Element Unify

Transform Siloed Operations Data into a Knowledge Graph-Based Semantic Model

element

Operations teams and analytics teams are both looking to use advanced approaches such as digital twins, artificial intelligence and machine learning to achieve new insights that improve business performance through improved uptime, lowered O&M spend and reduced operational risk. Such initiatives are critically dependent on the data powering the analytics. Yet harnessing enterprise data often requires dealing with a landscape characterized by data silos, poor data quality and weak governance.

The Element Unify data platform transforms siloed IT/OT data into contextualized, knowledge graph-based models to support diverse analytical use cases including those based on digital twins. Built with industrial organizations in mind, the Element Unify data platform uses automated, no-code data pipelines to integrate and contextualize IT/OT data delivering value across four key dimensions: **Speed**, **Quality**, **Governance**, and **Scale**.

Speed
Deliver fast time to value through accelerated project completion

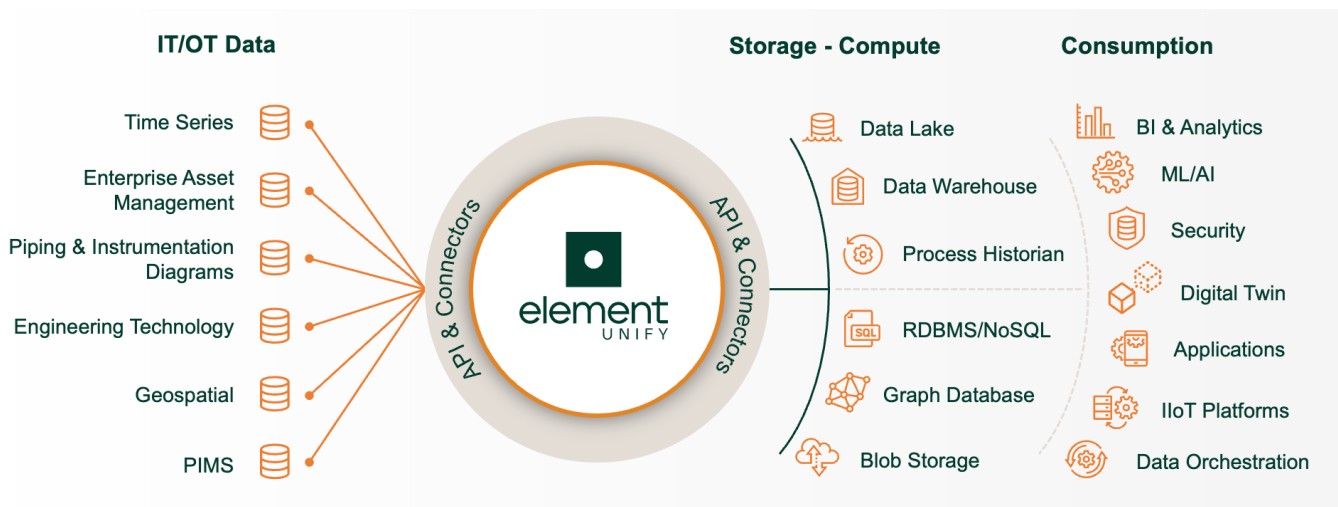### Quality
Support data-based decision-making using reliable data

Governance
Realize on-going value through continuous alignment

Scale
Achieve impact across use cases and sites

IT/OT Data
- Time Series
- Enterprise Asset Management
- Piping & Instrumentation Diagrams
- Engineering Technology
- Geospatial
- PIMS

API & Connectors

element UNIFY

API & Connectors

Storage - Compute
- Data Lake
- Data Warehouse
- Process Historian
- RDBMS/NoSQL
- Graph Database
- Blob Storage

Consumption
- BI & Analytics
- ML/AI
- Security
- Digital Twin
- Applications
- IIoT Platforms
- Data Orchestration

Key Features

Unify Graph
Explore contextualized data and export to other systems

No-code Pipelines
The no-code approach allows operations subject matter experts to collaborate and contribute directly without coding skills

