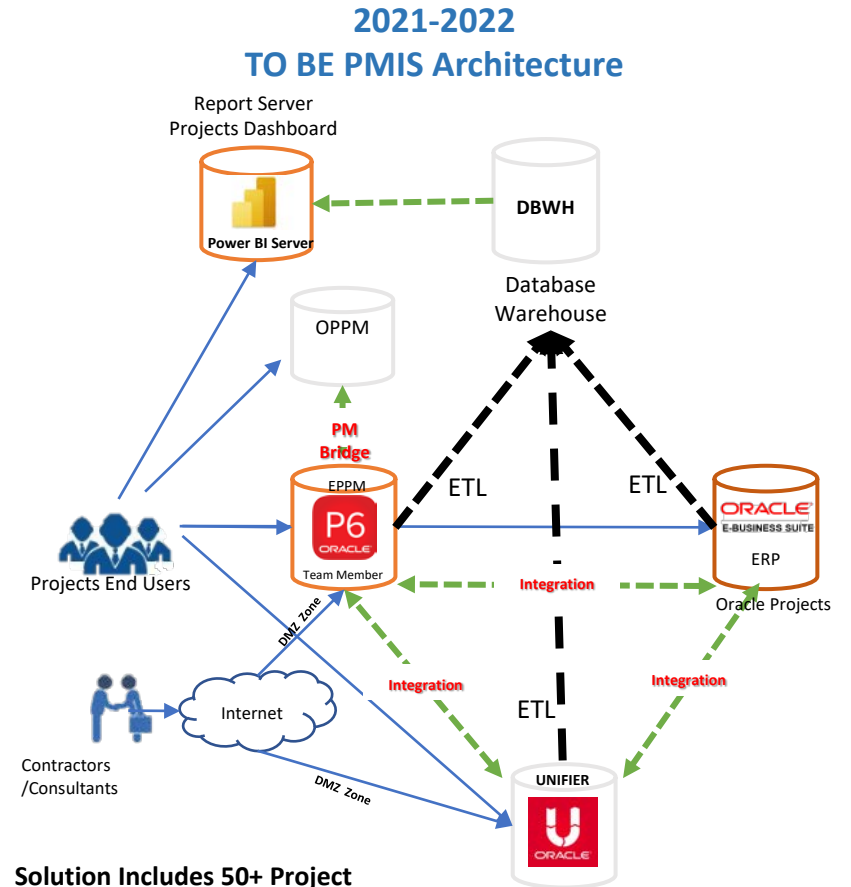
**Solution Includes 50+ Project Management Business process after Gathering Requirements:**

Project Documents ,Correspondences, Payment Applications, Inspections, Submittals, Capital Plan ,Cost Estimates,
New Project registration , Project Closure, Project Charter , RFP

Preparation ,Contract Management ,Change Orders, Payment requests, Testing & Commissioning, Site Handover , Work inspection request Initial and final Acceptance ,etc..

**Project Controls**
**EXP**

# 1. Pre-implementation
## Road Map & Scoping

**Strategic Planning**

- Masterplan
- Class 5 Cost Estimate

**HQ / Cluster Strategic Planning**

- Project ID Generation
- 5Y PPP Plan
- Annual Capital Works Plan
- Business Case
- Level 1 Schedule
- Fund Approval
- Class 5 Cost Estimate

**Strategic Planning**

- Project Registration
- NPMO Project No.

