

PHOENIX PARK GAS PROCESSORS LIMITED [PPGPL]

DIGITAL BUSINESS TRANSFORMATION PHASE 2A KICKOFF

SEPTEMBER 6TH, 2023

PREPARED BY: JOHN SINCLAIR & PULTON LEUNG



Agenda

1. Introduction

- Few words from our executive sponsors
- PPGPL Introduction
- BOSCH Introduction

2. Executive Summary

3. Transformation Program Journey

4. Phase 2A Scope & Objective

5. Program Management Approach

6. Program Governance & Communications

7. Tools

8. Guiding Principle & Dependencies

9. Q&A

PPGPL – Our Executive Sponsors

Few words of encouragement from our executive sponsors



Dominic Rampersad
President



Reshma Bharat
VP Finance, Technology & Risk

PPGPL – Key Stakeholders



Dominic Rampersad
President



Reshma Bharat
VP Finance, Technology & Risk



Colin Ramesar
VP Operations



Matik Nicholls
VP Innovation & Corporate Agility



Dion White
Supervisor Technology & Innovation
[Program Manager – Phase 2A]



Alvin Dookie
VP Business & Market Development



Zareen Mohammed
Manager Corporate Partnership



Florence Mulchansingh
Corporate Attorney



Rehea Jaikaran
Manager Talent & Culture
Transformation



Rajendra Narine
Team Lead - BI & Innovation
[Project Manager – Phase 2A]

Bosch – Core Team



John Sinclair

Transformation Program Executive
[Transformation Program Office – TPO]



Jason Winnebeck

Transformation Program – Engineering
Lead



Pulton Leung

Transformation Program Partner
[Transformation Program Office – TPO]



Kamya Sarma

UX Strategist



Shyam Krishnan Thottingal

UX Principal Consultant



Sriram Sampath

Principal Consultant
Corporate Functions



Baskaran G.S

Principal Consultant
Operations



Ashok Mallya

Agile Project Manager
Digital Twin



Sushovan Chakraborty

Principal Consultant
Digital Twin



Sunil Nair *

Program Manager / Agile Coach

* To be onboarded; John Sinclair & Pulton Leung will provide Program Management coverage in the interim

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Bosch – Sales & Delivery Leadership



Digant Shah
Group President, SDS
[Global Sales & Delivery Head]



Vinay Shetty
Client Partner – PPGPL



Muthaiah P
Global Head Digital Enterprise



Chandrasekar R
Delivery Head – Enterprise
Technologies

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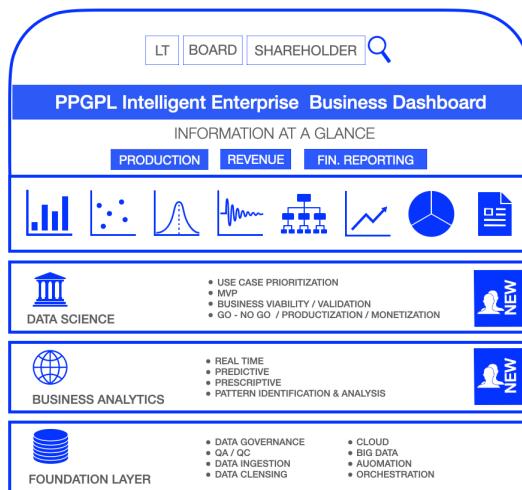
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Executive Summary

Phoenix Park Gas Processors Limited [PPGPL] is embarking on a Digital Business Transformation journey to become a ‘First-In-Class’ Digital Business Enterprise amongst its industry peers. The core objective of this digital transformation is to empower PPGPL teams to make strategic business decisions based on data, competitive research, and analytical insights, positioning them for agility, growth, and profitability.

This will be a multi-phased transformation program with approximate duration of 2.5 to 3 years.



Phase 2A will specifically focus on the design and implementation of foundational elements that are critical dependencies to the subsequent phases of the overall transformation program. This phase will encompass the design and enablement of Cloud Infrastructure, Data Lake Deployment, and MLOps, along with select use cases for Corporate functions and Operations.

Additionally, we will design and implement three [3] Digital Twin Minimum Viable Product [MVPs], enabling real-time and predictive maintenance for Gas Turbines, Cooling Fans, and Pumps.



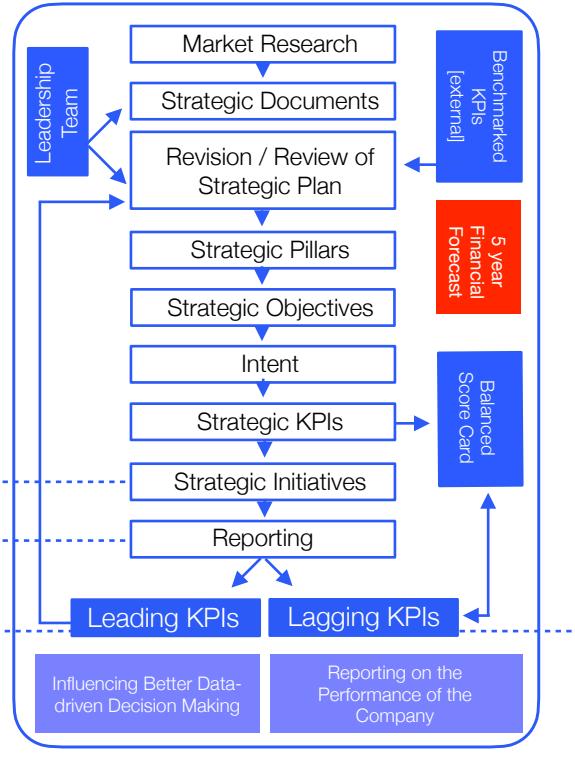
PPGPL Leadership Vision for the Future-State

