



CloudMedx 

The ONE Platform for Healthcare Brings it All Together

ONE provides a holistic view of patients and populations from a single intuitive interface. ONE unifies all data sources, partner platforms, plus complex workflows using our singular architecture and automation. Your data remains your own, your current platform—fully utilized.

ONE is "**Healthcare in a Box.**" Clinical, operations and financial results are collected and coordinated like never before.

Healthcare in a Box



Overview

Introducing the ONE Platform model

Activate and unify your data with the ONE secure connected healthcare platform.

It's powered by APIs, data integration capabilities, and a suite of platform services and interoperable tools to enhance your existing applications and care delivery workflows.



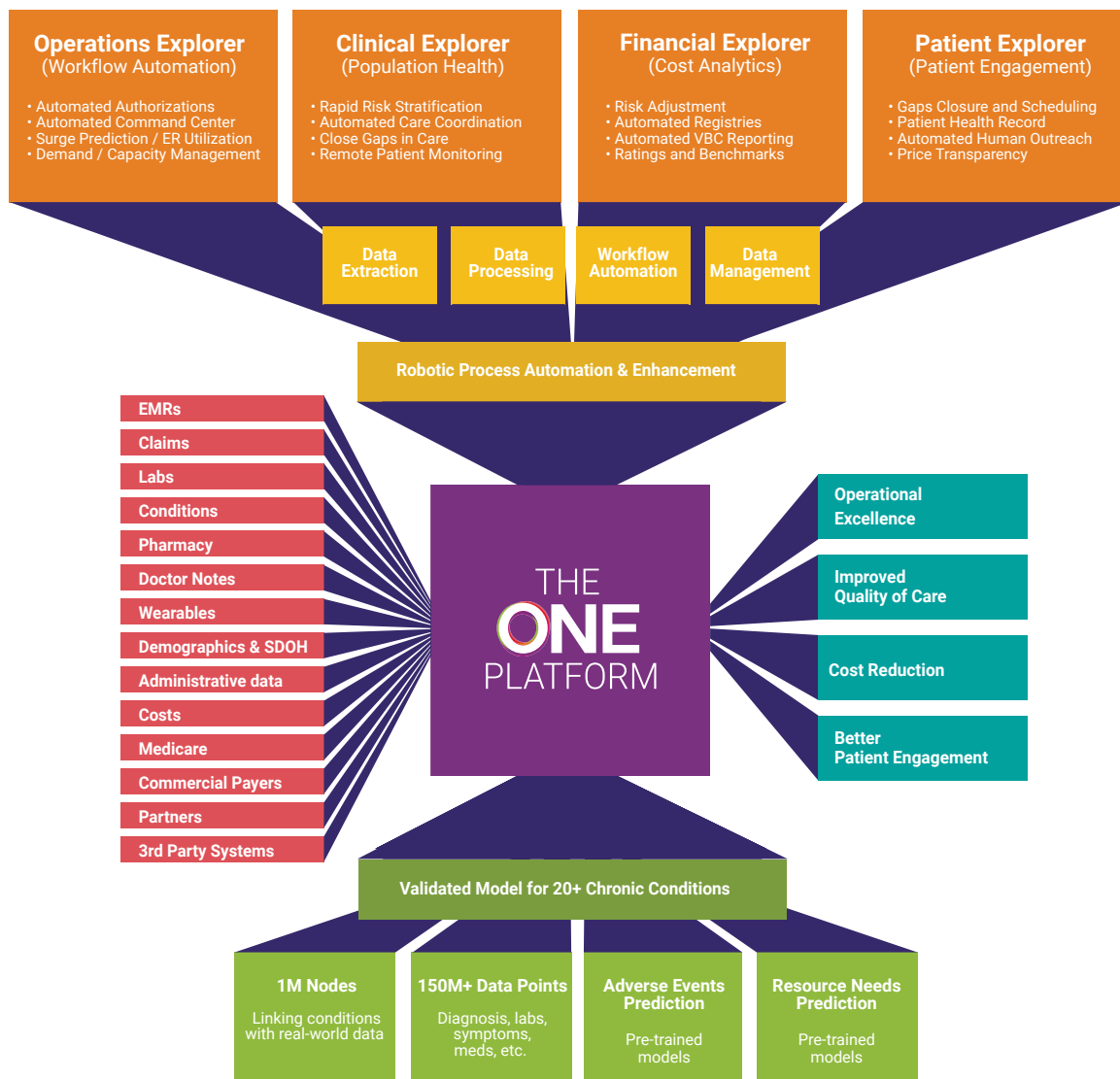
ONE aggregates and normalizes data from all your data sources (claims, clinical, labs, sensors etc.) and brings them into one unified patient record. Complete populations from multiple applications can now be accessed with a single data visualization layer resulting in superior patient outcomes and operational excellence. This is then powered by our algorithms for predictive analytics. It also allows you to deploy your own/other third party algorithms on top of it. With fewer portals and advanced analytics, we give you a new way to envision your workflows.