**Directorate (Cluster)**

- Project Planning
- Project Charter
- Estimation

**TS (HQ)**

- Design RFP
- Tender Design

**Procurement**

- Contract Package
- Design PO

**TS (Design Consultant)**

Project Design Submittals

**TS**

- Design Review
- Value Engineering

**Projects (Contractor)**

Construction Works

**TS**

- RFP Preparation
- Tendering & Awarding

**TS (Design Consultant)**

- Class 2-3 Estimation
- BOQ

**TS**

Design Approval Payment & Invoicing

**TS (Contractor)**

Quality Control, Commissioning, Acceptance

**Projects & Finance**

Payment Application

**Finance**

Contractors Invoices

**Projects & Assets**

Project Closeout, Asset Capitalization and Handover
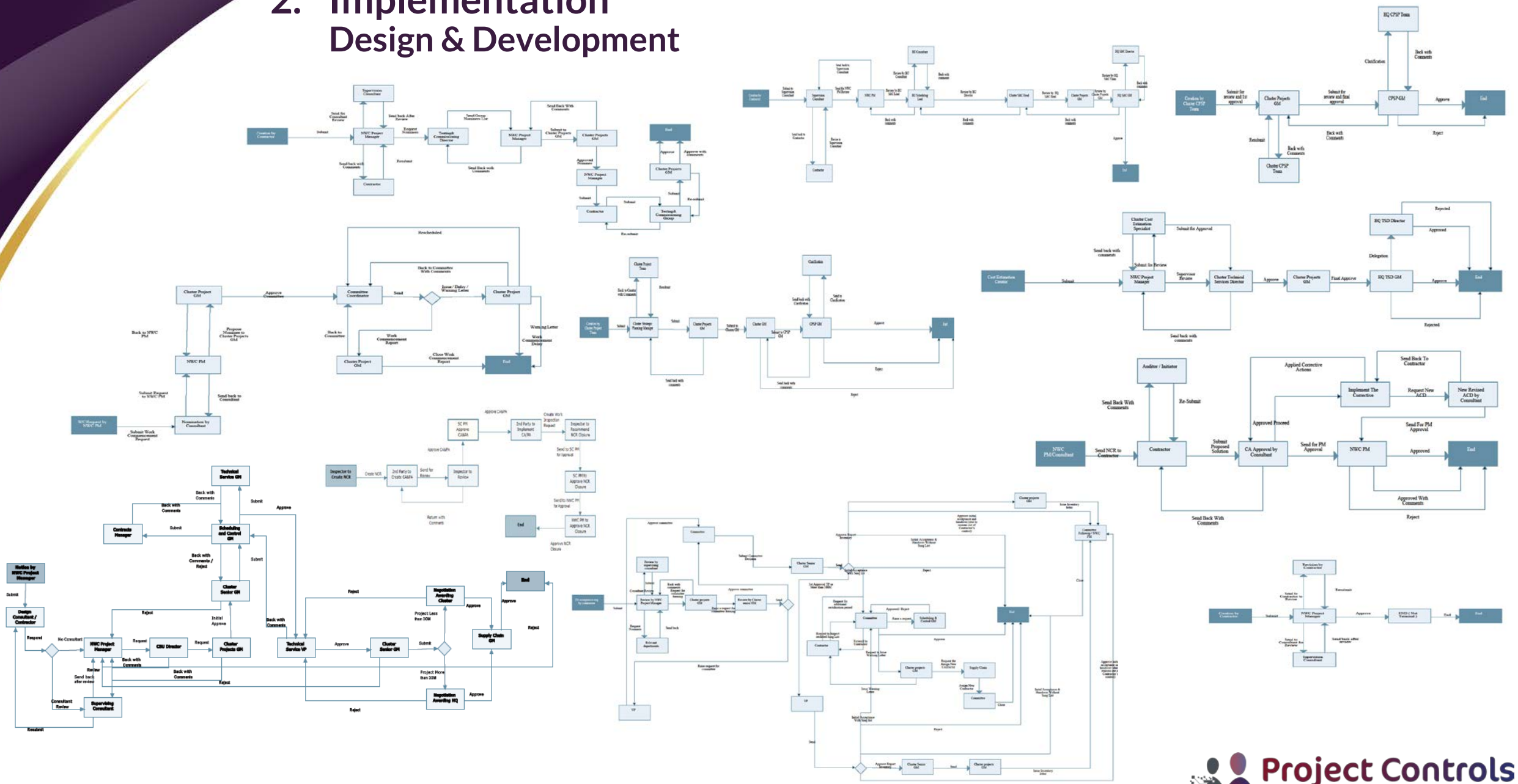
Analytics Reporting

**Analytics & Dashboards**

**TS**: Technical Services — **Oracle Primavera Unifier / EPPM / OPPM** — **Power BI/DBWH** — **ERP** — **GIS**

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# 2. Implementation
## Design & Development

**Level 1** — Master Plan
**Level 2**

Phases: 5YPPP Annual Capital Works Plan (Fund Approval) → Project Registration → Initial Planning → Tender for Design → Design → Tender for Construction → Construction → Test & Commissioning → Handover & Closeout

| 5YPPP Annual Capital Works Plan | Project Registration | Initial Planning | Tender for Design | Design | Tender for Construction | Construction | Test & Commissioning | Handover & Closeout |
|---|---|---|---|---|---|---|---|---|
| Business Case | New Project Registration | Project Management Plan | RFP Preparation | Design Management Plan | level 2 Schedule for Construction | Construction Management Plan | Pre-commissioning | Initial Handover Inspection |
| Scope Of Work | Project Registration Checklist | Project Charter | Tech. Evaluation Committee Nomination | Level 3 Schedule for Design | Tech. Evaluation Committee Nomination | Level 3 Schedule Submission/Update | Testing & Commissioning | Initial Acceptance |
| Level 1 Schedule | | Analyze Business Case | Tech. Evaluation | Design Submittal / Review | Tech. Evaluation | Site Handover | | Final Handover Inspection |
| Class 5 Cost Estimate | | Cost Estimate (Order of Magnitude Class 4) | Risk Management Plan | Value Engineering workshop | Risk Management Plan | Permit to Work (PTW), Inspection and Testing Plan (ITP) | | Review, Approve and process Final Payment |
| | | Environmental Impact Assessment (EIA) | Develop level 2 Schedule for Design | Cost Estimate (Class2 and 3) | PO/Contract Package | Work Inspection Request (WIR), Material Inspection Request (MIR) | | Final Acceptance |
| | | PO/Contract Package | | Change order | Tender Queries and Responses | Submittals | | Lessons learned Report |
| | | | | Risk Management | Approve Class 1 Cost | Request for Information (RFI) | | Project Closure |
| | | | | Payment Request | | Construction Performance Reporting, NCRs | | |
| | | | | Contract Management | | Health Safety & Env. (HSE) | | |
| | | | | Design Performance Reporting | | Risk Management | | |
| | | | | Claims | | Change Order & Claims | | |
| | | | | Project Withdrawal | | Payment Request | | |
| | | | | Suspension & Resumption | | Contract Management | | |
| | | | | | | Project Withdrawal | | |
| | | | | | | Suspension & Resumption | | |