FEB / MAR 2024: PHASE 2a - Initial Go-Live Date [Foundation] *

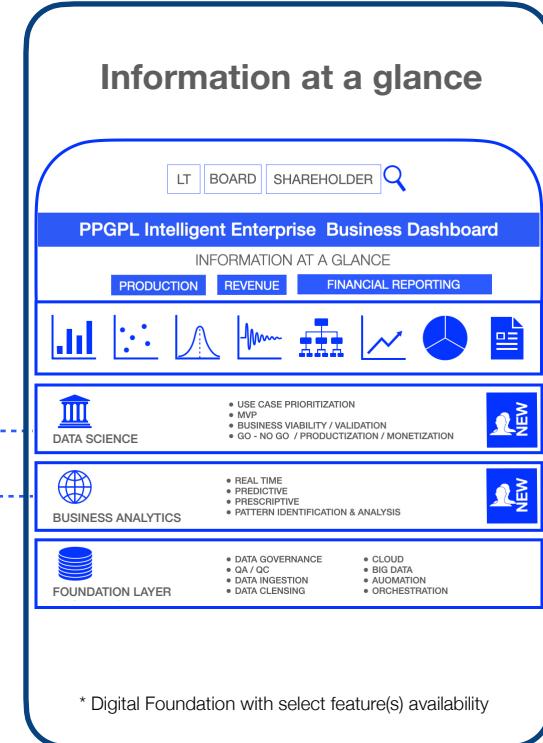
Portfolio Management Process



Strategic Management Process



Intelligent Enterprise Business Process

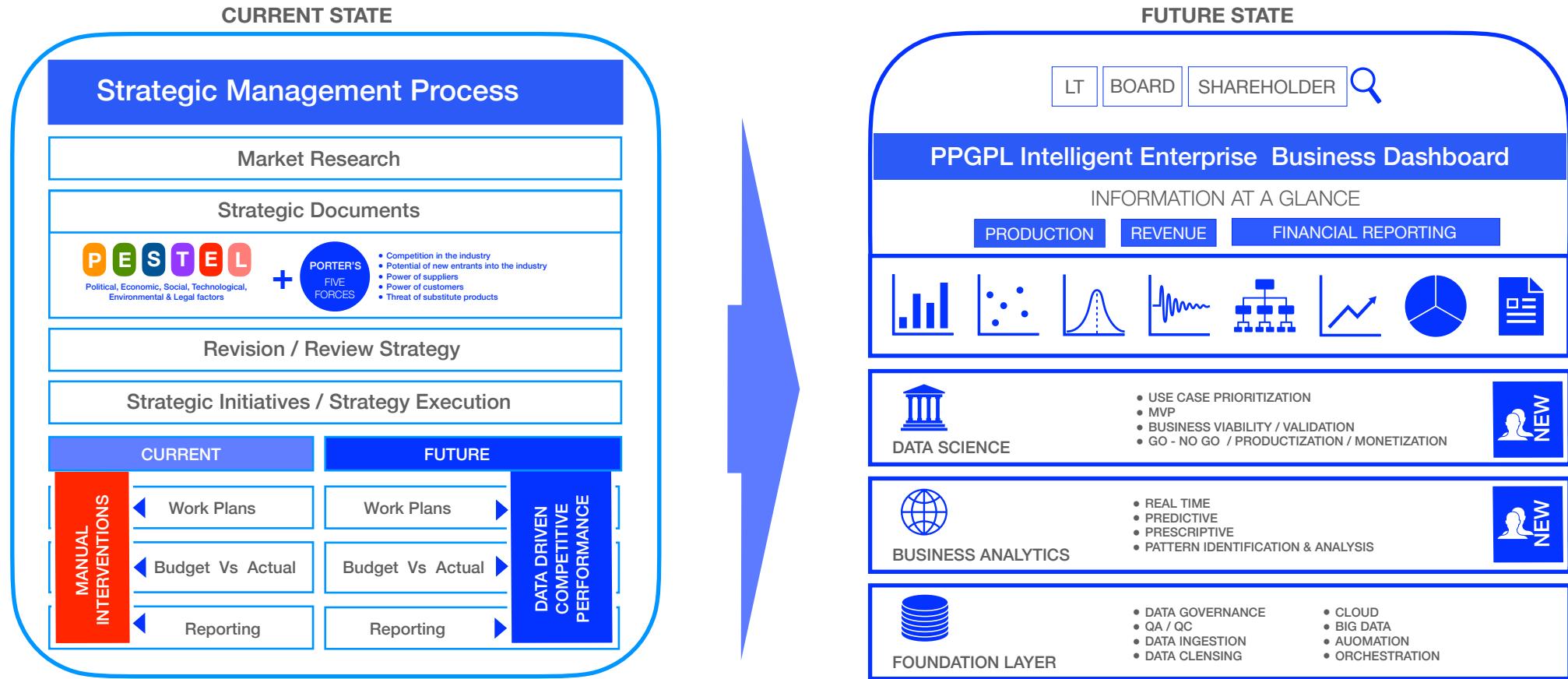


* This phase and all subsequent phases of this Digital Business Transformation Program will be managed leveraging Agile sprints [2 weeks / sprint]. This project plan is a illustration of high-level activities