ONE is currently deployed with large healthcare organizations including health systems, payers, technology partners as well as our internal tools.

Overview

Aggregation, Automation and AI – all in ONE Platform

Explore all that goes into Healthcare-in-a-box:



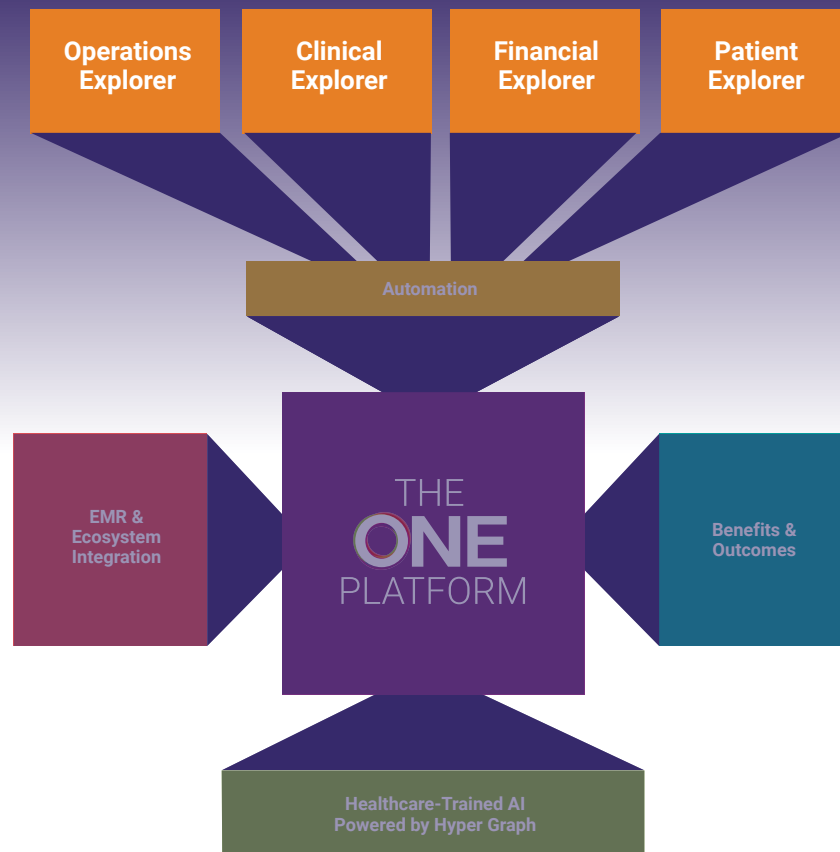
Key Features

- API Powered - so it can be easily integrated with existing systems and workflows
- Multi-Tenant Platform - to put in the right controls and access
- Healthcare Trained AI & Knowledge Graph
- Customizable Visualization - you can even white-label the solutions
- Fully Integrated (provider & payer workflows)
- Automated Data Pipeline - data cleaning, normalization and uploads are done in the background



Applications

Our suite of applications is the 'cherry on top' of The ONE Platform. Our Provider and Payer partners use them to modernize their workflows.



