



*It was our pleasure meeting you at*  
**NERDS 2025**



< Click to learn more.

*We look forward to partnering with you.*



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for updates, breaking news,  
& tricks of the trade.



**CMA**

# NERDS 2025

## DATA ANALYTICS

Activation & Governance

*April 7, 2025*





# Session Goals



## Analytics Activation & Governance

- *CMA will demonstrate its solution to safely, and securely, promote advanced analytics for Medicaid:*
  - Mosaic Insights
  - Mosaic Answers

## We will be demoing:

- Challenges Facing Medicaid CIOs
- Data Curation:
  - Fabrics & Publications
- Data Governance:
  - Secure Access & Provisioning
- Data Analytics Labs & Tools
- AI for Data Literacy & Code Generation



# Session Leaders



**Gary Davis**  
Executive Vice President



**Jeff Wendth**  
Vice President,  
Healthcare Solutions



**Joe Kelly**  
Vice President,  
Corporate & Client Strategy



**Chris Maggiore**  
Deputy Project Director,  
Medicaid Analytics & Artificial Intelligence




CMA designs, develops, & maintains contemporary, tailored architecture & applications that integrate within an array of environments, ranging from on-prem data centers to cloud & mobile-based platforms.

### Solutions

 Integrated Client-Centric Software Development to Advance Your Business Objectives


### Talent

 Aligning Your Business Structure and Mission with Highly Experienced Talent

### Products

 Project Oriented Expertise to Rationalize and Modernize Your Data Infrastructures

### Partnerships

 Strategic Partnering Featuring Best-In-Class Data and Analytic Software Tools



# CMA Consulting



*Founded in 1984 to meet the evolving challenges of organizations that depend on leading-edge IT products and services.*

*Specializing in Providing High-End Analytics Services – Extensive Experience Delivering Data Warehousing and BI Solutions*

## Solutions that Span and Optimize Relationships Between Infrastructure and Platforms

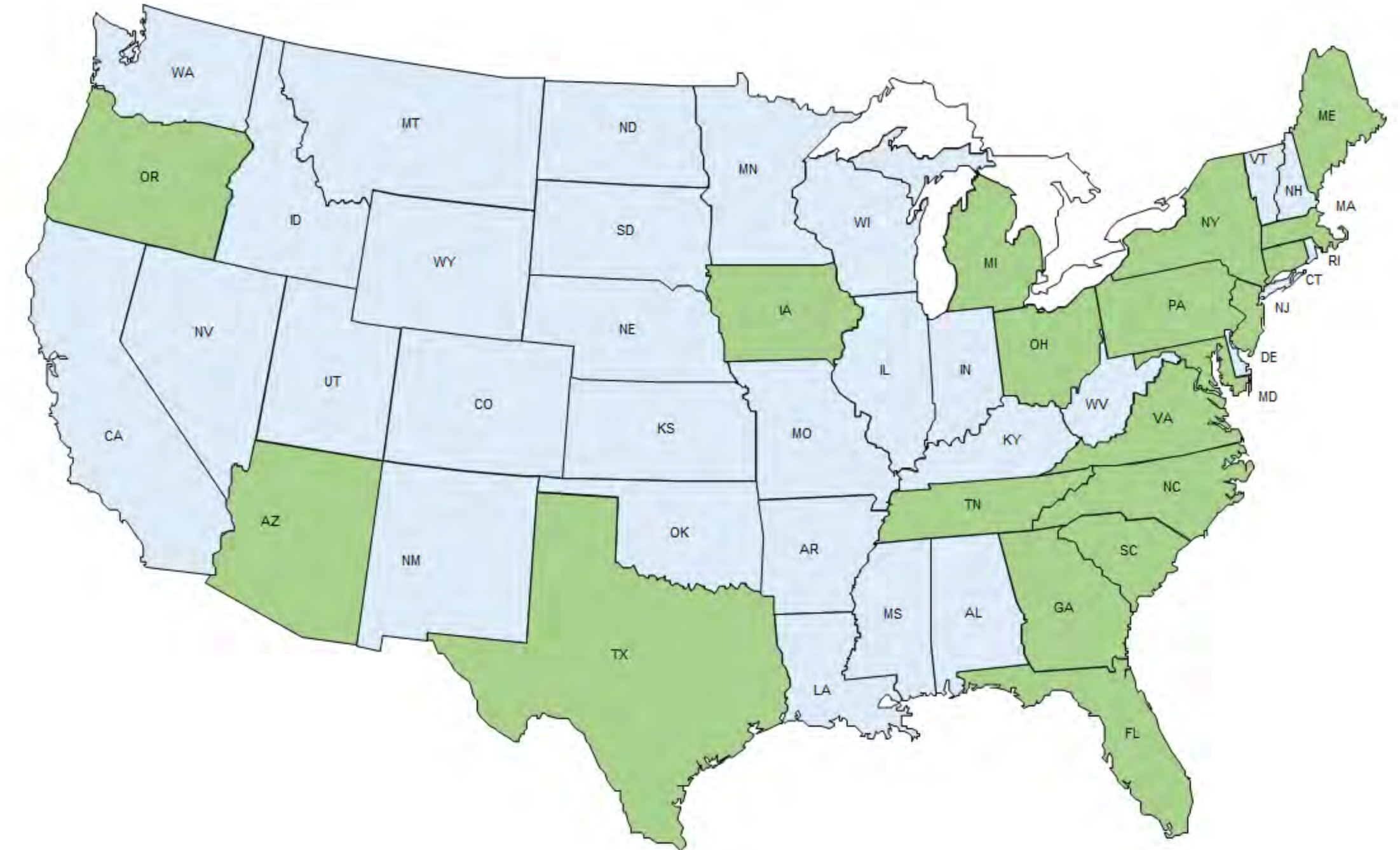
- Products Have Been Proven by Large-Scale Use Within Finance, Healthcare and Public Sector Domains
- Supporting Thousands of Users, Petabytes of Data, and Best-in-Class Analytics Products
- Multi-Cloud Environment, Anchored in GCP