PPGPL Leadership Vision for the Future-State

FEB / MAR 2024: PHASE 2a - Initial Go-Live Date [Foundation] *



* Digital Foundation with select feature(s) availability

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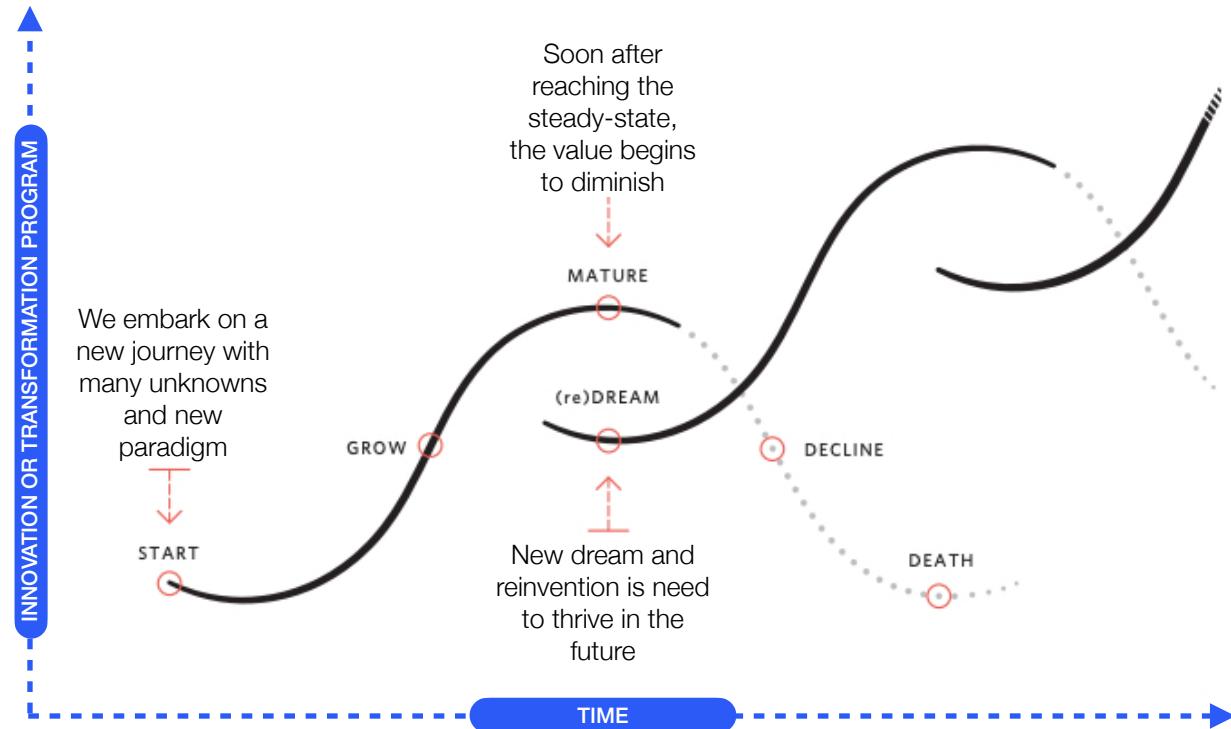
Stages of Transformation Program Journey

Organizations Transform to Thrive and not just to Survive

Transformation is not easy, but it is necessary to maintain the health of an organization.

In business, the most common symbol of transformation is the S-curve. Each curve represents a new venture, tracing the path from its start through its growth and maturation. Once an Innovation or Transformation Program reaches maturity, the business enters a steady state.

Steadiness may feel like a relief, but that's where stagnation sets in. To avoid decline, or even death, a new S-curve venture must be launched.



Source: www.duarte.com/illuminate

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Stages of Transformation Program Journey



Moment of Inspiration:

As a leader and the torch bearer, it is incumbent upon us to inspire the team on the vision, mission, and the end-state objective. Illuminate the path and lead the way.

Now is the time for people to commit to change. You need them to agree to take on new responsibilities and see the venture through to the end.

DREAM

Moment of Decision:

Taking the leap of faith – we are all in, ready for change. There is no turning back... accepting that the hard part is ahead.

These are the leaders and early adopters, fully vested in the future-state.



Moment of Courage:

Stage of unforeseen obstacles, resistance to change and bureaucracies.

This is where most program fails. The team needs leadership's encouragement, transparency, and support to help move obstacles and to keep them focused and motivated.



LEAP

Moment of Endurance:

The journey is bigger and longer than anticipated, so enthusiasm starts to wane. People are losing sight of why they started this journey in the first place and need help strengthening their resolve to finish.



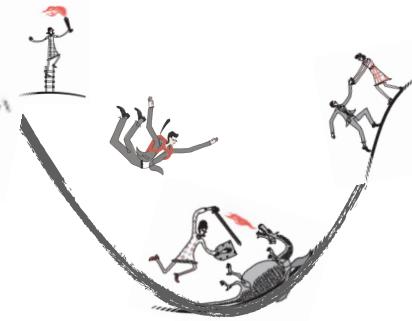
FIGHT



Moment of Continuity:

We cannot get lazy. We cannot stop dreaming. Focus on the next stage of the journey, re-focus on mission, vision and the end-state objective.

Leverage lessons learned. Prepare for next stages and continue the journey.



Moment of Reflection:

You have arrived! You and your travelers (team) met a milestone or crossed the finish line, and it's time to celebrate this accomplishment regardless of size.



CRITICAL STAGE

This is one of the MOST critical stage, this where most program become stagnant.

Give speeches, keep the team motivated and focused toward the journey ahead!



CLIMB

ARRIVE

[RE] DREAM

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Phase 2A Scope & Objective

SOW1 – Objective [WP0, WP1A, WP1B, WP2A, WP3A, WP9A, WP10A]

- Foundational Elements of the Digital Business Transformation Program
 - Validation of existing cloud design and overall environment
 - Design and implementation of Cloud Infrastructure, Data Lake, and MLOps
 - Enhancements to Corporate functions, including strengthening Procure to Pay and Order to Cash processes and real-time analysis
 - Operational improvements to gas quality monitoring and inventory reconciliation
- Intelligent Enterprise Dashboard with limited feature availability
 - Design and implementation of the Intelligent Enterprise Business Dashboard* with limited feature availability.
 - Initial design will focus on capturing various user persona and relevant business requirement that will drive the initial development of the Intelligent Enterprise Dashboard

SOW2 Digital Twin – Objective [WP13, WP14, WP15]

