



PRPC Data Enablement Track 2

Presentation to PMC No #
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Prepared By	Reviewed By
	
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PROGRAMME MANAGEMENT COMMITTEE : PROJECT REGISTRATION SUMMARY

PRPC Data Enablement Track 2

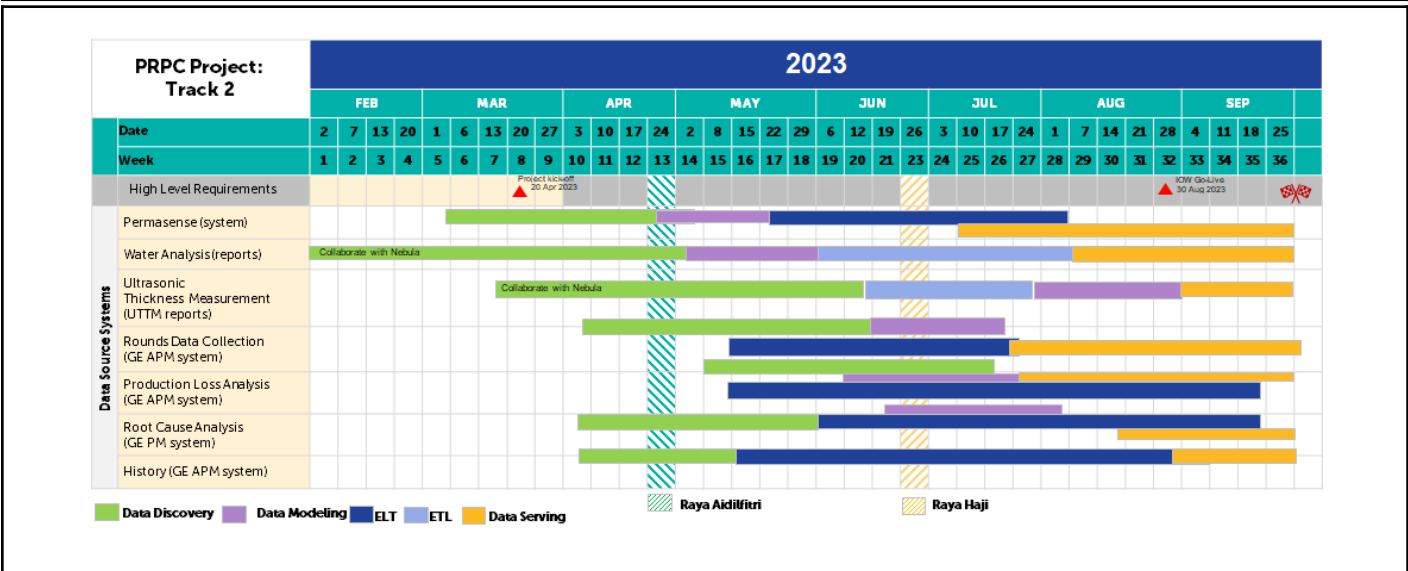
PROGRAMME DETAILS	
Business Owner	PRPC
Category	DIGITAL
Priority Indicator (For EDH)	High
Domain / Dept.	DATA DELIVERY
Program	PRPC Data Enablement
Project Lead	Asni Mazura Ali

PROJECT DESCRIPTION	
<div><div></div><div>Integrity Operating Window (IOW) is an established limits for process variables (parameters) that can affect the integrity of the equipment if the process operation deviates from the established limits for a predetermined length of time (includes critical, standard and informational IOW's).</div><div></div><div>Therefore, operation of a unit within a defined IOW threshold is necessary to be established, maintained and controlled in order to prevent any significant process upsets and unplanned shutdowns due to fixed equipment failure or corrosion</div></div>	

PROJECT OBJECTIVE	
<div><div></div><div>Source of inputs for IOW team are scattered and not unified under a single system and platform. Thus, the objective of this project is to create a consolidated IOW data and reporting inputs into a business data warehouse in Enterprise Data Hub (EDH)</div><div></div><div>To liberate data from GE APM (Asset Performance Management) for enterprise consumption.</div></div>	

