

“DEEP DIVE” FROM ECKERSON’S REPORT ON DATAOPS PLATFORMS

“The Unravel Data Operations Platform is, in many respects, a next-gen application performance monitor tailored to the unique challenges of development in the modern big data context... Unravel works to alleviate this complexity by providing full-stack visibility across the data ecosystem.”

- Eckerson Group, DataOps Deep Dive: Different Approaches to the DataOps Platform

Eckerson Group has issued a deep dive report examining four leading DataOps platforms: Unravel Data, DataKitchen, DataOps.live, and Zaloni. Eckerson defines DataOps as an emerging methodology for building data analytics solutions. Drawing on DevOps and agile approaches to software development and delivery, DataOps promises to reduce project times, decrease errors, reduce costs, and improve customer satisfaction.

But just as DevOps requires a suite of tools to implement the methodology, so too does DataOps. You can download this actionable report, [DataOps Deep Dive: Different Approaches to the DataOps Platform](#), for free.

Eckerson Report Findings

Today, companies of all types spend heavily on compute power and data delivery capabilities across a wide range of technologies, but frequently do not place enough emphasis pre-planning where that money will be allocated. This is particularly true for organizations that are moving to the cloud.

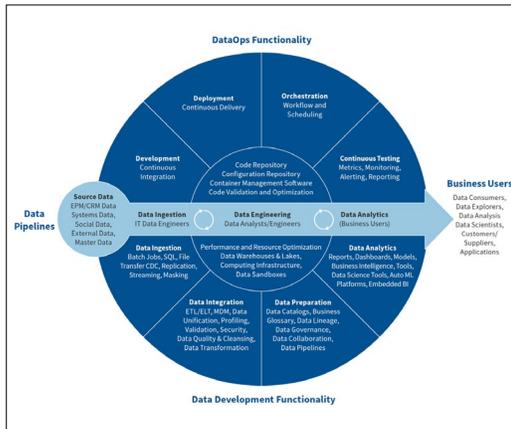
As uncovered in the Eckerson report, providing insights into efficiency – from the KPI level down to configuration settings and lines of code – helps organizations understand and improve the ROI of their data initiatives. At the same time, the integration of artificial intelligence (AI) to automate efficiency improvements saves developers valuable time in the DataOps lifecycle. This is an area where Unravel excels.

Eckerson concludes that the Unravel Data Operations Platform is an ideal solution for customers who want to:

- Optimize the use of resources such as compute capability, storage, and operators’ time for data-intensive applications
- Reduce overhead when migrating workloads to AWS, Microsoft Azure, or GCP
- Manage pipeline deployment efficiency
- Track the ROI of their investments in data initiatives
- Improve the quality of developers’ code by using automation to identify optimizations

The Data Pipeline Framework

Eckerson uses the following framework to visualize the data pipeline within the DataOps paradigm:



The pipeline runs from data sources to targets, passing through ingestion, engineering, and analysis on the way. The bottom half of the circle consists of the technologies used to build the data pipeline – including replication, ETL, data catalogs, data quality, lineage tracking, data science, and business intelligence tools. The top half represents the DataOps components used to manage and optimize the development and execution of data pipelines. Together they create a visual framework for modern data pipeline development.

Deep Dive into the Unravel Data Operations Platform

As detailed in the Eckerson report, the Unravel Data Operations Platform is an AI-powered system for monitoring and managing data-driven applications and pipelines. It identifies performance bottlenecks in the underlying systems and software and uses AI to detect anomalous behavior, suggest fixes, and remediate problems.

The solution generates reports and alerts that benefit multiple individuals within the organization:

- **Data architects and engineers** can improve the throughput of data pipelines and workflows they build
- **Developers** can improve the code and tests they write
- **Administrators** can fine-tune system configurations to improve performance, reduce costs, and meet systems level agreements (SLAs)

Eckerson states that Unravel works on-premises and in the cloud, with in-depth support for cloud migration. Unravel is designed for companies in data-intensive industries or where data is a central part of a product offering.

Eckerson Recommendations

Eckerson states that the Unravel Data platform separates itself from other DataOps platforms through its unique focus on monitoring and managing the performance of data-driven applications to optimize resource use. Eckerson concludes: “Unravel, as a specialist tool focusing on monitoring, is an excellent choice for organizations that want to add the monitoring capability component to their DataOps strategy but have complex, high-volume data environments – be they on-premises, hybrid, or in the cloud. It provides insights from across the full stack of modern data applications and is especially helpful during cloud migrations.”

[Contact us](#) to learn more. [Or try Unravel Data for free.](#)



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