- Edge Software Implementation
 - Data collected from various sources and transmit it to cloud
 - Provision cloud access to view, archive, and extract collected data
 - Detailed documentation of data captured and data collection methodology real-time motor health for early failure prediction
- Data Visualization & Analysis
 - Time series view of individual data points, including Fast Fourier transform (FFT) where applicable
 - Historic data view in tabular or graphical format
 - APIs for seamless connection to external systems health of radial bearings and thrust bearings
- Executable Models hosted on IAPM platform
- Insights & Alerts
 - Statistical insights from data point
 - Alerts and notifications via email and SMS
- Labeled Datasets utilized for model development
- Deployment Documentation outlining deployment process
- Training Sessions offered if necessary

* Additional capabilities / features will be added during the subsequent phases as they become available

Phase 2A Scope & Objective

SOW1 – Scope [WP0, WP1A, WP1B, WP2A, WP3A, WP9A, WP10A]

Deliver foundational elements as part of a comprehensive multi-phase, multi-year Digital Transformation Program to drive PPGPL's evolution into a fully-fledged Digital Business Enterprise:

- **Foundational Infrastructure**
 - Cloud Infrastructure Validation & Readiness
 - Data Lake Configuration & Deployment
 - MLOps Configuration & Deployment
- **Corporate Functions**
 - Procure to Pay – Conversational AI for vendor queries
 - Procure to Pay – Anomaly detection for procurement
 - Procure to Pay – Automate payment processing
 - Order to Cash – Contract pricing trend analysis
 - Order to Cash – OPIS price capture
 - Order to Cash – Loading time analysis
- **Operations**
 - Gas Quality Monitoring – LIMS integration with PHD data
 - Inventory Reconciliation – Systemizing sensor drift monitoring

SOW2 Digital Twin – Scope [WP13, WP14, WP15]

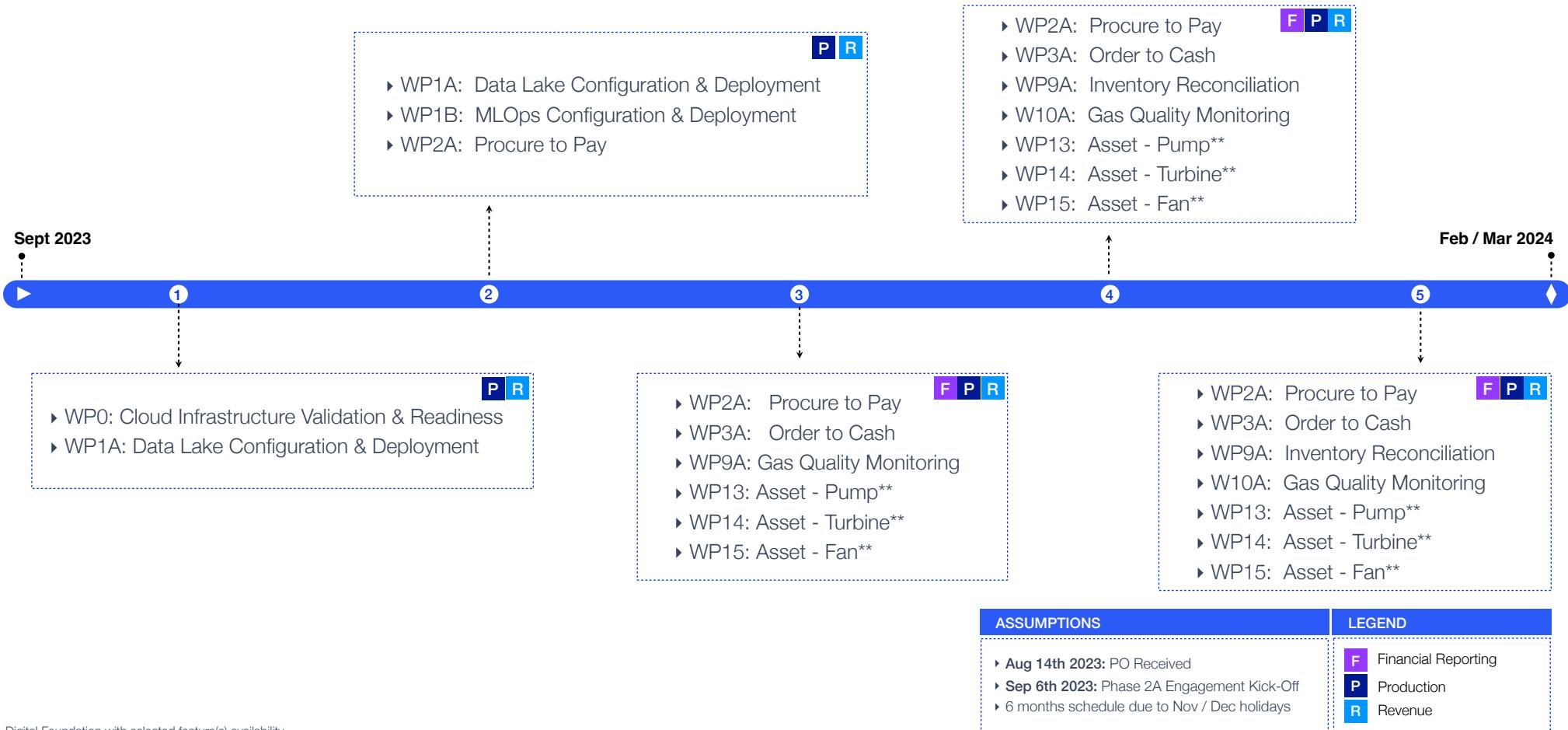
Design and Implementation of three Digital Twin Minimum Viable Products [MVPs], enabling real time and predictive maintenance for Gas Turbines, Cooling Fans, and Pumps. These are part of Bosch's Industrial Asset Performance Management [IAPM] solution. Please note that these 3 asset class use cases were jointly selected by PPGPL & Bosch.

