

JuraData

Oil & Gas Data Integration & Management Service Platform

Make data a true business asset and intelligent foundation for oil & gas enterprises

JuraData is an oil & gas-oriented data operating system, data governance platform, business collaboration foundation, and intelligent application foundation. Based on a five-dimensional business ontology model, it unifies the integration, governance, organization, and orchestration of enterprise multi-source heterogeneous data, helping oil & gas companies break down data silos, unify data standards, improve data quality, and transform fragmented data into digital assets.



Five Core Capabilities



Business-Driven Modeling

- Five-dimensional business ontology
- MBU-based data organization
- Data organized by business logic
- Unified business semantics and standards



Historical Data Deep Governance

- Unified governance of historical data
- Structured and unstructured data handling
- Automated migration and metadata extraction
- Data asset management



Standardized New Data Collection

- Standardized collection templates and rules
- Source-end real-time validation
- Semi-automated data collection
- End-to-end collection traceability



Closed-Loop Data Quality Management

- 5B categories of quality rules
- Pre-validation + closed-loop rectification
- Unified data standards
- Measurable and traceable quality



Business-Oriented Data Services

- Intelligent search and knowledge encyclopedia
- Role/scenario-based intelligent push
- Unified API data services
- From “people searching for data” to “data finding people”

Product Architecture

An integrated system of Data Governance + Data Services + Intelligent Applications

Data Sources



Databases



Excel



Reports / PDF



Real-time Data



Petrel



LandMark

JuraData Platform Core



Five-Dimensional Business Ontology

Unified business semantics and data standards



Data Governance System

Standards | Quality | Assets | Governance Loop



Data Service System

Search | API | Push | Knowledge Base



Intelligent Application Foundation

Knowledge Graph | Training Datasets | Intelligent Q&A

Upper-Layer Business & Intelligent Applications



Collaborative Research



Development & Production



Intelligent Analysis



AI Agents

Core Business Scenarios



Unified Data Integration Service Foundation

- Unified access to multi-source heterogeneous data
- Unified data services and orchestration
- Intelligent search and knowledge encyclopedia
- From “people searching for data” to “data finding people”



Data Governance Platform

- “Inventory – Standardize – Govern – Use” closed loop
- Historical data assetization
- Standardized collection of new data
- Panoramic view of data assets



Integrated Research Data Foundation

- Project-level unified data context
- Automatic accumulation of process results
- Bi-directional integration with professional software
- One-click publishing and reuse of results



Intelligent Application Data Foundation

- Unified business semantics
- High-quality training datasets
- Knowledge Graph KGO / KG1
- Intelligent data Q&A and report generation

Why JuraData is Different?



Not A Traditional Data Middle Platform

It is a business-driven data operating system



Not Field-Level Governance

It is business-ontology-based governance



Not After-the-fact Sampling

It is source-end governance + pre-validation



Not A Single Data Platform

It is a foundation for business collaboration and intelligent applications

Product Value



Findable

Quickly locate data by business object, workflow, discipline, and role



Understandable

Data comes with business semantics, lineage, version, and context



Trustworthy

Standardized, quality-controlled, and closed-loop managed



Actionable

Unified data services support business analysis and intelligent applications