

# Breaking the Data Barrier: 6 Months to Near-Instant Data Access



## 99.9% Faster

Data accessibility improvement — from 6+ month waits to near-instant access for analysts and AI modeling

## Unified

Open Data Environment connecting operational and exploratory datasets across remote global mining operations





## Self-Service

Analysts independently discover and access datasets via secure APIs without months of coordination overhead

### SERVICES

-  Data Engineering
-  Platform Engineering
-  AI Solutions

### TECHNOLOGY

-  Smart Data Architecture
-  CI/CD Pipeline Automation
-  Predictive Analytics
-  Real-Time Data Pipeline

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## THE CHALLENGE

Global mining leader Rio Tinto generates enormous volumes of operational and exploratory data across remote environments worldwide. Yet analysts struggled to leverage this information — disconnected systems made integrating new datasets slow and complex, with access for AI and machine-learning modeling sometimes taking over six months.

Object Computing developed the Open Data Environment (ODE), a centralized platform that unified data access through secure APIs, enhanced ETL processes for data cleansing, and a self-service interface enabling analysts to discover and analyze datasets independently.

What once required months of coordination became near-instant — improving data accessibility timelines by 99.9% and accelerating experimentation across Rio Tinto's global mining operations.

## THE SHIFT

**BEFORE** Analysts waited months to access new datasets from disconnected systems across remote global operations, blocking AI and ML research.

**AFTER** Near-instant data accessibility enabling faster analytics, AI modeling, and data-driven mining insights across the organization.

**BRIDGE** The Open Data Environment — integrating datasets through secure APIs and enhanced ETL pipelines in a centralized self-service platform.

## WHAT WE BUILT

**FEATURES** Centralized data platform with secure APIs, metadata frameworks, and automated ETL processes for data cleansing and integration.

**ADVANTAGES** Simplifies the integration and discovery of operational and exploratory datasets, enabling self-service access without coordination overhead.

**BENEFITS** Improves data accessibility timeliness by 99.9%, accelerating analytics, AI experimentation, and innovation across global mining operations.



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