OUTPUT / PRODUCT / DELIVERABLES	
<div><div></div><div>1. Complete Data Onboarding (Data Dictionary, Business Rules, Data Model, Data Quality)</div><div></div><div>2. Complete data ingestion up to EDH Synapse (Business Tenant) and Data+</div><div></div><div>3. Complete data serving as per user requirement in IOW and RDA apps.</div></div>	

PROJECT SCHEDULE	
Start : 20/3/2023	End : 30/09/2023

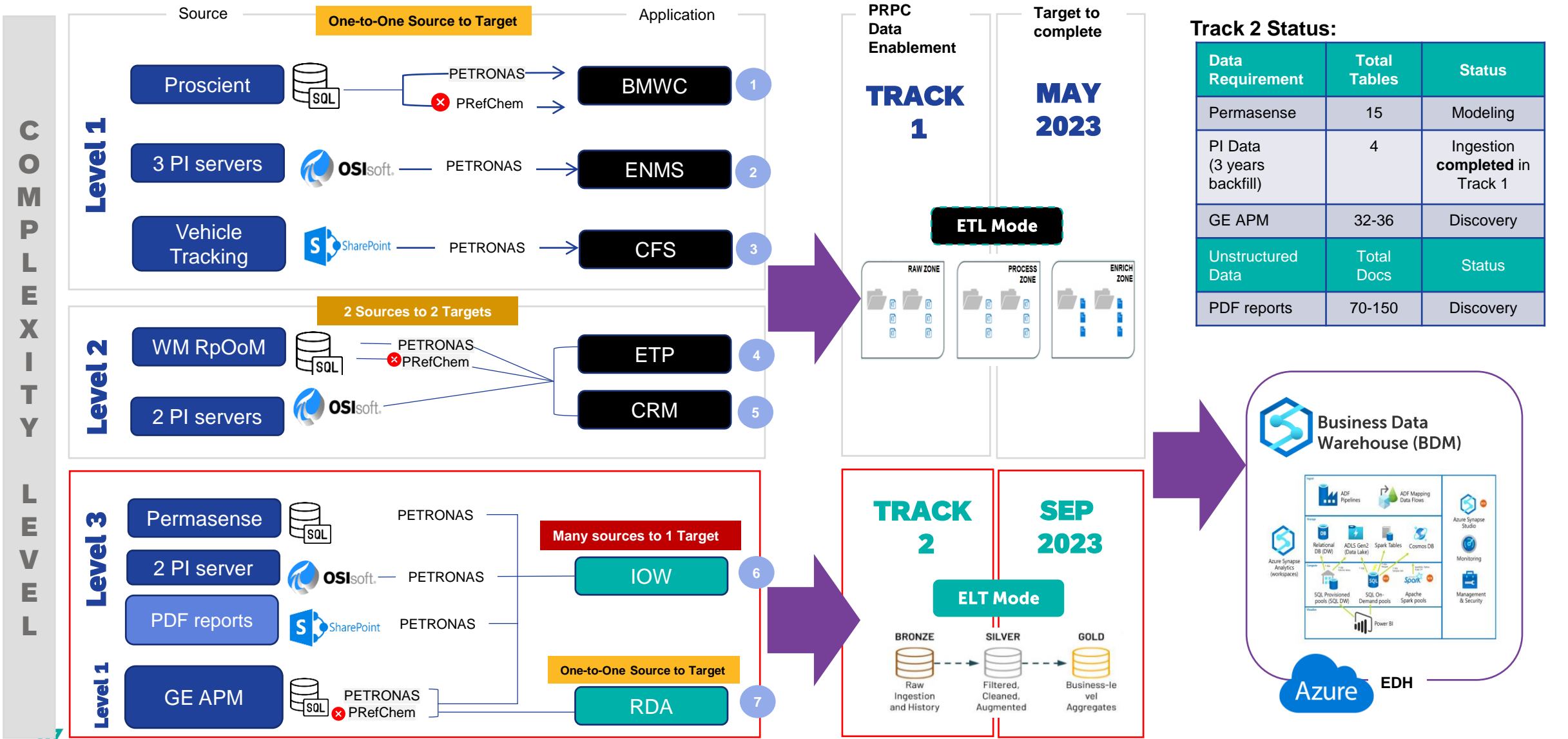


ED INVESTMENT COST (RM '000)					
ITEM	Q1	Q2	Q3	Q4	TOTAL
Software purchase					NA
Services					NA
Others					NA
Grand Total					

