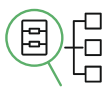# Promethium Instant Data Fabric for Self Service Analytics

Empower data teams with seamless, real-time access to insights through a unified and governed data platform.

Promethium's Instant Data Fabric transforms how organizations access and utilize data by enabling seamless, self-service analytics. By unifying data from on-premises, cloud, and hybrid environments into a single, governed layer, Promethium empowers business and data teams to instantly connect, discover, and analyze data without the need for complex data movement or manual intervention. This approach not only accelerates insights but also democratizes data access, making analytics intuitive and accessible for everyone while maintaining enterprise-grade governance and security.
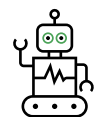
Key Benefits

Seamless Data Integration Across Environments
Promethium's Instant Data Fabric unifies data across on-premises, cloud, and hybrid sources into a single, governed layer. This eliminates data silos and ensures instant, secure access to all data without needing to move or copy it, simplifying data integration and enhancing agility.

Accelerated Self-Service Analytics
Empower business and data teams with intuitive, self-service access to data and analytics. Promethium's approach allows users to connect, discover, and analyze data quickly, reducing reliance on IT and speeding up data-driven decision-making.
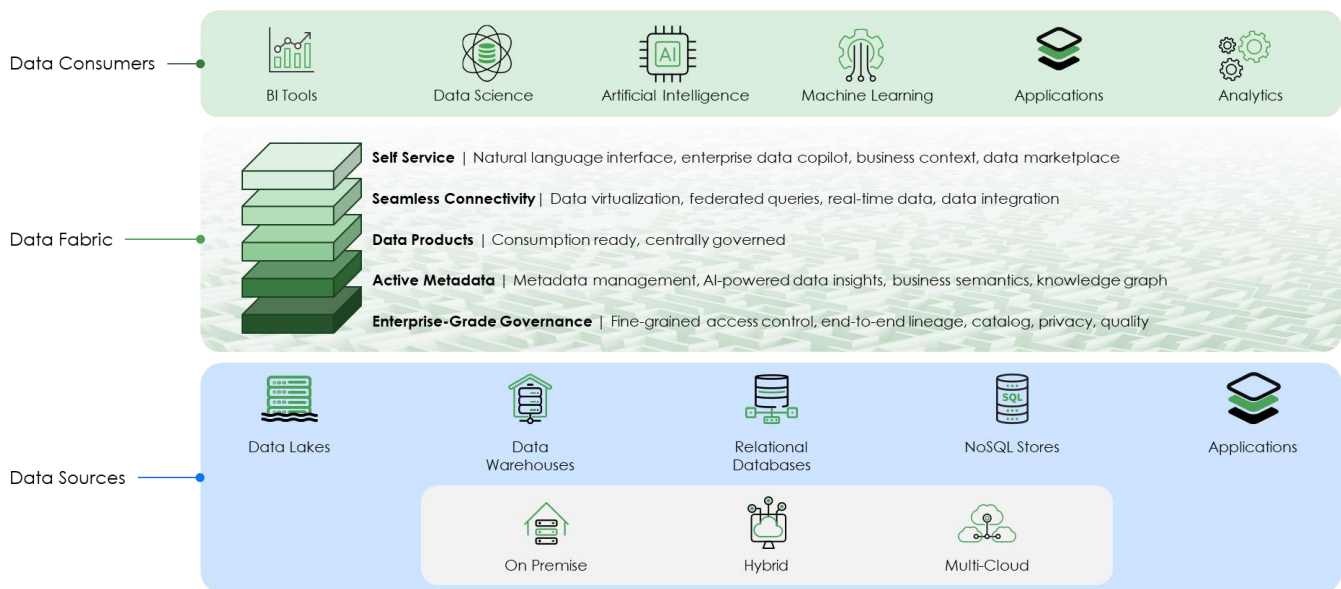
Making Generative AI for Data Analytics a Reality
Promethium enables Generative AI for data analytics by providing accurate, context-rich, and governed data, delivering trustworthy and fully explainable outputs. This ensures trust in AI for data exploration, natural language querying, and advanced analytics.

