PELICO

Reducing Parts Shortages and WIP While Ramping Up Aerospace MRO Operations

How an aerospace leader in MRO leverages data to streamline cross-functional collaboration and accelerate shop operations

MRO teams of the aerospace leader in MRO share their feedback

THEFT



"In the past, I spent a lot of time updating Excel files, but now Pelico saves me a huge amount of time so I can focus on tasks with real added value."

Charlotte MRO Master Planner



"In 4 months, we reduced by 88% the number of our missing parts and we don't have any missing components left without PO associated."

Sammy Production Planning and Supply Chain Manager "The benefits of Pelico have been the increase in the MRO Supply chain team's productivity. For example, there were 73% fewer missing parts at the end of grid 2."

Paul Services and MRO Manager

Customer Service

"Services, at our company, are growing massively. In this context, we have launched a major operational excellence plan to enhance our customer delivery framework as well as out client satisfaction. With this in mind, we decided to deploy Pelico platform to first of all, improve our performance towards our OTD but also, to boost out resource capacity, which is limited. Pelico platform precisely helps us optimize resource usage and focus the team on value-added activities."

Matthieu VP Customer Support & Services



"Pelico has made our operations easier. We've gone from emergency mode, wondering why deliveries were missed, to thinking ahead and asking what needs to be done to deliver."

Anne Customer Account Manager

Context & Challenges

Pelico's Aerospace MRO customer was growing quickly in an as increasingly complex operational environment



Daily supply chain disruptions hindered the shop's performance



Process latency, inaccurate data and inadapted tooling made the daily adjustment to these disruptions even more challenging

70% of operations teams' bandwidth is allocated to piecing together the data required to adjust repair planning to factory disruptions



Decision-making was jeopardized by teams' difficulty to manage data efficiently

Because they didn't benefit from a tool supporting the operational management of the plant's supply chain teams were being confronted to erroneous data, all having tangible detrimental effects.

Work Orders date	Lost Work Order request due	Spreadsheet
in the past	to tedious manual updates	comporting errors
KPI(s) jeopardized : OTD, WIP, planning adherence For each work order (PO) with a starting date erroneously positioned in the past, all associated work orders dates would also start in the past. As a result, the whole repair planning would become obsolete.	 KPI(s) jeopardized: Customer Satisfaction For each Work Order, the Customer Service team would have to update various tools (CRM, ERP, spreadsheets). Manually replicating the data would lead to data loss or depreciation. 	 KPI(s) jeopardized: OTD, WIP When formatting the data from the ERP to spreadsheets, teams risk to make mistakes in formulas. Each of these mistakes can result in an insufficient parts order, and hence jeopardize the delivery date.

Approach

inchia CE

Starting situation: the shop's operations were rhythmed by team's routines requiring access to data



Level 1 Level 2		WEEKLY ROUTINE		
Reception Routine Routine: Manual updates of new Service Orders (SO) received and planning of technical reviews. Contributor(s): MRO Flow Manager of each gate, Gatekeepers Tool(s): Tracking spreadsheet, paper file	Reassembly Routine Routine: Piecing together the data to assess the most critical missing parts to be addressed in order to complete an SO. Contributors: MRO Flow Manager of each gate, Customer Support/Commercial Teams Tool(5): Spreadsheets, CRMs, emails, ERPs	Inspection Routine Routine: Review of late or at risk modules, analysis of the planning to find a mitigation solution and assessment of its feasibility. Contributor(s): MRO Flow Manager of each gate Tool(s): Spreadsheets, phone calls and/or emails.	 Daily Escalation meetings Routine: Manual updates of new Service Orders (SO) received and planning of technical reviews. Contributor(s): Shop management, MRO Flow Manager of each gate, Gatekeepers Tool(s): Excel files 	Weekly Load & Capacity Schedule Routine: Decision making on the planning and the repair orders to prioritize Contributor(s): Master Production Scheduler, Gatekeepers, Supply chain managers, Planner Tool(s): Spreadsheets (holidays planning, PIC)

To identify levers to optimize those routines, Pelico mapped existing processes through users' shadowing



Thanks this mapping, Pelico was implemented to support the productivity and efficiency of those routines



 $\overline{\mathbf{Z}}$ Time to complete the routines per perimeter: **2 hours** vs. **10 minutes**.

- 🐞 Number of tool(s) required: 6 vs. 1.
- Time required to find a mitigation strategy for each bottleneck: **18 minutes** vs. **5 minutes**.

Because the MRO shop's team could keep its existing processes while using Pelico, adoption of the tool went smoothly





Results



Key Achievements within 11 weeks



A high and extensive user (97%) adoption rate allowed MRO teams to experience results within a few weeks following Pelico's deployment



MRO team improved its productivity by 80% in data preparation & analysis, leading to decisions made 5x faster



Shop team made better decisions and reallocated 56% of the time saved on data preparation and analysis to value-added tasks



As a result, the MRO shop witnessed significant improvement in Suppliers OTD



Supplier On Time Delivery - Internal Stock Transfer Orders

The reduction in missing parts resulted in significant improvements in the global business



+15% **Customer OTD** 18% **WIP** reduction



FACTORY OPERATIONS MANAGEMENT PLATFORM

www.pelico.ai contact@pelico.io