



Case Study

Sustaining Manufacturing Excellence Through Data Governance & Long-Term Embedded Analytics Support

Industry

Automotive Manufacturing

Client

A Fortune Global 10 Automotive Manufacturer

Project Focus

Data Quality, Governance, Manufacturing Analytics & Systems Implementation

Engagement Model

Long-Term Embedded Consultant (10-Year)

1. Client Challenge

A Fortune Global 10 Automotive Manufacturer operates in a production environment where precision is measured in seconds and efficiency directly impacts global output.

Data plays a critical role in:

Operational Priorities

- Manufacturing productivity
- Equipment availability
- Preventive maintenance cycles
- Just-in-time production workflows
- Cross-functional coordination across production, engineering, supply chain, and maintenance

Structural Data Challenges

- Inconsistent data definitions across systems
- Limited documentation during personnel transitions
- Fragmented governance processes
- Manual workflows impacting speed and visibility
- Growing complexity across enterprise platforms

With manufacturing processes deeply dependent on accurate, accessible data, strengthening governance and standardization became essential.

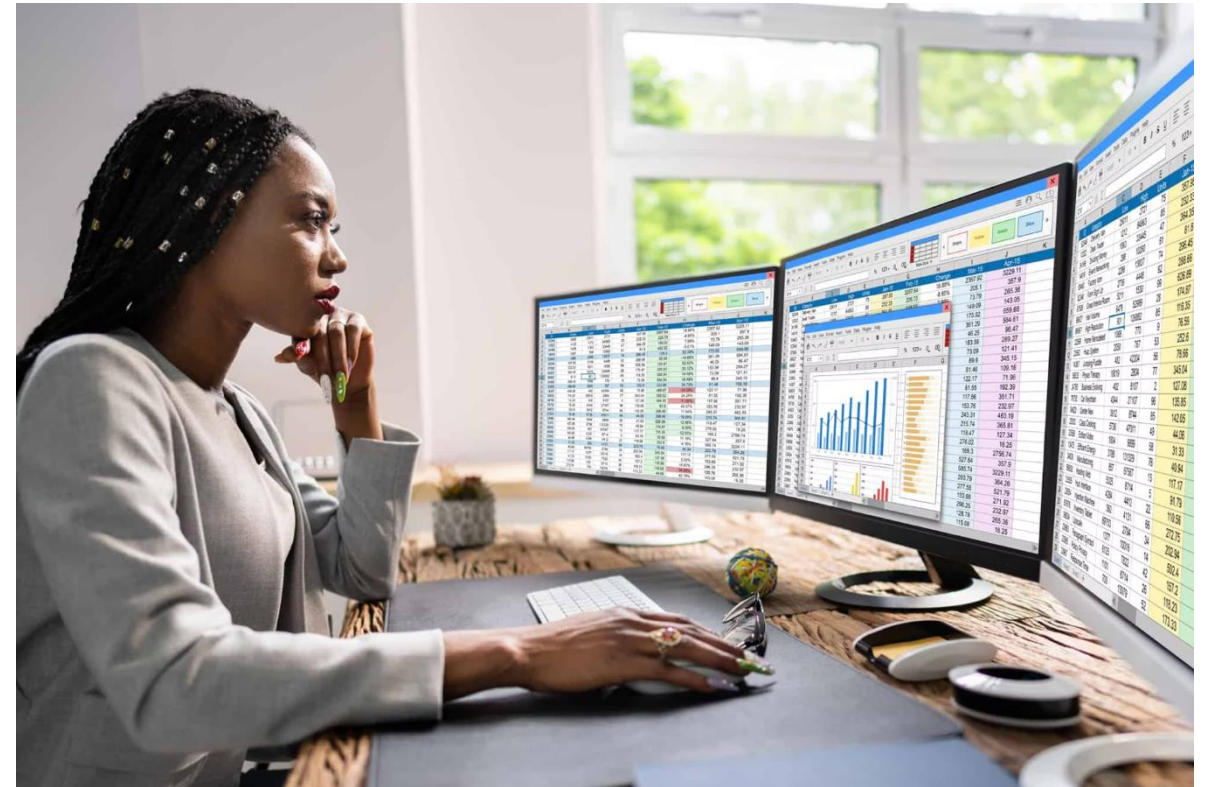


2. Golden Technology's Solution

Golden Technology placed an experienced data analyst into the manufacturing and manufacturing parts domain on what began as a focused data cleanup initiative.

The consultant brought a background in:

- Supply chain systems
- Enterprise data management
- Information systems training
- Military and government operational environments



- What began as a tactical engagement quickly evolved into a long-term embedded role due to demonstrated versatility, reliability, and alignment with client culture.

3. Scope of Work & Role Evolution

Over the course of a decade-long engagement, the consultant's responsibilities expanded significantly.