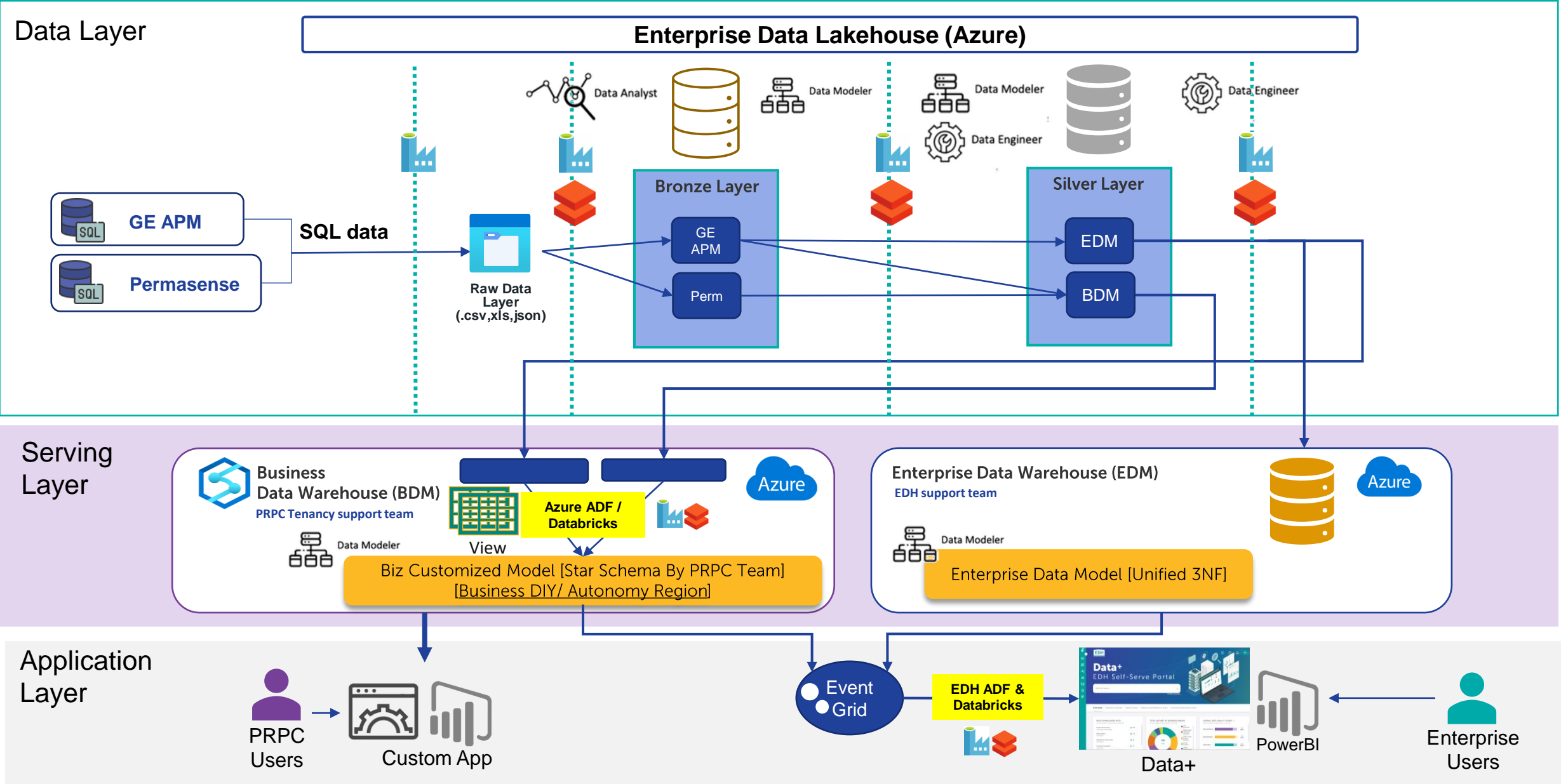
PROJECT VALUE CREATION	
ITEM	TOTAL
Automate data extraction from PDF documents	TBC

