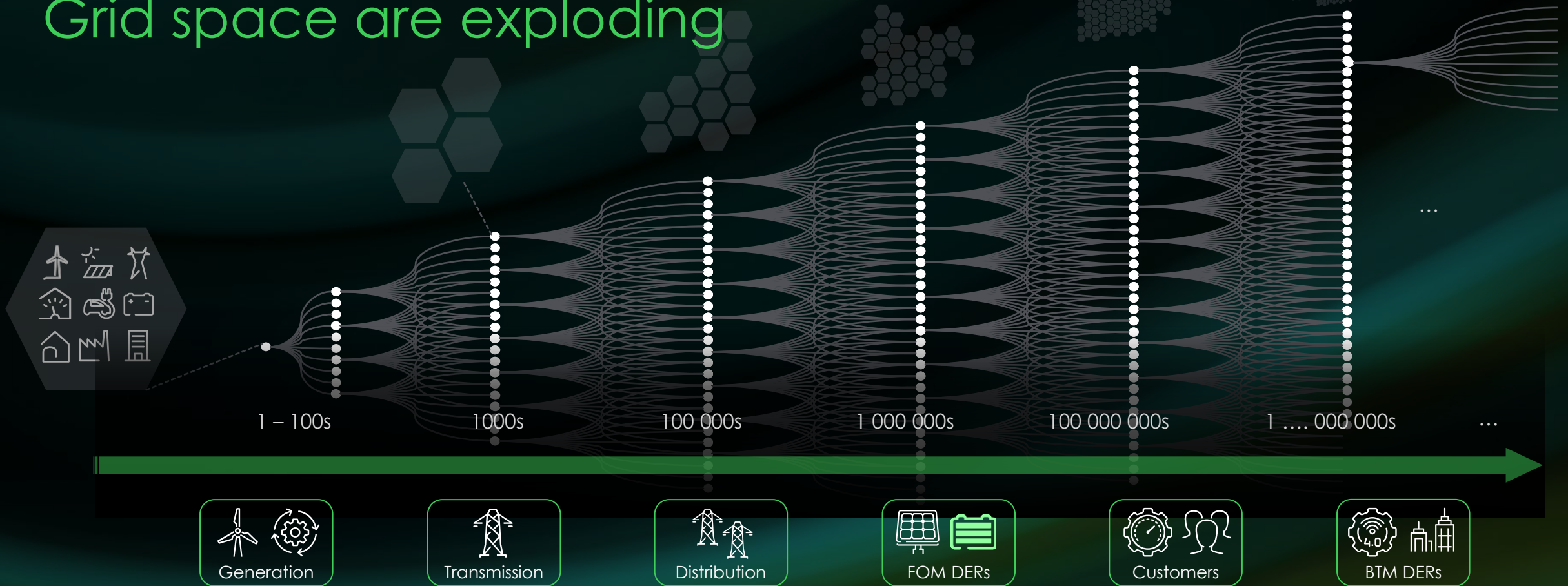


Grid Data Hub Overview

Unlocking the value from data

Data volume, velocity, and complexity of relationships in Grid space are exploding

