

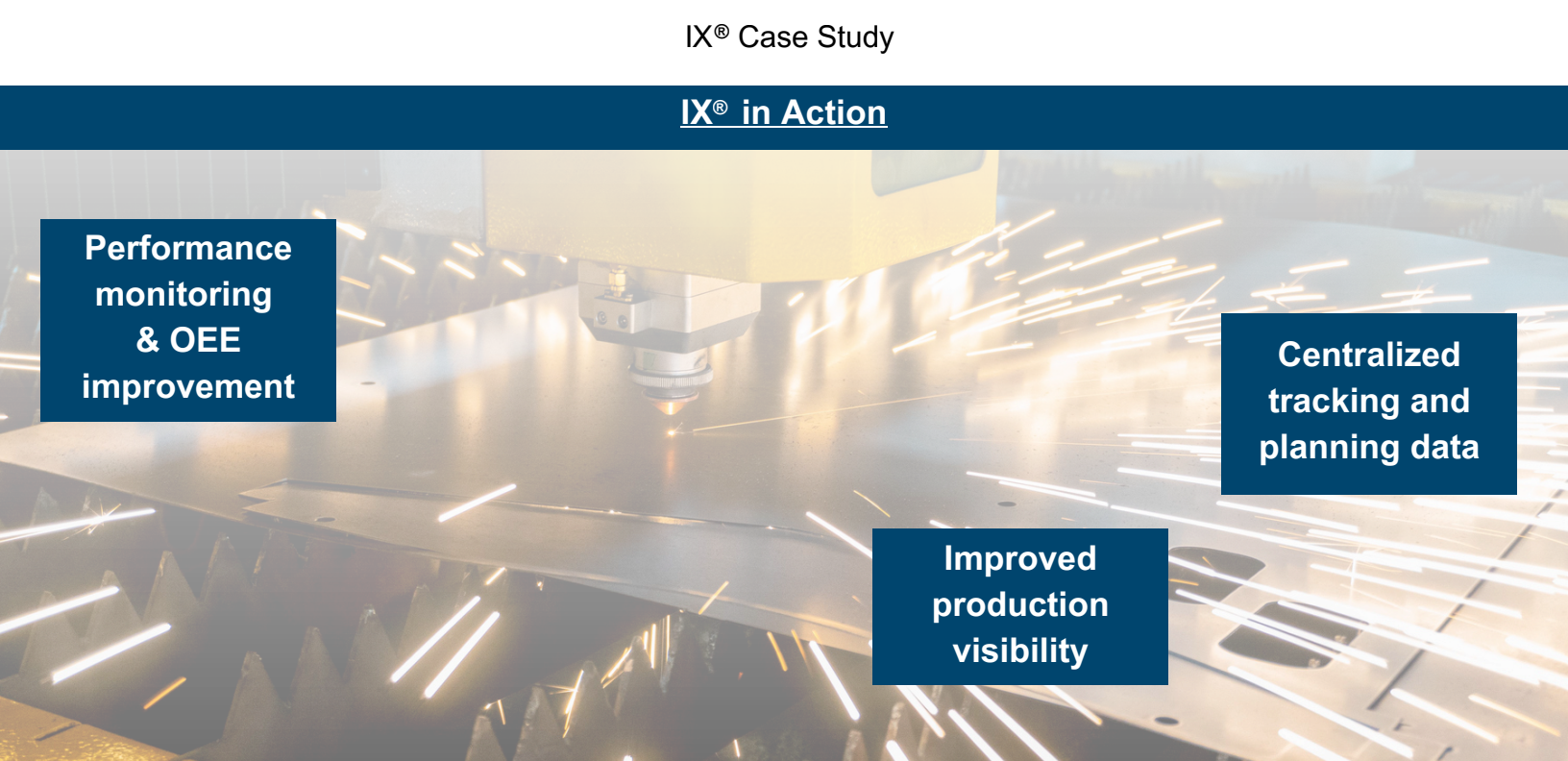


IX® Case Study

Designing and Deploying Tulip Apps to Digitize Production and OEE Tracking



IMPLEMENTATION
ENGINEERS®
BEYOND CONSULTING



Performance
monitoring
& OEE
improvement

Centralized
tracking and
planning data

Improved
production
visibility

A major steel manufacturer partnered with Implementation Engineers to digitize critical shop floor and production management processes using Tulip. The operation was heavily reliant on paper, Excel files, and manual tracking, which limited visibility into order status, production flow, and performance.