## Corporate Headquarters: Latham, New York

- Geographic Presence (Columbus, OH; Tallahassee, FL; Trenton, NJ; Washington, DC; Phoenix, AZ; New York, NY)
- Experienced Leadership Team – 30+ Years of Experience
- National Go-To Partner with Google for Public Sector Healthcare

## Corporate Focus

- Mosaic Product Line
- High-End Analytics Professional Service
- Systems Integration/Business Solutions



 CMA Engagement Areas



# Session Leader



**Jeff Wendth**  
Vice President,  
Healthcare Solutions

## Medicaid Transformation

## **Focused on Medicaid and Health & Human Service Programs**

- Medicaid Program, Technology, and Data Experts
- Mosaic Suite as an Enabler and Accelerator

## **30+ Years Medicaid Experience**

- Medicaid Program, Technology, and Data Experts
- Building Large-Scale Medicaid-Centric Data Warehouses, Data Marts, and Advanced Analytic Systems

## **Medicaid Analytics Client Success Stories**

[Helping NYS Achieve #1 Ranking in Medicaid Fraud Detection and Recovery – CMA](#)

[Ohio Medicaid Selects CMA for Pharmacy Analytics Roadmap – CMA](#)

[DSRIP and Value Based Payments in NYS Medicaid Analytics – CMA](#)

[Medicaid Data Warehouse Planning for Washington, DC – CMA](#)

[Enterprise Data Warehouse Development for NYC HRA – CMA](#)

[Critical Relief for Healthcare Providers in New York State – CMA](#)

## Medicaid Data Warehouse Engagement

### Enhance Operational Performance

- Develop and Deploy New Medicaid Data Warehouse (MDW)
- Orchestrate the Flow of Data Between the MDW and Downstream Data Marts

### Enable Programmatic Transformation & Redesign

- Data Enrichment & Analytics for 11115 Waivers (DSRIP, Health Equity)
- Developed and Deployed – *Medicaid Analytics & Performance Portal (MAPP)*
- Integrate the State's – *Health Homes Case Management System*
- Data Enrichment & Analytics – *Value Based Payments*
- Developed *Health Care Worker Bonus & Retention System*
- Deploy Mosaic Insights & Mosaic AI for Internal/External Data Governance