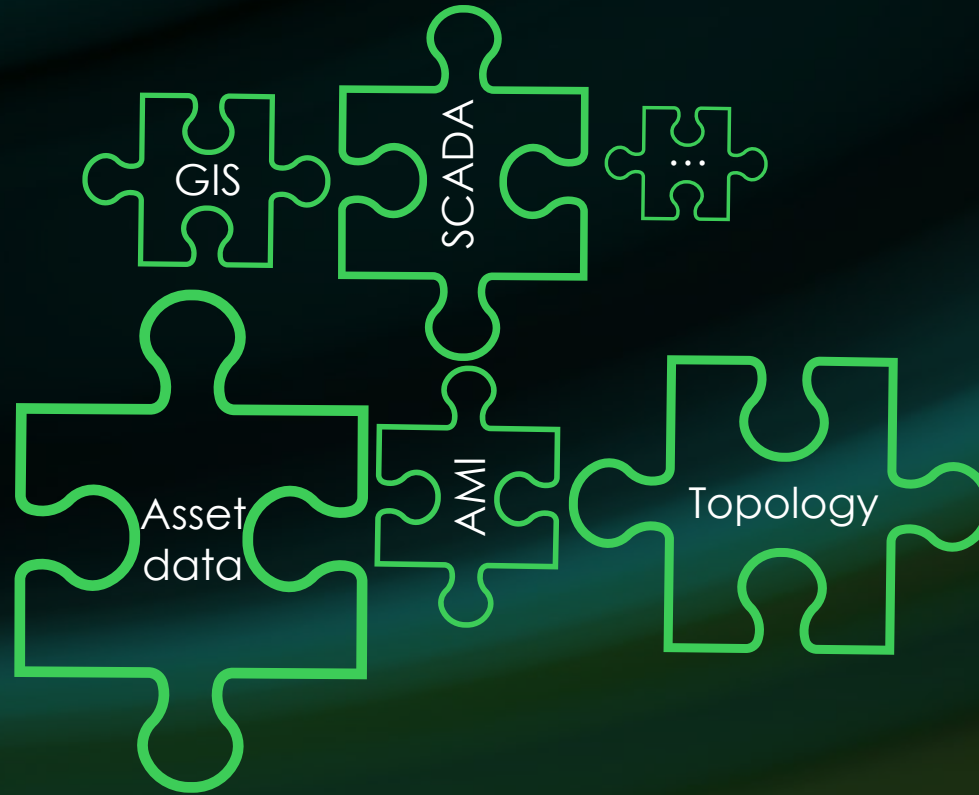


THE GRID OF THE FUTURE IS A REALITY TODAY

Siloes

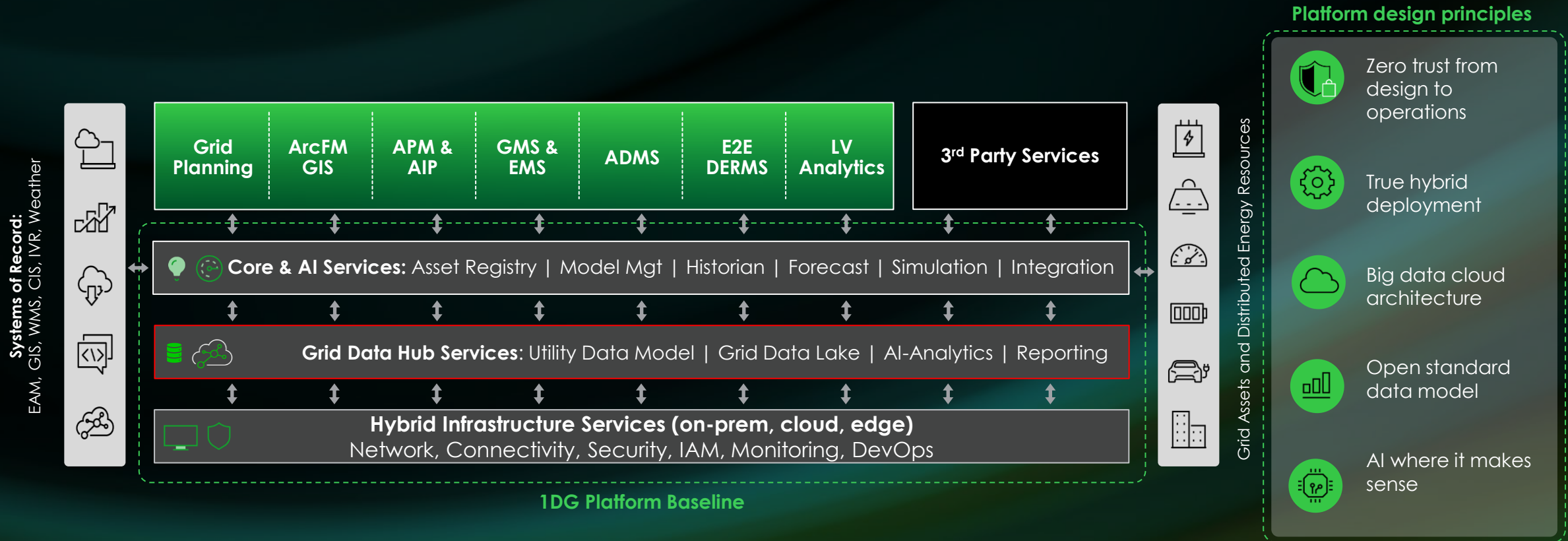
Hiding insights in plain sight

