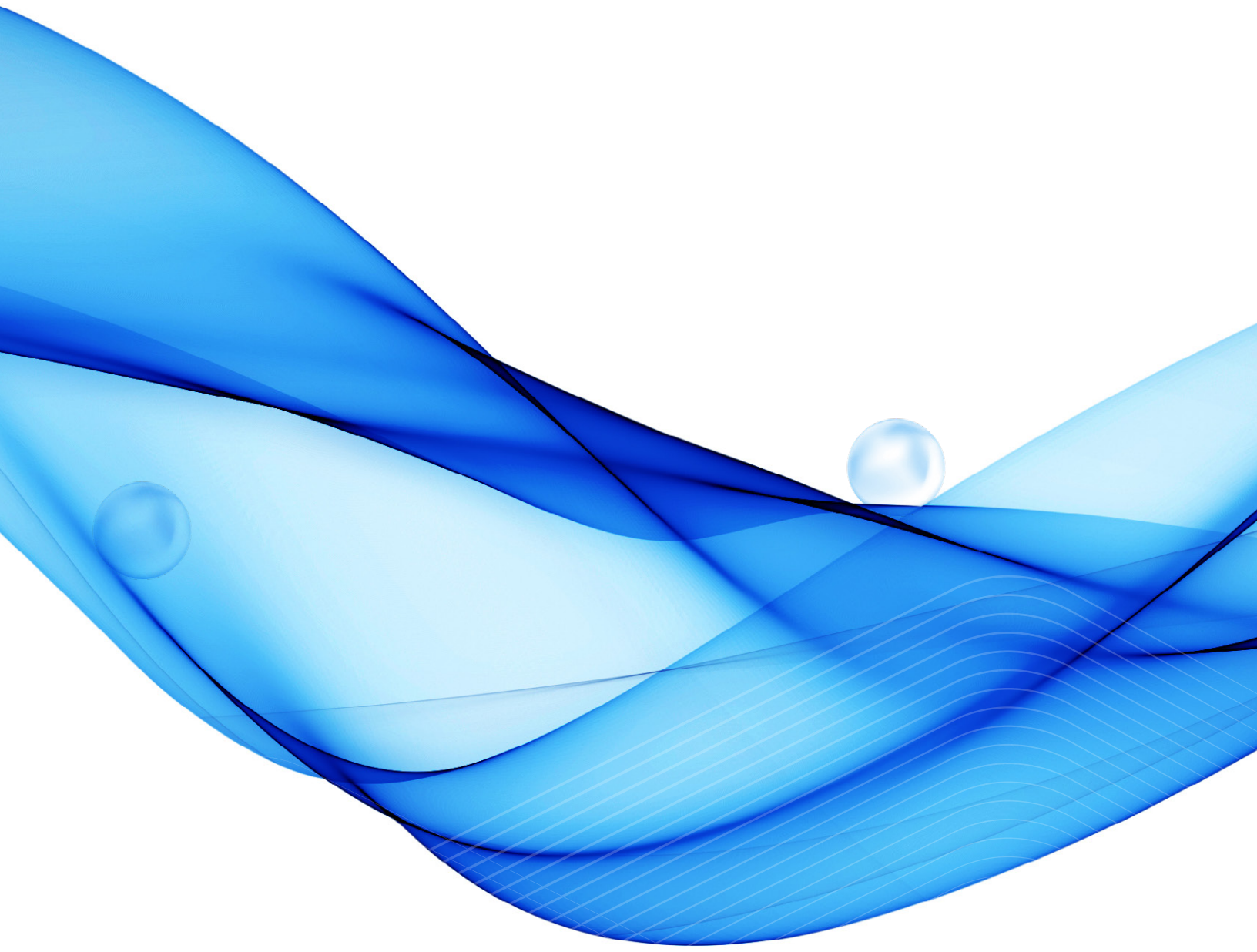
optymyze

The Center of Excellence for DataOps

Revolutionizing Enterprise DataOps with No-Code and Collaborative Development



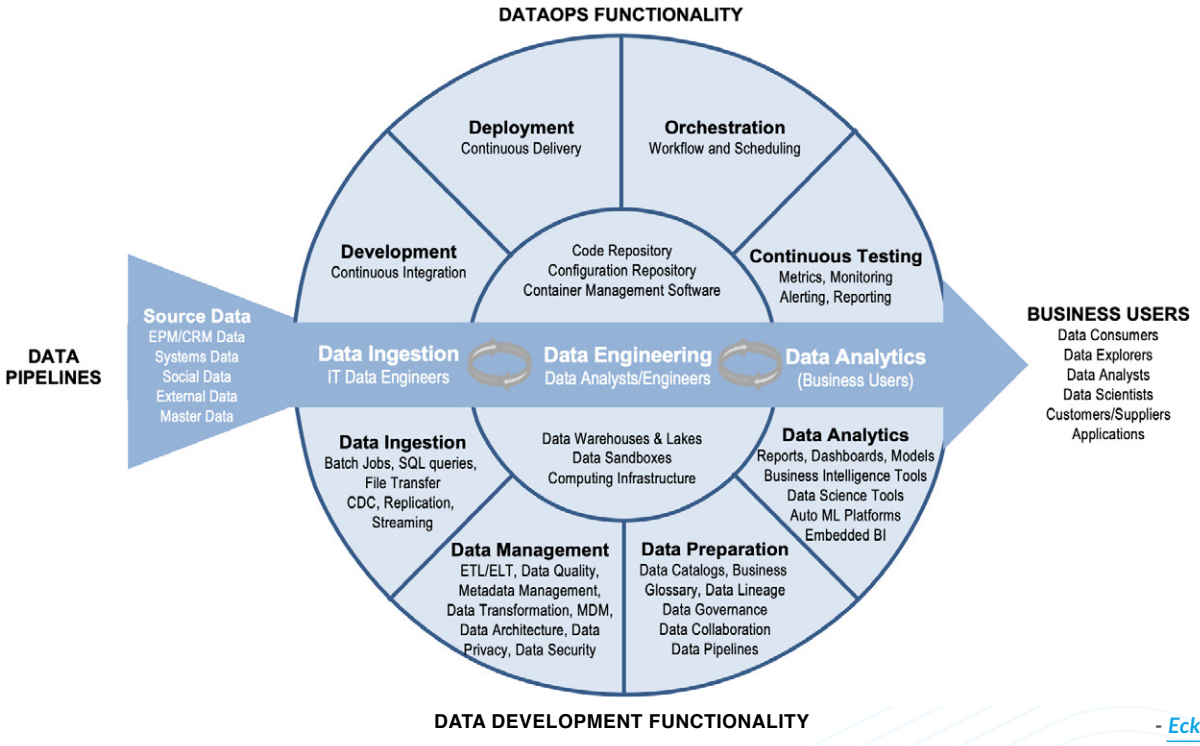
WHITE PAPER

THE EMERGENCE OF DATAOPS

To guide a business in an ever-changing market landscape, its leadership needs timely and accurate data to evaluate and navigate the strategic, operational, and financial risks and opportunities that lie ahead. This need for high quality, high-speed, enterprise-level data is the catalyst for a new methodology called **DataOps**.

> *DataOps is a **collaborative data management practice** focused on **improving the communication, integration, and automation of data flows** between data managers and data consumers across an organization.*
>
> - *Gartner*

The DataOps methodology applies both the DevOps lifecycle and the Agile development paradigm to the creation and management of data pipelines, along with continuous monitoring and maintenance, shown in the figure here.



- *Eckerson*

A key CTO initiative is now the adoption of DataOps to establish a seamless data flow between all teams by creating data warehouses, automating data systems and processing enterprise data at scale. The goal is to enable every level of an organization, from business operations, to business intelligence, right up to the top managers and CEO, to have access to the most up-to-date and reliable data for analysis, decision-making, and to design and develop tactical business solutions.

