



Empower State and Local Government with Accelerated Data Intelligence

Increase Agency Effectiveness and Innovation with Automated, Metadata-Driven Intelligence at Scale

State and local government agencies continually face societal headwinds while navigating a myriad of duties to support their missions. Accurate, trustworthy data that is accessible across government agencies is key in responding ably and driving smart policy decisions to better serve citizens.

Yet agencies today operate within increasingly complicated data landscapes where data is dispersed and siloed across thousands of data sources. Diverse data is distributed across complex on-premises and cloud-based enterprise applications, data lakes, data warehouses, databases and mainframe systems.

While data continues to proliferate at an exponential rate, government institutions continue to rely on legacy techniques and manually intensive processes. This makes finding and understanding their critical data an untenable task as complexity increases. Moreover, despite data professionals spending a substantial amount of their time searching for and preparing data, between 60% to 73% of all data that enterprises possess goes untapped.¹ This represents a missed opportunity to create new value and a potential risk if sensitive constituent data is exposed to abuse.

Key Benefits

- Enable digital citizen experiences
- Improve the effectiveness of social programs
- Secure and protect citizen information
- Ease societal issues
- Strengthen citizen engagement and safety

¹ CEO Magazine, "Underuse of Analytics could be costing organizations millions"

Forward-looking institutions aiming to become data driven need the help of automation to enable data discovery at scale. An intelligent, automated solution for data discovery must find critical data across agency sources. It should also help users comprehensively understand the data to ensure that it is used appropriately. Data discovery is a critical first step to better understand its value before it can be further democratized to improve collaboration and innovation across organizations while minimizing potential misuse.

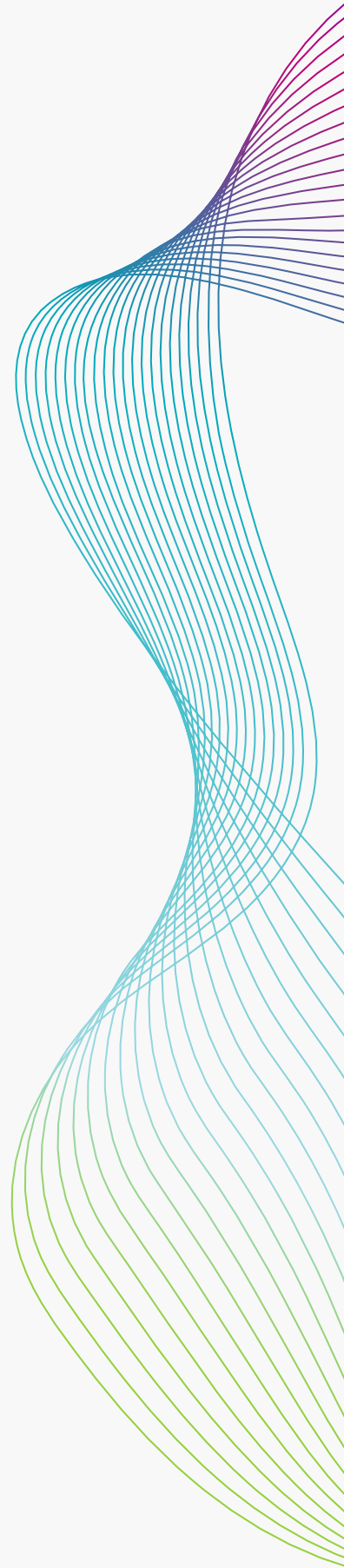
Transform State and Local Agencies for Faster, More Intelligent Insight

Elevate Digital Citizen Experiences

Deliver modernized digital citizen services with a trusted data foundation by automating your discovery and cataloging of operation-critical data where it resides. Data discovery is a first step to building confidence when data quality, accuracy, transparency and protection can be improved. Technology solutions can be deployed that support cross-agency collaboration and effective engagement with citizens to help connect them to the right services.

Improve Effectiveness of Social Programs

The inability to automate the discovery, inventory and curation of constituent data often results in its mismanagement as well as spiraling data debt and wasteful compute expense. The resulting inaccuracies in data can then lead to slow or ineffective ways of connecting citizens to necessary programs such as healthcare, unemployment insurance and education. Without accurate information provided through automated data quality improvements, the risk of fraud and misuse can also increase. By automating your data discovery and management efforts, you can more quickly identify areas to reduce costs with trusted data delivery.



Anonymize and Secure Citizen Information

Protect citizen information by enabling data stewards to quickly discover, identify datasets and share insights using data lineage that may indicate potential privacy violations and other types of risk exposure to resolve. With improved transparency, your data protection and data sharing plans can help meet compliance with policies for sensitive information use; limit personally identifiable information (PII) and intellectual property misuse; and avert risks from abuse such as data loss.