TOP 3 AREAS/ KEY HIGHLIGHTS	
<div><div></div><div>1) Data complexity is high because data points are from both structured and unstructured data:<ul style="list-style-type: none">Structured data (3): PI data, Permasense, GE APMUnstructured data (2): Water Analysis report, Ultrasonic Thickness Measurement report</div><div></div><div>2) Asset Performance Management (GE APM) have 8 active modules. Only 4 modules are in current Track 2 scope. The rest of modules will be part of Track 3 scope (future).</div></div>	
Internal	

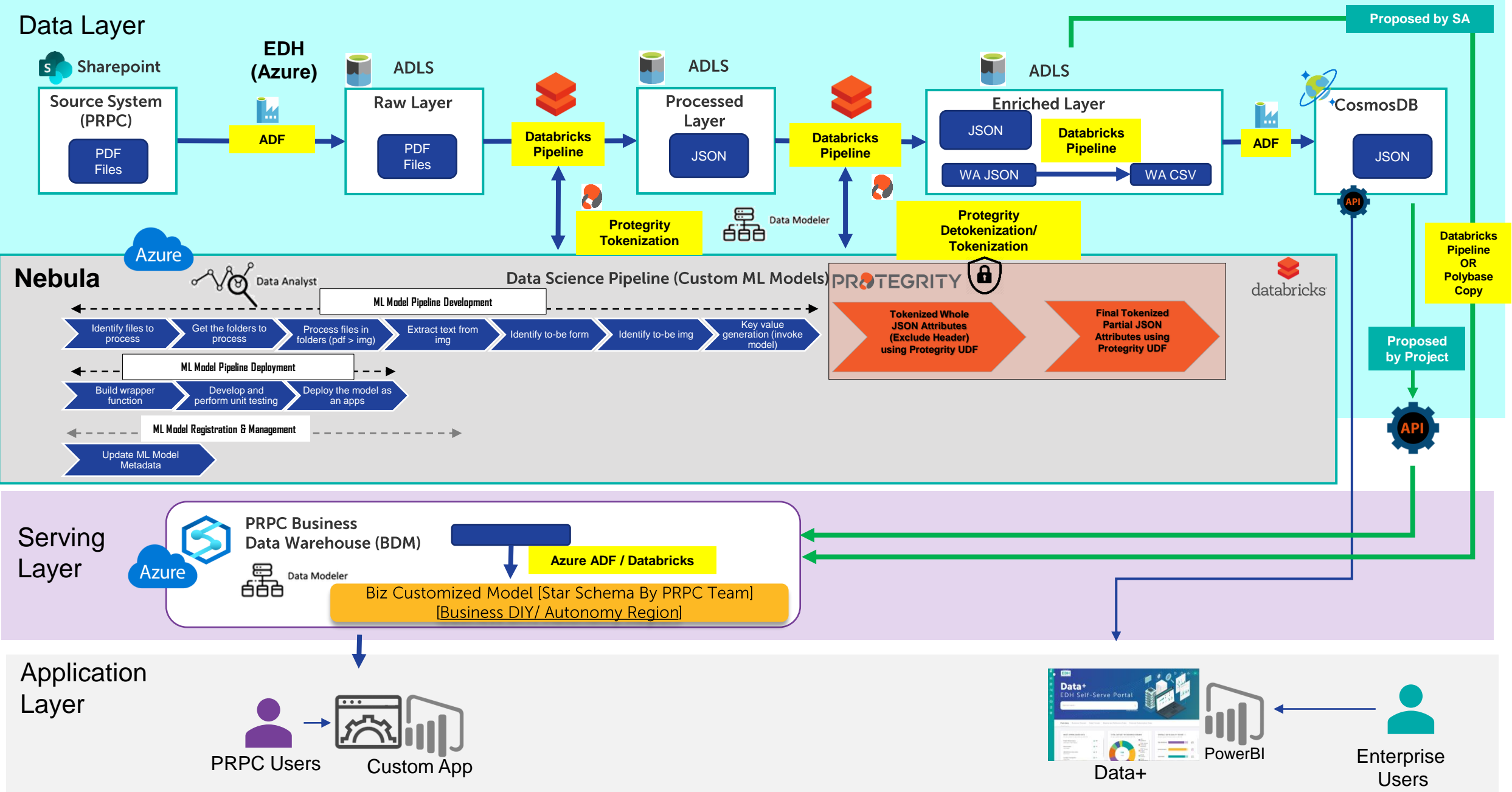
Track 2 Project is about enabling Complexity Level 3 data for IOW coupled with new scope for Reliability Dashboard Automation (RDA)