## Our Data-Driven Impact in Medicaid (Illustrative)

### DSRIP:

- ✓ Potentially Preventable Events: **25% Reduction** – 28 Regions
- ✓ Potentially Preventable Admissions: **38% Reduction** – 5 Regions
- ✓ Potentially Preventable Re-Admissions: **25% Reduction** – 11 Regions
- ✓ PMPY Costs: **10% Reduction** – statewide
- ✓ Calculation of Incentive Payments: **\$6.8 Billion**

### VBP:

- ✓ Performance Metrics Enabling Shift from FFS to MMC: > 80% of Enrollees
- ✓ Analytics & Workflows to Address High-Cost Cell & Gene Therapies



# Session Leader



**Joe Kelly**  
Vice President,  
Corporate & Client Strategy

## Medicaid Transformation

### Medicaid Analytics & Artificial Intelligence



# New York DOH Medicaid Data Warehouse – Metrics



## CMA Understands Enterprise-Scale

### Databases: -

Number of Oracle database RAC clusters = **80**

(Dev, QA and Production)

Number of tables in MDW production database = **1005 tables**

Number of rows in all claim tables in MDW production database = **133.7 Billion rows**

Examples of few of the large tables:

Claim\_Trans = **15.4 Billion rows**

Claim\_Proc = **9.7 Billion rows**

Claim\_Shares = **20.6 Billion rows**

Claim\_DX = **29.1 Billion rows**

Number Vertica database clusters = **20**

(Dev, QA and Production)

### Storage: -

Overall storage allocated in MDW = **1.8 PB** approximately

Storage allocated to Oracle RAC databases = **470 TB**

Storage allocated to Vertica databases = **1010.50 TB**

### Data Movement Jobs: -

Number of ODI Jobs: **600 Weekly** & **75 Daily**

Number of ETL jobs: **18000 Weekly** & **2500 Daily**

Number of ETL jobs processing inbound files **6000 Weekly** & **800 Daily**

### MDW:

Number of user provisioned to MDW = **2082**

Power Users = **963**

Business Users = **753**

Casual Users = **310**

Executive Users = **35**

Number of application supported in MDW = **13**

Number of external organizations supported by MDW

Agencies = **25**

Counties = **57**

Number of organizations served with Data Delivery = **50**

Number of VPD security policies implemented in Oracle databases = **814**

Number of security access policies implemented in Vertica databases = **279**

Number of users provisioned to access **OHIP** databases:

**HPDW Oracle database = 182 users** **HPDW & HPET Vertica databases = 373 users**



Department of Health

\*All text. Not video, images, etc.

# Demands on Medicaid CIOs



- **Ever-Growing List of Data Consumers**
- **Concerns Over PHI Leakage & DCE Controls**
- **Limited Capacity**
- **Shrinking Budgets**
- **CMS Push to Develop Interoperable Systems**
- **Demand for Cloud-Scale Data Analytics**
- **High Expectations Around AI**



