

IX[®] Case Study
Process Digitization

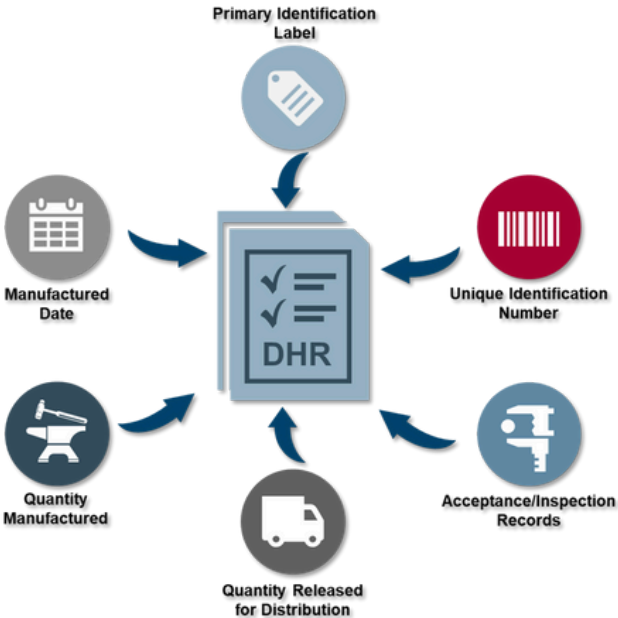


IMPLEMENTATION
ENGINEERS[®]
BEYOND CONSULTING

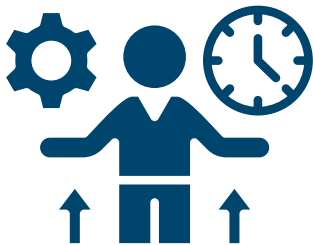
\$12.4M
annual cost
savings

25%
of manual DHR
entries
automated

Implementation Engineers collaborated with a leading medical device manufacturer, specifically focusing on the production of trauma plates. The existing paper-based Device History Records (DHR) process was identified as a source of inefficiencies and quality issues within the manufacturing plant. To address these challenges, our team introduced an innovative solution by implementing an electronic DHR (eDHR) system.



eDHR Benefits



Productivity Savings

- Removal of in-process DHR reviews
- Data recording time reduction



Quality Savings

- Defect lot reduction - Documentation errors on DHRs often require a rework order to re-inspect or correct the issue, each consuming 5 hours of manufacturing production time and labor



Paper Savings

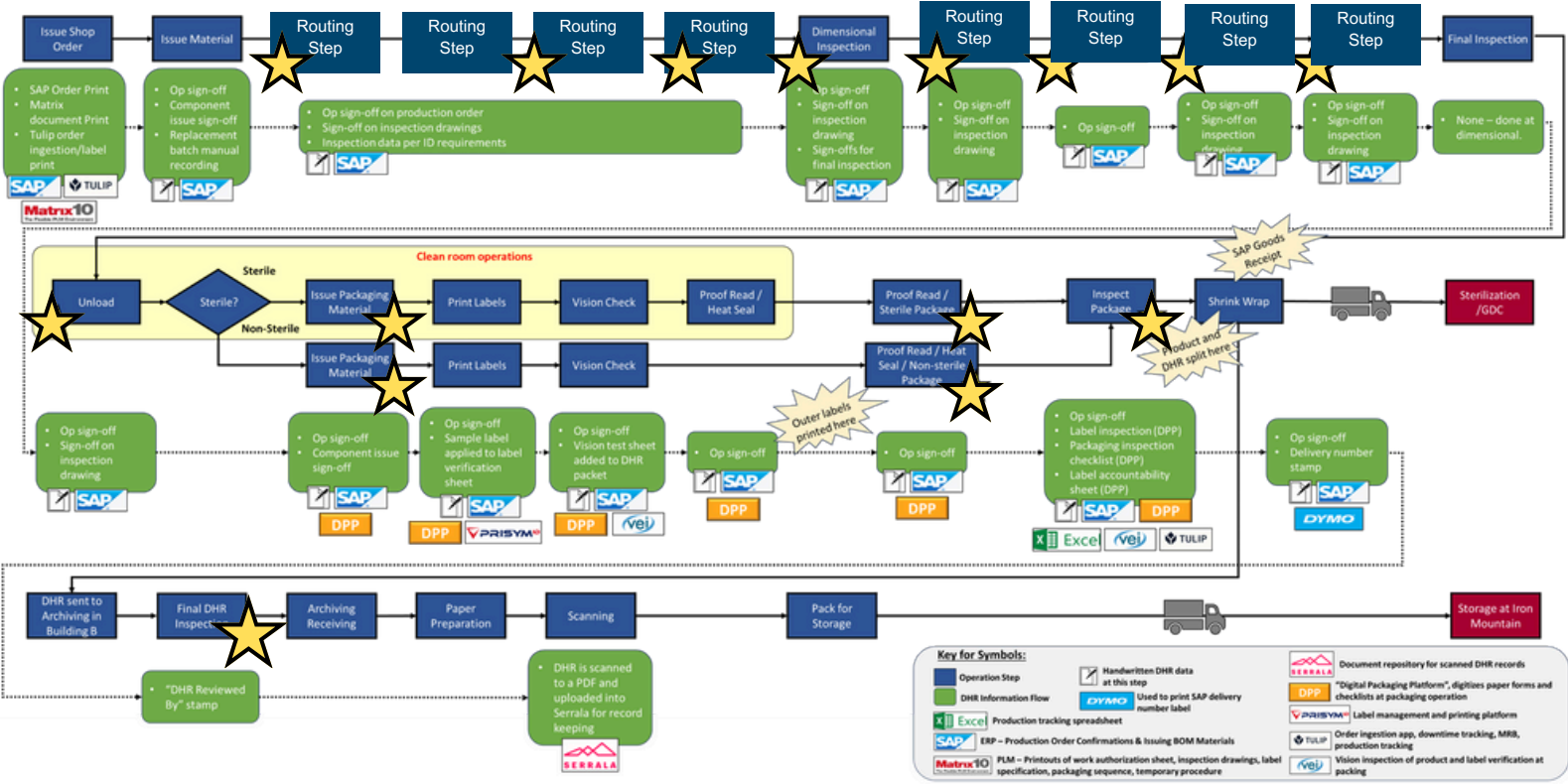
- Reallocated labor from Archiving
- Eliminated incremental paper storage costs
- Reduced printing costs

