

KOANGA

INEIGHT PLATFORM

Managed Analytics Reporting - InEight Accelerator (MARIA)



POWERED BY:



Koanga works on major capital programs to deliver trusted project management systems and data strategies.

Koanga's hybrid of functional and technical expertise delivers fit for purpose project management technology solutions, providing key decision makers contextual, concise and timely project data and information.

Managed Analytics Reporting - InEight Accelerator (MARIA)

FINANCIAL
BENEFITS

Improved accuracy and accessibility of data across your portfolio, programs and projects

Empower data driven decision-making for pro-active risk mitigation

Substantially reduce the administrative burden of manual reporting processes

TECHNICAL
BENEFITS

Scalable, secure, robust, and low-code solution architecture

Sole source of truth for reporting that ensures data integrity

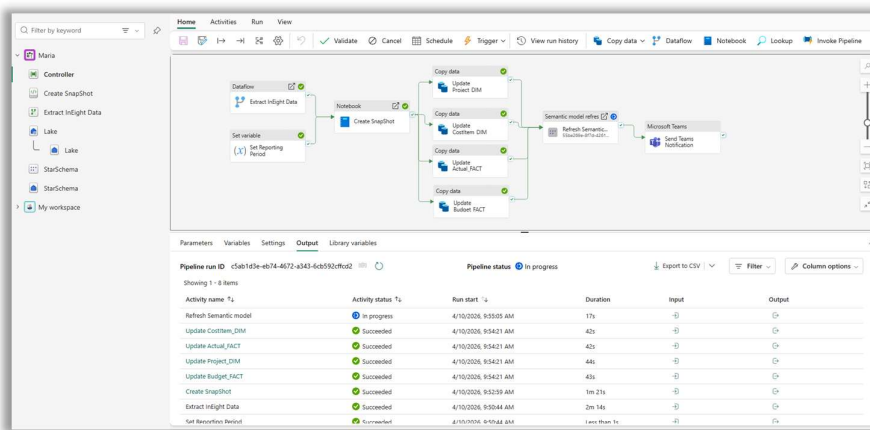
Ability to enrich reporting with inputs from other corporate systems

END USER
BENEFITS

Integrated solution that provides insight into current & historical performance trends

Self-service data model that allows users to generate their own dashboards in Power BI

Improved efficiencies creating time to focus on the 'real job' of project delivery



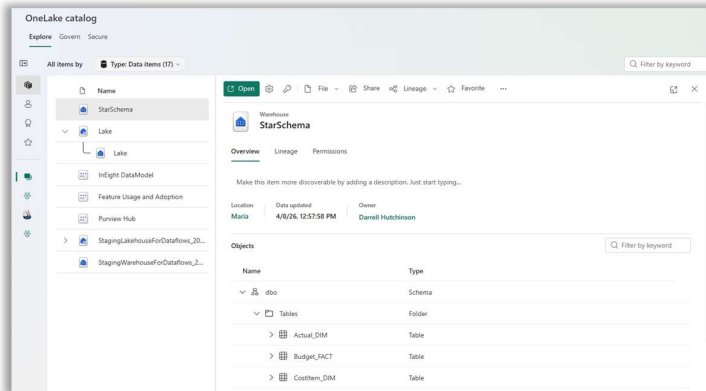
Integrated, SaaS Architecture.

The Managed Analytics Reporting – InEight Accelerator (MARIA) platform is delivered as a fully SaaS-based analytics environment integrated with Microsoft Power BI. Because MARIA operates entirely within Microsoft Fabric's managed cloud, there are no requirements for client side network configuration, gateway deployment, or infrastructure provisioning. All compute, storage, and orchestration services are automatically scaled and secured, enabling organisations to adopt enterprise-grade analytics capabilities with minimal operational overhead

Automated Ingestion and Lakehouse Dataflows.

Within MARIA, data ingestion is orchestrated through Power BI Dataflows that extract information directly from InEight APIs and land it into the Fabric Lakehouse as structured Delta tables. This ingestion pattern provides a repeatable, metadata driven approach that supports both high-volume operational data and incremental refresh cycles. By consolidating raw data in the Lakehouse, MARIA establishes a single, reusable source of truth for reporting, analytics, and downstream data products.