The data is there, but the insights are hidden behind barriers



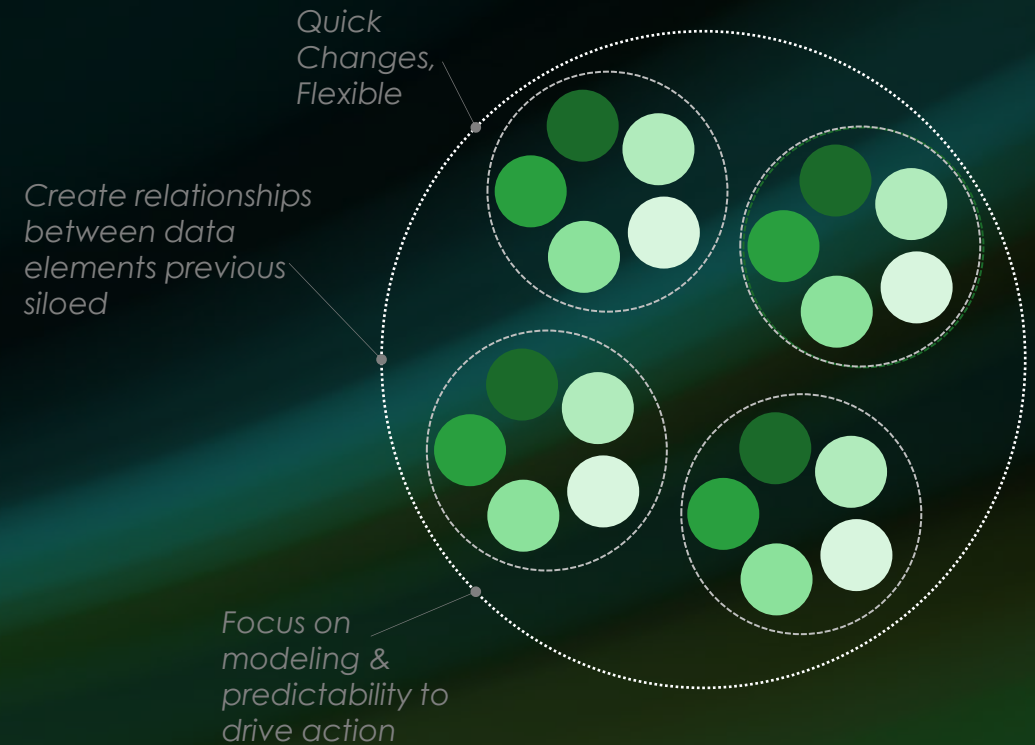
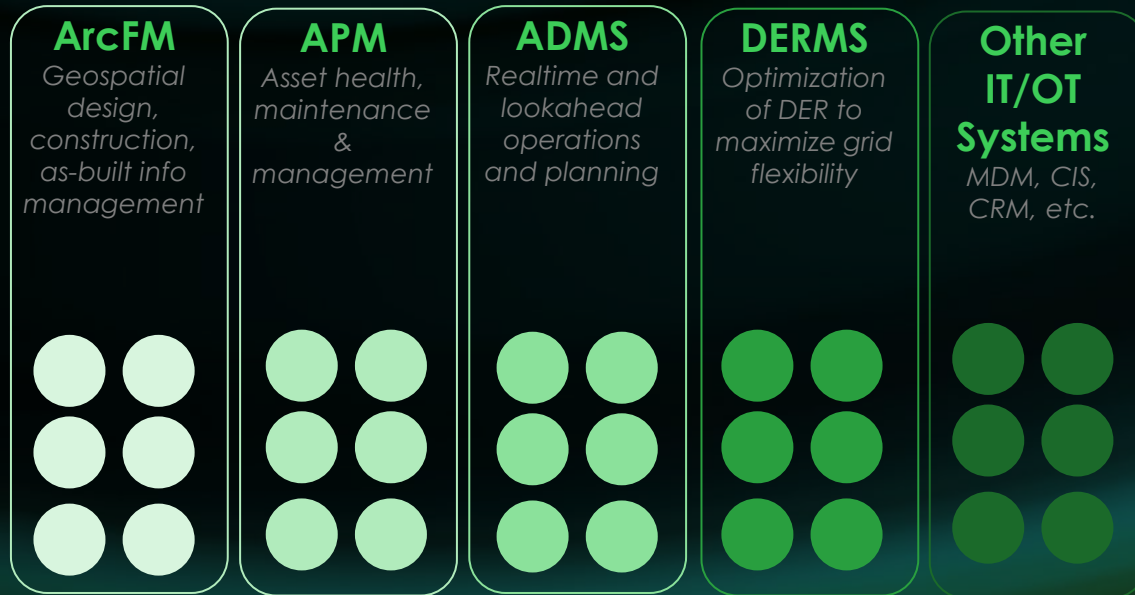
One Digital Grid Platform with data-centric architecture