Applications for Providers

Operations Explorer: **Workflow and Robotic Process Automation**

- Automate workflows that allows staff to complete tasks in minutes vs weeks
- Automated command center for better communication between ED, ICU, lab, pharmacy, discharge, and other departments
- Surge prediction to assist with resource and staff planning (ED, ICU, Inpatient)
- Backoffice automation for prior auth, pre-auth, and documentation

Case Study: CloudMedx deployed Operations Explorer in a large IDN to predict ED surges, hire additional staff ahead of time, improve workflows and communication between various departments (ED, labs, etc.) to reduce the bottleneck on EDs (beds availability, staff shortage, wait times).

Result: To reduce work load on staff by 3X, and potential ED wait times by 5X

Clinical Explorer: **Population Health & Care Coordination using Automation**

- Rapid risk stratification to identify high risk patients early
- Automated care coordination and engagement protocols to reduce workload on staff
- Omni channel patient engagement (close gaps in care, CCM/TCM, and follow up)
- Remote patient monitoring to engage patients and gather device data for compliance and reporting

Case Study: CloudMedx deployed Clinical Explorer for a national health group to automate the management of 2M+ patients with chronic conditions. CloudMedx aggregated data from multiple silos into a single dashboard for over 20 chronic conditions and stratified patients by risk, adherence, SDOH, costs, readmissions, and other clinical and quality metrics.

Result: Reduced staff workload significantly and allowed them to access population health analytics. Helps to close gaps care, provide remote patient engagement, and reduce length of stays to generate accretive revenue

Financial Explorer: **Cost Analytics and Quality Reporting**

- Automate manual tasks to reduce burden on your staff for documentation and quality control
- Automate patient registry building that is required for quality reporting and compliance for COVID, Stroke, MSK, and other value-based care requirements (MIPS, MACRA, HEDIS, etc.)
- Automated risk adjustment reduces workload on staff

Case Study: CloudMedx deployed platform to automate reporting for provider group over 10 locations. Their team was processing 1M patient records manually and it took them months to process.

Result: CloudMedx processed 1M patient records in under 10 hours. Turn around documentation within 1 day and reporting within 3 days

Patient Explorer: **Better Engagement via Outreach and Personalization**

- Multichannel post discharge follow-ups (text, app, APIs, email, voice, call center)
- Managed solution and engagement for discharge planning and Remote Patient Monitoring
- Access to price transparency leads to increased trust and better decision-making
- Improved medication adherence, care coordination, and scheduled follow ups

Case Study: Large IDN wants to improve patient engagement around scheduling, medication adherence, and remote sensor reporting (weight, blood pressure, glucose, etc). CloudMedx is deploying against a large population to unify data from EMR, claims, pharmacy, and multiple sensor device (bp, pulse ox, weighing scale, etc.).

Result: CloudMedx is providing a unified dashboard view for care teams. Potential to increase revenue / patient by \$1100 / year for remote patient monitoring, reduce no-shows by 30% and increase medication adherence by 20%.

Applications for Payers

Operations Explorer: **Workflow and Robotic Process Automation**

- Automate workflows that allows staff to complete data management and manual tasks in minutes vs weeks
- Automated command center for better communication between case managers and members
- Heat maps and hot spot insights to identify disease prevalence, risk factors, costs, and outcomes
- Demand and utilization management (ER, hospitalizations, etc) and planning to assist forecasting

Case Study: Anthem needed to collect data from 50 states, 3500 counties, 3000 hospitals, and 15000 school districts and create a real time risk dashboard to optimally deploy resources to manage COVID-19 impact.

Result: CloudMedx and Anthem jointly launched a tool called C19 Explorer within 3 weeks. It provided a suite of tools for assessing COVID risks, SDOH, financial impact, and return to work policy making. Anthem was successful in delivering just-in-time resources where needed.

Clinical Explorer: **Population Health & Care Coordination**

- Rapid stratification to identify high risk patients early
- Automated care coordination and engagement protocols to reduce workload on staff
- Omni channel patient engagement and remote patient monitoring

Case Study: CloudMedx deployed Clinical Explorer for a national health group to improve the management of >2M patients with chronic conditions. CloudMedx aggregated data from multiple silos into a single dashboard for multiple chronic conditions and stratified patients by risk, adherence, SDOH, costs, readmissions, and other clinical and quality metrics.