IX® in Action (continued)

Mapping the DHR Information Flow

The eDHR system was designed to streamline operations by reducing manual entries and enhancing error-proofing measures. With traditional DHRs spanning 50-60 pages and containing 400-500 handwritten entries, the transition to eDHR significantly minimized manual data input requirements.

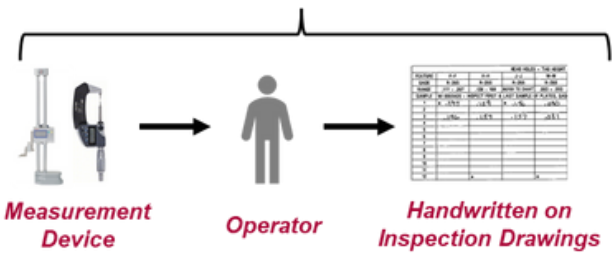
★ Manual DHR review by operators - DHR reviewed 13 times!



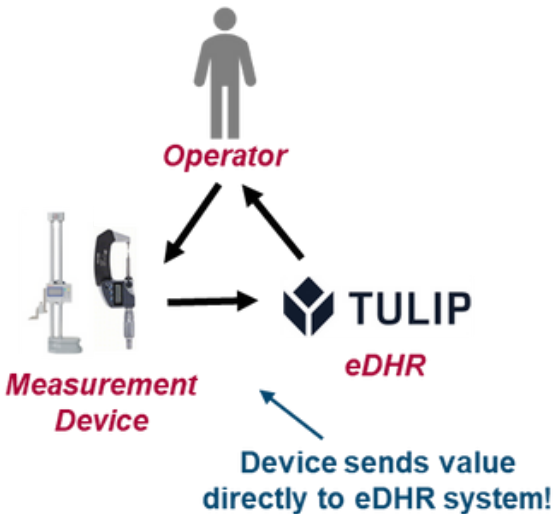
Connected Devices Are An Additional Benefit

By automating key processes such as gage calibration dates and inspection drawing entries, the eDHR system eliminated approximately 25% of manual data entry tasks.