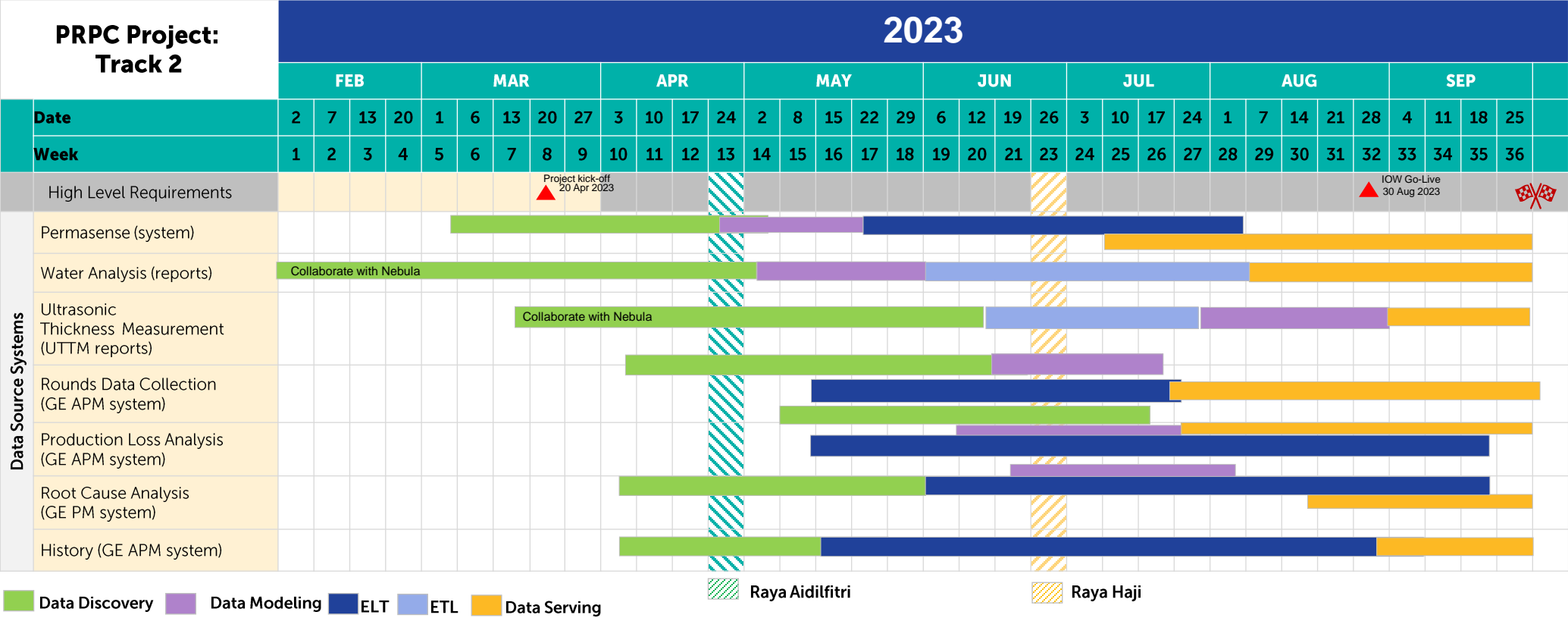
Data Requirements from PRPC Data Enablement Track 2 will leverage on Platinum Technology & Architecture for Structured Data; Unstructured Data still leverage on Nebula



Unstructured Data will explore best method to flow into PRPC Business Tenant (2 Options)