From Data Fabric to Instant Data Fabric

A data fabric is an architectural framework designed to unify data access and management across distributed environments. It connects disparate systems – whether on-premises, in the cloud, or hybrid setups – without requiring extensive data movement or duplication. By providing a unified view of data, it simplifies workflows, improves accessibility, and ensures governance across the organization.
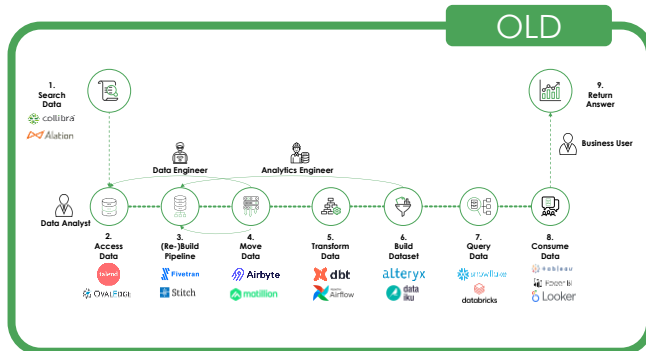

Unlike traditional architectures, a data fabric doesn't rely on centralizing all data in one location. Instead, it integrates with data where it resides, enabling teams to access and use it in real-time. This decentralized approach is essential for modern use cases, where agility, speed, and scalability are critical.

However, implementing a traditional data fabric often comes with significant challenges. Complex integrations, lengthy deployment times, and ongoing management requirements can make it difficult for organizations to realize its full potential. Promethium's Instant Data Fabric addresses these challenges head-on, providing a turnkey solution that delivers value immediately. With out-of-the-box capabilities like metadata enrichment, semantic modeling, and seamless governance, Promethium eliminates the complexity of traditional approaches, enabling organizations to leverage their data faster and more effectively.

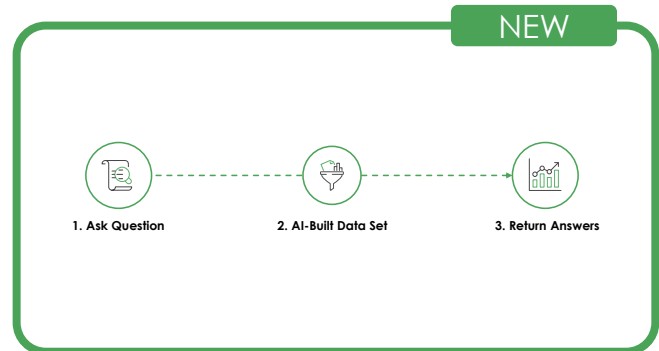## Promethium's Question-Led Approach to Data Analytics

Data-centric Approach:
Always ETL/ELT Massive Amounts of Data

Question-centric Approach:
Answer First. Move Just What's Needed…

- ✗ Slow process, delaying business insights
- ✗ Duplicates data, inducing storage and quality costs
- ✗ Tool sprawl reduces operational agility

- ✓ Faster insights with no data movement
- ✓ Reduces cost by avoiding duplication
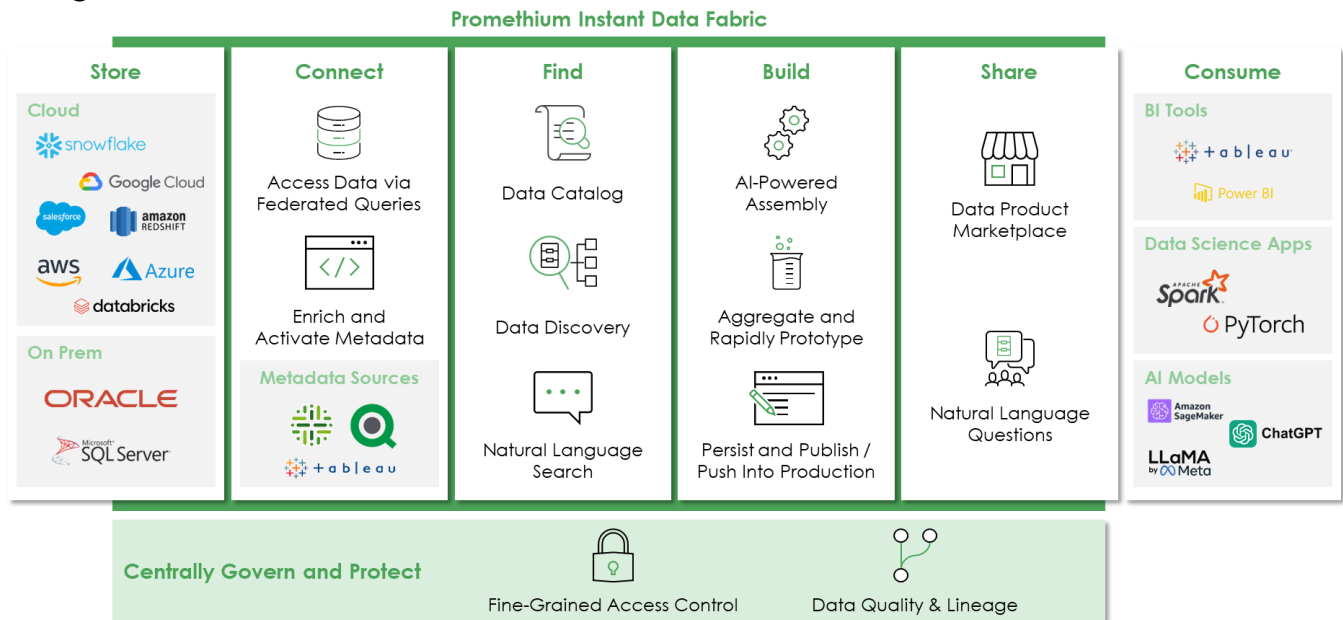- ✓ Empowering self service with a single tool