Ease Societal Issues

Expand your automated capabilities to harness your critical data assets with broad, deep connectivity as your data footprint expands to include new data sources and diverse data types across departments and agencies. This ability to improve cross-collaboration through automation facilitates easier access to relevant data. With an automated, holistic data governance and data management framework that identifies, integrates and manages crucial demographic data across various departments, agencies can lay the groundwork for data-driven decision-making. This can help drive programs that support diverse needs, bring constituents together with the services they need and evaluate the effectiveness of efforts.

Strengthen Citizen Engagement and Safety

Improve crisis response and build citizen trust by accelerating time to insights from data. With intelligent, automated data discovery, your data operations, data science and business teams can more rapidly find the data they need. Uncover trusted datasets in data pipelines and streamline data preparation. Enable self-service access to a trusted, holistic view of data and derive metadata insights to reduce the time spent by data scientists on data preparation. Through automated data discovery, bottlenecks can be reduced to enable organizations with trusted data for faster decision-making and response in times of crisis to enhance citizen safety.

Achieve an Improved Understanding of Your Data with Automated Data Discovery

Data discovery capabilities are integrated and enabled to provide broad visibility into enterprise data assets. Developed for ease of use, the SaaS-based solution, a service of IDMC, helps scan data across multiple sources to classify data types and deliver metadata-driven intelligence across cloud and on premises systems.

In addition to automatically classifying and inventorying large volumes of diverse data, the solution enables enrichment of metadata by discovering relationships and providing business context to technical assets.

Powerful semantic search capabilities allow data users to intuitively find relevant data assets. Along with holistic data visualizations, the ability to track and view data lineage from origin to consumption across fragmented and complex data landscapes helps to provide a comprehensive view of data with greater transparency.

Key Capabilities

Broad and Deep Connectivity to Data Sources

The solution scans metadata from across enterprise systems within various public sector agencies and departments where the data may reside — on-premises or in the cloud — enabling quicker insights from this integrated, collaborative intra- and cross-agency data environment. Applying broad and deep data source connectivity allows users to extract metadata across cloud platforms, BI tools, databases, multi-vendor ETL and data science tools, various enterprise applications and file formats, SQL dialects, stored procedures, and more.

Automated Smart Data Classification

CLAIRE-powered data classifications can automatically identify semantic meanings, entities or other classification groupings of data assets, as shown in Figure 1. With over 200 out-of-the-box built-in data classifications, users can accelerate and simplify the identification of data entities and other data groups, including sensitive constituent data, including PII. Additionally, users can create customized data classifications to suit their needs and operationalize them through automation across multiple sources. The system keeps a memory of past user actions to eliminate the need to repeat the same actions for new sources or re-scan the same assets.

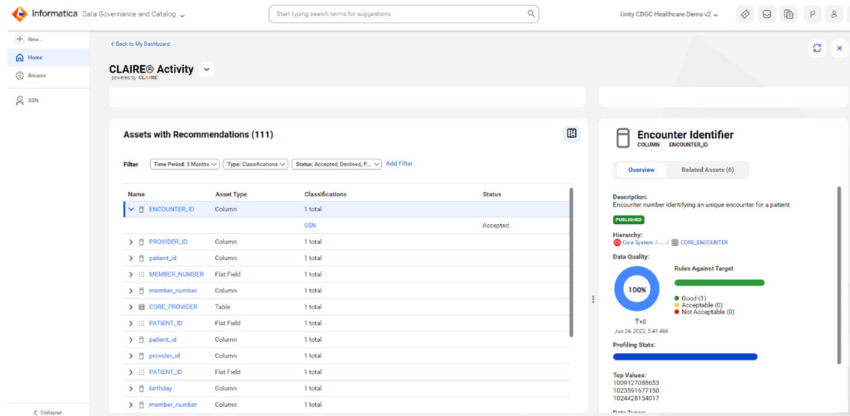


Figure 1. AI/ML capabilities of CLAIRE help automatically classify and profile data assets.

Powerful, User-Friendly Search Capabilities

Powered by natural language processing (NLP), a semantic search and query feature dramatically speeds the process of finding data across diverse, distributed government systems. As seen in Figure 2, filters, recommendations and preview capabilities make it easy to quickly review and identify desired assets. A user-friendly browsing experience of guided visualization across business and technical assets makes it easy for data analysts and scientists to understand different data elements along with related information, associations and profiling details.

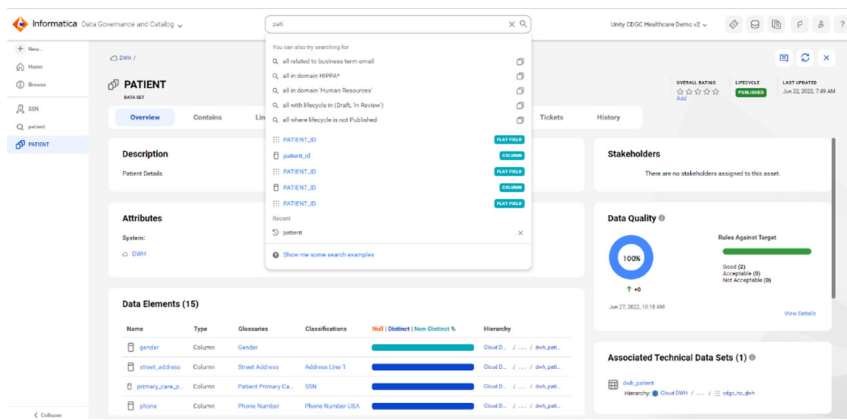


Figure 2. Quickly find data assets using powerful, semantic search capabilities.