Result: Deployed within 1 month, Reduced staff workload significantly and allowed them to query results in seconds vs hours. Potential to close gaps in care, provide remote patient engagement, reduce readmissions, and length of stays.

Financial Explorer: **Cost Analytics and Quality Reporting**

- Automate manual tasks to reduce burden on your staff for data gathering and quality control
- Financial and cost of care analytics to highlight areas of improvement
- Automated risk adjustment and outreach that reduces workload on staff

Case Study: A large payer wanted to analyze their data to highlight excessive CHF readmissions in different geographies and associated costs so that case managers could focus on high-risk patients post discharge and reduce costs.

Result: CloudMedx identified millions in avoidable costs due to readmissions in CHF by analyzing 2 million patients' readmissions across multiple years. Using CloudMedx's ONE Platform, the organization was able to unify multiple disparate databases and deliver key insights to deliver just-in-time resources.

Patient Explorer: **Better Engagement via Outreach and Personalization**

- Multichannel post discharge follow-ups (text, app, APIs, email, voice, call center)
- Managed solution and engagement for RPM patients
- Access to price transparency leads to increased trust and better decision-making
- Improved medication adherence through omni-channel engagement

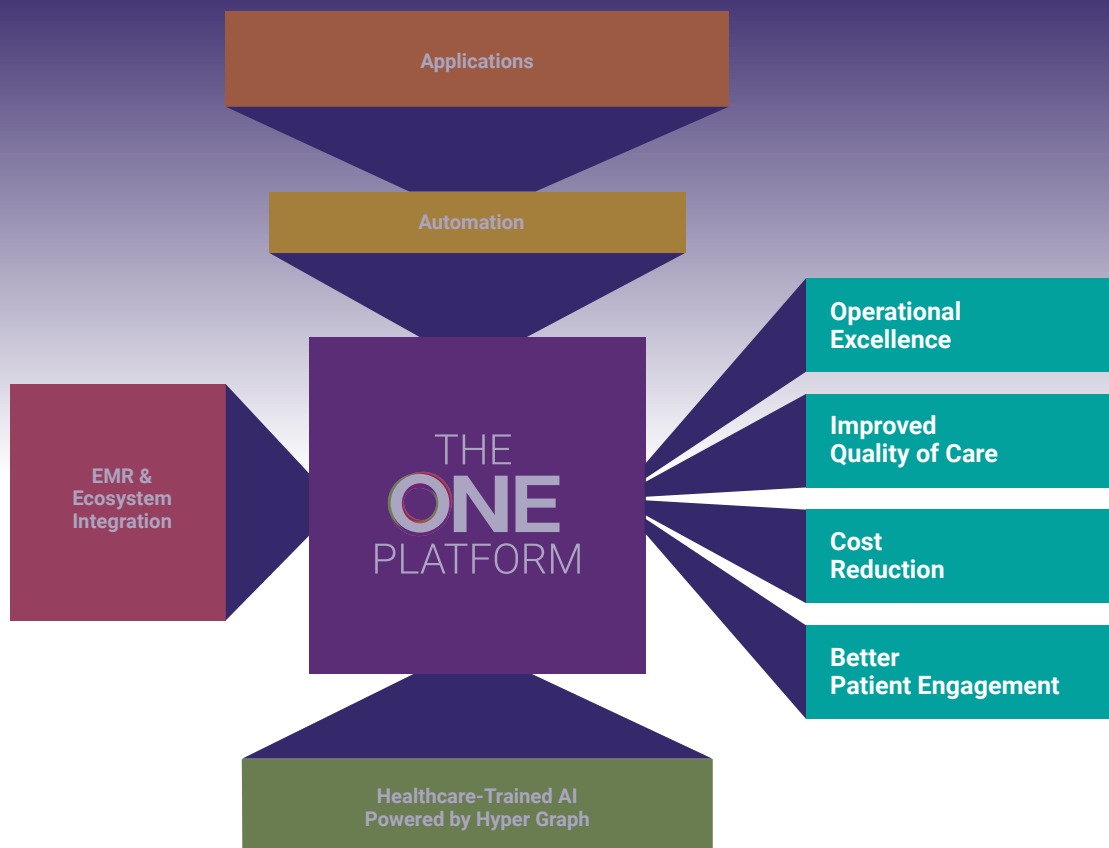
Case Study: A payer organization needs a robust patient engagement solution that caters to member steerage, reduce no-shows, provide price transparency, and member advocacy to guide patients to high quality care and improved outcomes.