Implementation Engineers mapped the current-state process, identified where digital tools would create the most value, designed and deployed four Tulip applications, and trained the client's team to use the tools to drive day-to-day performance.

The Challenge

The client's production and tracking processes were fragmented and manual:

- No real-time visibility into order status
- Limited visual management of work in process, bottlenecks, and capacity
- Manual order creation and release workflows
- Paper-based production processes that created waste and slowed communication
- Multiple Excel files used for forecasting, tracking logs, and dashboarding
- Limited connection between production activity and performance tracking

This made it difficult for leaders and operators to see what was happening in real time, respond quickly, and manage performance consistently.

1

Before building any applications, we worked with the client to understand how the operation actually functioned.

- This step ensured the technology was designed around the business process, not forced onto it.

Primary Process Confirmation

Sales Order ID
507067

Parent Item ID
99600157644-0

Child Item ID
99600144771-0

Primary Process
BURN

Primary Complete?

Material Type
A514

Qty Required?

Qty Complete?
0

Qty Scrap?
0

Menu

Assembly Instructions

Fabricate part per print. NOTE: This part requires XYZ, instead of ABC.

Additional Feature Idea: Add inspection points for any critical features on the part. Make these required for customer KCs, parts with past quality issues, etc.

Supporting Documents

Document

99600144771.pdf

Qty. Completed

0

Qty. Scrap

0

Notes

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Our Approach

2

Designed and Deployed Four Tulip Apps

Based on the process mapping, we designed and deployed four Tulip applications to digitize key workflows.

Order Management App

- Used by the team responsible for creating and releasing production orders. This app digitized the intake and release process, replacing manual Excel-based order creation and reducing reliance on paper.

Order Execution App

- Used by operators on the floor to guide work and confirm completion of parts. This created better production visibility and a more consistent execution process.

Tracking Log App

- Designed to replace individual spreadsheet-based tracking logs and centralize production-related data in one place. This reduced the complexity of managing multiple files and made information easier to access and maintain.

Forecast & Demand Planning App

- Built to replace the Excel-based forecast process and support more structured planning and demand visibility. This created a more connected view between expected demand, production tracking, and performance management.

The screenshot shows a web application titled "Shop Order Creation Terminal". It features a "Menu" icon in the top right corner. The main content area is titled "New order details" and contains several input fields: "Customer *" (a text box), "PO Number *" (a text box), "Sales Order # *" (a dropdown menu), "Product *" (a dropdown menu with "Select an option" as the current selection), "Sales Order # Quantity *" (a dropdown menu), "Due Date *" (a text box), and "External Vendor Date *" (a text box). At the bottom left of the form is a green button with a plus icon and the text "+ Create order". At the bottom left of the entire screen is a blue link labeled "← Previous".

Order Management App

IX® in Action (continued)

