

# SFG Aluminium Ecosystem - Gap Analysis

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**Date:** November 3, 2025

**Status:** Initial Assessment

## Current State

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### Registered Capabilities

- Time tracking (Chronoshift-Pro)

### Missing Capabilities

- Manufacturing operations
- Quality control
- Inventory management
- Customer relationship management
- Financial management
- HR and payroll
- Supply chain management
- Business intelligence
- Document management
- Communication tools

## Gap Categories

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### Critical Gaps (Immediate Need)

#### 1. Manufacturing Operations

- Production scheduling
- Machine monitoring
- Maintenance tracking
- Quality assurance

#### 2. Financial Management

- Invoicing
- Expense tracking
- Budget management
- Financial reporting

#### 3. Customer Management

- CRM system
- Order management
- Customer portal
- Support ticketing

### Important Gaps (Short-term Need)

#### 1. Inventory Management

- Stock tracking

- Reorder automation
- Warehouse management

## 2. HR Management

- Employee records
- Payroll processing
- Leave management
- Performance tracking

## 3. Supply Chain

- Supplier management
- Purchase orders
- Delivery tracking

## Nice-to-Have Gaps (Long-term)

### 1. Business Intelligence

- Analytics dashboards
- Predictive modeling
- Trend analysis

### 2. Automation

- Workflow automation
- AI assistants
- Process optimization

## Recommendations

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### Phase 1 (Weeks 1-2)

Register 10 priority apps covering:

- Manufacturing operations (3 apps)
- Financial management (3 apps)
- Customer management (2 apps)
- Inventory management (2 apps)

### Phase 2 (Weeks 3-4)

Register remaining 40 apps covering:

- HR management
- Supply chain
- Business intelligence
- Support functions

### Phase 3 (Month 2+)

- Implement MCP protocol across all apps
- Deploy orchestration workflows
- Optimize and consolidate

## ROI Tracking

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### Expected Savings

- Staff time: 20 hours/week → 10 hours/week (50% reduction)
- Annual savings: £50,000+ (estimated)
- Efficiency gains: 2x productivity

### Measurement

- Track time saved per app
- Monitor error reduction
- Measure automation rate