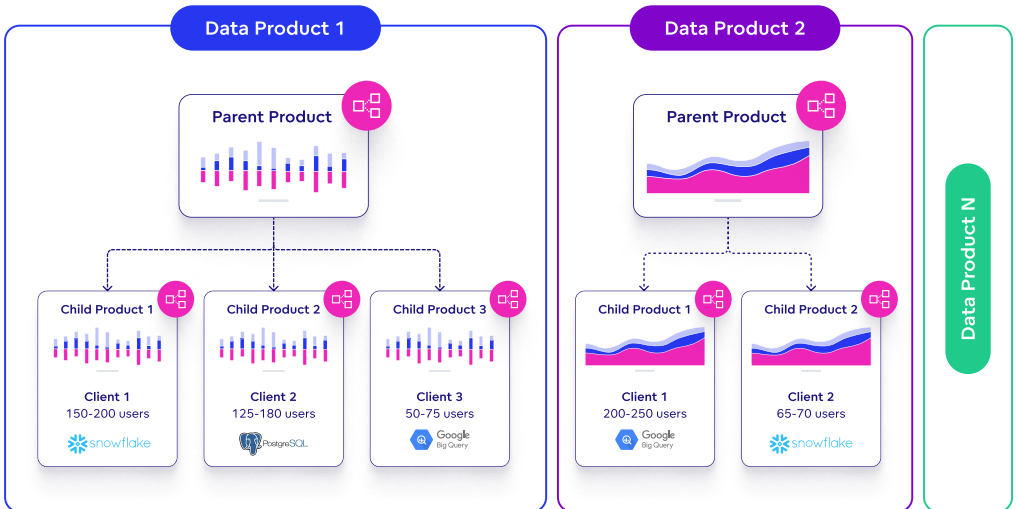


# Building Complex Analytical Data Products

Leverage GoodData's modular components to automate analytics infrastructure and build customized data products

Creating simple, static reports for a single-use-case data application is relatively straightforward. The complexity arises when managing data from multiple sources and domains, especially when it's used by diverse user populations. This scenario involves integrating data pipelines, maintaining a unified semantic layer, and distributing data to the end customers. Ensuring the speed, success, and future maintainability of such projects can be challenging.



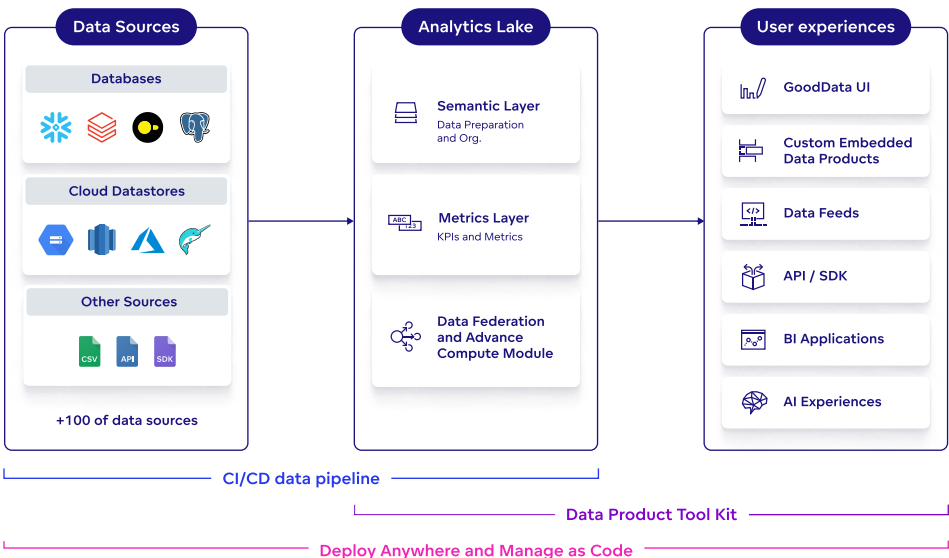
# Navigating Data Complexity

The complexity increases when integrating white-labeled, customized products alongside self-service support for users with different skill sets. For large enterprise groups, building such solutions in-house through traditional BI development approaches often leads to unsatisfactory results, wasted resources, and missed opportunities.

Launching an analytical project involves more than just buying and distributing BI tool licenses. To maximize value for end users, the data interpretation layer must be built on solid data foundations, especially with the growing use of AI in the data interpretation field. Choosing a vendor that supports a robust data ecosystem and remains flexible for future enhancements is crucial.

## GoodData's Modular Solution

GoodData offers modular analytics components that simplify and automate your analytics infrastructure, enabling quick and efficient data product development. The modular design allows you to integrate only what you need, reducing complexity and boosting efficiency, while built-in data pipeline blueprints support rapid development.



# Key Benefits



## Automation of Data Pipelines

Automates real-time data ingestion, transformation, and integration, ensuring current and accurate data for use cases beyond just dashboards, such as data feeds, AI, ML, embedding, and more.



## Speed and Agility

Modular components allow for rapid development and deployment of data products, enabling quick adaptation to evolving business requirements.



## Scalability and Flexibility

Scales to handle datasets of any size, and you can deploy GoodData wherever's best for you – your premises or our cloud.



## User-Friendly Interface

Both technical and non-technical users can interact with data products via UI or through code. This makes insight development and consumption available to a broader audience within your organization.



## AI Ready

Interact with AI through the GoodData platform or embed it directly into your data products. The robust semantic layer reduces hallucinations.



## Data Distribution

GoodData content can be accessed directly through the UI, embedded into other applications or custom portals, provided through data feeds, AI and ML applications, and more.

# European FinOps Organization



## THE CHALLENGE

Delivering data products to over 50,000 customers, each with hundreds of users, demanded **high scalability and agility**. The solution had to be **hosted on-premises** to meet local regulatory requirements and cultural norms. A **robust data pipeline** for front-end data distribution, and a **data catalog** tool for governance, discovery, and management were essential. An **automated, modern solution** was needed to adapt to evolving demands.



## THE SOLUTION

The customer is building a **data mesh-like architecture** to ensure connectivity and interoperability across key data sources in a solution crafted by GoodData, catalog vendor Witboost, and partner implementers. GoodData provided **pipeline blueprints to get the customer up and running quickly with a modularized approach**.

GoodData will sit on top of the data mesh with an on-premise deployment. The resulting data products will feature **white labeling, self-service, environment customization**, and integration into other applications.

# Franchised Healthcare Organization

## THE CHALLENGE

An adaptable analytics solution was required to **centrally manage content and push updates to franchisee environments**. Each franchise had its own cloud infrastructure on different mega-vendors and required an authentication method for data access. **Versioning, deployment, and security requirements were complex** due to head-related data.

## THE SOLUTION

A centralized analytics environment that can be **deployed across multiple clouds and databases**. Multiple data products can be launched simultaneously from the central hub. There is native multitenancy (build once, deploy infinitely) with the ability to adjust content from the central hub as needed.

The organization can leverage GoodData's **analytics-as-code and CI/CD integrations** for environment administration in the same way it administers other software products. A **centralized cache and processing layer reduces costs** for all participants and allows them to share a semantic layer with business-friendly metric definitions.

# CONCLUSION

Building modern analytical data products requires a robust and flexible platform. GoodData's modular analytics components offer the tools needed to build automated data pipelines and rapidly create scalable data products.

Get a platform walkthrough