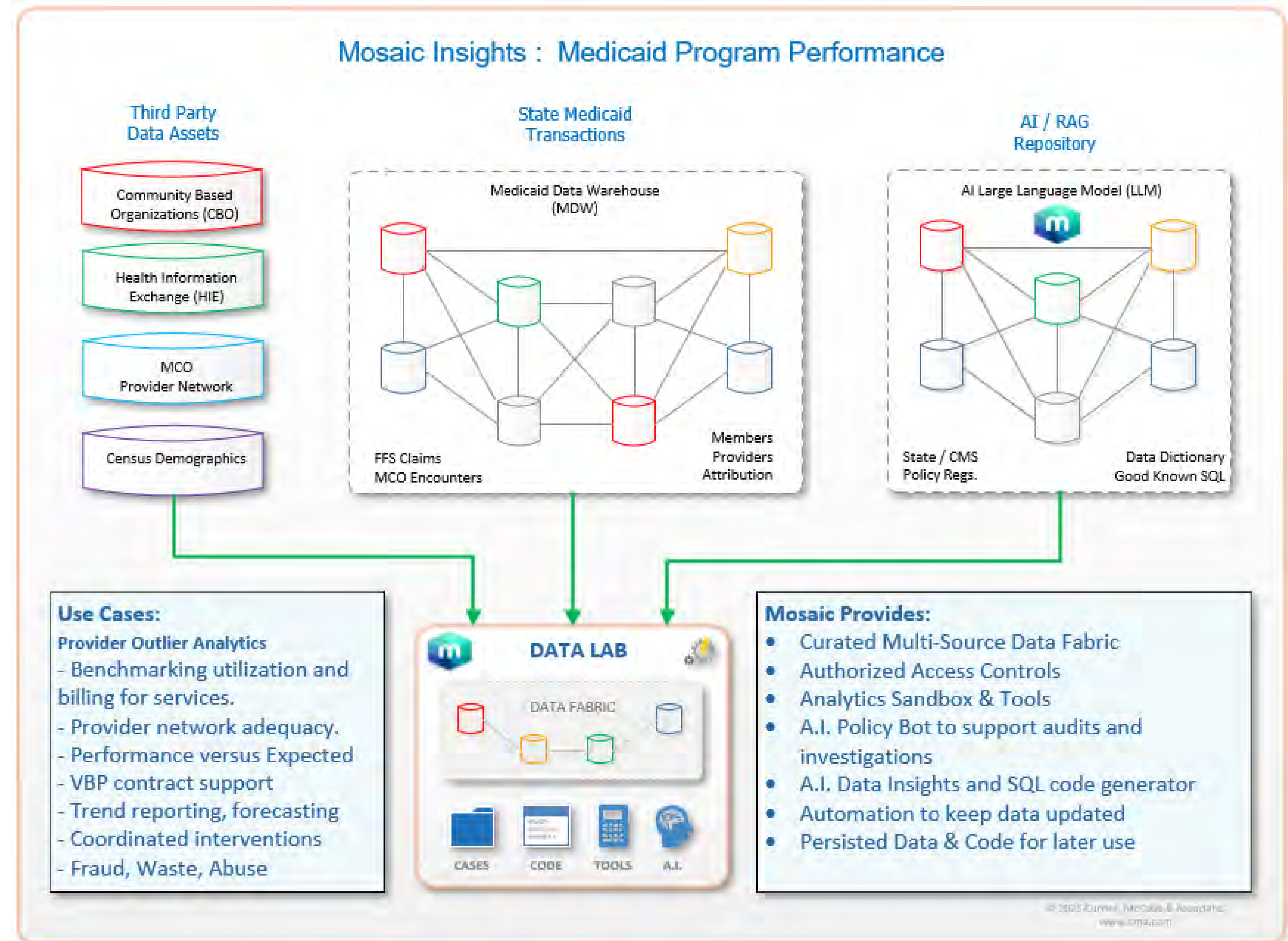
# Mosaic for Medicaid Program Efficiency



## Demo Scenario:

*Which providers have unusual claim volume?*

- Identify & Source Data Needed
- Provision That Data
- Perform Analyses
- Share Results





