



Executive Summary

As the value-based payment purse strings keep tightening, health care leaders need to look towards a new generation of systems of shared insight to deliver more efficient and effective care.

This rapidly increasing demand for operational analytics is causing heightened executive heartburn. Classical back-office reports and proprietary analytics, locked into vendor systems, are failing to hit the mark and health care leaders are struggling to keep up with today's deficient technology patchwork. Sirens continue to wail as executives see the quantity of analytics increase, data volumes rapidly expand, and integration points multiply, with a total lack of enterprise governance.

The Apervita low-code analytics and data platform, built on world-class technology, is a comprehensive solution to this problem. Acting as a core enterprise resource, it distributes and scales real-time intelligence, wherever it is needed. It unifies health data, enabling the agile development of thousands of analytics which can be distributed as real time insight across the care continuum. Apervita is an open and advanced insight sharing platform addressing clinical, financial, operational and strategic goals. It empowers enterprise systems, experiences, and workflow with the broad variety of intelligence needed to efficiently and effectively deliver value-based care.



Key Apervita Benefits

1. Create a Shared Knowledge Library

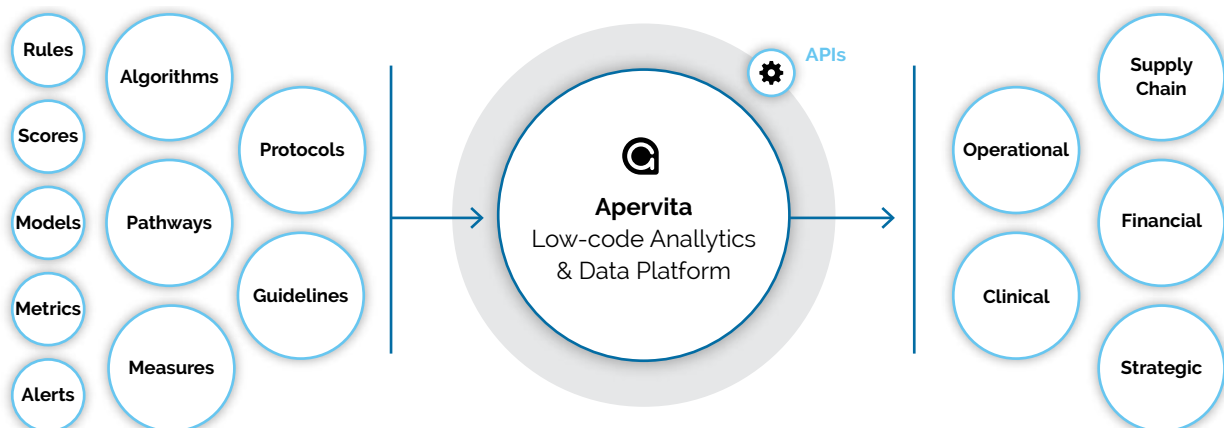
While many health enterprises have invested heavily in health data, often naming a Chief Data Officer, the person responsible for data management and governance, we are beginning to see an increasing trend towards in-house knowledge curation, often led by analytics, business intelligence and informatics teams. We believe that this trend will likely give the rise to the role of Chief Knowledge Officer (CKO). The future CKO will be responsible for directing the sourcing, curation, use, and life cycle of enterprise health knowledge, ensuring its integrity and continual improvement. The CKO will combine the best knowledge from industry experts with in-house knowledge, helping the enterprise automate their enterprise processes.

The Apervita low-code data and analytics platform brings rigor to the development of the enterprise knowledge assets and overtime to manage an entire library. It starts with the development of individual scores, algorithms, and models to solve specific enterprise problems. They are created using platform development tools requiring only low-code or no-code skills. If required, they can be re-used or re-purposed, and orchestrated together to form larger solutions. Once created, they can be quickly tested with sample data using on-board debugging and test tools. For larger teams, different roles and privileges can be broken up between different skills sets. So, while one person might be responsible for development of the analytic script, another might be responsible for testing, and a third person responsible for integrating data and packaging results into a user experience. One platform, for many purposes, using many data sources.