Leverage advanced data analytics and machine learning algorithms to proactively identify potential issues and optimize asset performance:

- **Pump**
 - Monitor real-time motor health for early failure prediction
 - Predict impeller cavitation erosion
 - Detect early potential damages caused by water hammer effect
- **Gas Turbine**
 - Monitor health of radial bearings and thrust bearings
- **Cooling Tower Fan**
 - Display time series sensory data with flexibility to opt-in required channels
 - Identify and showcase faults via decision support system

PPGPL Phase 2A

[high-level scope & estimated timeline]



* Digital Foundation with selected feature(s) availability

** Milestone-based deliverables

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Agile – ‘new ways of working’



Epics

Requirements at the highest level that provide business context and direction

Use cases elicited in Phase 1 serve as epics

Considers:

- ▶ Sponsor Vision
- ▶ Scope of the project
- ▶ Business Goals (KPIs)



Features

Complex Epics that cater to multiple user groups / roles will be broken down into features that deliver value to the end users

(A feature is a set of user stories delivered across multiple sprints)

Considers:

- ▶ User needs
- ▶ User goals
- ▶ Work inputs and outputs



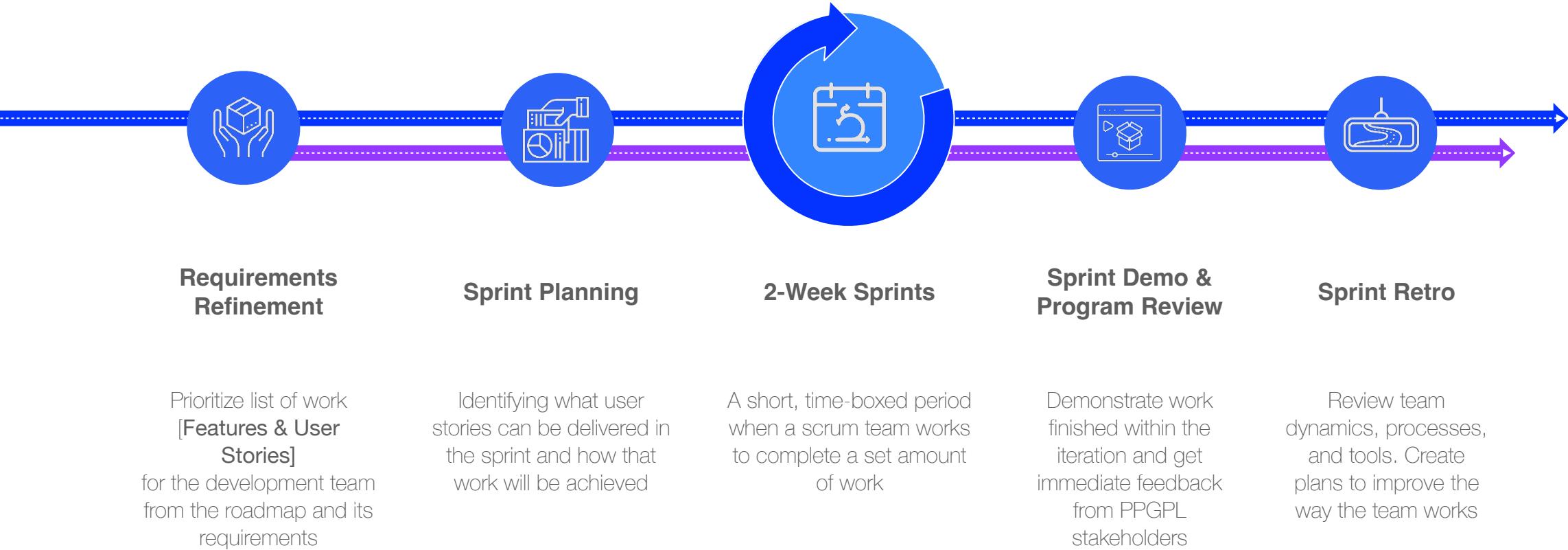
User Stories

System requirements that enable a user to achieve a goal or task at the most detailed level. They are usually framed as requests from the end users

Considers:

- ▶ System goals
- ▶ Functional and non-functional requirements

Agile – ‘new ways of working’



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Program Governance

Transformation Program Office [TPO]



PPGPL

- Dominic Rampersad – President
- Reshma Bharat – VP Finance, Technology & Risk

Bosch

- John Sinclair – Transformation Program Executive
- Pulton Leung – Transformation Program Partner

PPGPL Decision Board



Reshma Bharat
VP Finance, Technology & Risk

Matik Nicholls
VP Innovation & Corporate Agility

Colin Ramesar
VP Operations

Zareen Mohammed
Manager Corporate Partnership

Program Management:

Sunil Nair * [BOSCH]; Dion White, Aneisha Persad, Technical Administrator – PMO [PPGPL]

Corporate Functions



Jasso Kantapersad
PPGPL Key Business Contact
Fiaz Dipchan
PPGPL PM & Tech Contact

- Sriram Sampath – Principal Consultant
- Prasad Bankar – Scrum Master
- Rajesh Kumar Vinukonda – Data Architect

Operations



Nigel Mahabir
PPGPL Business Contact
Rajendra Narine
PPGPL PM & Tech Contact

- Baskaran G – Principal Consultant
- Shreehari Subbanna – Scrum Master
- Rajesh Kumar Vinukonda – Data Architect

Digital Twin



Nigel Mahabir
PPGPL Business Contact
Rajendra Narine
PPGPL PM & Tech Contact

- Sushovan Chakraborty – Principal Consultant
- Ashok Mallya – Agile Project Manager
- Deepthi Narayan – Scrum Master
- Dhanpal Chandran – Azure Architect

Foundational Infrastructure, Engineering, UX and UI



- Jason Winnebeck – Principal Engineering Lead
- Shrinivas Kulkarni – Azure Infrastructure Architect
- K B Srinivasa – Azure Infrastructure Engineer

