CASE STUDY

# Scalable Data Mesh & DataOps Solution

Enabling enhanced data analytics, data science, and governance through a robust DataOps framework

**Data Mesh**
Architecture

**Automated**
DataOps

**CI/CD**
Integration

THE CLIENT

# Global Manufacturing Organisation

Operating in a data-driven industry requiring sophisticated data management solutions. With a growing demand for analytics and governance, they sought expert guidance to establish a scalable and efficient DataOps framework within a Data Mesh architecture.

> *"We needed a partner who could help us implement DataOps that integrates seamlessly with Databricks, Oracle, and GitHub while upskilling our internal teams."*
>
> Data Engineering Lead

INDUSTRY

**Manufacturing**

REACH

**Global**

TECH STACK

**Oracle, Databricks, GitHub**

THE CHALLENGE

# Scaling data operations across platforms

### Data Mesh Scale

Need to implement a scalable Data Mesh environment across the organisation.

### DataOps Integration

Establishing DataOps that integrates seamlessly with Databricks and GitHub.

### Team Upskilling

Upskilling internal teams to understand DataOps methodologies and best practices.

### Parallel Solution

Implementing a parallel DataOps solution using Oracle and GitHub.

### Continuous Improvement

Ensuring continuous improvements in analytics, data science, and governance.

THE JOURNEY

# Expert knowledge meets hands-on implementation

1

### Understand & Design

- Listened deeply to understand analytics and governance requirements
- Assessed existing workflows with transparency and honesty
- Designed DataOps solution for Databricks with GitHub integration
- Built trust through clear technical recommendations

2

### Implement & Upskill

- Set clear expectations for DataOps implementation milestones
- Upskilled key team members on technologies and data modeling
- Developed second DataOps solution for Oracle with GitHub
- Personalised training to match team capabilities

3

### Support & Evolve

- Resolved integration challenges with ongoing DevOps support
- Provided continuous support to Data Modelling and Engineering teams
- Minimised effort through effective adoption practices
- Enabled continuous improvement of data-driven initiatives

THE TRANSFORMATION

# From siloed data to connected mesh

BEFORE

Siloed data domains, manual workflows, disconnected systems, and limited collaboration.

AFTER

Connected Data Mesh, automated DataOps, seamless CI/CD, and empowered teams.

**Functional**
Data Mesh

**Automated**
DataOps

**Enhanced**
Collaboration

**Upskilled**
Teams

**Continuous**
Improvement

READY TO TRANSFORM?

## Let's build your Data Mesh

By designing and implementing DataOps solutions within a Data Mesh framework, Engaging Data has enabled the client to optimize their data management and analytics capabilities. With ongoing support and upskilling, the organisation is now positioned for continuous data-driven innovation and operational efficiency.