JuraData

Exploration and development data management and service platform

For oil and gas enterprise data managers and exploration and development professionals, JuraData manages multiple data types and provides unified data services for research and analysis, production operations, and business applications.

Use the business ontology to connect the data lake, data governance, and data services, making the data each role needs readily accessible. Connecting these capabilities through the business ontology gives every role a coherent path to the data it needs.

Business context

Preparing research materials for a single well

Researchers must bring together well-log, geological, and production data and reports before they can conduct integrated analysis.

01 Data is dispersed, and even a complete search is difficult to use

Cross-system searches, inconsistent data definitions, and uneven quality make material preparation repetitive.

02 Data is disconnected from work requirements

Business relationships are unclear and services are fragmented; users must still organize source data manually into usable outputs.

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A governance-led data stack that turns distributed records into usable services

Solution overview

Unified standards — continuous governance — role-based services

Existing business systems · Specialist databases · Documents and graphics

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1 A five-dimension business ontology model unifies business and data standards

Business domain · Work domain · Object domain · Specialist domain · Business-process domain

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2 Collection, aggregation, quality control, and permission management

Structured data / Documents and graphics / Seismic and well-log data volumes / Models

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3 Proactive role-based delivery and unified data services

Intelligent search · Integrated query · Specialist charts · Natural-language data Q&A

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Goal: findable · understandable · usable

Outputs: role-specific thematic data, specialist charts, and data services callable by business systems

Corresponds to 2 and 3 · Business-ready data and service reuse

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Business value and a repeatable path from data association to analysis

Business value

More efficient material preparation

Organize data around roles and business objects to reduce cross-system searching and repeated verification.

Corresponds to 1 and 3 Unified semantics and role-based services

Clearer data assets

Use the asset landscape, missing-data statistics, and quality-control results to clarify data conditions and prioritize governance.

Corresponds to 1 and 2 Asset catalog and quality management

Easier reuse of data outputs

Provide data and specialist chart services uniformly to support business systems and intelligent applications.

Corresponds to 2 and 3 · Business-ready data and service reuse

Example application workflow

01 Associate relevant data by well

Organize source materials around the well and its business context.

02 Retrieve specialist views

Use tables, curves, and a single-well display for the immediate task.

03 Review, then analyze

Specialists confirm the materials before they are used in analysis.

Associate relevant data by well, retrieve tables, curves, and a single-well display, then after specialist review use them for analysis. Managers use missing-item lists and quality-control reports to drive remediation.

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Implementation conditions, first-task focus, and service outputs

Adoption and integration

An integrated data lake, data governance, and data-service offering. Integration requires clearly defined data sources, interface permissions, and quality rules. Role-based delivery and intelligent data Q&A are configured for the business and runtime environment, and business users confirm specialist judgments.

Start with one business task

Select a business theme, data scope, and user roles, then demonstrate integration and services.

Goal

findable · understandable · usable

Outputs

role-specific thematic data, specialist charts, and data services callable by business systems

Service outcome

Corresponds to 2 and 3 Business-ready data and service reuse