Hybrid cloud infrastructure, advanced data services and foundational AI/ML



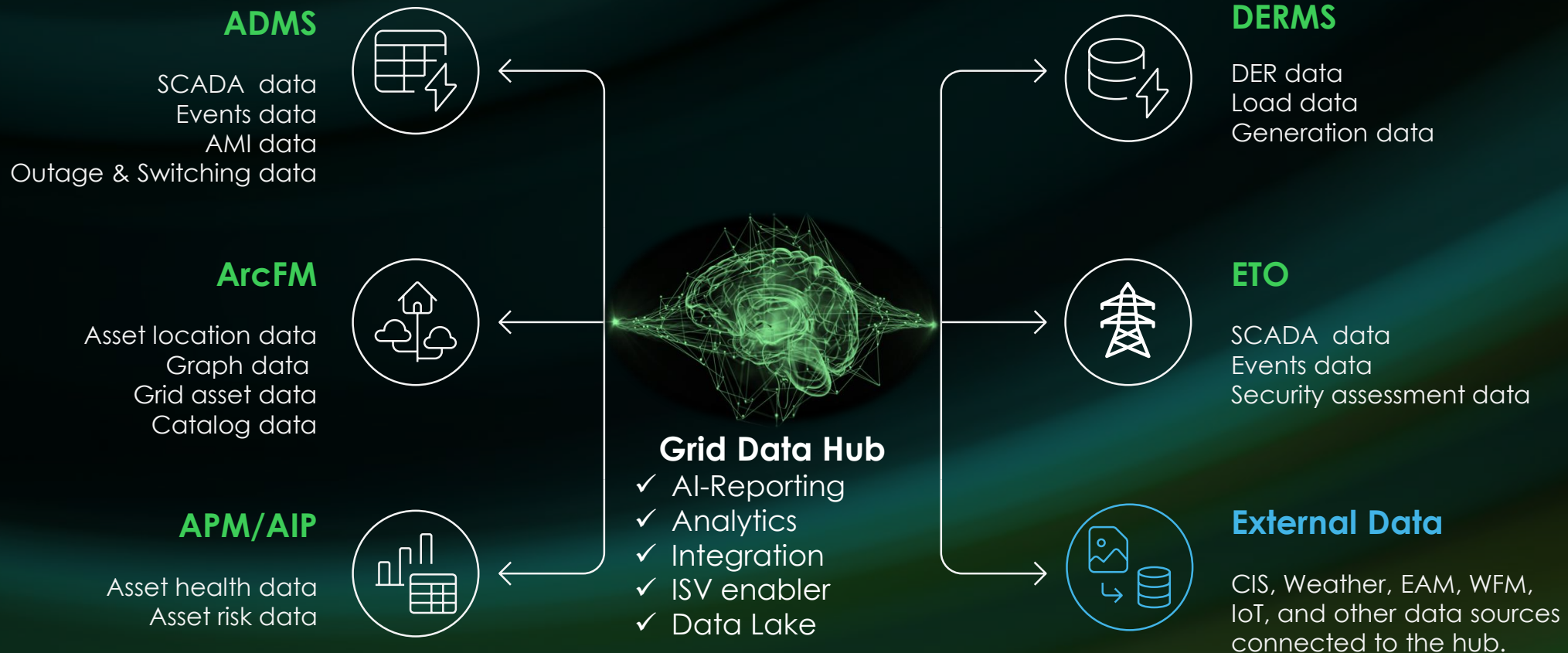
Transversal grid intelligence layer

Grid Data Hub - From siloed to unified



Data-driven decision making

Unlocking actionable insights through unified data across the grid



Ontology for Grid & Electrical utility domain

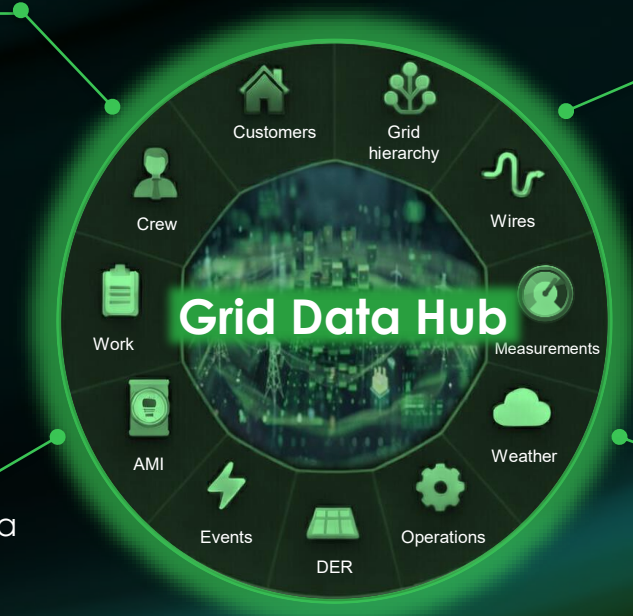
Enterprise model that brings context to data

Unifies disparate data sources

- From **siloes** to **unified** governed data store
- Broad **range of data types** (spatial, relational, operational, temporal, etc.)
- High-volume, high-frequency **ingestion connectors**

Data sovereignty, residency, regulation

- **Utilities** retain full **ownership and control** of their data
- Access is governed with **strict permission/restriction**
- Data remains within **national borders - regulation**