Traditional data architectures operate on a **data-centric approach** – move massive amounts of data into a single location and figure out its use later. This method is slow, costly, and inefficient, especially for Generative AI, which demands speed and precision. The **question-centric approach**, championed by Promethium, flips this model:

- **Answer First**: Start with the question and determine only the data needed to answer it, saving time and resources.

- **Move Only What's Necessary**: Eliminate unnecessary data movement, reducing storage and processing overhead.

- **Efficiency for 2025 and Beyond**: This approach aligns with the demands of modern AI workflows, making it more efficient and future-ready.

Promethium's Instant Data Fabric takes the question-centric approach to the next level by providing a turnkey, out-of-the-box solution that eliminates the complexity of traditional data architectures. Unlike patchwork systems that require extensive integration and customization, the **Instant Data Fabric** is ready to use from day one, delivering immediate value. With its unified platform, Promethium seamlessly connects to distributed data environments, enriching data with metadata, lineage, and context. This ensures that teams can focus on generating insights, not managing infrastructure. The result is faster decision-making, simplified workflows, and a scalable foundation designed to meet the demands of Generative AI and modern data analytics.
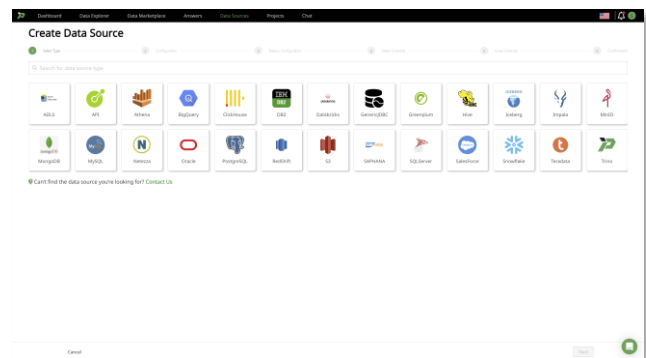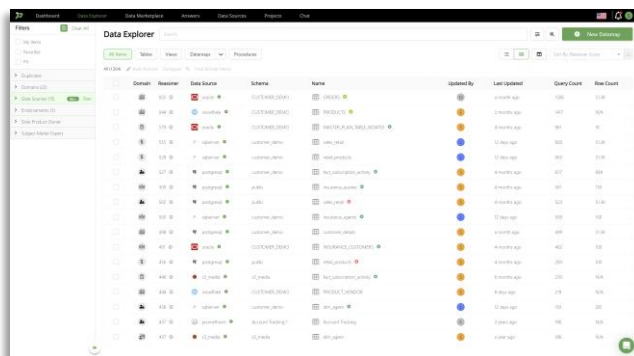
An Integrated Workflow to Rapidly Gain Data Insights

Promethium's Instant Data Fabric transforms how organizations access, prepare, and use data by offering a fully integrated workflow that simplifies every stage of the data lifecycle. With intuitive, question-driven interfaces and robust technical tools, Promethium empowers both business and technical users to rapidly uncover insights and drive value.