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## 2. Implementation
### Design & Development

# 2. Implementation
## Design & Development
## P6 EPPM Technical Enhancements

**Current Phase : Completed**

**Project Duration**
- Start Date: 1st May 2021
- Finish Date: 31 Jul 2021
- Duration: 3 Month

**Project Stakeholders**
- Project Controls Department
- Project Cost Controls

**Remarks**

### Project Overview and Requirement

The Project Controls division of Organization requires the implementation of new P6-EPPM solution infrastructure version and apply required patches correctly to be suitable with the business needs and requirements, and to create security profiles (global and projects) with privileges suitable to end user's roles.
Technical enhancements are mandatory for integration with oracle unifier, oracle EBS and the full PMIS solution

### Scope

- Create new EPPM infrastructure and apply required patches.
- Implement new EPPM setup (EPS, OBS, Profiles, users, .....)
- Reviewing and testing data migration.
- Upgrading P6-EPPM application and P6 Professional to latest version 20.12.xx and apply all required patches for database, EPPM application and P6 Professional.
- Upgrading database to Oracle database enterprise edition 12C.

- Filtering, updating user's security profile.
- Filtering updating "cleansing" project list and OBS,
- Reconfiguring application settings .
- Activating integration layers BIP for reports release.
- Upgrading the current hardware resources for the P6 EPPM solution servers

### Required Resources

Primavera Technical Specialist

### In House / Outsourced

In House

### Dependencies / Assumptions

Hardware Servers
Access permission

### Outcomes

- Upgrading to latest version in the market.
- Supporting new features and better system stability.
- Full support for Arabic language and new Arabic interface.
- Resolving Performance and security issues.
- Resolving Technical issues and system bugs.
- Applying all integration prerequisites.

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# 2. Implementation
## Design & Development
## Unifier Phase 1

**Current Phase : In Progress**

**Project Duration**
- Start Date: 19 Sep 2021
- End Date

**Project Stakeholders**
- Project Controls Department
- Strategic planning
- Project Document Control
- Project Cost Controls
- Project Scheduling

**Remarks :**

### Project Overview and Requirement

Organization Project Controls Department requires the Automation of the critical Project lifecycle business processes that are related to the different project stages, schedules and cost. Project Business Processes should be integrated with the ERP cost data and the P6 Schedules.

### Scope

Implementation of the Oracle Primavera Unifier for the Organization. Business Processes should include the critical project lifecycle processes required to control project cost and schedule per the Organization PMM. Integration with Oracle EBS project Cost and P6 EPPM Schedules . Business processes shall include :
1. 5 YR PPP and Annual Capital Works Plan
2. level 1,2 and 3 Schedule baseline submission and updates
3. Class 5, 4 , 3, 2 and 1 Cost Estimation, Cost Sheet and Commits

4. New Project registration and Project Closure
5. Project Charter and RFP Preparation
6. Site Handover, MIR,WIR,NCRs
7. Contract Management ,Change Orders and Payment requests
8. Testing & Commissioning, Final Handover inspection and Final Acceptance

### Required Resources

Project Manager        *Primavera Technical Specialist
PMIS Implementation Lead
Unifier Developer

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

P6 EPPM Schedule Enhancement

Oracle EBS Project Costing Implementation

P6 Team Member

P6 EPPM Technical enhancements (new infrastructure , new version, applying patches, Cleansing etc.) are required and mandatory.

### Outcomes

- Implementation of the Major Organization Project lifecycle processes (23 Business process) integrated with ERP cost and P6 Schedules.
- Enhancement and Upgrade of the Enjaz system to a Unifier platform.
- Implementation of a world class project control system.
- Automation of the Schedule baseline submission process.
- 200 Unifier Users (90 Organization employees – 30 Consultants – 80 Contractors)

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# 2. Implementation
## Design & Development
## EBS (ERP) Projects

**Current Phase : In Progress**

**Project Duration**
- Start Date: 15 Dec 21
- End date : 1st Mar 22

**Project Stakeholders**
- P&TS Department
- Project Cost Controls

**Remarks**
- P6 integration should be redesigned to include Primavera Unifier

### Project Overview and Requirement

NWC P&TS Department requires the ability to capture and tracking NWC Projects costs and invoices on a detailed BOQ level. Project Cost information should be integrated with the rest of the NWC accounting cycles (Purchasing, Accounts Payable and General ledger). Project cost reports are currently generated manually and gathered through communications or systems with manual data-entry. It is required to have an end-to-end project cost solution that will be able to generate trusted project cost reports automatically.

### Scope

Implementation of the Oracle Projects Module in the Oracle E-business Suite ERP system for the NWC while interfacing project header creation and project stages with P6 EPPM. Applying validation of quantities entered in P6 as resources with the Supplier's work confirmation.

### Required Resources

Project Manager
PMIS Implementation Lead
Oracle Projects Consultant

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

- For P6 Quantities validations with the EBS, Existing P6 EPPM schedules should be updated and assigned with latest approved baselines, projects activities update, configured proper resource as per BOQ and assigned to activities. Current status of the EPPM schedule data unprepared for EBS integration in regard to Work confirmation validation of quantities with P6 resources.