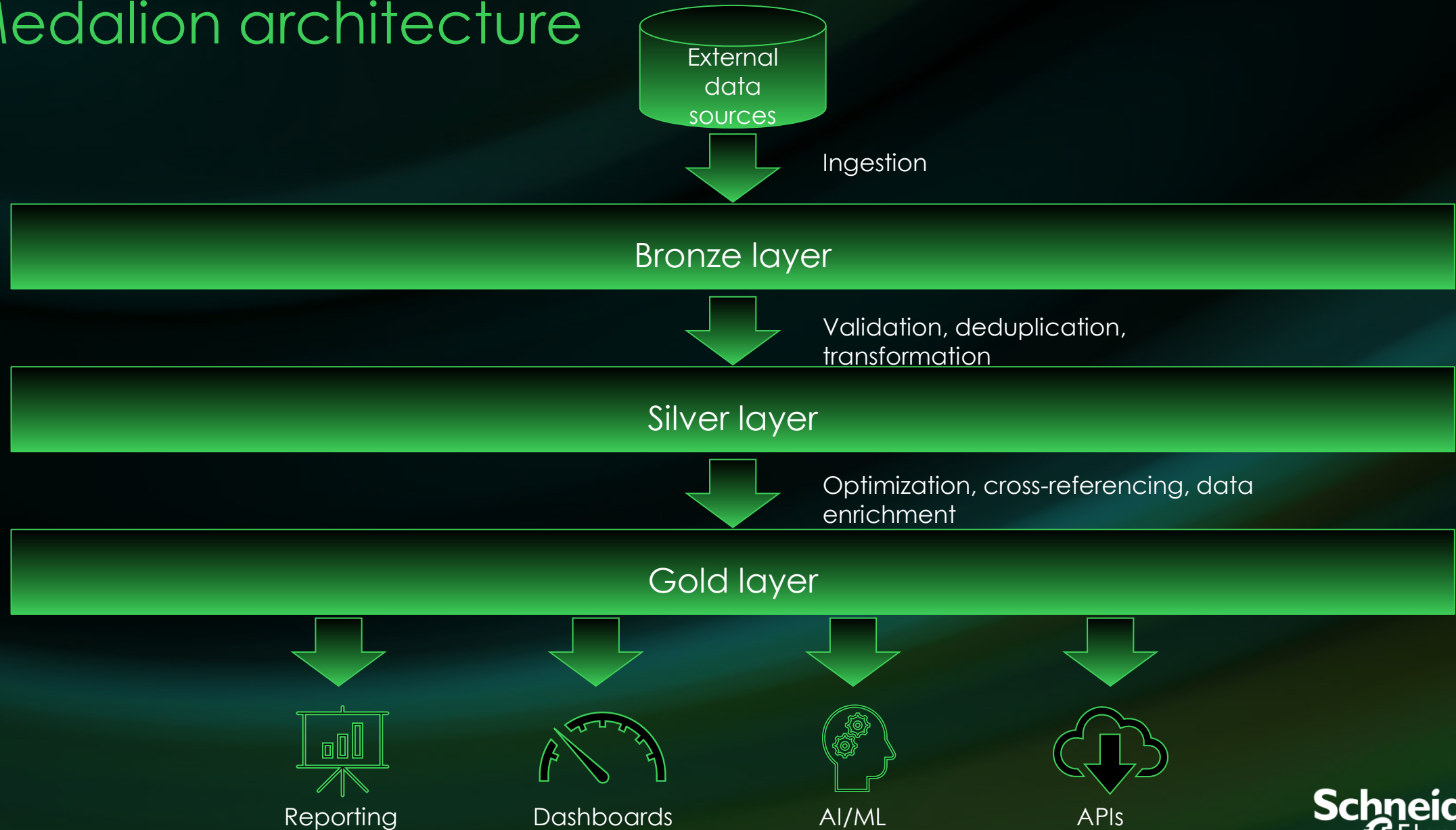
Semantic layer – Context - what data mean & how they connect

- Provides a domain **meta-model** for **grid and utility context**
- **Transformation logic** to align and enrich data
- **Consistent**, interpretable, and reusable across systems
- Enabling federated **access to contextualized data**