How We Utilized Tulip

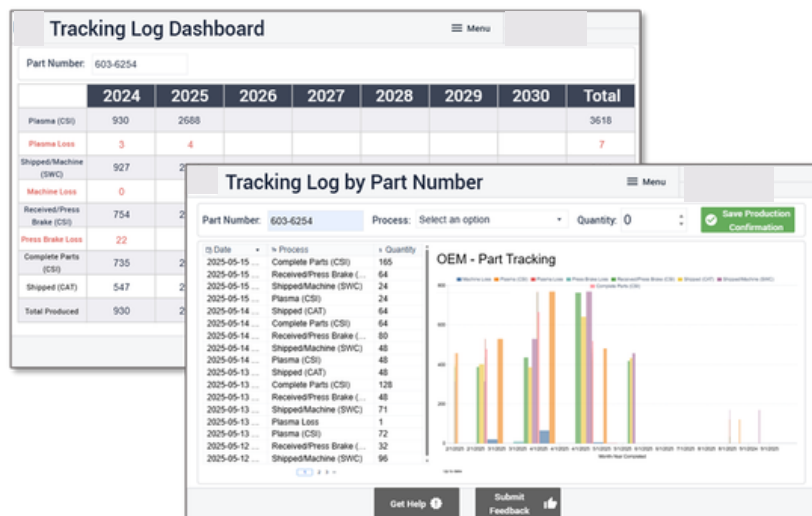
Tulip served as the platform to turn manual workflows into usable digital tools that operators, planners, and leaders could adopt quickly.

We utilized Tulip to:

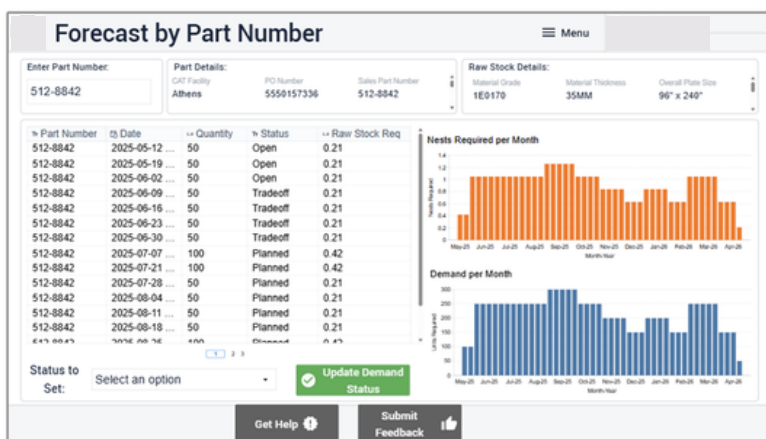
- Digitize order creation, release, and execution workflows
- Replace spreadsheet-based logs and forecasting tools
- Centralize production and planning data
- Improve visibility into order progress, production activity, and operational performance
- Create a foundation for OEE tracking by capturing more timely and accurate shop floor data
- Support performance management with applications designed for real operational use, not just reporting

Order Execution App

Tracking Log App



Forecast & Demand Planning App



Our Approach

3

Trained the Client's Team to Sustain and Use the Tools

A key part of the work was making sure the client could use the apps to drive performance long after deployment.

- Trained internal subject matter experts on Tulip and the applications
- Provided documentation and training content to support long-term sustainability
- Helped the team understand how to use the apps in daily operations
- Built internal capability so the client could maintain and expand the applications over time

This made the solution sustainable and helped turn the apps into part of how the business runs, rather than a standalone digital project.

Impact

The Tulip deployment helped the client move from manual and disconnected tracking to a more visible, structured, and performance-driven operation.

Key outcomes included:

- Improved production visibility
- Less reliance on paper and disconnected spreadsheets
- More standardized order management and execution
- Centralized tracking and planning data
- Better ability to monitor performance and support OEE improvement
- Greater internal capability to sustain and build on the solution

Let's Turn Your Vision into Results

At Implementation Engineers, we don't just execute projects - we transform your vision into operational reality. Our proven 3-phase approach - **Align, Design, Execute** - delivers lasting value, from aligning your team on strategic goals to optimizing operations and driving measurable outcomes. Whether you're aiming to lead your market, boost efficiency, or maximize shareholder value, we're here to make it happen, step-by-step, side-by-side.

Ready to Get Started?

Let's explore how we can bring your vision to life. Contact us today to schedule a conversation. Together, we'll chart the path to your success.

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