### Outcomes

- Creation of NWC Projects in the ERP system.
- Capturing and tracking NWC CAPEX Projects costs and invoices.
- Creating PR and PO with detailed project BOQ items based on the CSI Standards
- To capitalize projects assets into the ERP Fixed Assets application.
- Automation of Project Cost reports
- Automating the Approval workflows for each project stage change

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# 2. Implementation
## Design & Development
## P6 Schedules Enhancement

**Current Phase : In Progress**

**Project Duration**
- Start Date: 29 April 22
- End Date : 31st Jan 22

**Project Stakeholders**
- Project Controls Department
- Project Scheduling

**Remarks :**

### Project Overview and Requirement

Organization Project Controls Department requires the activation of the EPPM Dashboards and for the project Schedules in P6 (EPPM) to be integrated with the PMIS Solution applications in an automated environment. Therefore, it is required that the Organization P6 (EPPM) Project schedules to be fully imported, updated and utilized properly and constantly.

### Scope

- Reviewing and Approving Organization Projects Baseline Schedules.
- Assuring Compliance with Organization Resources Directory
- Importing and Assigning Approved Baseline Schedules
- Review and Improvement of updating approved Baseline Schedules Process.
- Monitoring of schedules updating status
- Utilizing the P6 features
- Assessing required additional planning resources and providing accordingly.
- Data Cleaning (If Any)
- Review and Applying required access controls and configuration to the P6
- Application to assure schedule import/update controls.
- Work instructions / Guidelines and workshops.

### Required Resources

Project Manager
PMIS Implementation Lead
Primavera Technical Consultant

### In House / Outsourced

In House

### Dependencies / Assumptions

Primavera Team member is required during the Execution of this project as per the PMIS Roadmap's 1st Release.

P6 EPPM Technical enhancements (new infrastructure , new version, applying patches, Cleansing etc.) are required and mandatory.

### Outcomes

- Organization Projects P6 fully updated schedules for all projects.
- Applying required controls and process updates for schedules to be updated constantly on a monthly basis

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# 2. Implementation
## Design & Development
## P6 Team Member

**Current Phase : Not Started**

**Project Duration**
- Start Date: 19 SEP 2021
- Duration: 4 Month

**Project Stakeholders**
- Project Controls Department
- Project Cost Controls
- Project Scheduling

Remarks :

### Project Overview and Requirement

Organization Project Controls Department requires the ability for the Organization project clusters and contractors to update the project p6 schedules with the true progress while enablement of reviewal and approval of the updates by the Project Controls Department to ensure project integrity.

### Scope

- Implementation of the Primavera P6 Team member application for the Clusters & Contractors.
- Configuring approval workflows for project updates

### Required Resources

Project Manager
PMIS Implementation Lead
Primavera Technical Specialist

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

P6 Schedules Enhancement

P6 EPPM Technical enhancements (new infrastructure , new version, applying patches, Cleansing etc.) are required and mandatory.

### Outcomes

Organization project clusters and contractors can easily update project schedules using web or mobile platforms while allowing workflow Review and Approval by management

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# 2. Implementation
## Design & Development
## Unifier Phase 2,3

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**Current Phase : Not Started**

**Project Duration**
- Start Date: 1 Aug 2022
- End Date : 30 Nov 22

**Project Stakeholders**
- Project Controls Department
- Strategic planning
- Project Document Control
- Project Cost Controls
- Project Scheduling

**Remarks :**

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### Project Overview and Requirement

Organization Project Controls Department requires the Automation of the remaining Project lifecycle business processes that are related to the different project stages while integrating to the previously developed schedules and cost business processes in the Unifier phase 1 project.

### Scope

Implementation of the Oracle Primavera Unifier for the Organization. Business Processes should include the remaining project lifecycle processes per the Organization PMM. Integration with Oracle EBS project Cost and P6 EPPM Schedules . Business processes shall include :
1. Project Registration Checklist, Project Management Plan, Analyze Business Case
2. EIA, Tech. Evaluation , Evaluation Committee Nomination

3. Risk Management Plan, Risk Management
4. Design Submittal / Review, Value Engineering workshop
5. Claims, Project Withdrawal, Suspension & Resumption
6. Tender Queries and Responses ,PTW ,ITP, submittals, RFI,NCR,HSE
7. Pre-commissioning, Initial Handover Inspection, Initial Acceptance
8. Approve final payment, lessons learned, Project Closure

### Required Resources

Project Manager            Primavera Technical Specialist
PMIS Implementation Lead
Unifier Developer

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

P6 EPPM Schedule Enhancement

Unifier Phase 1

Oracle EBS Project Costing Implementation

### Outcomes

- Implementation of the remaining Priority PMM Organization Project lifecycle processes integrated with ERP cost and P6 Schedules

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## 2. Implementation
### Design & Development
### BI Projects Dashboard Phase 1,2

**Current Phase : Not Started**

**Project Duration**
- Start Date: 1 Dec 21
- End Date : 31 Aug 22

**Project Stakeholders**
- Project Controls Department
- Project Cost Controls
- Project Scheduling

**Remarks :**

### Project Overview and Requirement

Organization Project Controls Department requires the development of Realtime highly advanced business intelligence projects dashboards and implementing Performance KPI dashboards for the major implemented Unifier business processes.

