VALIANCE®

With enhanced Artificial Intelligence and Machine Learning (AI/ML) capabilities, Valiance's **Data Quality Services for Life Sciences (DQSLS)** improves migration readiness, accuracy and efficiency. By identifying and extracting metadata from unstructured source documents through advanced ML models, the Data Migration process becomes more comprehensive.

Additionally, the Natural Language Processing capabilities of **DQSLS** enable field level extraction, language translation, and external reference classifications, resulting in significant productivity gains and efficiencies in your data migration processes.

DQSLS examines data quality of the source systems and establishes how well it fits target system constraints. By highlighting quality issues in advance of the migration, DQSLS sets the stage for data enhancements before even one record is moved.

Using AI/ML for Document Attribute Search and Analysis

New AI/ML features address the common challenge of limited awareness of document content, which makes it difficult to locate relevant information. Previous approaches required a substantial amount of work consolidating metadata manually.

DQSLS addresses metadata consolidation with greater degrees of speed, efficiency and precision.

Data enhancement occurs through a combination of an automated transformation engine for structured data and both Natural Language Processing and Machine Learning for unstructured data. Using this blended approach allows for the comprehensive, efficient and accurate migration of life sciences data.

For example, poor data quality can trigger misleading report and regulatory filings resulting in countless hours spent investigating and resolving these issues.
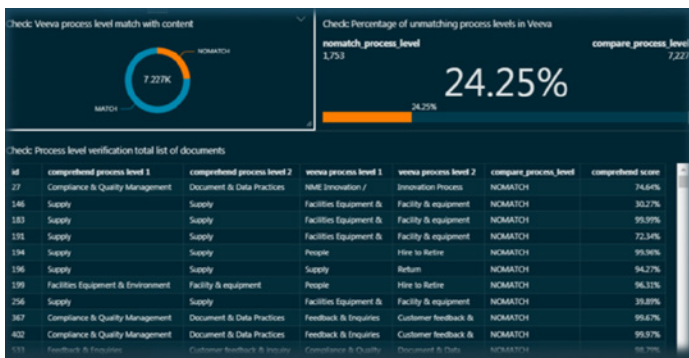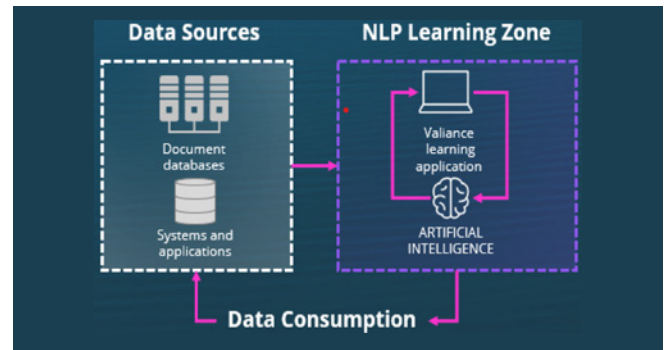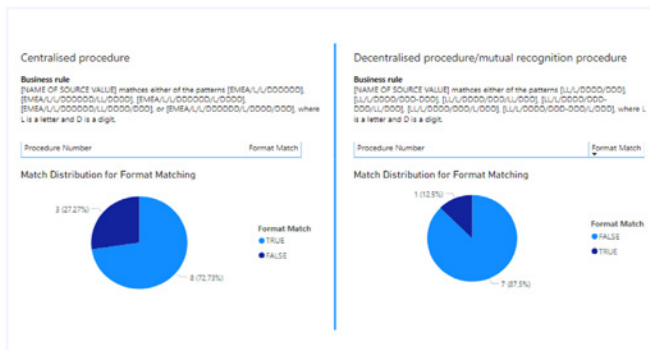
AI-Driven Data Quality Services: Power Data Migration Readiness

Source Profiling and Quality Assessment

Data profiling shows the as-is state of data quality in the source system, a major step towards the creation of a more structured, consistent and reliable set of data in the target environment. It provides the basis for assessing which data to focus on for improvement, setting the stage for the data enhancement phase in your migration project.

Data Profiling using Business Rules

This gives the migration team the ability to measure data quality against client-specific data metrics, as well as against external industry metrics such as the European Medicines Agency Referential Management System (EMA RMS).

AI-based Learning Application

An Artificial Intelligence engine is faster and more precise in evaluating metadata. An AI component trained for Life Sciences is leveraged to obtain structured information from documents.

Enhancing Data Quality for Life Science Content Migrations

Stay tuned to Valiance Partners for more information on the new Data Quality Services capabilities and other enhancements to the TRU-Series Software for Data and Content migrations.

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