THE CODE CONSTRAINT

Bringing together data from multiple systems and creating an environment where a core set of validated data can be securely and seamlessly shared throughout the enterprise, is a challenging process that involves:

- **Creating an enterprise data model** that accurately represents the concepts and activities of the enterprise
- **Migrating and integrating data** from various sources and formats and **refreshing it daily** into the data model
- **Validating and transforming the data** to create a single source of truth for all downstream processes
- **Governing the data model access** for the various teams building solutions on top of it
- **Making the data available** for integration with various reporting and analytic tools

All the processes listed above involve extensive coding, and require numerous tools and technologies to manage the data infrastructure and the code layers, as well as teams of developers and testers. In coordinating all these interdependencies, business teams can often lose sight of the forest for the trees and end up with solutions that are both ineffective and outdated for the problems they were trying to solve.

RETHINKING CODE

Writing code, often from scratch, is the universal approach to solving all technical problems. Everything revolves around the development and management of code. It requires a lot of manpower and resources to be written, compiled, tested, maintained, and updated, which makes it costly and time-consuming. Yet, no-one questions its efficacy. IT teams are so entrenched in coding practices that it is almost unthinkable to consider developing a solution without having to write one line of code.

However, it is also becoming increasingly apparent that code can often be a barrier in the way of bringing data and business operations together, and creating a common understanding of the data, and its currency, quality, and operational resiliency. Code creates a real communication problem between technical and non-technical teams and more often than not, things can get lost in translation.

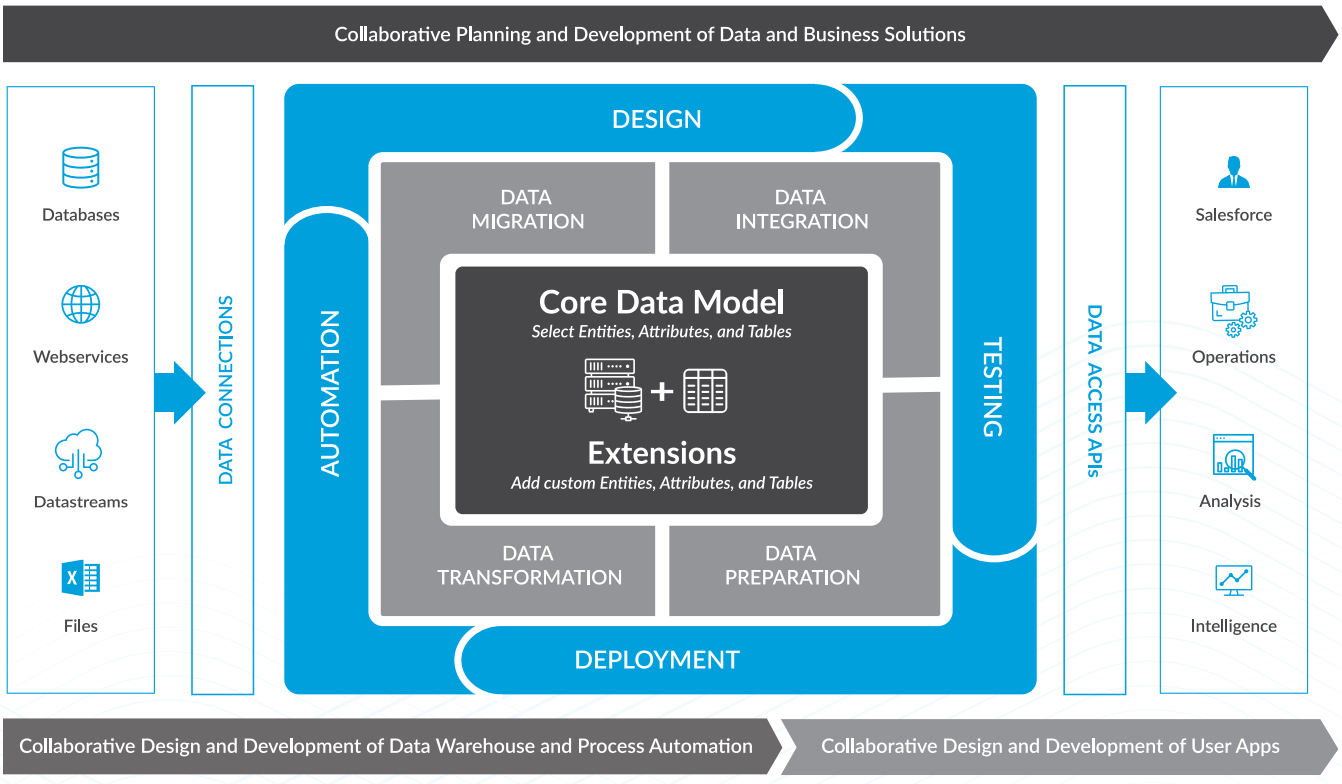
BUT WHAT IF THE CODE CONSTRAINT NO LONGER EXISTED?