### Scope

- Implementation of the Database Warehouse solution with ETL (Extract-Transform- Load) capabilities configured to extract project related information from the Unifier, P6 and EBS Project costing databases and setting up the required staging tables.
- Development BI Power Dashboards loaded with project cost, schedule and scope data from the DBWH environment.

### Required Resources

Project Manager
PMIS Implementation Lead
Primavera Technical Specialist

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

P6 EPPM Schedule Enhancement
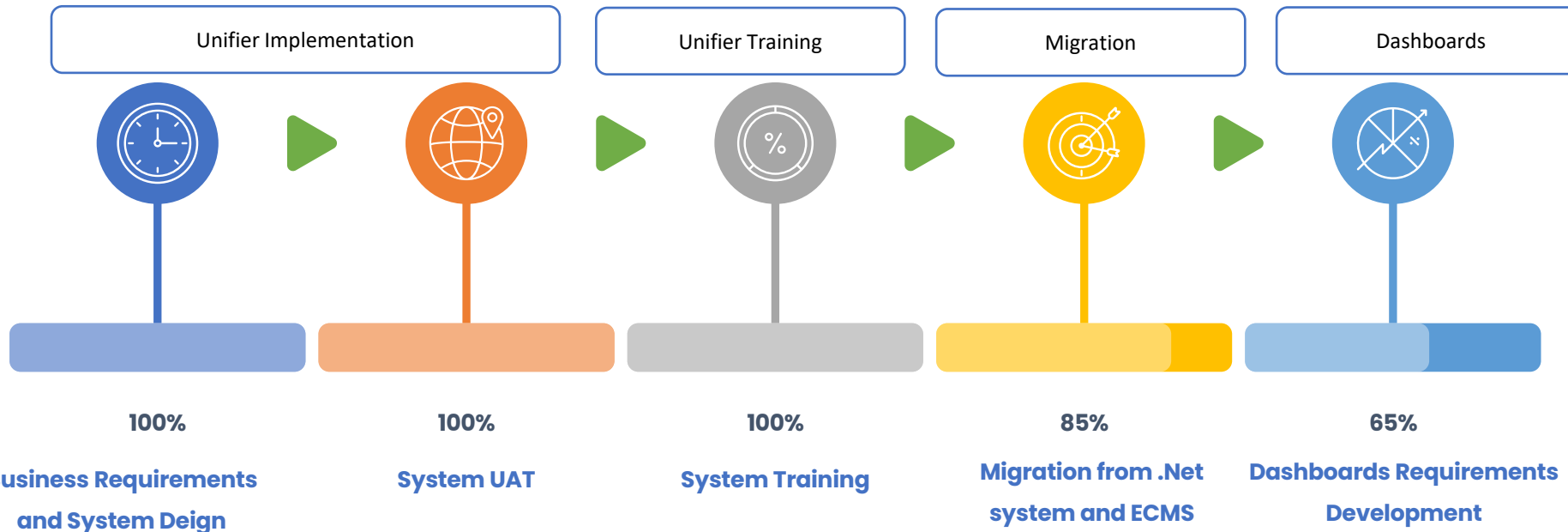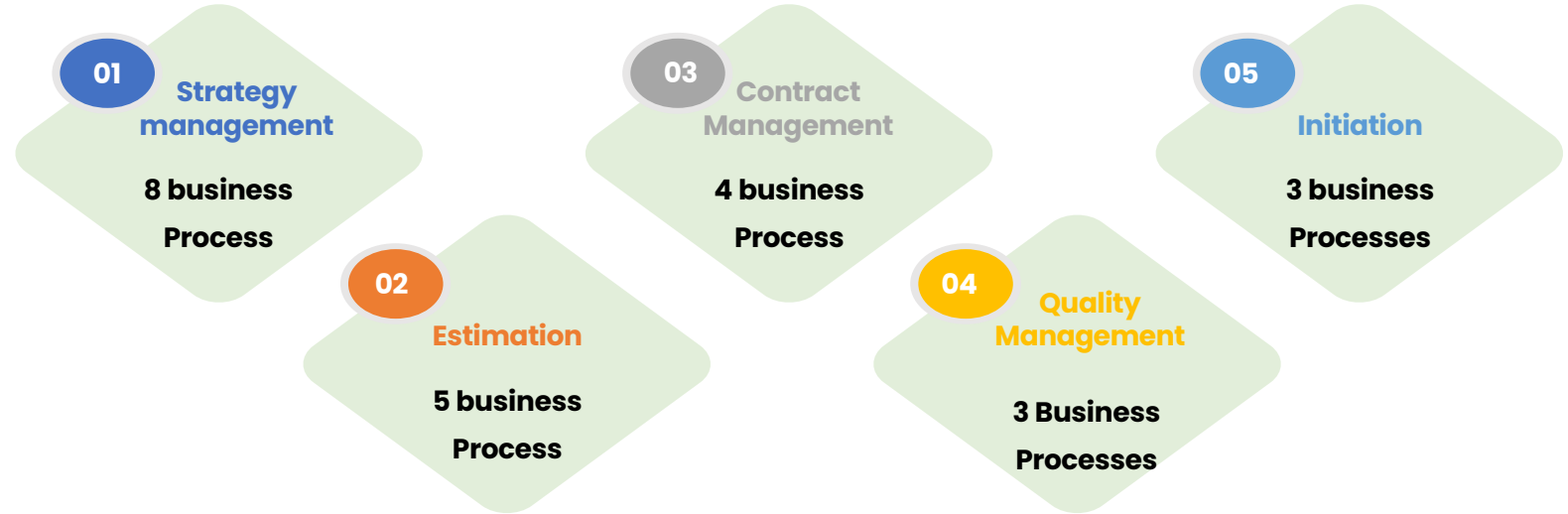
Unifier Phase 1

Oracle EBS Project Costing Implementation

### Outcomes

- Advanced data drill down and historical information trends.
- Highly sophisticated custom made KPIs that assists the Organization in decision making.