Intelligent Business Glossary Association

With CLAIRE-powered intelligent glossary association, the solution reduces the manual effort required to provide business context to technical assets. It automatically associates the technical asset (columns, fields, tables, views, files etc.) to the business glossary (terms or metrics) in rapid time, helping data users to discover assets along with insights about their context.

Automated End-to-End Data Lineage

Data lineage builds trust in data by identifying the origin, transformation and distribution of data across agencies and departments. As shown in Figure 3, comprehensive data lineage gives users visibility into data dependencies to better understand where and how data is used and by whom. Advanced, automated discovery capabilities help to identify critical relationships, such as joins and primary keys, by inferring joins across datasets at scale.

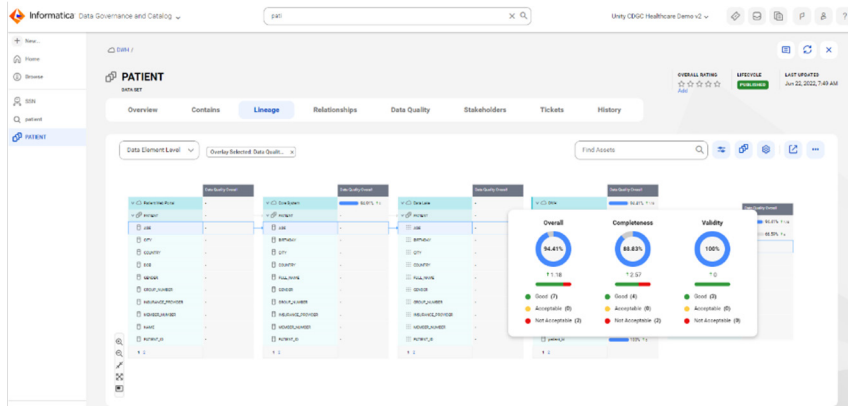


Figure 3. Explore data element-level data lineage from source to target and gain additional understanding of your data by displaying graphic overlays, including data quality scores.

Holistic Relationship Visualization

A holistic view of data in a knowledge graph, represented in Figure 4, lets you quickly search, discover, and understand unified data and its meaningful relationships across the organization. The 360-degree data view shows related datasets, tables, views, data domains, and reports, thus enabling progressive discovery of other data sets of interest.

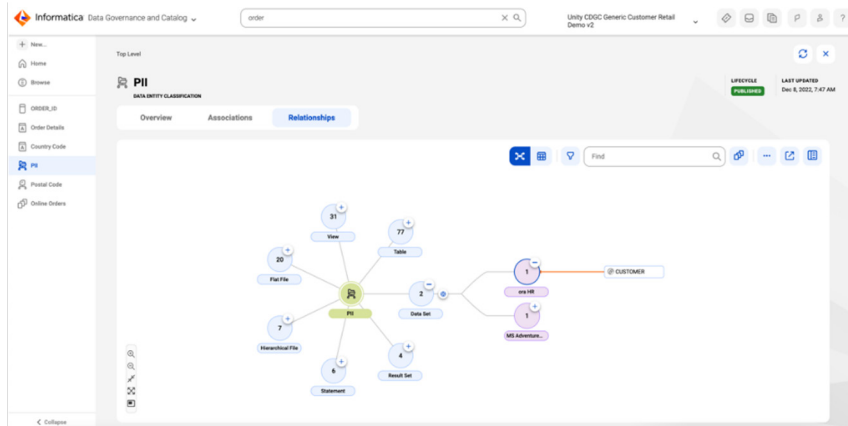


Figure 4. Interactive graphical views of data relationships help users discover and understand assets across the organization.

Comprehensive Data Profiling

Data profiling is crucial for building an understanding of data assets. Data profiling may range from simple frequency distribution of a column to complex profiling rules to determine the quality and integrity of data. With Informatica's data profiling capabilities, users can identify and understand data value frequencies, value distribution, anomalies, missing values and more. Once the initial profiling is complete, business rules can be created to further test assumptions about the data or explore more detailed data quality issues. Using multi-dimensional data profiles and dashboards helps identify and self-service data quality issues to help increase data accuracy across the organization. Data profiling statistics can also be used to identify similar datasets and data relationships, which further enhances the ability to discover and understand data in a holistic manner.

Learn More

Check out our latest **eBook** on the topic, or visit www.informatica.com/state-local-govt to discover additional resources and connect with our team.

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