The CloudMedx solution highlights geographies, population groups, and individuals with high costs and prevalence. It also assists care teams in targeted outreach to improve member experience and reduce costs.



Outcomes and Benefits

ONE Platform's automation and predictive analytics is transformative, improving operations, bottom line, quality of care and patient engagement.



Outcomes and Benefits



Cost Reduction & Added Revenue

Automation and Predictive Analytics to Improve the Bottom Line

- Automate manual tasks to reduce burden on your staff
- Plan better by predicting adverse outcomes and plan next steps accordingly
- Capture additional revenue that limited resources could not help capture

Operational Excellence

Streamlined data flow and automation to Improve Operations

- Complete tasks in minutes that would take weeks – via workflow and data automation
- Improved workflow and data flow via better communication and notification systems
- Improved Resource Planning via predictive analytics
- Improved IT throughput with a managed platform
- Realize ROI on existing systems with reduced data fragmentation

Better Patient Engagement

Omni-channel engagement and personalization improves outcomes

- Multichannel post discharge follow-ups
- Managed solution and engagement for RPM patients
- Access to price transparency leads to increased trust and better decision-making
- Personalized insights lead to better engagement
- Improved medication adherence through omni-channel engagement

Improved Quality of Care

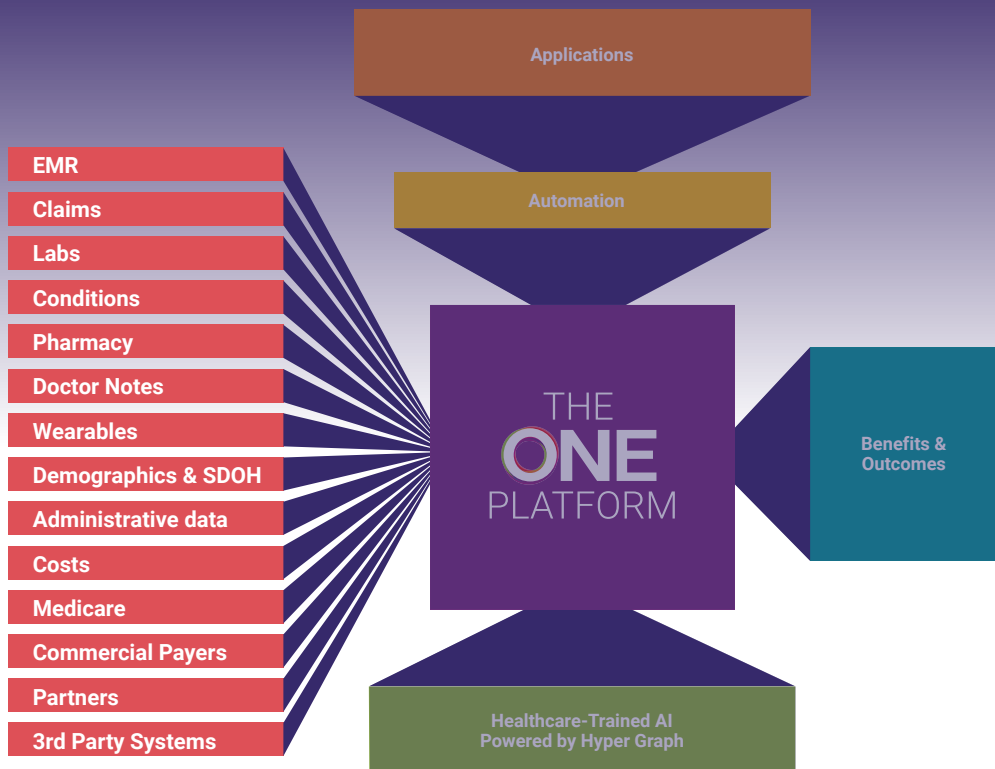
Care is drastically improved as providers can now truly focus

