

A black and white photograph of three people in a meeting. A man with a beard is in the foreground, looking towards the right. Behind him, a woman is smiling. In the background, another woman is looking down. The image is partially obscured by a black diagonal shape that contains the text.

10 Ways to Add Value with aPriori

Today's manufacturing industry (and its evolving challenges and obstacles) demands for manufacturing organizations to embrace digital transformation and to integrate manufacturing simulation technologies into their daily operations and practices. Highlighted in this guide are ten ways in which aPriori's manufacturing simulation capabilities can be leveraged to navigate and optimize your manufacturing operations.

10 Ways to Add Value with aPriori

1. Fact Based Negotiation

When sourcing existing components, aPriori can provide you with a complete breakdown of information such as material costs, labor costs, overhead costs, tooling investments, and manufacturing process costs regarding a part so you can understand how the manufacturing cost is calculated.

This detailed component cost information guides discussions between you and your supplier, helping you focus on the biggest gaps between your data and theirs.

2. RFQ Reduction in Supply Chain

Expedite or even eliminate your RFQ process while collaborating more effectively with your manufacturing suppliers. By leveraging aPriori's digital factories, you are able to precisely and accurately replicate the manufacturing process and operations with your suppliers. Leverage insights obtained through these analyses and strengthen your partnerships with strategic suppliers.

3. Strategic Sourcing in a Dynamic World

With supply chains expanding across the globe, demand for high quality products, faster deliveries and cost pressures have increased. It's no wonder that sourcing managers and buyers are finding it more challenging to ensure orders are placed with the best suppliers that will deliver on time and at the most favorable price. In today's market, you simply don't have the time to send an RFQ and wait around for the negotiations to start. With aPriori, you don't have to.

4. Engineering Efficiency & Innovation

For organizations developing new products, designers and engineers can utilize aPriori to proactively prevent manufacturability issues and cost overruns. This aids in bringing innovative products to market faster by reducing the back and forth required to design products right the first time.

5. Design for Excellence

aPriori enables you to design your best-in-class-products with its intended design, within its' budget, and as quickly as possible.

By starting with a digital twin or 3D CAD rendering aPriori's solutions are able to extract accurate manufacturability details and create digital factories comprised of all of the relevant manufacturing cost models and regional data libraries that are mindful of particular scenario requirements. This insight allows for anyone within the product development cycle to exploit "design for excellence" in attributes such as design-to-cost, design-for-manufacturability, design-for-sustainability, etc. to optimize your product design and manufacturability readiness as an outcome.

6. Design to Cost

By integrating cost management with decision making at the design stage, design engineers can influence up to 70% of a product's final cost using aPriori.

7. Optimized Throughput

Successful manufacturability can hinge on one of many variables such as materials, production considerations (including heating or cooling times), and throughput speeds.

aPriori's solutions and intelligent analyses equip your team to run scenarios such as comparing outsourced production options globally, determining in-house manufacturing capacity, and evaluating different manufacturing processes and so forth enabling you to make the best decisions for developing your product and expediting its launch to market.

8. Material Cost Reduction

aPriori provides an in depth look into the material requirements and costs of a manufacturing process through the intelligence it acquires in running all of the analyses for the bid process. By equipping clients with this insight, they are able to better prepare for materials and supplies as well develop and overall more cost effective product.

aPriori estimates the cost of your parts by generating a virtual simulation of the manufacture of such parts/assemblies. In the process of doing so, the software generates not only detailed break-down cost information, but also manufacturing information that can help you execute material cost mitigation steps.

9. Optimize Bid Win Rate & Margin

With aPriori, you can rapidly identify key cost components and drivers for products you quote for your customers. aPriori automatically detects potential manufacturability issues for a single part or for an entire bid package. aPriori also analyzes cost variances across a range of manufacturing different routings, materials or regions of the world – all in a matter of minutes.

10. Automate, Automate, Automate

Automatically evaluate product designs and increase your workflow efficiencies to launch complex products faster. Meet your customer's growing needs while achieving profitability goals at the same time. You focus on innovation, and aPriori will focus on shortening your time to market and increasing your product profitability.

For more information on how aPriori can add value
[check out this video.](#)