- *What if a data model could be defined without any SQL code?*

- *What used to be a complex data pipeline to load, format, validate, consolidate, recalculate, backtrack and rollup data, and orchestrate all the various processes, could all be done without one line of code?*
- *What used to be a complex code validation, testing, compiling, and merging process, is no longer necessary?*
- *What if complex infrastructure management of databases and servers is no longer required?*
- *What if read and write access could be granted independently to any portion of the data model and this could be managed at a click of a button from a central governance console?*
- *What if APIs could be automatically generated for any of the data tables?*

THE CENTER OF EXCELLENCE FOR DATAOPS: NO-CODE COLLABORATIVE DEVELOPMENT

The Optymyze mission is to remove the code constraint from all the DataOps processes, and in doing so, unite data architects and business strategists in a common objective – the execution of the organization's strategic goals. This kind of transformative change can be both ground-breaking and daunting. That is why Optymyze offers a partnership model to guide organizations along their journey and establish a Center of Excellence that promotes collaboration, innovation, and self-sufficiency, by developing no-code solutions to business-critical problems. This Center of Excellence, or COE, is powered by the Optymyze no-code platform and based on four main pillars that together enable a true DataOps revolution.



The 4 Pillars of the Optymyze DataOps Center of Excellence

- **A Collaborative Development approach** to the DataOps transformation, that is based on a cooperative planning strategy between Optymyze and the client organization. **Optymyze brings to the table expert analysis, experience, and industry examples, to help leaders conceptualize and execute their digital transition and identify new opportunities for automation. Optymyze also works with data architects and business strategists to quickly organize, onboard, and ramp up teams of business analysts and data experts to design and implement business solutions.**

- **An extensible Data Model**, that forms the heart of the system and supports a wide range of common business concepts out of the box, but which can also be easily adapted and extended to a specific enterprise without any SQL code. It comes with built-in validations, auditing, time management, access management, and performance monitoring. **Optymyze offers best practices and support to data architects in designing and assembling the data warehouse, which includes entities, data tables, relationships, and, hierarchies, as well as in planning and managing changes to these objects as upstream and downstream requirements evolve.**

- **A powerful Data Processing Engine** to configure and maintain the processes of migrating, integrating, preparing, and transforming data on a recurring basis, without any technical knowledge about code. **Optymyze experts with vast experience in data management for Compensation systems, where speed and accuracy are crucial, work alongside data architects, engineers, and data stewards from the organization to design and configure efficient and effective processes to support their data pipelines and business requirements.**

- **A continuous Change Management Framework** guided by DevOps principles to design, automate, and test data models and business solutions in sandboxes and migrate them to production when they are ready to be deployed. **Optymyze offers expertise, best practices, and industry standards to guide business analysts and business operations teams to design and configure the most effective and engaging solutions and user applications for their business needs.**

THE RETURN ON INVESTMENT

The Optymyze COE and no-code platform may be used in conjunction with existing technologies and frameworks to implement enterprise DataOps at scale or to solve problems in specific areas like Compensation, CRM, Supply or Distribution Chain Management. Wherever it is applied, this revolutionary approach can transform a process or an organization and deliver remarkable outcomes, from ensuring seamless DataOps coordination that delivers timely and high-quality data and insights, to instilling a culture of innovation and self-sufficiency, to achieving cost predictability and ultimately, an outstanding ROI.