2. Design Insightful and Integrated Workflow Experiences

Systems of shared insight are interconnected with other enterprise systems and applications through APIs, allowing data and analytics results to be distributed. APIs can be integrated in a point-to-point fashion, or more ambitious enterprises may decide to create their own API gateway. An API gateway provides a single point of management for all connectivity across platforms. It can also be used to abstract vendor APIs and provide a uniform API layer for developers to access, enabling insight innovation to further accelerate.

Apervita turns the tables on siloed user experiences, by introducing an open API-enabled environment where the results of any corporate insight can be shared and woven back into the enterprise workflow fabric. Insight can either power third-party applications or be used through visualizations on the platform. Apervita takes advantage of applications already deployed, such as financial, clinical and operational applications, and enriches them with a centralized source of insight. Today, many systems and applications already have methods to embed insight results delivered through APIs, such as smart EHR infobuttons that on demand can securely pass a set of patient data through an API and display actionable results within a browser frame, or mobile app notifications, splash screen messages, or BI tool dashboards.



3. Unify and Harmonize Data

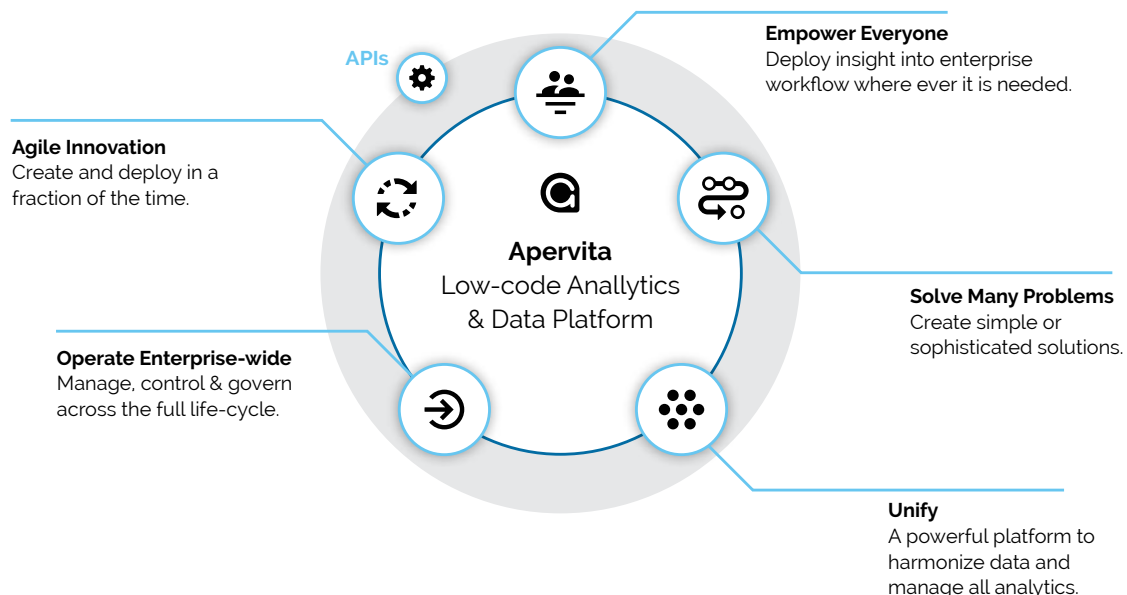
In today's traditional IT environment, a great deal of attention needs to be paid to efficiently assemble the data required for any particular analysis - a major hurdle in itself. That's why we build data marts to support BI, but there are never enough data marts, nor skilled personnel to build them. This classical approach embeds analytics into data, and results into siloed reports, which significantly limits their use. Enhancements to analytics are time consuming, and dependent on the interests of the solution vendor. This legacy model is no longer tolerable by the majority of CIOs who wish to gear up their organizations to take advantage of their investments in digital health data.