- Kamya Subramanian Sarma – UX Strategist
- Shyam Krishnan Thottingal – UX Principal Consultant

* To be onboarded; John Sinclair & Pulton Leung will provide Program Management coverage in the interim

Program Communications

[1/2]

No.	Communication Type	Participants	Frequency	Topics Covered
1	Program Status Reporting	<p>PPGPL</p> <ul style="list-style-type: none"> ▶ Track SPoCs ▶ Program Managers ▶ Project Managers <p>Bosch</p> <ul style="list-style-type: none"> ▶ Program Manager ▶ Transformation Program Partner ▶ UX Strategist ▶ Scrum Masters ▶ Principal Engineering Lead ▶ Principal Consultants [Functional] 	<p>Bi-weekly [Output: PDF Format]</p> <p>In-Person or Virtual</p>	<ul style="list-style-type: none"> ▶ Sprint Accomplishment Status ▶ Risks (if any) ▶ Next Sprint Objective
2	Transformation Program Office [TPO]	<p>PPGPL</p> <ul style="list-style-type: none"> ▶ President ▶ VP Finance, Technology & Risk <p>Bosch</p> <ul style="list-style-type: none"> ▶ Transformation Program Executive ▶ Transformation Program Partner 	<p>Monthly [Output: PDF Format]</p> <p>In-Person Preferred</p>	<ul style="list-style-type: none"> ▶ Change (scope, resource, tools, etc.) ▶ Approvals ▶ Risk (if any) ▶ Overall Status of the Program

Program Communications

[2/2]

No.	Communication Type	Participants	Frequency	Topics Covered
3	Quarterly Business Review [QBR]	PPGPL <ul style="list-style-type: none"> ▶ President ▶ VP Finance, Technology & Risk Bosch <ul style="list-style-type: none"> ▶ Transformation Program Executive ▶ Delivery Head ▶ Client Partner 	Quarterly [PDF Format] In-Person or Virtual	<ul style="list-style-type: none"> ▶ Business Update ▶ Escalations (if any) ▶ Anything else...

Escalation Matrix

Unresolved escalation to move up the chain after 2 business days



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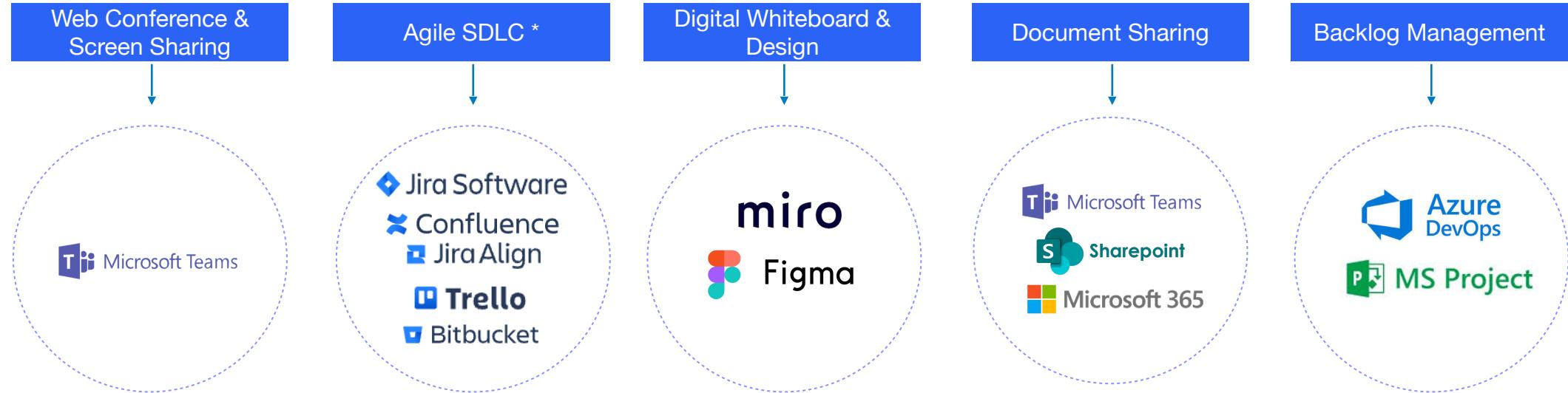
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Key Tools



* Subject to license procurement by PPGPL

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Tools – Bosch & PPGPL

Tool	Purpose	PPGPL	Bosch
 Azure Active Directory	SSO for almost all tools		✓
 Azure Subscriptions	Infrastructure resources (shared); 2-4 subscription needed		✓
 Microsoft Teams	Collaboration, real-time communications		✓
 Sharepoint	Document storage (including document deliverables)		✓
 Azure DevOps	Issue tracking, project tracking / dashboards, project documentation (wiki), code repositories (git) / code reviews (PRs), CI & delivery pipelines	✓(1)	
 MS Project	Project planning		✓
 Power BI	Data visualization reporting and dashboards		✓
 Microsoft 365	Word, Excel, PowerPoint		✓
 Figma	UX design and prototyping		✓(2)
 miro	Digital whiteboard		✓
 Honeywell	If any licenses needed to access data, PPGPL will provide		✓
 ORACLE E-BUSINESS SUITE	If any licenses/account users needed for E-Business Suite		✓

(1) Azure DevOps will be billed \$6/user/month to an Azure subscription of PPGPL's choice, plus storage and pipeline minutes if free limits are exceeded. any resources besides Azure DevOps that are provisioned through the Azure subscription may be used in the project

(2) PPGPL will be able to view and review Figma work files but not edit unless professional licenses are procured