Promethium Instant Data Fabric

Store	Connect	Find	Build	Share	Consume
Cloud: snowflake, Google Cloud, salesforce, amazon REDSHIFT, aws, Azure, databricks	Access Data via Federated Queries	Data Catalog	AI-Powered Assembly	Data Product Marketplace	BI Tools: tableau, Power BI
On Prem: ORACLE, Microsoft SQL Server	Enrich and Activate Metadata / Metadata Sources: tableau	Data Discovery / Natural Language Search	Aggregate and Rapidly Prototype / Persist and Publish / Push Into Production	Natural Language Questions	Data Science Apps: Spark, PyTorch / AI Models: Amazon SageMaker, ChatGPT, LLaMA by Meta

Centrally Govern and Protect — Fine-Grained Access Control — Data Quality & Lineage

Connect: Access All Data Without Moving It

Promethium seamlessly connects to data wherever it resides – on-premises, in the cloud, or across hybrid environments. By virtualizing data access, the Instant Data Fabric eliminates the need for data movement or duplication, ensuring teams can work with real-time data from a single interface.
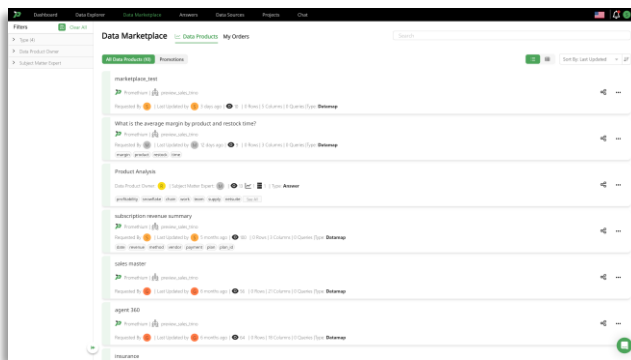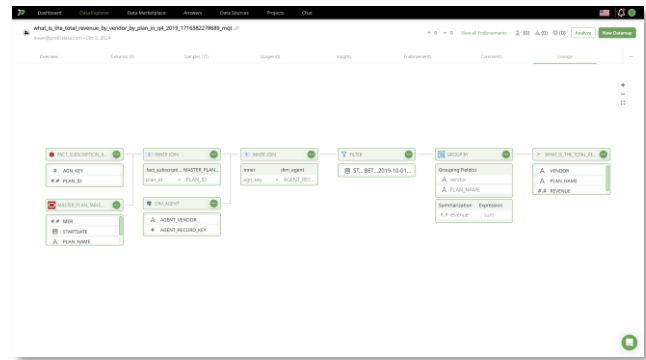
Find: Discover & Understand Data Instantly

Advanced search capabilities, enriched with metadata and semantic context, allow users to quickly locate relevant data. Promethium's intelligent algorithms surface the most accurate and frequently used datasets, ensuring users can trust the data they find.

Build: Create AI-Powered Data Products

With Promethium, users can easily assemble datasets tailored to their needs simply using natural language queries. Metadata enrichment, historical joins, and semantic modeling make it simple to prepare data that is ready for analysis or Generative AI applications.
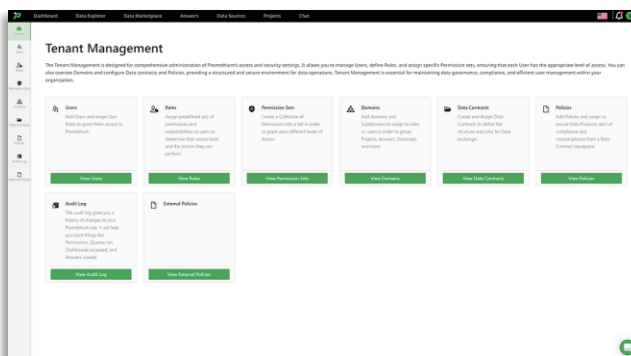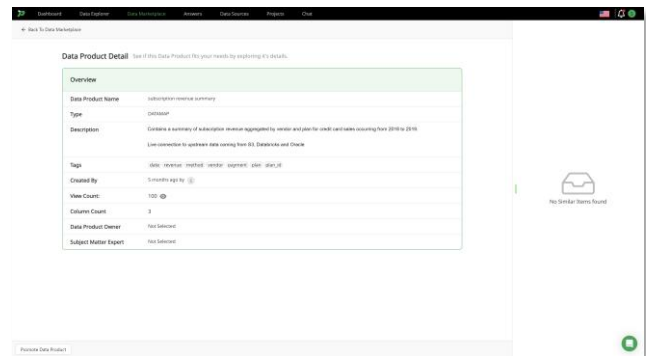
Share: Foster Collaboration Across Teams