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# 2. Implementation
## Design & Development
## Oracle Project Portfolio Management Implementation

**Current Phase : Not Started**

**Project Duration**
- Start Date: 1 Apr 2022
- Duration: 5 Month

**Project Stakeholders**
- Project Controls Department
- Strategic Planning
- Project Cost Controls
- Project Scheduling

**Remarks :**

### Project Overview and Requirement

Organization Project Controls Department requires the implementation of Portfolio Management solution to propose, plan, control and strategically analyze Organization investment portfolios.

### Scope

OPPM Implementation to include:
1- Project categorization and scoring and allowing the setup of project dependencies and prioritization.
2- The configuration of Scorecards to allow analysis of projects using Organization metrics to measure investment performance
3- Integration with Primavera P6 EPPM to allow publishing/update of Projects from OPPM and to synchronize project information update from P6.
4- Alignment of Portfolio Capital Plans with targeted budgets using what-if scenarios.
5- Development of the Business Case, Scope of Work Business process that reflect into the big picture formats (investor maps, Scorecards)

### Required Resources

Project Manager
PMIS Implementation Lead

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

P6 EPPM Schedule Enhancement

### Outcomes

Solution will allow the Strategy team to propose initiatives that align with the Organization's strategy and mission.

Automation of the Business Case, Scope of work.

Capital Planning using Scenario based and graphical Analysis

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# 2. Implementation
## Design & Development
## ECMS Repository Setup for Unifier

**Current Phase : Not Started**

**Project Duration**
- Start Date: 1st Oct 2021
- Duration: 2 Month

**Project Stakeholders**
- P&TS Department
- Project Document Control

**Remarks :**

### Project Overview and Requirement

NWC P&TS Department requires the ability for non-Unifier NWC users to easily access and search for Unifier automated business processes project content and documentation using the existing ECMS System currently being utilized in NWC.

### Scope

Configuration/development of the existing ECMS environment to integrate with the Primavera unifier solution as a content repository. Configuration of the Primavera Unifier environment content repository to SharePoint (ECMS) settings.

### Required Resources

Project Manager
PMIS Implementation Lead        SharePoint Developer
Primavera Technical Specialist

### In House / Outsourced

Outsourced

### Dependencies / Assumptions

Unifier Phase 1

### Outcomes

Having the ECMS as a content repository integrated with Primavera Unifier will avoid cluttered, unstructured content and will enable having an organized catalog, access, search, and reuse for the project documentation.

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EXP

# 2. Implementation
## UAT & Operation
## Unifier Phase 1 Deliverables

**20 BP**

**01 Strategy management**

8 business Process

**02 Estimation**

5 business Process

**03 Contract Management**

4 business Process

**04 Quality Management**

3 Business Processes

**05 Initiation**

3 business Processes

| Unifier Implementation | Unifier Training | Migration | Dashboards |

100%

**Business Requirements and System Deign**

100%

**System UAT**

100%

**System Training**

85%

**Migration from .Net system and ECMS**

65%

**Dashboards Requirements Development**

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# 2. Implementation
## UAT & Operation
## Unifier Phase 2 Deliverables