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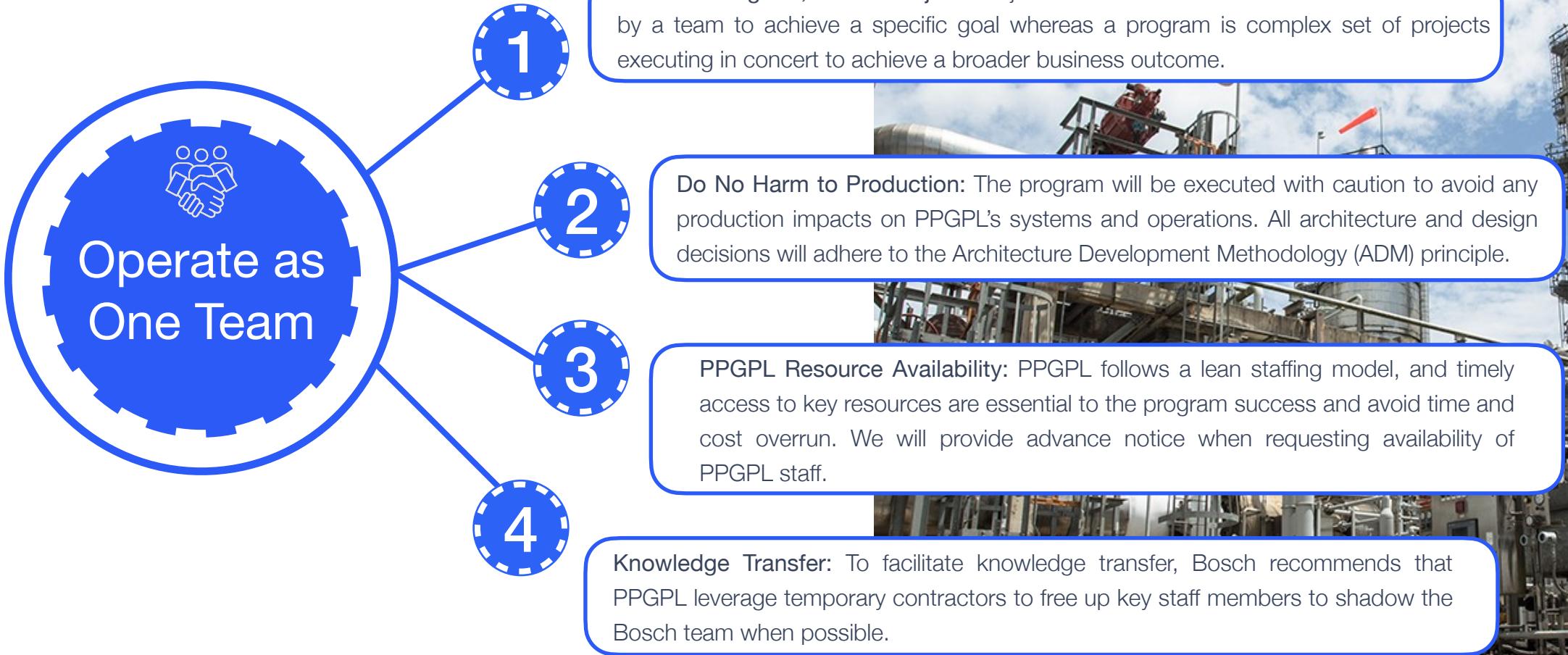
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Guiding Principles



Dependencies

- 1 Azure Active Directory (AD) Accounts and Governance Policies
- 2 Azure Subscriptions and Organizational Agreement
- 3 Collaboration Tools and Licenses
 - [Teams, SharePoint, Power BI, OPIS, etc.]
- 4 Networking Architecture and Firewall Management
- 5 Access to Critical Data Systems
 - [LIMS, PHD, SQL Server, Oracle EBS, etc.]
- 6 Edge Server Virtual Machine
- 7 Electronic Data Interchange (EDI) Integration for Banking
- 8 Excel Macros, CAD Models, and Data Dictionaries
- 9 PPGPL Branding and Style Guidelines
- 10 PPGPL Resource Availability