Cost Item ID	Project ID	Account code ID	WBS phase	WBS description	Currency	CBS position
1	2	null		Pipe Supports	USD	1
2	2	9 1000		Excavation	USD	1.1
3	2	10 2000		Backfill	USD	1.2
4	2	11 3000		Spoils	USD	1.3
5	2	12 4000		Anchor Bolts Rods	USD	1.4
6	2	13 5000		Formwork- Sonotube 18" DIA	USD	1.5
7	2	14 6000		Rebar-Subcontract	USD	1.6
8	3	null		Electrical U/G	USD	1
9	3	26000001		U/G Conduit 4" - 5"	USD	1.1
10	3	26000002		Pipe Foundation, 2.5' X 9'	USD	1.2
11	3	26000003		Pilebore, #5 & 7, 1 1/2 Duct	USD	1.3
12	3	26000004		Grounding rods	USD	1.4
13	3	26000005		Electrical AVG	USD	2
14	3	26000006		MV Cable - 3/0 & 4/0	USD	2.1
15	3	26000007		MV Cable - #1	USD	2.2
16	3	26000008		600V Conductors	USD	2.3
17	3	26000009		Terminations	USD	2.4
18	4	5001		Concrete	USD	1
19	5	999		Structural Steel Platform	USD	1
20	5	1000		Grating	USD	1.1
21	6	null		Steel Deck	USD	1.2

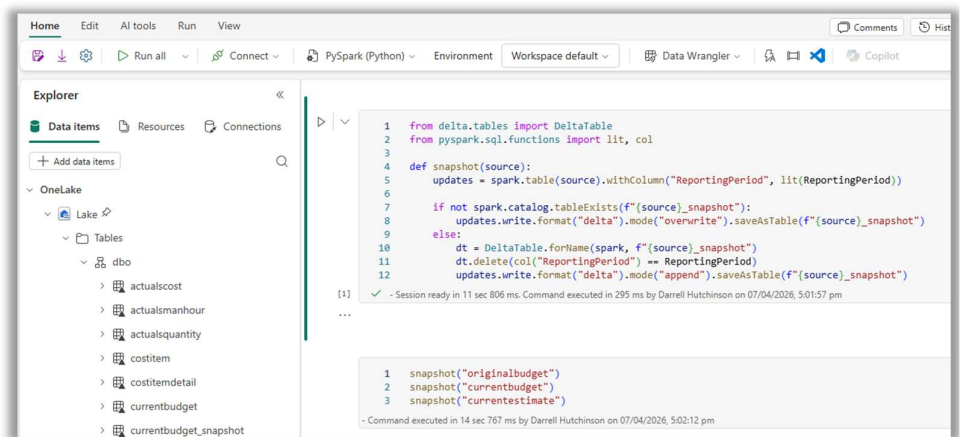


Warehouse Transformation.

MARIA transforms ingested data into a curated star-schema warehouse using Fabric Warehouse capabilities, ensuring conformed dimensions, optimised fact tables, and consistent business logic across the analytics ecosystem. Power BI connects directly to MARIA's warehouse, enabling real-time access to the transformed data. This architecture reduces data duplication, improves semantic consistency, and ensures that Power BI dashboards always reflect the most current operational state.

Snapshot Generation with Notebooks.

To support historical analysis, auditability, and point-in-time reporting, MARIA leverages Fabric Notebooks (PySpark) to generate curated snapshot datasets. These notebooks produce snapshot tables that feed long-term trend analysis, contractual reporting, and performance benchmarking. This capability ensures that organisations maintain a robust historical record while benefiting from the agility and automation of a modern cloud-native analytics platform.



Flexible Pipelines, Event-Driven Updates, and Extensibility.

Fabric Data Pipelines within MARIA orchestrate end-to-end data movement and transformation, supporting both scheduled refresh cycles and user-initiated events triggered through embedded Power Apps inside Power BI. While MARIA is purpose-built for InEight data structures, its architecture is intentionally extensible, allowing integration with additional systems such as Primavera P6, client ERP platforms, or other data sources. Pipelines can also issue Microsoft Teams notifications when KPIs breach defined thresholds, enabling proactive operational response and improved decision-making.

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Contract Management Dashboards.

This example Contract Power BI Dashboard illustrates how the snapshot data can be transformed into actionable insights, presenting key reporting indicators such as contract value, variations, commitments, and forecasts in a clear and interactive format.

By leveraging the period-based snapshots, the dashboard highlights changing trends across reporting cycles, enabling users to track shifts in project performance, identify emerging risks, and compare outcomes over time. This visual approach provides stakeholders with a consolidated view of contract health, supporting informed decision making and proactive management.



Cost Control Dashboards.

Another example is a Cost Power BI Dashboard, which highlights key Project Cost Control KPIs such as budget, actuals, commitments, and forecasts.

Users can drill down into these indicators to investigate the root causes of reporting exception alerts, tracing variances back to specific projects, activities, or transactions. This level of detail not only provides transparency into cost performance but also empowers stakeholders to quickly identify anomalies, understand their drivers, and take corrective action to maintain financial control.