Intelligence engine – access to context

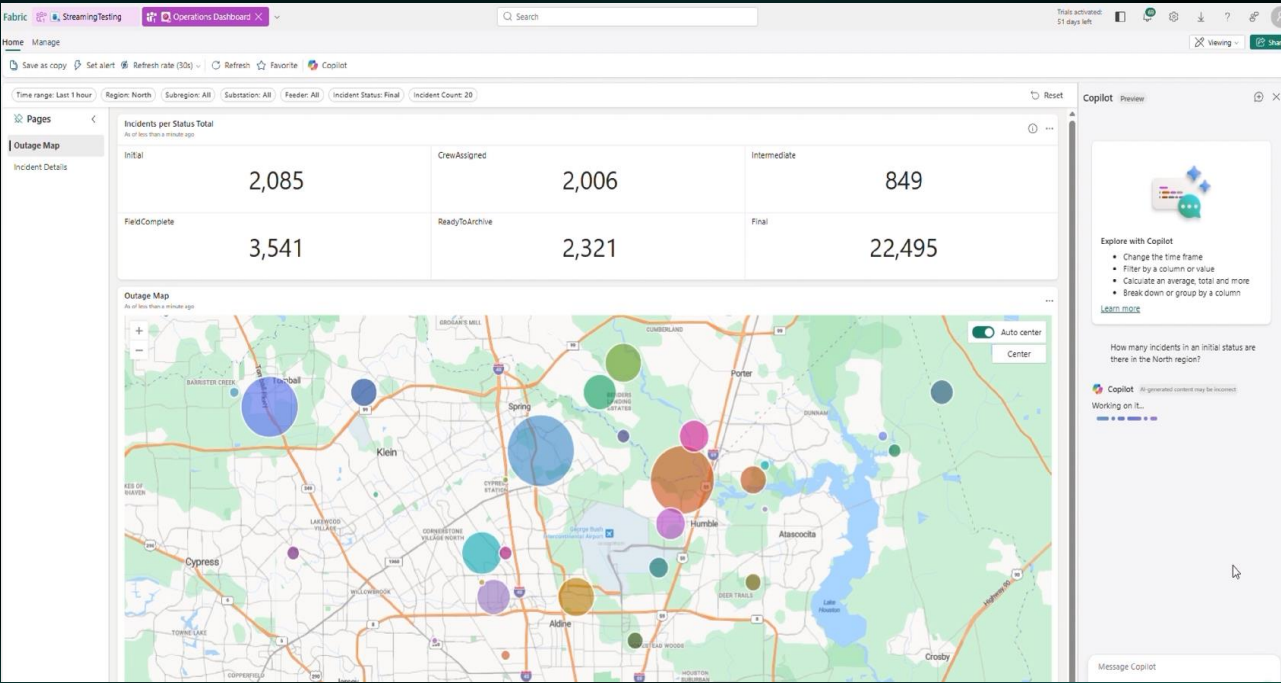
- Delivers out-of-the-box **analytic, AI, and agentic workflows**
- Supports analytics and AI scenarios **tailored to each utility**
- Accelerates add-on of new **apps, products, ISVs**
- **Cross-system insights** by unified, contextualized data