Promethium enables teams to share insights, queries, and datasets securely across the organization. By breaking down silos, the platform fosters collaboration between data and business teams, aligning efforts toward common goals and ensuring everyone works with the same trusted data sources.

Consume: Deliver Data to the Right Place

Promethium supports existing data consumption methods, such as BI tools, dashboards, and AI models, without disrupting workflows. It provides the underlying layer to ensure the right data is delivered, enriched with context and ready for action, wherever you need it.

Govern: Ensure Compliance Without Sacrificing Agility

Governance is seamlessly embedded across the entire workflow, providing centralized control over data privacy, security, and compliance. Promethium's dynamic enforcement ensures policies are applied in real time, balancing agility with robust oversight.

Why Chose Promethium

Promethium's Instant Data Fabric transforms the way organizations manage and leverage data, enabling self-service analytics, fostering collaboration, and preparing businesses for Generative AI. Promethium seamlessly integrates on top of your existing infrastructure and helps your organization to become more data-driven.

Empower Decision-Making and Innovation
Access to data should never slow down decision-making. Promethium enables decision-makers to access the right data instantly, eliminating long waits for pipelines to be built. With real-time data access and intuitive workflows, teams can make faster, smarter decisions that drive innovation.

Improve Collaboration and Alignment
Promethium breaks down silos between teams, creating a unified, trusted environment for collaboration. By ensuring all teams work from the same governed data sources, Promethium fosters alignment across business and data teams, improving execution and delivering measurable outcomes.

Free Your Data Teams from Routine Tasks
Data engineers and IT teams often spend a disproportionate amount of time on data provisioning. Promethium shifts this focus, enabling teams to concentrate on high-value activities like optimizing infrastructure, enhancing data quality, and driving innovation, rather than managing routine workflows.
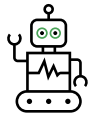
Break Down Data and Governance Silos
Promethium embraces complexity by unifying data from on-premises, cloud, and hybrid environments into a single governed layer. This centralized approach balances governance and security with the agility and flexibility needed to adapt to changing business needs.

Accelerate Generative AI Adoption
Generative AI demands context-rich, high-quality data. Promethium delivers this seamlessly, combining metadata enrichment, semantic modeling, and governed access to ensure that AI systems work effectively and deliver trusted results.

Instant Data Fabric Use Cases

Accelerate the Adoption of Trusted Generative AI: Provide a secure, context-rich framework for deploying Generative AI in enterprises, ensuring compliance and high data quality.

Empowering Self-Service Data Access for Data Users: Empower non-technical users with self-service analytics and natural language querying, enabling them to access and analyze data independently.

Modernizing and De-Risking Changes to Data Platforms: Provide flexibility by abstracting data access from underlying systems, allowing for seamless infrastructure updates or migrations without disrupting business continuity.

[**Click here**](#) **to read the top 7 data fabric use cases**

What Others Have to Say

nationalgrid

"Promethium gives us the ability to answer the questions of our business users with real time responses."

DOLBY

"In short, the tool is really useful, easy to use. The ability to just ask a question and get the answer is like MAGIC."

Quest Diagnostics

"Anyone that has access to the data fabric can instantly query and consume. That's really our vision."

Analyst Recognitions

Gartner COOL VENDOR 2024 · //CODiE// 2022 SIIA CODiE WINNER · THE CHANNEL CO. CRN BIG DATA 100 2024 · THE CHANNEL CO. CRN BIG DATA 100 2023 · cdo CHIEF DATA OFFICER MAGAZINE Best New Product · BIG INNOVATION 2021 · AI ARTIFICIAL INTELLIGENCE EXCELLENCE AWARD 2021

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