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**Chris Maggiore**

Deputy Project Director,  
Medicaid Analytics & Artificial Intelligence

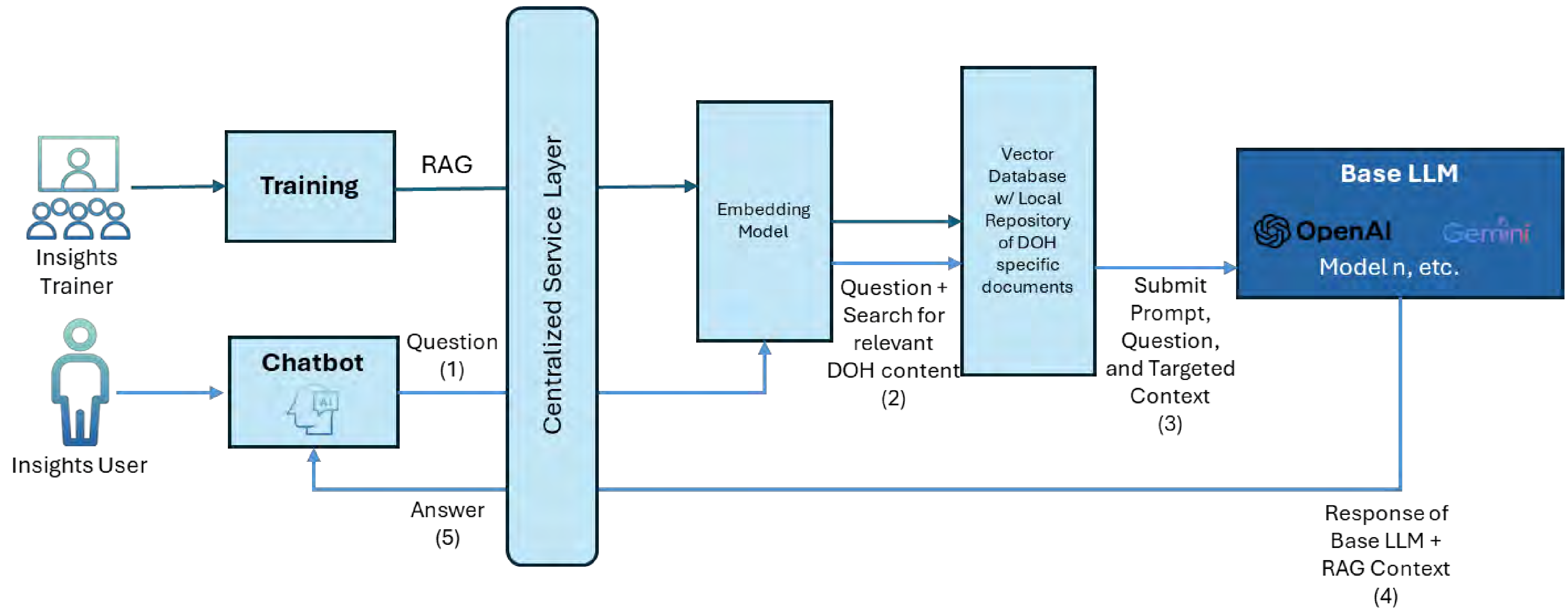
## **DEMO: Mosaic AI** Medicaid Analytics & Artificial Intelligence