**15 BP**

**01** Schedule and Control
6 business Process

**02** Technical Services
5 business Process

**03** Risk Management
2 business Process

**04** Quality Management
1 Business Processes

**05** Strategy Management
1 business Processes
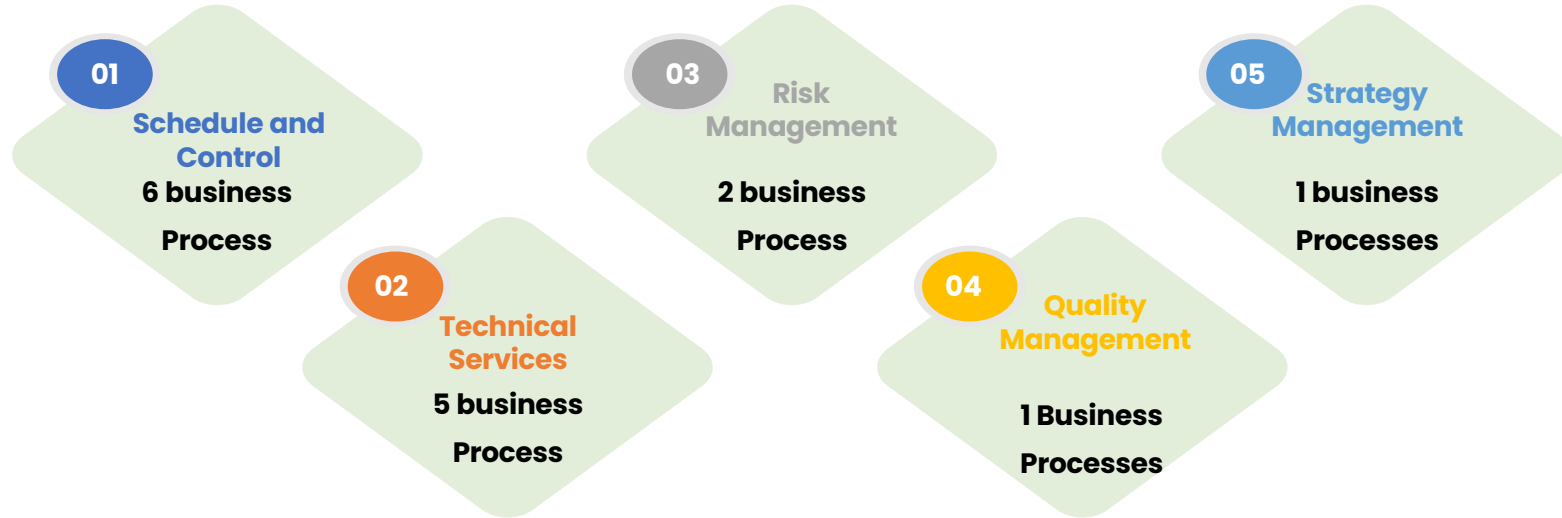
Unifier Implementation

Integration

**90%**

**Business Requirements and System Deign**

**20%**
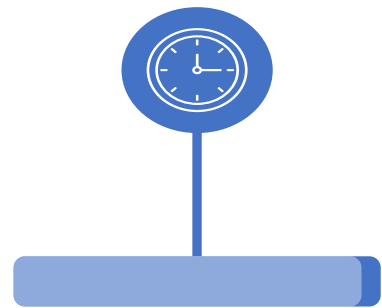
**Phase II Development**

**0%**

**UAT and Training**

**10%**
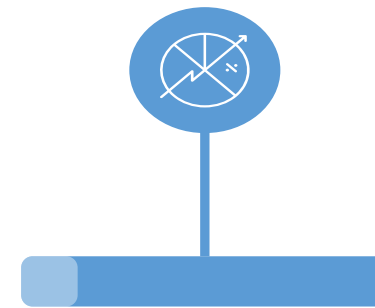
**Integration Requirements**

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## 2. Implementation
### UAT & Operation
### P6 EPPM & Team Member

| P6 Enhancements | P6 and Unifier Mapping |
|---|---|

**100%**

**Update P6 Enterprise Data**

-Update the EPS
-Update Users and Security Profiles
-Update OBS

**40%**

**Update Final Projects List**

-Update Final Projects List
-Save Project baselines

**15%**

**Team Member Activation**

-Connect users to Projects
-Configure Team member setting to projects

**05%**

**Mapping P6 Activities to Cost Sheets**

-Connect P6 Activities to Cost codes in Unifier
-Build Cashflow Curve
-Connect P6 Schedule to Schedule Manager in Unifier

**Project Controls EXPO**

# Reporting to support decision making using PMIS with 4D Planning and Business Intelligence.

**Project Controls EXPO**

# Understanding PMIS Integration for Reporting
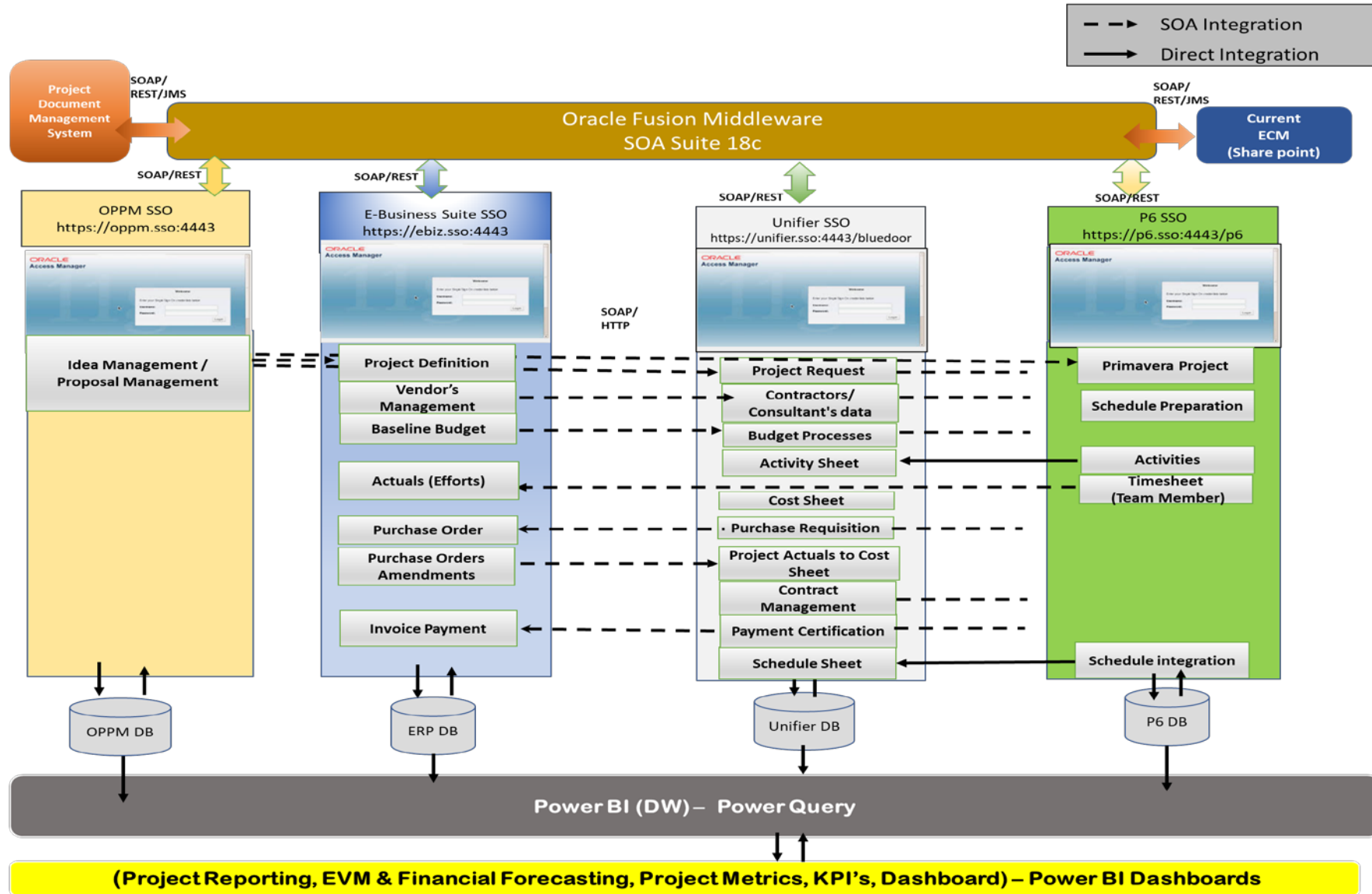
# Dashboard Development using Business Intelligence



