

AEROSPACE & DEFENSE CUSTOMER USE CASE

Leveraging aPriori For Manufacturing Insights

Introduction

aPriori solutions are for business leaders at discrete manufacturing companies that need to better understand how they can be more innovative, profitable, sustainable and bring their products to market quicker than the competition. Our solutions help you make more informed product design, sourcing, and production decisions confidently.

Unlike other disconnected tools like email spreadsheets and siloed expert knowledge, aPriori automatically combines your product design data with our manufacturing process simulation and regional economic data to yield **insights that accelerate your time to market by 20% while achieving millions of dollars in cost savings.**

We do this by enriching the digital thread and leveraging all the intelligence embedded in your CAD models to enable DfX initiatives such as Design for Manufacturability, Design to Cost, Design for Sourcing, and Design for Sustainability. Innovative companies use these solutions to accelerate time to market, cut costs, increase agility and resilience, and improve sustainability of your manufacturing operations.

The following is a real-world project that **illustrates the potential and realized savings an aerospace & defense customer of ours identified using aPriori.** This company is “brand sensitive” so we have removed their name. But rest assured, this example represents an actual use case.





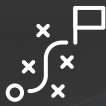
Design & Cost Engineers

aPriori helps the entire design engineering team by enabling them to manage the manufacturability of multiple projects simultaneously. In just seconds, they can identify and mitigate product cost drivers and highlight manufacturability issues before designs are released. Need real-time DFM and DTC guidance while designing in CAD? We've got that covered too. aPriori offers multiple modes to deliver actionable insights so design and cost engineers can make smarter design decisions in less time.



CHALLENGE

- Defense contractor's team needed to transition from low-rate volumes to full production with cost and cycle time challenges
- They had limited manufacturing expertise on the team which required an alternative solution to identify cost savings
- They were bound by strict program time constraints



SOLUTION

- Utilized aPriori to simulate high-risk, machined components manufacturing
- Analyzed alternative manufacturing processes for outliers
- Identify areas where the design specifications were driving their costs



QUANTIFIED RESULTS

- >\$100M in expected program lifetime savings (5 years) by uncovering manufacturing alternatives through aPriori
- Company leverages aPriori for significant DFM insight and alternate manufacturing feasibility

aPriori Provides Actionable Insight for Better Manufacturing

aPriori generates insights for manufacturing companies for three major challenges they are facing: inflation, cash flow, and sustainability. We do this by connecting your CAD/digital twin to a digital factory. aPriori connects all your functional product teams across the enterprise and across the world using a secure cloud instance. Automation and integration to enterprise applications improve your productivity across the board.

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