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Digital Transformation for Enterprise Management

A Unified Solution for UK Manufacturing

Submitted by: much. consulting (Odoo Gold Partner)

Solution: Odoo ERP - Manufacturing Implementation

Core Focus: Enterprise Management

Sub-categories: Quality Management, Production Planning and Control, Product Lifecycle Management (PLM)

1. Executive Summary:

UK manufacturers often rely on fragmented legacy systems and disconnected spreadsheets, which hinders growth, increases operational risk, and limits visibility.

much. consulting offers a unified digital platform powered by Odoo ERP. We modernise your Enterprise and Operations Infrastructure, enabling you to gain **real-time visibility**, significantly **reduce waste**, improve **"Right First Time"** metrics, and **shorten lead times**.

Our solution addresses the critical pain points of Enterprise Management through four key pillars: Quality Validation, Planning Excellence, Product & Process Design, and Connected Infrastructure.

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2. Transforming Core Business Challenges into Strategic Advantages

We convert typical manufacturing friction points into streamlined, competitive processes.

A. Quality Management & Validation: Proactive, Compliant Control

Stop reacting to failures and start preventing them with integrated quality control.

Challenge (Current State)	Solution (Odoo + much.)
Paper-based Checks: Data lag and compliance risks from clipboards.	Integrated Quality Points: Quality Control Points (QCPs) embedded directly into digital work orders, ensuring compliance (e.g., EU GMP Annex 11 , FDA 21 CFR Part 11 , and ALCOA+ principles) via digital signatures and non-editable audit logs.
Traceability Gaps: Slow, complex tracing of defects to operator or supplier.	End-to-End Traceability: Full upstream/downstream tracing. Identify every affected unit and customer for a recall in seconds.
Lack of Visibility: Siled quality data hides trends and failing machines.	Real-Time Alerts: Automated "Quality Alerts" instantly trigger maintenance requests or notify management if failure rates spike on a specific line.

B. Production Planning and Control (PPC): Optimised Capacity and Delivery

Move beyond "Spreadsheet Chaos" to a dynamic, demand-driven schedule.

Challenge (Current State)	Solution (Odoo + much.)
"Spreadsheet Chaos": Planning disconnected from live inventory and reality.	Master Production Schedule (MPS): A dynamic, integrated scheduler calculating requirements based on real demand, lead times, and current stock.
Unknown Capacity: Over-promising delivery dates due to machine availability confusion.	Finite Capacity Planning: Visual Gantt charts show real machine load, preventing overbooking and suggesting realistic manufacturing dates.
Material Shortages: Unexpected production stops due to late component ordering.	Automated Replenishment: "Make-to-Order" and "Reordering Rules" automatically trigger Purchase Orders (POs) or Manufacturing Orders (MOs) when stock dips.

C. Manufacturing Product & Process Design (PLM): Single Source of Truth

Manage engineering data and process definitions digitally without disrupting the shop floor.

Challenge (Current State)	Solution (Odoo + much.)
Undefined Processes: Operators rely on tribal knowledge or static PDFs.	Digital Process Definition: Dynamic Odoo Routings guide operators step-by-step. Supports complex processes like Additive Manufacturing parameter validation.
Version Control Errors: Shop floor uses outdated drawings.	Single Source of Truth: BoMs / Master Formulas and engineering drawings are linked. Approval via an ECO (Engineering Change

Challenge (Current State)	Solution (Odoo + much.)
	Order) instantly updates shop floor tablets.
Disconnected Data: Engineering data separate from Purchasing and Inventory.	Integrated Costing: Changes in the BoM automatically update manufacturing cost and expected margin, providing instant commercial feedback.

D. Inventory Management & Automation: Accuracy and Efficiency

Achieve 99% accuracy and leverage the power of automation.

Challenge (Current State)	Solution (Odoo + much. consulting)
Stock Inaccuracy: Physical stock rarely matches the system.	Barcode & Mobile Scanning: All inventory moves (Goods In, picking, despatch) are executed via handheld scanners, updating inventory in real-time, including strict Quarantine and Release status management ..
Disconnected Automation: Automated storage or AGVs operate independently of the ERP.	Robotic Warehouse Integration: Odoo acts as the central brain, sending commands via API to automated storage systems and AGVs to direct material movements.

3. Unifying Your Business Infrastructure

We integrate your entire operation—from Sales to Finance to the Shop Floor.

A. Business Operations & Infrastructure

Challenge (Current State)	Solution (Odoo + much. consulting)
Siloed Departments: Manual re-keying errors between Sales, Warehouse, and Finance.	Unified Platform: One app for everything. A sale triggers a delivery note, which triggers an invoice. Data flows seamlessly ensuring full HMRC Making Tax Digital (MTD) compliance.
Blind Decision Making: Management waits until month-end for profitability reports.	Live Dashboards: Real-time reporting on OEE, scrap rates, margin, and sales velocity for agile, instant decision-making.
Inefficient Procurement: Reactive purchasing leads to expensive rush orders.	Smart Purchasing: The system optimises stock levels based on historical usage and supplier lead times, freeing up cash flow.

B. Maintenance (TPM) and IIoT

Challenge (Current State)	Solution (Odoo + much. consulting)
Reactive Repairs: Unplanned downtime from machines breaking down.	Preventive Maintenance: Automated schedules trigger requests based on time or IoT usage data (e.g., every 10,000 cycles).
Disconnected Machines: Machine data is trapped in the PLC.	IoT Integration & Edge Computing: Odoo IoT Boxes connect directly to equipment to read cycles automatically, enabling Mass Data Capture for live OEE calculation.
Manual Timesheets: Estimated labour costs based on paper sheets.	Real-Time Job Tracking: Operators clock in/out of specific

Challenge (Current State)	Solution (Odoo + much. consulting)
	Work Orders on touchscreens. Labour costs are allocated precisely to the product being made.

C. Reporting & Analytics

Challenge (Current State)	Solution (Odoo + much. consulting)
"Excel Hell": Days spent collating data for basic KPIs.	Dynamic Dashboards: Customised, real-time dashboards for every role. Users can drill down from a high-level graph directly into the source transaction.
Costing Uncertainty: Management doesn't know the true margin of products.	Real-Time Job Costing: Track material, labour, and overhead costs per unit in real-time. Identify profitable products and areas for cost reduction.

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4. The much. consulting Advantage

Choosing the right partner is as critical as choosing the right software.

- **Manufacturing Expertise:** We configure the system to handle real-world scenarios—scrap management, sub-contracting, and multi-level BoMs—not just basic transactions.
- **Rapid Implementation:** Unlike traditional ERP projects that take years, our agile methodology typically delivers a functional system in **3 to 6 months**.
- **Scalability:** Start with core manufacturing and inventory, then easily add maintenance, IIoT, or eCommerce later, ensuring your investment grows with you.

Trusted by Regulated Industry: We are the digital backbone for Europe's deep-tech innovators. We deliver GxP-compliant enterprise solutions for companies like **iThera Medical** (ISO 13485 compliant imaging) and **Wingcopter** (aviation-grade logistics), proving our ability to align Odoo with the strictest regulatory standards.

Ready to Discuss Your Digital Journey?

Contact us today to schedule a free consultation.

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