

Eliminating Scrap Value Leakage with IoT-Based Automation

Industrial Manufacturing Enterprise — Multi-Plant Scrap & Material Management

CHALLENGES & ISSUES

- **Inconsistent operations:** no standardized process or infrastructure for scrap management across plants.
- **Manual, man-dependent scrap inventory:** in-house tracking and record-keeping relied on manual effort and paper trails.
- **Error-prone data:** manual processes left incomplete audit trails and unreliable records.
- **Governance & compliance gaps:** weak internal controls created oversight and compliance risk.
- **Value leakage:** scrap pilferage and malpractice carried direct financial and commercial impact.
- **No ERP integration:** scrap operations sat disconnected from core enterprise systems.
- **No system of record:** no digital trace for scrap audits, ESH, or financial/commercial compliance.

HOW TRANSMATIX WORKS

- **IoT-based digital enterprise solution:** captures comprehensive scrap management metrics for informed decisions.
- **End-to-end tracking:** covers gate entry to gate exit, shop floor to scrap yard, through weighment areas.
- **Business process integration:** acts on device-level insights — alerts, messaging, and integration with SAP, CRM, ERP.
- **Automated data ingestion:** removes manual touchpoints and dependency constraints across the process.
- **Connected data flow:** IoT sensor and event data flows from plant/process area straight to the end-user application.
- **Co-designed & configurable:** flexible architecture tailored to each customer's business processes.

VALUE PROPOSITION & BENEFITS

Enterprise-Wide Visibility Actionable insight into operational efficiency, shop floor areas, and material movement to drive better decisions.	Scrap Inventory Management Clarity across loading areas, swarf yard, quality cell, hazardous waste, and weighment areas, with accurate, timely data.	Traceability & Compliance Leadership gets aggregated, plant-wise analytics from the ERP, while handlers operate with stronger compliance on the ground.
Eliminates Value Leakage Closes gaps across shop floors, scrap loading, swarf yard, and weighbridge areas that previously enabled pilferage.	Scrap Analytics & Reporting Covers scrap management, material-in, hazardous/intra-unit movements, and compliance reporting in one view.	Digital Trace & Audit-Ready Full documentary evidence for scrap audits, ESH, and financial/commercial management (FCM).

Minimize Value Leakage Across Scrap Management Operations

Connected devices drive data-driven decisions on scrap operations — increasing profitability, giving full visibility into performance metrics, and delivering accurate, timely monitoring of scrap generation, inventory, and sales with a complete digital trace.