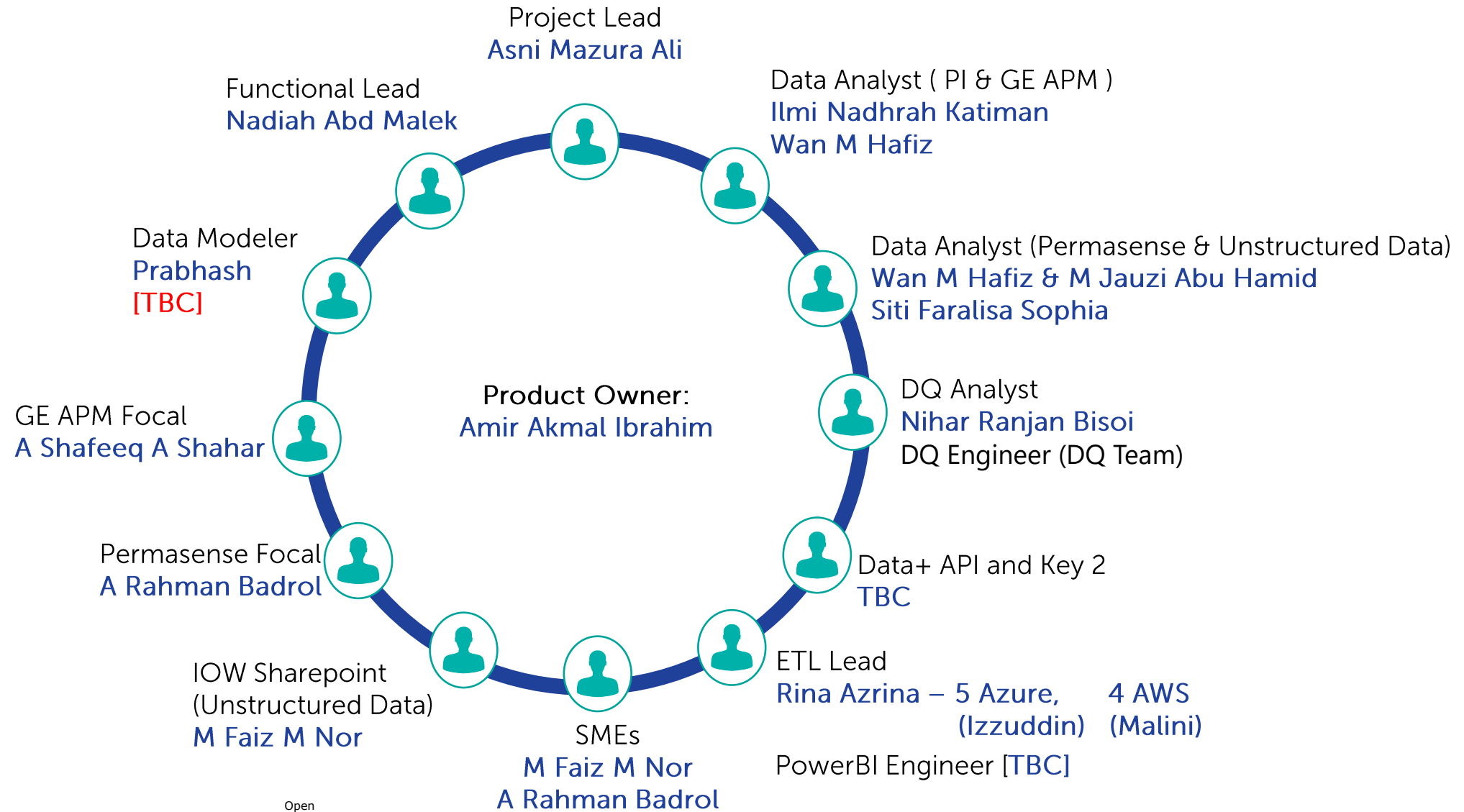


PRPC Data Enablement Track 2 Project Timeline



Potential Risks and Issues	Impact	Mitigation Plan
1) Require data architecture review to ensure convergence of Structured and Unstructured data flow to Business Tenant.	Low	To test and confirm that the prior assessment on the method of direct conversion or require new API between CosmoDB and Business Tenant is workable.
2) Unable to apply all 6 Data Quality Measurement (standard) for unstructured data as per DQ program . The model confidence level is not stated as one of the DQ measurement; DQ at source is important for IOW application.	Med	Work with DQ team and Nebula to allow users to find DQ score for their data sets through Data+. Only 2 DQ measurement are applicable for both Structured and Unstructured (Validity and Completeness). The rest are based on specific requirements from the use case.