Q&A



THANK YOU

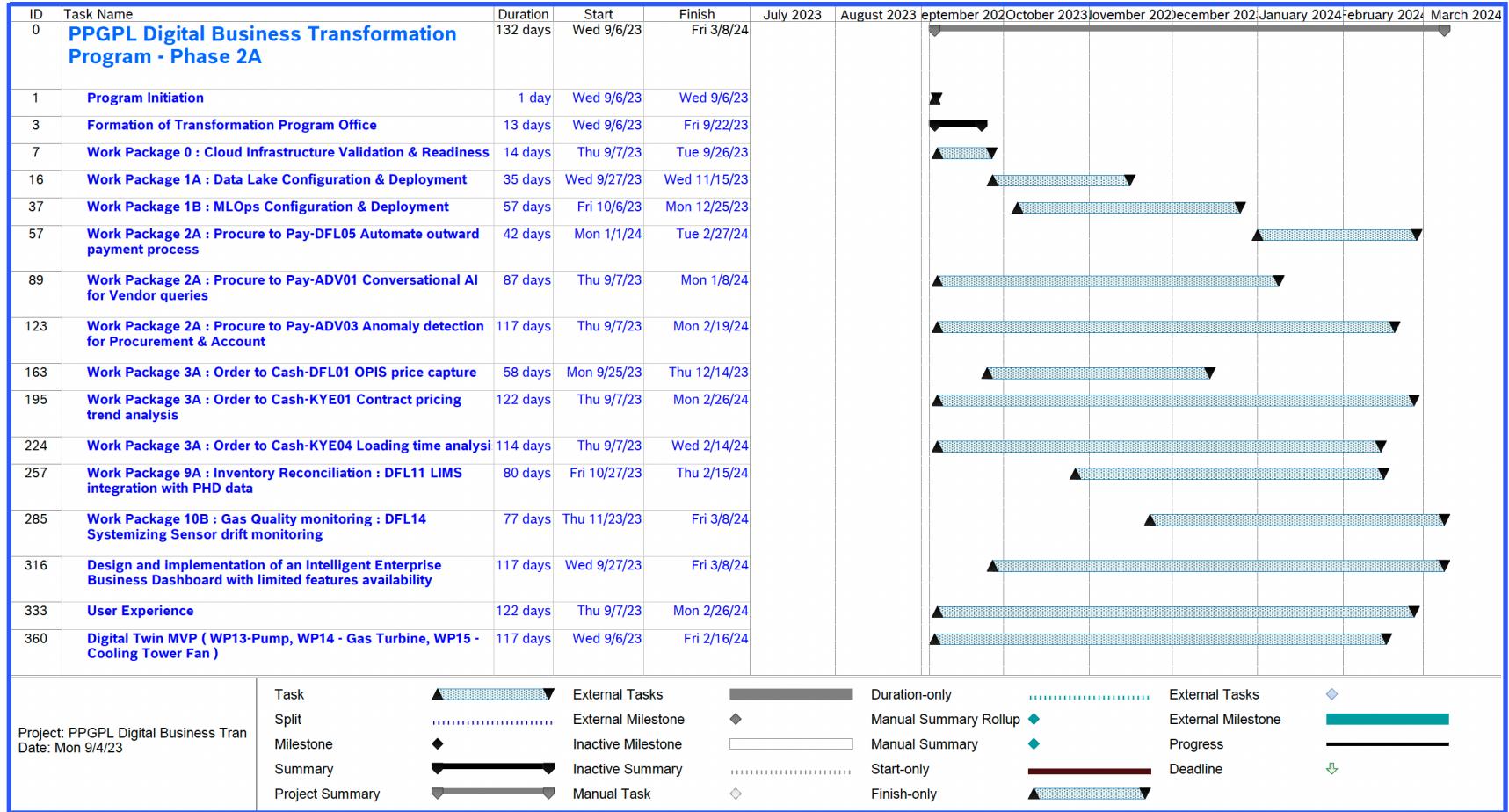


APPENDIX

PROGRAM PLAN



Program Plan* – Phase 2A



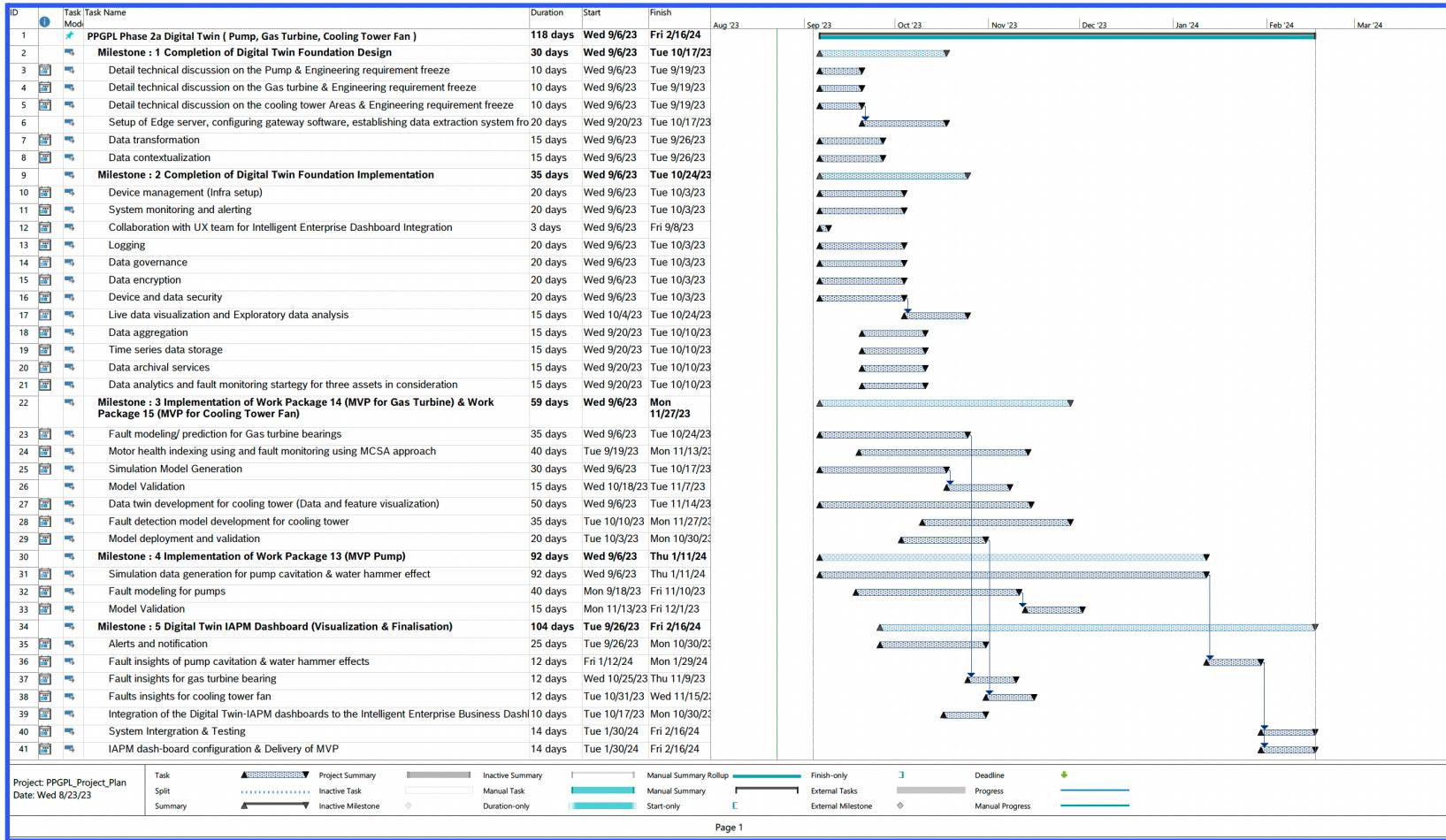
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Program Plan* – Phase 2A Digital Twin



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