How Measurements Recorded Before eDHR

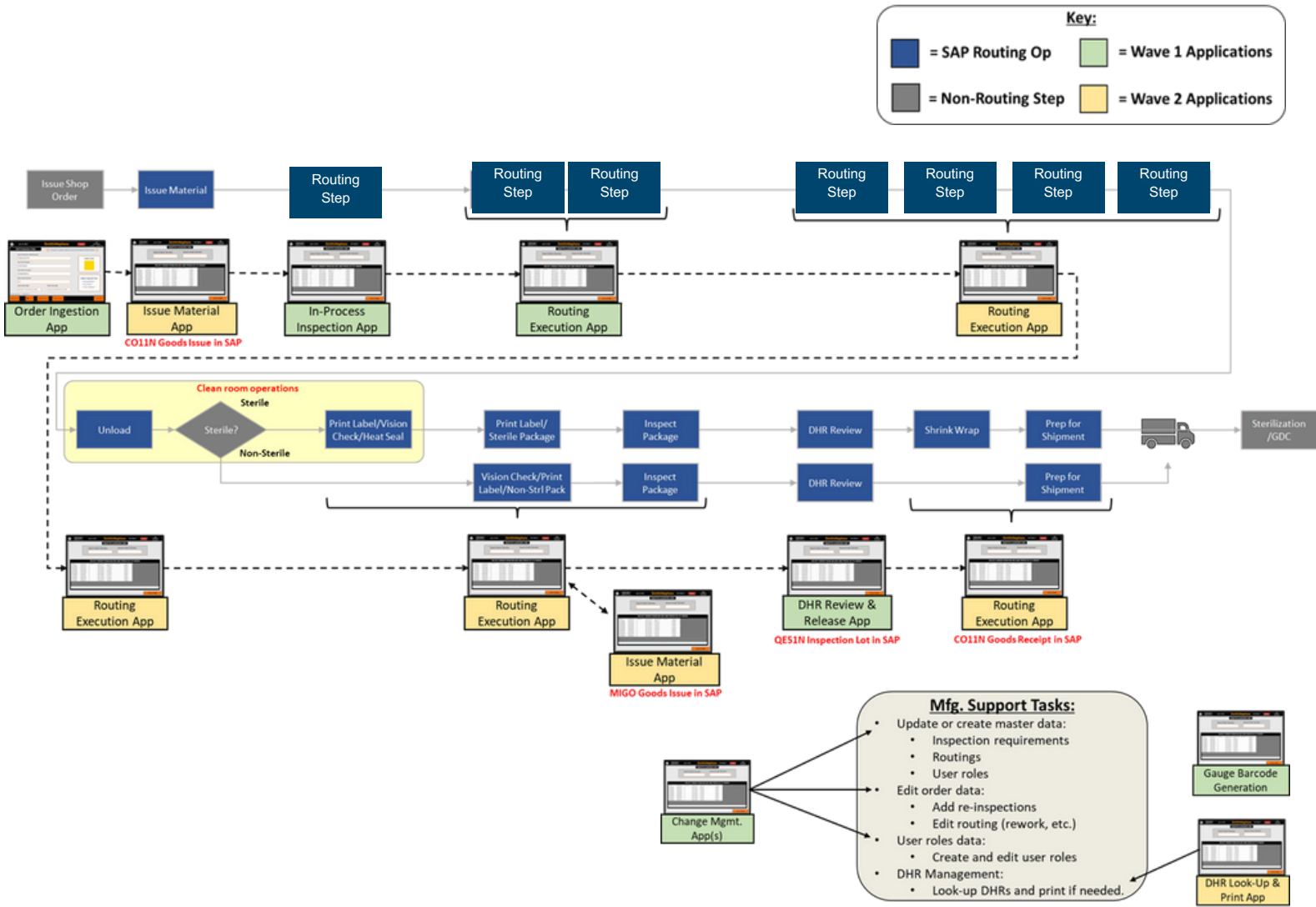


eDHR Enables Connected Devices



eDHR Approach

Leveraging a composable app architecture, we developed a suite of specialized apps tailored to each manufacturing process, all supported by a shared table model for seamless system integration. This approach enabled us to adopt an Agile development methodology, allowing for iterative app prioritization, development sprints, and validation.



Apps Developed

1

Order Ingestion

2

Routing Execution

3

Issue Material

4

In-Process Inspection

5

eDHR Review & Release

6

Shipment Prep

7

Gauge Barcode Creation

8

Change Management/Admin

Sustainable Results

Implementation Engineers' successful transformation of our client's DHR process not only optimized operational efficiency and quality control but also paved the way for enhanced manufacturing capabilities and compliance standards within the medical device manufacturing industry.

Next Steps

- Schedule a meeting with our team to discuss how Implementation Execution (IX®) can help your organization achieve its goals. Submit an IX® request on our website at www.implementation.com
- Visit www.implementation.com to read more about IX® and how we have helped our clients create sustainable results
- Follow us on LinkedIn to stay up to date with the latest industry insights and updates. Join our network to access exclusive content and stay connected with our team of experts

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