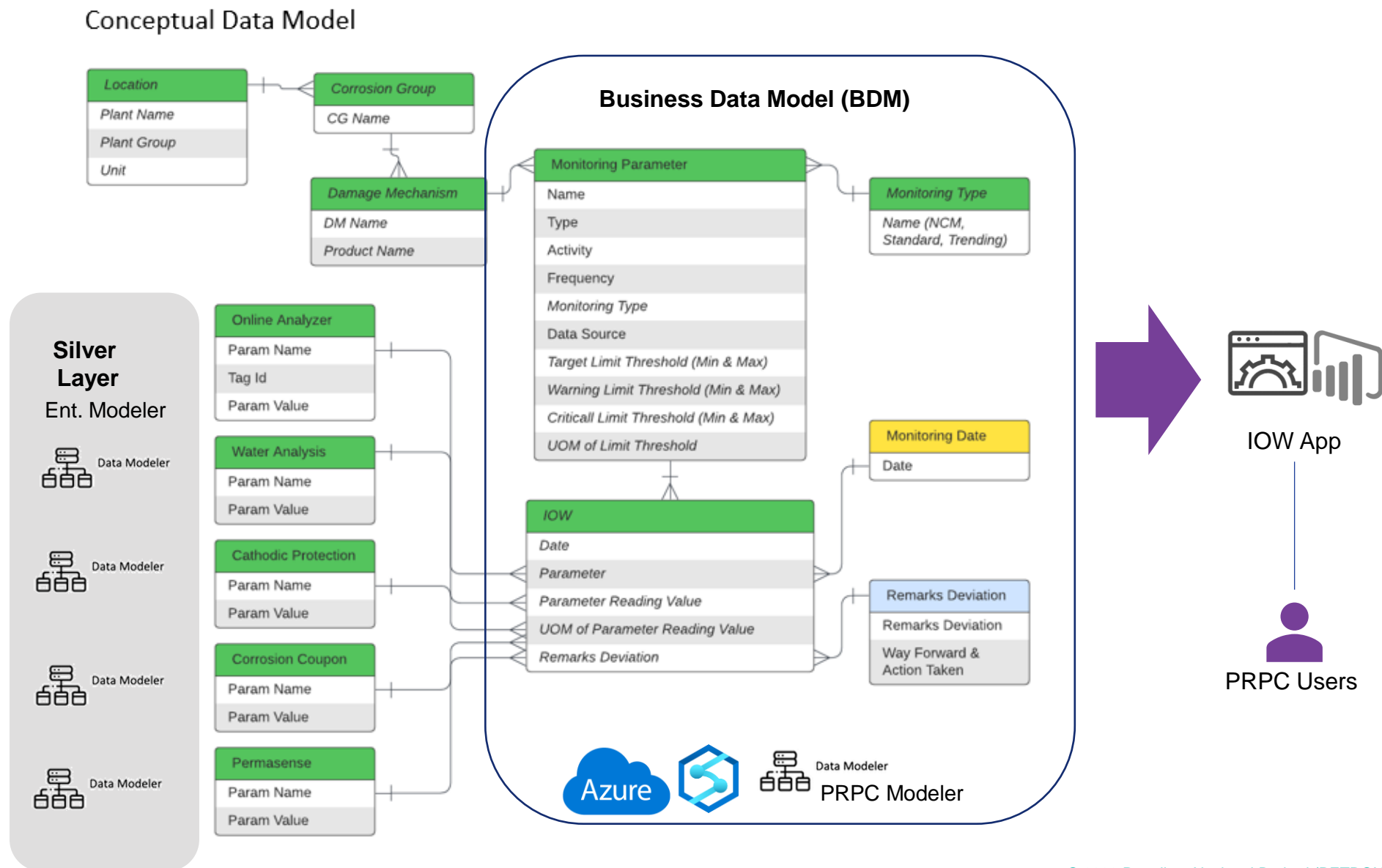
Project Team Structure



Thank you for your passion!



IOW require multiple data points from various systems



RDA only require data points from GE APM system