Manufacturing Data & Productivity Support



Cross-Functional Team Support

Supported cross-functional teams including production, maintenance, engineering, and supply chain



Productivity & Availability Visibility

Structured data to improve visibility into productivity and equipment availability



Maintenance & JIT Tracking

Contributed to preventive maintenance and just-in-time tracking initiatives



Stakeholder Data Access

Ensured critical manufacturing data was accessible to appropriate stakeholders

3. Scope of Work & Role Evolution *(cont'd)*

Enterprise Data Cleanup & Standardization

One of the most impactful initiatives involved standardizing data definitions across multiple enterprise systems.

Prior to this effort:

- Field definitions lacked consistency
- Documentation often referenced circular or unclear terminology
- Knowledge transfer during retirements or transitions was inconsistent

The consultant led a structured effort to:

- Collaborate with stakeholders across departments
- Redefine and standardize system field definitions
- Formalize documentation across SAP and related systems
- Create reference materials to accelerate onboarding

Standardizing SAP field definitions alone required several months of coordination and documentation work.

 **The result:** improved knowledge retention, reduced ambiguity, and greater data reliability across manufacturing domains.

4. Systems Implementation & Cross-Plant Enablement

Beyond analytics and governance, the engagement expanded into system implementation and enablement efforts, including:



Maximo Implementations

Supporting Maximo implementations across the enterprise



SAP Data Structuring

Contributing to SAP data structuring initiatives



Training Materials

Developing training materials for business system rollouts



Cross-Plant Training

Conducting training across approximately six manufacturing plants



Device Onboarding

Assisting with handheld device and printer onboarding for operational workflows

Rather than operating solely as an analyst, the consultant became a cross-functional resource — blending technical support, documentation, and training expertise.

5. Technology Environment

The consultant worked within a complex enterprise ecosystem that included:

SAP

Maximo

PeopleSoft

Databricks

Denodo

PostgreSQL

ServiceNow

Power BI

📄 Additionally, the role adapted to emerging automation and AI-driven capabilities that improved query efficiency, metric generation, and reporting processes.

6. Outcomes & Business Impact

While operating within structured enterprise governance boundaries, the engagement produced measurable operational value:

Standardized Data Governance

- Improved clarity and consistency of system field definitions
- Reduced institutional knowledge loss during employee transitions
- Increased onboarding efficiency

Strengthened Access & Workflow Controls

- Enhanced governance workflows
- Improved user access management
- Reduced risk of improper data exposure

Improved Operational Continuity

- Created documented reference frameworks for manufacturing systems
- Reduced dependency on individual knowledge holders
- Supported cross-plant process consistency

In a production environment driven by efficiency, structured and reliable data directly supports productivity, uptime, and decision-making precision.

7. Long-Term Engagement Model Success

The engagement lasted approximately 10 years — culminating in the consultant transitioning into a permanent role with the client.

Key drivers of longevity included:

- ✓ Continuous skill expansion beyond original scope
- ✓ Willingness to learn emerging tools (including Power BI and Agile methodologies)
- ✓ On-time delivery in a highly time-sensitive manufacturing culture
- ✓ Positive collaboration across cross-functional teams
- ✓ Versatility across departments and initiatives

The consultant moved between multiple internal teams during the engagement, consistently filling high-value needs as projects evolved.

8. Consultant Experience with Golden Technology

The long-term success of the engagement was also influenced by the support structure provided by Golden Technology.

Key Differentiators

- Competitive compensation and benefits (medical, 401k)
- Advocacy for career progression and compensation adjustments
- Consultant inclusion events and relationship-building opportunities
- Executive accessibility and leadership engagement
- Ongoing community and charitable initiatives

The consultant emphasized that feeling supported — not treated as "just a number" — contributed to long-term stability and performance.

9. Engagement Model Value

This case reflects the strength of Golden Technology's embedded consultant approach:

Deep Institutional Knowledge

Deep institutional knowledge over time

Stability

Stability within enterprise teams

Adaptability

Adaptability to evolving systems and technologies

Governance-First Mindset

Governance-first mindset in complex environments

Long-Term Continuity

Long-term continuity versus short-term transactional staffing

- 📄 Rather than filling a temporary gap, Golden Technology delivered sustained operational value within a Fortune Global 10 manufacturing enterprise.

10. Results Snapshot

10

Years of Continuous Engagement

A decade-long embedded consultant relationship

6

Manufacturing Plants Trained

Cross-plant training and system implementations

1

Permanent Hire Transition

Consultant transitioned to permanent role with the client

01

Expanded from data cleanup initiative to enterprise governance contributor

02

Standardized data definitions across major systems

03

Supported cross-plant training and system implementations

04

Strengthened data governance and workflow controls

05

Transitioned to permanent hire