- Freeing up staff from manual repetitive tasks allows providers to focus on patients
- Personalized insights help with providing better care for patients
- Engaged patients leads to better outcomes

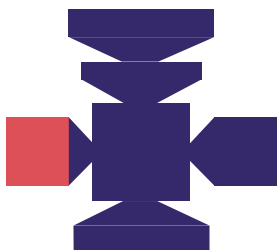


EMR & Ecosystem Integration

The ONE Platform provides out of the box connectivity to EMRs, Claims, Payments, Rx, financial systems and any other source with structured or un-structured data.



EMR & Ecosystem Integration



APIs that can handle high data demands

Our APIs can sync and ingest massive sums of structured and unstructured data directly from EMRs, data warehouses, labs, your current technology partners and your own proprietary sources. We do all of this within your existing infrastructure. We also power your data with external datasets. This includes nationwide data on SDOH, cost of care, readmissions, environmental impact, risk factors etc.

Unstructured data is seamlessly integrated and put to work

CloudMedx's ability to drive meaning from unstructured data (doctor notes, discharge summaries, patient-reported outcomes etc.) gives visibility in your patient population even further and assists in automating 80% of the manual administrative work.

Data Formats

Some of the different formats in which we are receiving the data include: CCD, FHIR, HL7, PDFs, XMLs, CSVs, JSON, RDF, USCDI, SCRIPT, CDISC

With CloudMedx, you can expect seamless integration and a significant upgrade to your current structure.

Data-as-a-Service

Our data-as-a-services helps enrich your existing datasets

We have nationwide data on procedure and drug pricing, hospital readmissions, provider ratings, member co-pays, cost of care for various chronic illnesses, prevalence of 20+ chronic conditions, dozens of social determinants of health factors, and much more. All of this data is available as APIs and can be easily integrated within third party systems.

Deployments at scale with 99.9% uptime

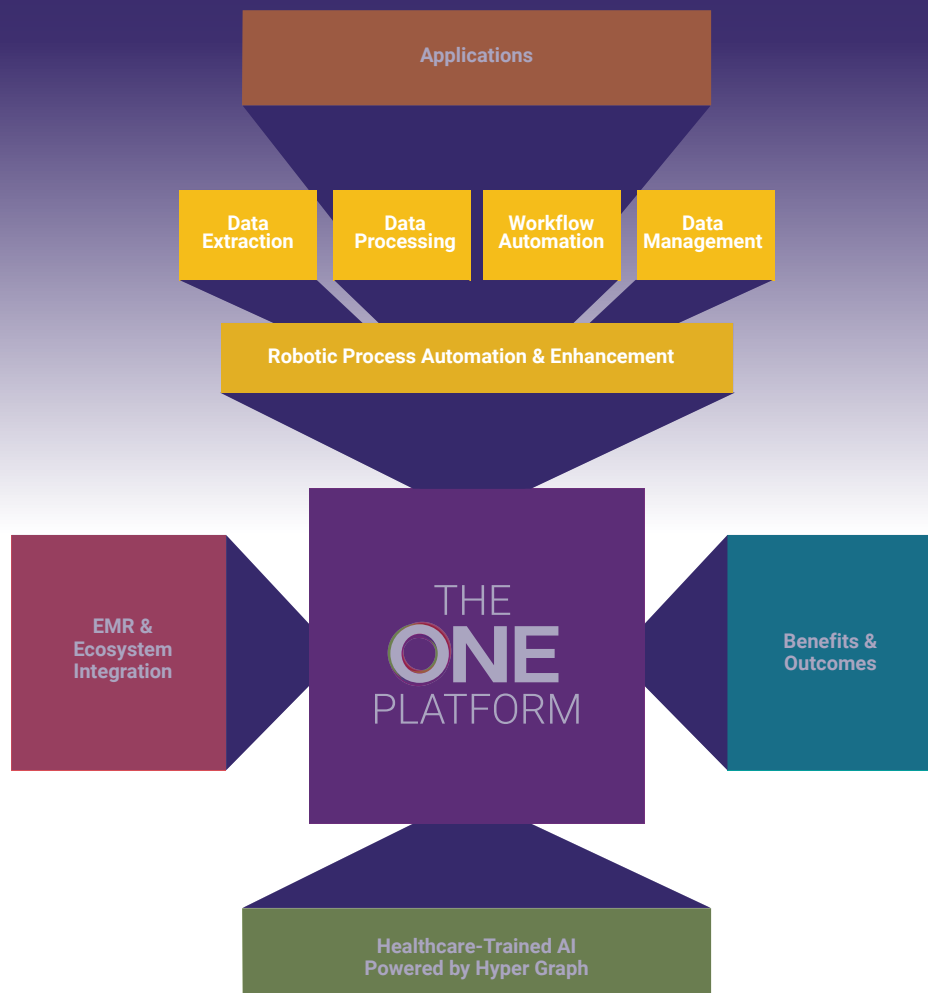
CloudMedx launched a multi-engine resource management tool with a large payer that is aggregating data from sources representing 50 states, 3500 counties, 3000 hospitals, 4500 schools, 30,000 pharmacies, Medicare, and other private payers among other data sources to create a real time risk dashboard for operational insights