Connector Portal
Pre-built connectors for a range of commonly used data sources and consuming targets, and ability to make custom connectors

Dataset Catalog & Template Library
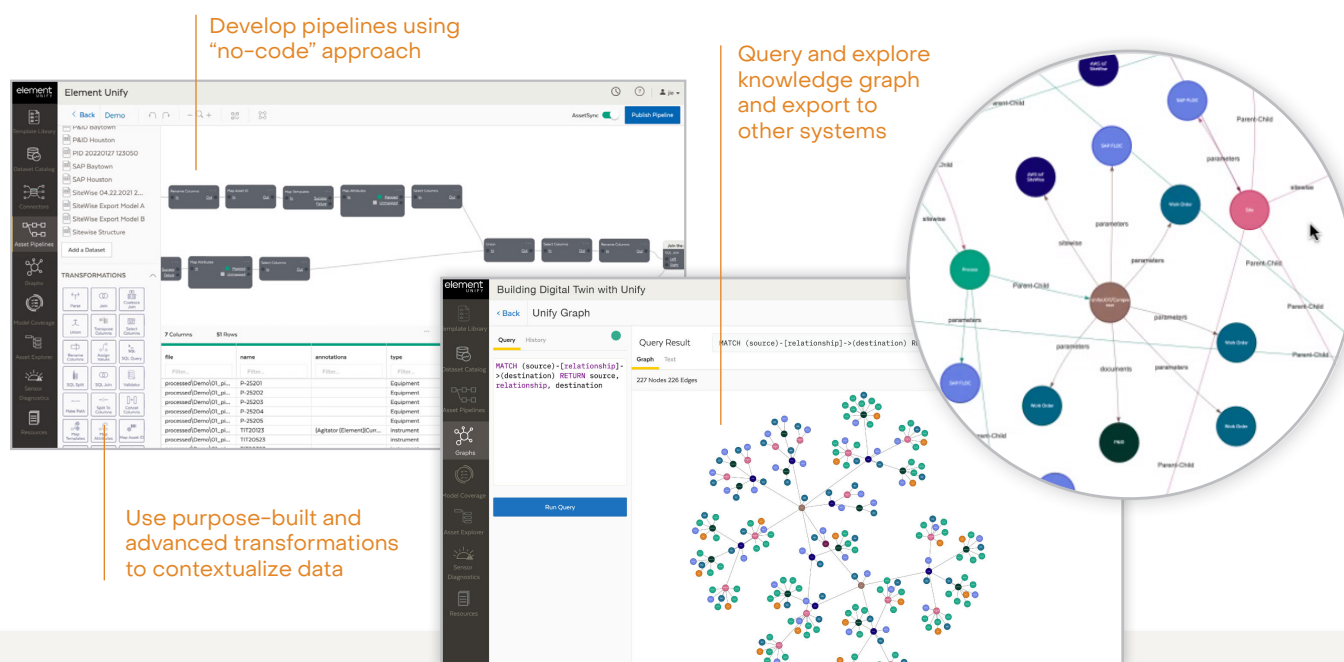Easy, central management of templates and ontologies. Customizable Unify and industry standard-based templates

P&ID Support
Automatically ingest context from piping and instrumentation diagrams (P&IDS) in bulk to speed asset model development

Purpose-built Transformations
Easily combine data using powerful transformations including Advanced Joins (with Exact, Fuzzy and Contains matching)

Develop pipelines using "no-code" approach

Query and explore knowledge graph and export to other systems

Use purpose-built and advanced transformations to contextualize data

Serving operations leaders, IT leaders, and analytics teams

Operations leaders – Quickly roll out digital initiatives across the enterprise to improve business operations

IT leaders – Empower business to maximize data value while ensuring governance and security

Analytics teams – Focus on insight generation instead of data wrangling

"We didn't know there was a way to automate combining all our data sources and making it consistent. We assumed that we would have to hire all these people and one day we'll get there."

Arpan Seth
Process Engineer, Data Scientist

EVONIK
Leading Beyond Chemistry

Curious to see how Unify can help you address data challenges? Try Free:
elementanalytics.com/free-trial