Users of Apervita benefit from innovations like no-SQL, low-code, and graph databases to make it much quicker and simpler to connect complex enterprise data to analytics. By separating analytics from the underlying data, analytics can evolve independently and within their own life cycle, without requiring data models or data marts, and with no prior knowledge of the nuances of underlying data format, structure, or nomenclature. Data only needs to be mapped to the analytic at run-time, often called latebinding. Connectors in the form of rich coding systems, value sets, and ontologies normalize the view of data, so that even complex data can be rapidly connected to the analytic at run-time.

4. Scale with Open, On-Demand Platforms

In the old days, we would frequently need to project future capacity requirements, always ensuring that our data center was dimensioned to provide sufficient front-end and back-end transactional power and data storage leeway to meet the demands of emerging use cases. Even with a finite number of use cases, this task would typically be difficult and time consuming. As we move to a new paradigm where hundreds, if not thousands, of use cases will be managed simultaneously, we must look towards the potential of cloud technologies.

The Apervita cloud infrastructure allows enterprise professionals to focus on the task at hand, i.e. deploying and operating powerful health analytics, while taking advantage of cloud economics with multi-dimensional scalability. By multi-dimensional we mean their ability to scale from a small to an immense number and variety of users, use cases, executions, facts, visualizations, and API calls. The infrastructure provides on-demand scalability while offering appropriate mechanisms for the physical and logical security of data, analytics, and intellectual property. Importantly, Apervita also facilitates interoperability, eliminating black-box, insular vendor products, by incorporating native interoperability using popular web service APIs and the ability to interoperate with healthcare-specific standards, like HL7, CCDs and FHIR and CQL. This allows enterprise systems and platforms to seamlessly exchange data and analytics results.



5. Manage the Analytics Life Cycle

Most health enterprises are only just beginning to come to grips with the ever increasing number of analytics they need to deploy. As they do so, IT leaders must consider how to enforce the appropriate controls and governance framework for analytics to be deployed and managed in live production environments. How can they enforce enterprise-wide management and centralized control, while enabling distributed teams to participate in creating valuable insight? Today's fragmented approach to analytics means that these controls are almost entirely lacking.

The Apervita platform comprehensively addresses this need. It allows administrators to delegate multiple roles, such as author, developer, informatics, publisher and user. Each role plays their part in the analytic and data life cycle, having different responsibilities and privileges, as assigned by an administrator. The platform permits the creation of virtual enterprise workspaces which can be dedicated to different goals. Workspaces allow users, analytics and data to be appropriately separated off from each other. Apervita also allows for release control of analytics, where authors may decide to do A/B testing, deploy an analytic to a sandbox, or release it to the enterprise and then continue to monitor it. Analytic life cycle management puts the enterprise in full operational control of its computable knowledge and governance process.



A few examples of many enterprise critical challenges that can be solved with Apervita.

Inpatient Safety	Outpatient Care	Optimize Finances	Capture Incentives	Avoid Penalties	Report Measures
Inpatient Early Warning Essentials Sepsis Cardiac Arrest SSI CAUTI CLI Decubitus Ulcers	Chronic Care Mgmt. Essentials Diabetes Heart Failure Cardiac Risk Stroke Hypertension Mental Health Prevention & Wellness Cancer Prognosis	Population Risk Claims Denials Fraud Detection Inappropriate Use Length of Stay Mgmt. Strategic Planning	Pay-for-Performance MACRA/MIPS goals Bundled Payments Comprehensive Care for Joint Replacement, Valve Replacement Pacemaker Implants	Readmissions ER Visit Frequency & Duration Overuse of Medical Devices & Imaging ICDs Imaging Studies	eQuality Measures Public Health Case Reporting Reporting for: Accreditation Certification Benchmarking Payer Agreements

For more information on how apervita can transform your business, visit apervita.com or email: info@apervita.com.

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