The tool is being use by Governors, State and County Offices, and Fortune 50 Employers in assessing risks, financial impact, and return to work policy making.

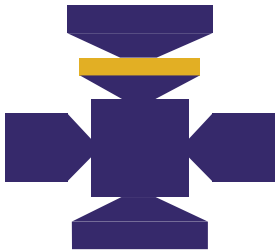


Automation

The heart of The ONE platform is our AI engine that connects all the other facets. It uses what we call 'Aligned intelligence'. It's designed to work with you for demand, capacity, and resource management, plus support of various kinds.



Automation



One interface: Less is more.

CloudMedx unifies all data sources and partner platforms into a single interface that allows organizations to analyze individual patients and populations.

Step-change efficiencies

We offer a truly managed service powered by automation that does data extraction, normalization and management for you. This reduces FTE fatigue, limits data fragmentation, and allows your IT teams to focus on business demands and outcomes while significantly reducing your workloads and overall cost (in some cases by 1/3).

By leveraging built-in capabilities and using our healthcare trained AI, it is easy to stitch together complex healthcare workflows. We can enable out of the box automation that assists with ER flow management, Surge Prediction, Staffing needs, Demand & Capacity Management, Prior Authorizations, Scheduling and Back-Office support.

Automated data ingestion

Example 1 - Structured Data Processing from multiple sources:

CloudMedx Automated Data Ingestion APIs process 5M+ data points every night. This represents nationwide data from 50 states, 4000 counties, 3000+ hospitals, 15000 pharmacies, Medicare and other payers sources. The system performs ETL, Normalization, and updates the ML models that power the visualization dashboards for C19 explorer (a Covid-19 Dashboard) every night.

All this happens through automation and AI with no human oversight.

Example 2 - Un-structured data processing from multiple sources:

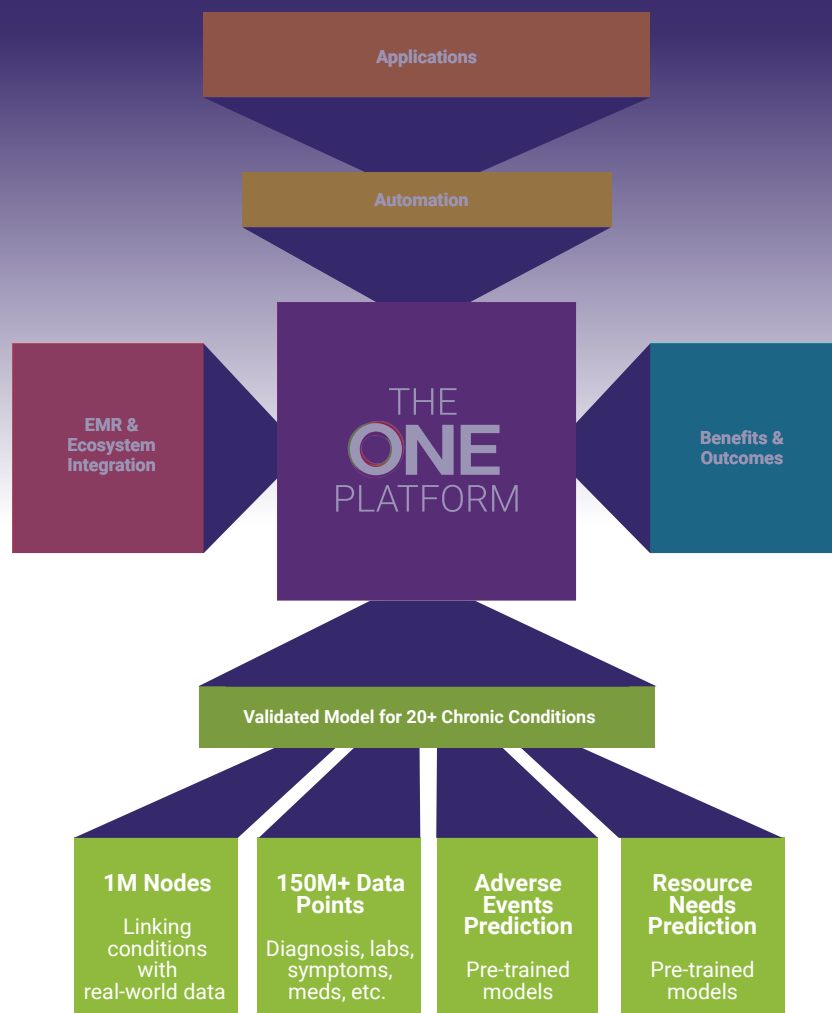
CloudMedx's NLP Engine automatically extracts key medical and non-medical terms from unstructured text to automate reporting for provider groups. To process a million records, it takes 100 people a year to extract these terms. - manually it takes 1 hour to complete 5 records, per person. With automation, it takes a minute to process 500 + records.

In our deployments, we are seeing a higher accuracy of extraction when compared to manual extraction.



Healthcare-trained AI

Gyrus, our AI Brain is powered by Hypergraph. It consists of medical concepts driven by medical literature and data sets curated by machine learning. We have 20+ pre-trained models.



Healthcare Trained AI



1 Million Nodes

Gyrus has over a million nodes representing diseases, signs, symptoms, medications, procedures, SDOH, gender, income, demographic data extracted from clinical datasets. It is continuously updated from new data.

Target diseases include 20+ chronic conditions - including diabetes, HTN, CHF, COPD, Asthma, CKD, musculoskeletal issues, cancer.

150 Million+ Data Points

Gyrus is unique as it is built with the best of both worlds - medical literature and real-world data curated by machine learning. Gyrus is continuously learning and the data set is growing. With millions of records to learn from, it gives a good understanding of individual and population level risks and outcomes from nationwide data for every age group.

Based on an individual's medical and non-medical risk factors, Gyrus outputs a set of possible medical conditions, costs, readmission risk, best practice alerts, and recommendations, gaps in care, etc.

Adverse Events Prediction

We have pre-trained models to predict adverse events. These include everything from survival risk prediction to readmission and length of stay predictions. We have models for chronic conditions as well as rare diseases.

Our algorithms are validated by our partners that have published papers in journals that talk about the efficacy of CloudMedx AI. We have dozens of pre-trained models.

Descriptions and whitepapers here: <https://cloudmedxhealth.com/whitepapers/models>

Resource Needs Prediction

We have a number of pre-trained models that predict resource needs in the near-term or longer-term foreseeable future. These include everything from surge prediction to resource needs predictions. These models work for both providers and payers so that they can plan better in advance.

These models focus on delivering organizational efficiencies which can help improve throughput and reduce delays and staffing costs.

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