# Training + Technology = Actionable Analytics



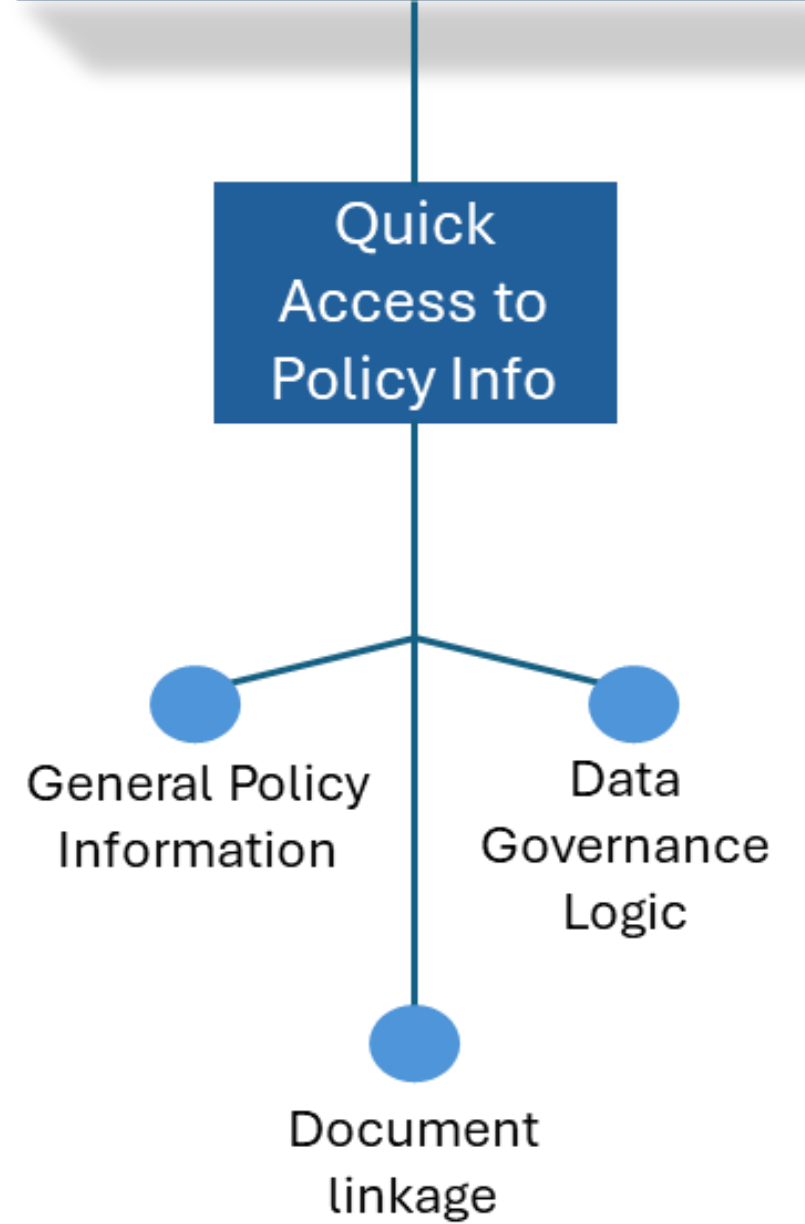
## RAG, Base LLM



# AI – User Base – Mosaic Products

