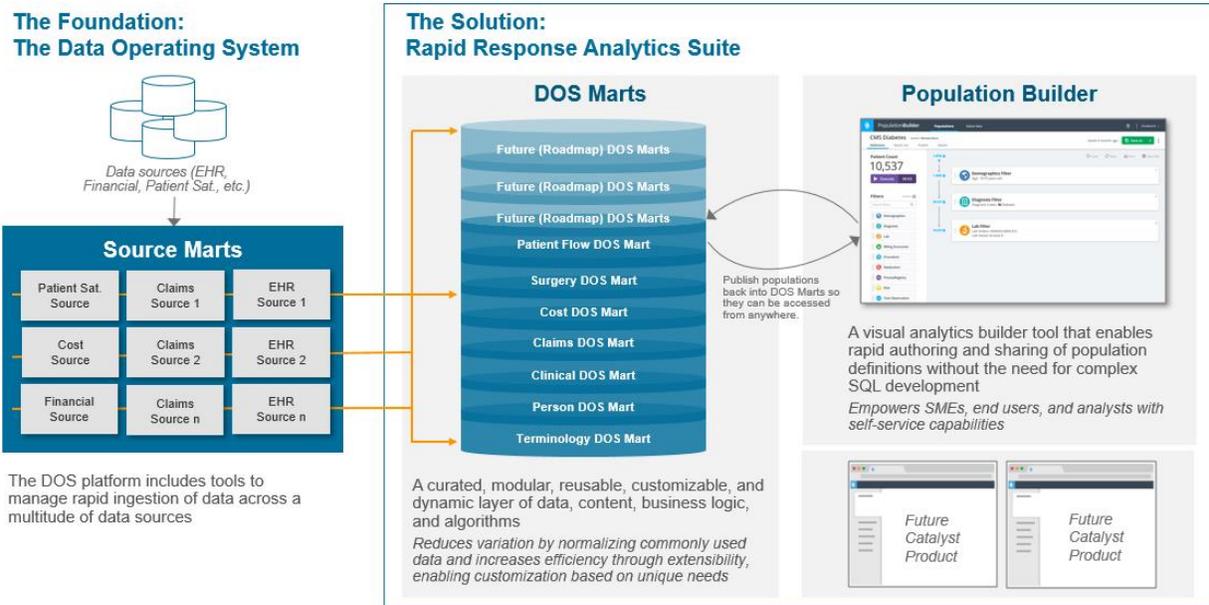## Technical Description

The Rapid Response Analytics Solution is a collection of analytics infrastructure components built into the Health Catalyst Data Operating System (DOS™). The Rapid Response Analytics Solution consists of **DOS Marts** —a curated, modular, reusable, customizable, and dynamic layer of data, content, business logic, and algorithms—and **Population Builder** —a visual analytics builder tool that enables rapid authoring and sharing of population definitions for population health analytics, quality improvement, research, and reporting registries without the need for complex SQL development.

Visualization

The Rapid Response Analytics Solution includes a visual analytics builder tool for populations powered by curated, reusable, and customizable domain-specific data models that reduce analytics development time up to 90%, leading to more rapid ROI.

Background

Developing analytics insights can be time-intensive. Analysts spend large amounts time repeating tasks like integrating data and developing basic calculations, often yielding inconsistent results. Additionally, communication cycles between analysts and subject matter experts can be time consuming and frustrating.

Overview

Scales analytics teams, reducing analytics development time by up to 90% and increasing analytics productivity up to 10x.

The Rapid Response Analytics Solution is a collection analytics infrastructure components that provide reusable, curated, customizable analytics building blocks called DOS Marts and a visual builder tool called Population Builder that allows population definitions to be created and shared without the use of complex SQL. Taken together, these tools relieve analysts from having to reinvent the wheel for commonly used data elements and shift much of the analytics development process from the analyst themselves to the data consumers themselves with an elegantly designed, visual, self-service experience. The solution scales analytics teams, reducing development time by up to 90% and increasing productivity up to 10x.

Benefits and Features

- **Revitalize your analytics team** – Lift the heavy burden of repetitive SQL querying from your analysts to increase their effectiveness and help them work at the top of their license.
- **Scale analytics infrastructure and capacity** – Advanced analysts perform faster and at the top of their license; entry-level analysts are more productive quickly.
- **Scale up a sustained ROI that compounds over time** – Reuse, don't reinvent. Analysts can focus on creating value-add business analytics versus complex SQL across multiple data sources.
- **Increase effectiveness of data consumers (subject matter experts)** – Ad-hoc analysis puts power in the hands of data consumers instead of relying on expensive and overwhelmed analysts.

Suite Components

Population Builder - Increase analyst effectiveness and reduce analytics development time by quickly defining custom populations for ad-hoc analytics, quality improvement, and research.

DOS™ Marts - Build faster on elevated domain-area foundations for analytics projects

Use Cases

- An **analytics team** of five spends 90% of their time answering basic questions over and over (such as number of patients with a chronic condition diagnosis like diabetes, heart failure, COPD, etc.). They are unable to free their time to answer deeper clinical analytics questions to drive improvement initiatives (such as identifying patients at risk of a specific disease). By implementing the Rapid Response Analytics Solution, **clinicians** and other team members can self-serve simple analytics because of the speed at which they can get commonly used data elements from DOS Marts and the self-service capability of Population Builder, increasing the throughput of the analytics team by up to 10x, giving the **analysts** time to perform deeper clinical, operational, and financial analysis.
- A healthcare organization's **analysts** spend significant amounts of time repeating tasks like integrating data and developing basic calculations. The result: wasted time reinventing the wheel and inconsistent results. With the DOS Marts in the Rapid Response Analytics Solution, the analysts can now leverage commonly used data elements integrated across multiple data sources and metrics harmonized in DOS Marts. With Population Builder, the organization centrally defines and governs populations. By creating standardized definitions and analytics workflows, analysts can now leverage the work done by others as well as validated definitions published by industry authorities such as CMS.

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