Medalion architecture

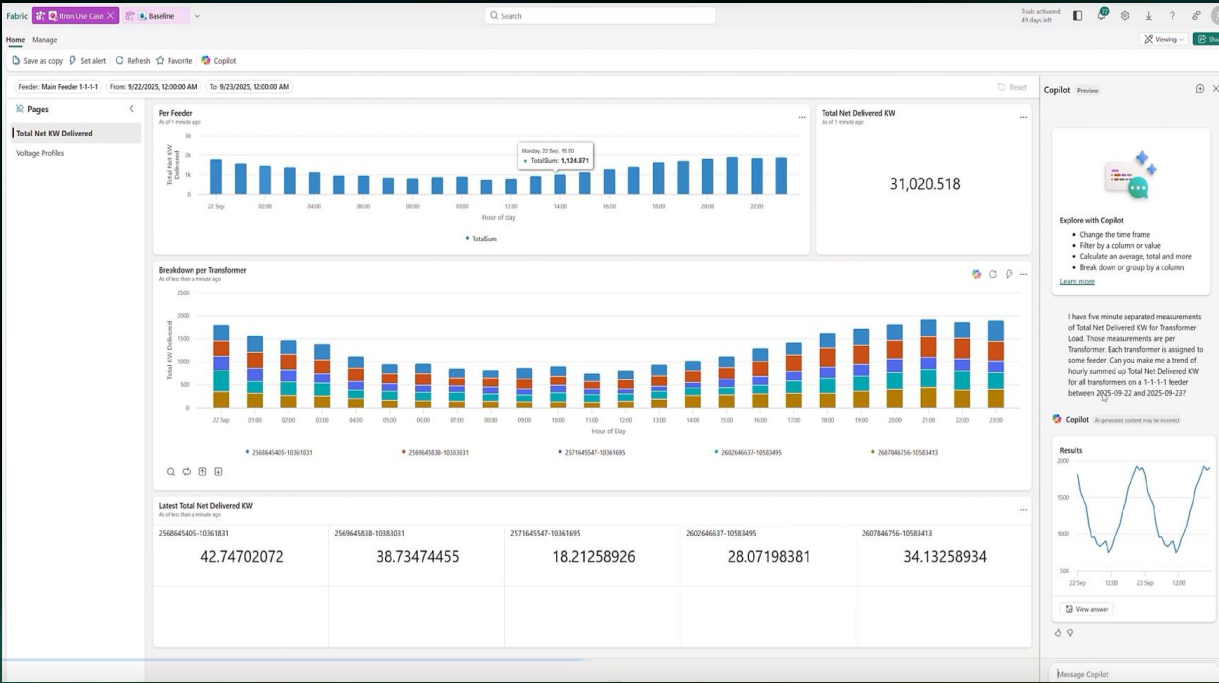


Grid Data Hub in action...

Spatial centric outage map



Full load analytic based on smart meters data





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