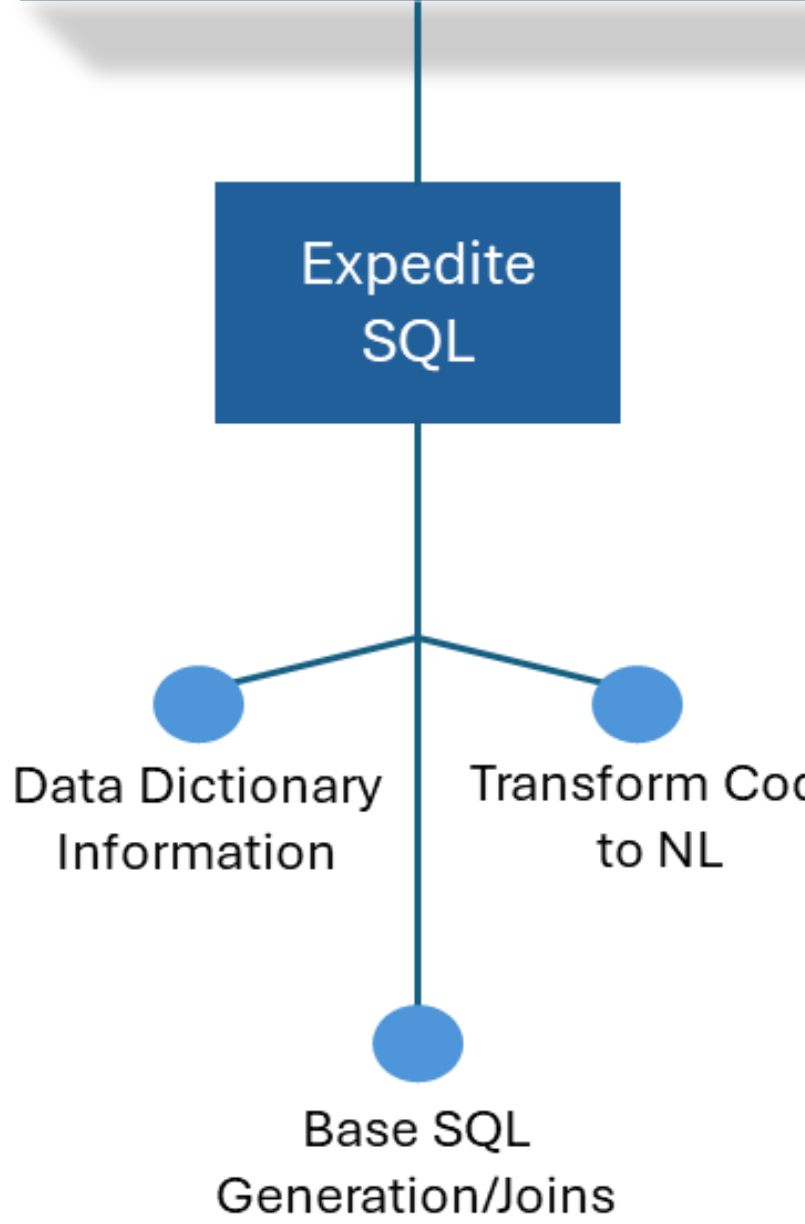


## Knowledge Workers



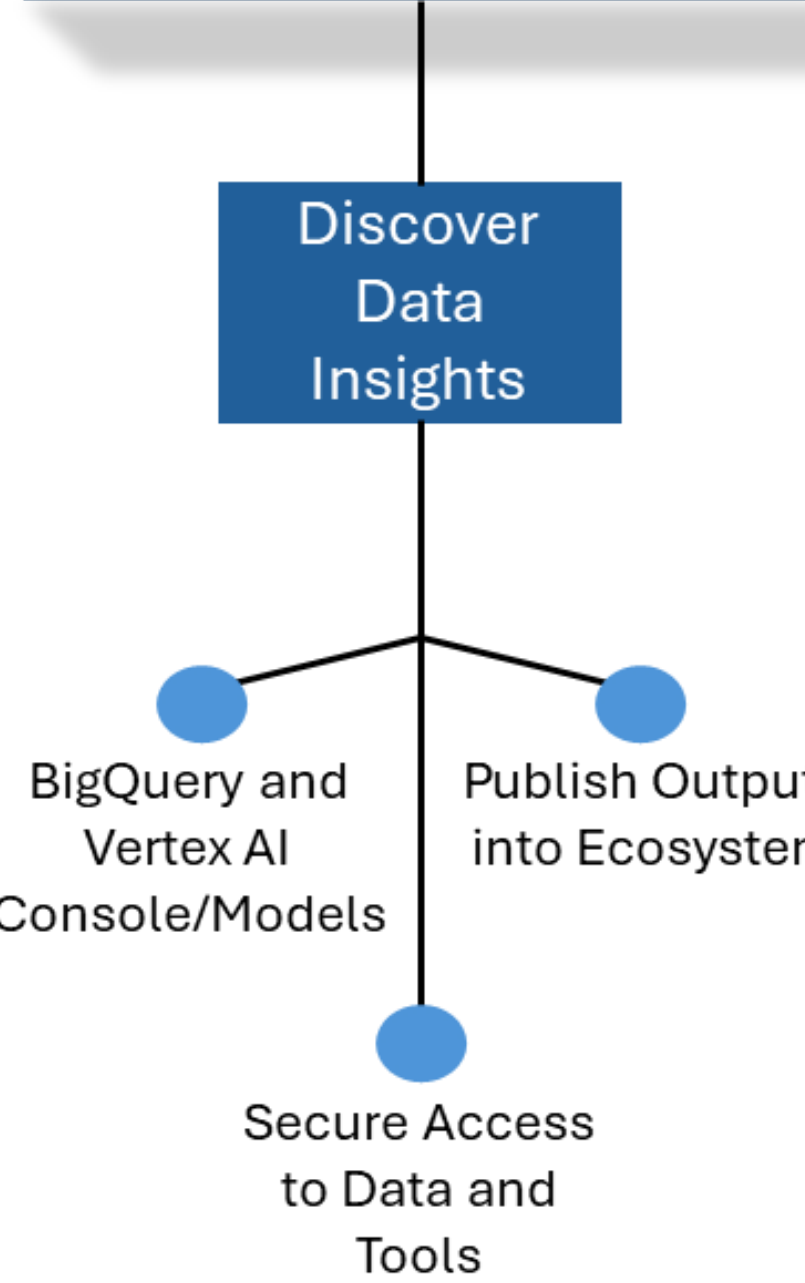
“Ask Questions, Get Answers”