**85%**

1- Verifiy the Formula and Connect to Data Source
2-Verify the reflected Data
3-Perform Validation of the reflected Data and Data Sources
4- Perfom Vaidation on Formulas

**80%**
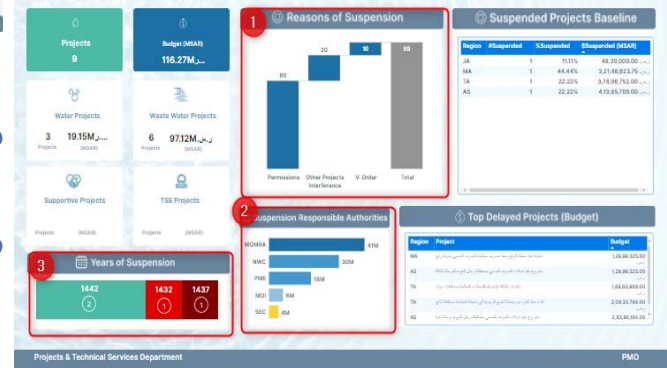
**70%**

1-Get Access to ERP Related Veiw
2- Get the formula of Schedule Complaince KPI
3-Get the Formula of Calculating Area Served and Populatiuon
4- Conncet to P6 Shcedules

1- Verifiy the Formula and Connect to Data Source
2-Verify the reflected Data
3-Perform Validation of the reflected Data and Data Sources
4- Perfom Vaidation on Formulas

**100%**

1- Perform Validation of the reflected Data and Data Sources
2- Perfom Vaidation on Formulas

Project Controls EXPO

# Dashboard Development using Business Intelligence



**100%**

1- Perform Validation of the reflected Data and Data Sources
2- Perfom Vaidation on Formulas

**90%**
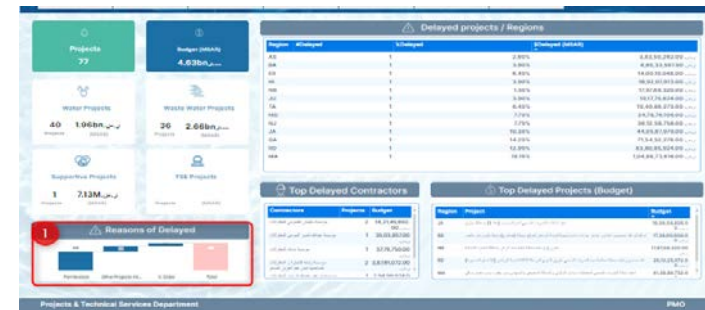
1- Verifiy the Formula and Connect to Data Source
2-Verify the reflected Data
3-Perform Validation of the reflected Data and Data Sources
4- Perfom Vaidation on Formulas

**80%**

1- Verifiy the Formula and Connect to Data Source
2-Verify the reflected Data
3-Perform Validation of the reflected Data and Data Sources
4- Perfom Vaidation on Formulas

**40%**

1- Verifiy the Formula and Connect to Data Source
2-Verify the reflected Data
3-Perform Validation of the reflected Data and Data Sources
4- Perfom Vaidation on Formulas

# Unifier Implementation Phase 1- Demonstration

**P6 and Team Member Implementation-Portfolio View**

# Challenges of Applying PMIS

# THANK YOU