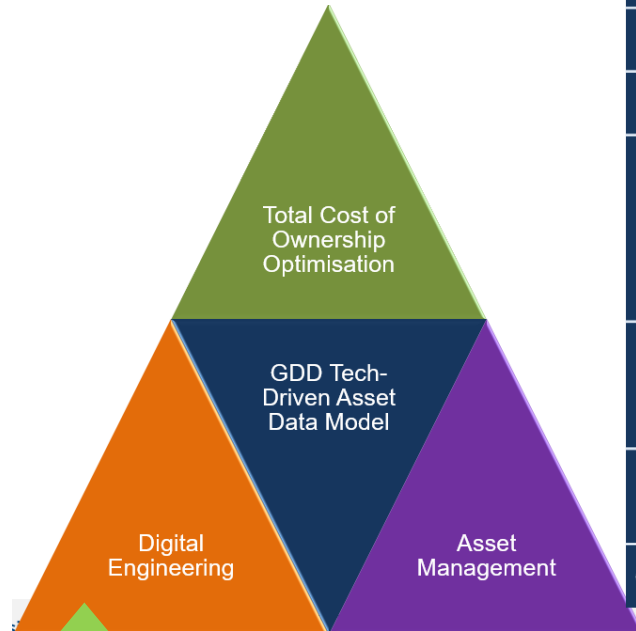


Language...what do we mean

Aspect	GDD Technology-Driven Asset Data Model	Digital Engineering Data Model	Asset Management Data Model
Primary Driver	TCO optimisation, controlled ML, Agentic AI,	Engineering design & delivery accuracy; TMPs, MOR, COMs	Lifecycle performance, cost and risk optimisation
Data Focus	Operational, cost, performance, predictive metrics	Geometric, spatial, specification data	Condition, criticality, lifecycle cost, compliance
Lifecycle Role	Real-time, dynamic optimisation across whole of asset lifecycles	Accurate delivery & as-built handover	Long-term stewardship of asset value
Interoperability	Data backbone plus API-enabled for connectivity streaming data for advanced analytics platforms, asset and maintenance systems.	Standards-compliant for engineering tools	Interfaces with CMMS, ERP, EAM and regulatory systems
Adaptability	Designed to dynamically undertake background computations for generating insights and foresights at unit, system and system-of-systems levels	Static until design/construction or commissioning, defect or O&M updates	Periodically updated through inspections, audits, and reporting cycles
Decision Support	Enables LLM and predictive & prescriptive analytics to deliver capex-opex trade-off insights	Ensures physical and design accuracy; baselines	Provides strategic insights for capital allocation & maintenance planning
Governance Lens	Closed loop data traceability from-to raw source	Technical modelling standards & design compliance	Accountability, audit trails, alignment with ISO 55000 and governance frameworks



Agentic AI at its core:

- **AI core** – interprets data, predicts outcomes and determines best actions.
- **Data fabric** – integrates structured and unstructured data from legacy and new sources.
- **API services** – ensure interoperability with existing ICT investments, avoiding rip-and-replace disruption.

- **Digital Engineering models** create the **technical truth** of the asset (design and build).
- **Technology-driven models** create the **digital nervous system** for optimisation (AI and analytics).
- **Asset Management models** provide the **governance framework** to ensure data serves long-term value, compliance, and cost certainty.