## SQL Analysts



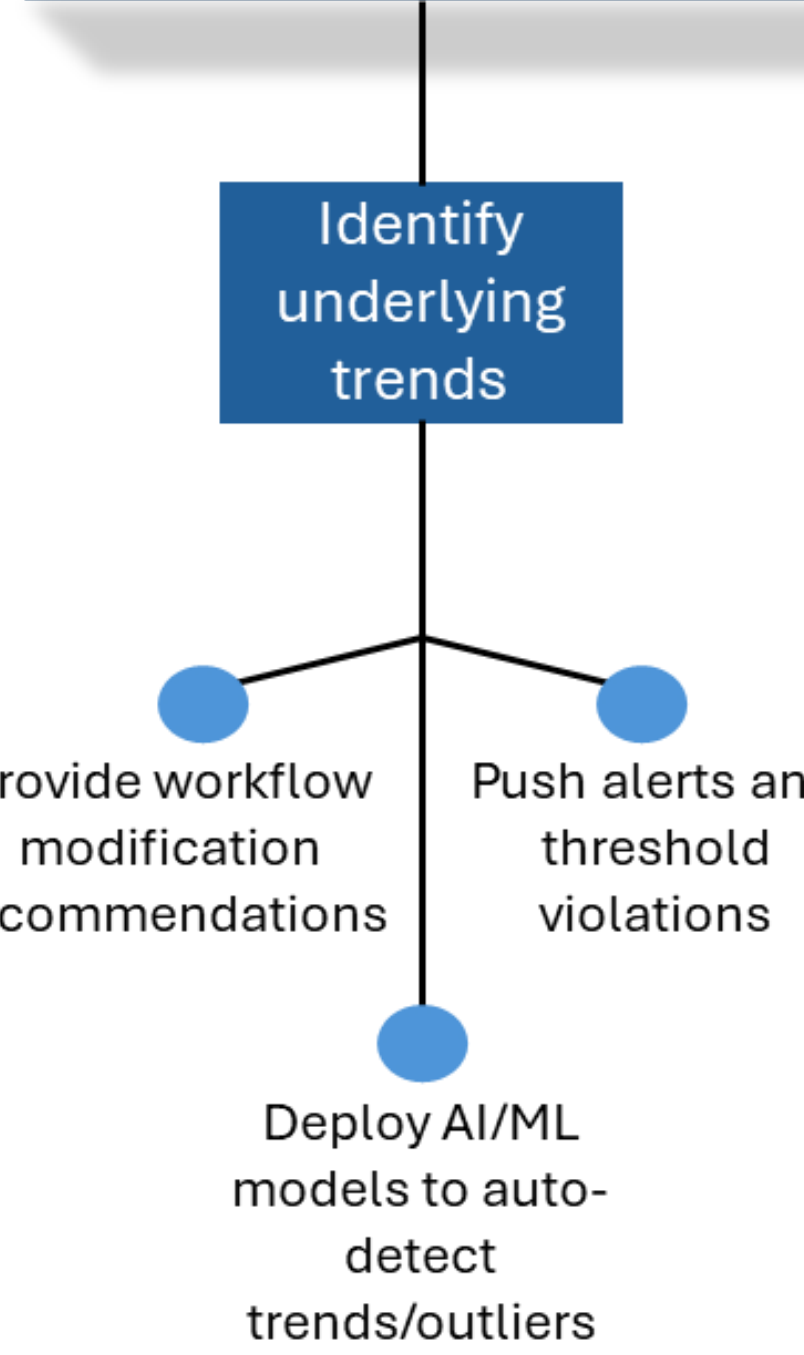
“Improve Worker Productivity”

## Data Scientists



“Tools and Data Co-Located”

## Automated Inference/Pattern Detection



“Value Out of Data – 24/7”

High probability that all analysts:

- Get the *same answer* from the same question.
- Get the same answer to the same question *fast*.
- Get the same answer fast and *consistently*.
- Can support the same answer consistently with *documentation*.



***Dependable***



***Fast***



***Consistent***



***Verifiable***



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**Joe Kelly**  
Vice President,  
Corporate & Client Strategy

## DEMO: Mosaic Insights Medicaid Analytics & Artificial Intelligence

# Mosaic Demo – Recap



- Universal Data Inventory
- Hybrid Data Fabric
- Data Publications
- Data Workspaces
- GCP Model Lab
- AI Integrations
- SSP Approved

— CMS ARS/NIST 800-53

— SOC2 Type II

