INT. | Biocon

BUILDING A DATA-DRIVEN CULTURE AT BIOCON THROUGH DATA LAKE & BI

Countries we operate from
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PROBLEM STATEMENT

Biocon, a global biopharmaceutical company, operates across high-compliance domains such as R&D, clinical trials, and large-scale drug manufacturing.

Siloed Systems: Data was fragmented across disconnected ERP, research, and manufacturing systems

Limited Visibility: Lack of consolidated reporting delayed variance identification.

Manual Data Entry: Compliance records required tedious reconciliation.

Audit Inefficiency: Inspections often led to scrambling for data.

INT.'S SOLUTION

INT. deployed an **integrated Data Lake + BI platform** tailored for Biocon's pharmaceutical operations:

- ✓ **Data Lake:** Unified structured and unstructured data from R&D, QMS, and production.

- ✓ **BI Dashboards:** Developed compliance dashboards with drill-down features for batch records and quality checks.

- ✓ **Data Standardization:** Unified product and personnel metadata for audits.

- ✓ **Scalability:** Designed a hybrid architecture for smooth performance on-prem and in the cloud.

INT. applied its **end-to-end modernization methodology**

01

Discovery & Data Audit:
Assessed 20+ data sources and pain points in manufacturing and QA reporting.

02

Architecture Design:
Created a secure, regulatory-compliant lakehouse framework.

03

Pipeline Development:
Automated ingestion from LIMS, QMS, SAP, and manual logs.

04

BI Layer Creation:
Developed Tableau and Power BI dashboards for CXOs, QA heads, and plant managers.

05

User Enablement:
Trained internal teams and QA departments to drive self-service analytics.

IMPACT

47%
drop in data reconciliation time across all departments.

22%
faster compliance reporting enabled timely regulatory submissions.

$2.4M
saved annually via automation and streamlined audit processes.
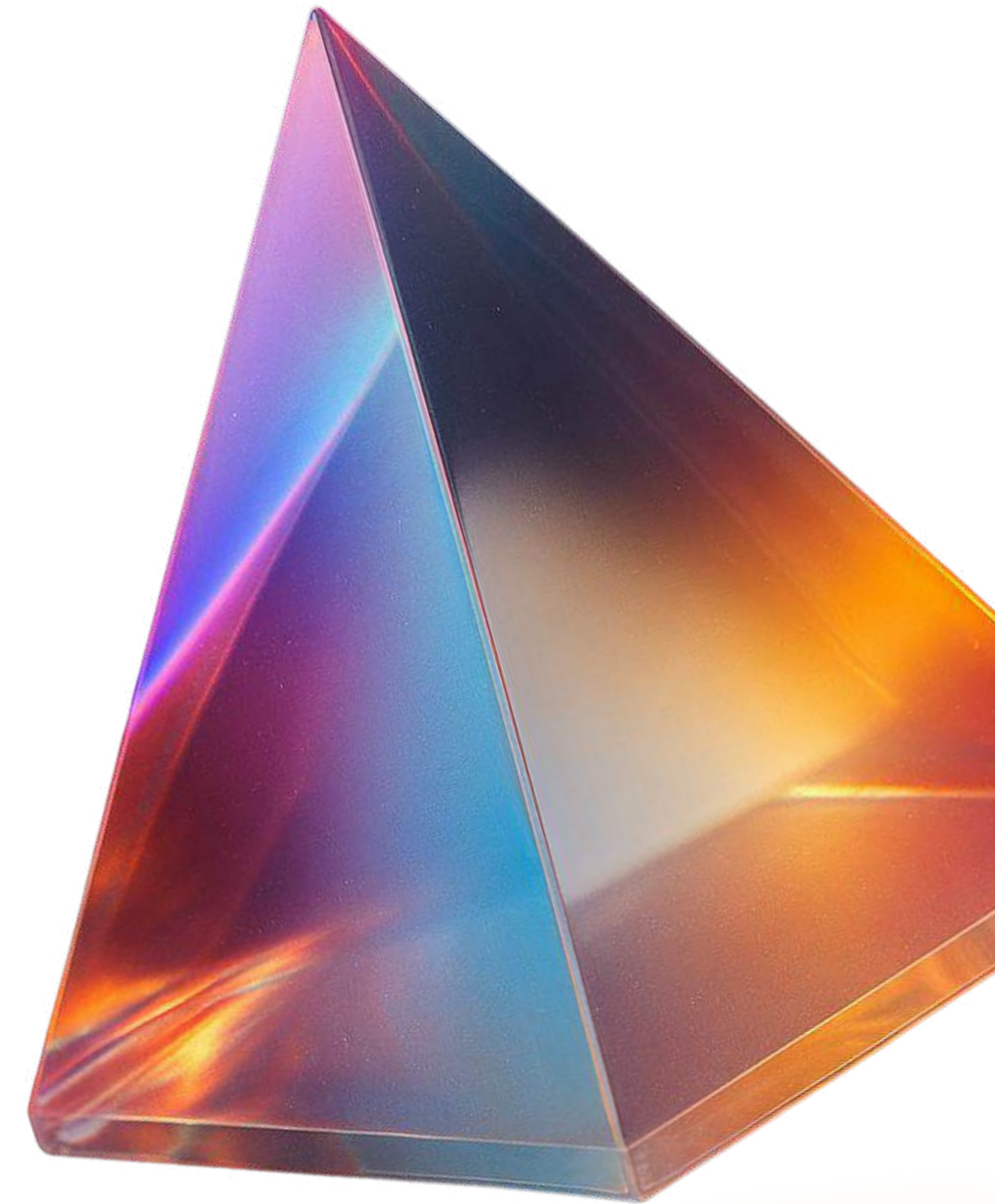
30%
increase in BI dashboard adoption across QA and operations.

3x
improvement in detecting batch variances for faster resolution.

95%+
availability of unified data across cloud and on-prem systems.

INT.

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✉ info@intglobal.com   🌐 intglobal.com

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