

# AGRICULTURAL INNOVATION WITH DATA ANALYTICS

## Executive Summary

Corteva Agriscience, a U.S.-based global agriculture leader, supports farmers in over 130 countries. Corteva's Research and Development team relies on immediate access to data to make product development decisions and release products to customers.

Slow analytics performance and narrow, siloed views across the organization drove Corteva to embark on a three-year plan to migrate its existing research data warehouse from on-premise to the cloud on AWS and Exasol. Exasol is built to run analytics faster than any other database, delivering next-level performance, ease of use, and choice.

## About the Customer

Corteva Agriscience, a U.S.-based global agriculture leader, supports farmers in over 130 countries. Corteva Agriscience is the only major agriscience company completely dedicated to agriculture, making it the biggest pure play agricultural organization in the world. Corteva's purpose is to enrich the lives of those who produce and those who consume, ensuring progress for generations to come.

## Customer Challenge

**Corteva is the result of three leading Agriscience organizations merging in 2019. As a result of the merger, over 5,000 scientists and researchers needed access to crop, seed, and trait data. This resulted in over 40 times more data consumption than each organization would have on their own, putting enormous pressure on the data warehouse team.**

"Our goal was to create a next-generation research data warehousing platform that can seamlessly integrate and report data with minimal latency helping our R&D on data visualization, data science and analytics. Also, one that could support a dynamic R&D environment while reducing cost, administration time, and complexity," said Data Warehouse Manager Venkatesh Innanji. "To make this happen, we migrated from our on-premise legacy platform to the AWS cloud with Exasol."

## Why AWS

AWS is Corteva's cloud infrastructure provider and Exasol runs natively in the AWS Cloud. The combination of Exasol being deployed in the customer's own AWS account gave Corteva the full confidence and control to migrate to the AWS cloud.

## About Corteva



**Corteva  
Agriscience is  
the only major  
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the world.**



## Exasol Solution

Exasol delivers the fastest analytics database on the market. We utilize this speed to make business intelligence solutions faster and easier to use, unify disparate data sources, and deliver machine learning prediction and automation directly in the database.

## Why the customer chose Exasol

With a data warehouse of over 7TB and growing rapidly, performance, ease of use, and choice were the reasons Corteva selected Exasol on AWS as their data warehouse solution:

- ✓ Performance: Exasol is the fastest analytics database, consistently winning the top rank in industry benchmarks, allowing customers to get the results they need in moments, even on billions of data rows ([source](#)).
- ✓ Ease of Use: Exasol auto-tunes, requiring no input from DBAs, and has the highest ranked customer service in the industry ([source](#)).
- ✓ Choice: Exasol works with the BI tools already in use by your users, and can operate from the data already in place without requiring more staging



## Results and Benefits

"We believe our data warehouse and business intelligence journey to the Cloud is already a resounding success, due, in part to Exasol's technology running in the AWS cloud. We are now more than halfway through our three-year plan and we are thrilled with Exasol's performance. Using Exasol has significantly boosted our data volume and concepts growth, increasing sources by 50% while offering 40 times more consumption."

--Venkatesh Innanji, Datawarehouse Manager, Corteva



## About Exasol

Exasol is built to run analytics faster than any other database, delivering next-level performance, ease of use, and choice. Our customers accelerate their Business Intelligence platforms, analyzing billions of rows in seconds, to make better decisions faster.