aPriori

Manufacturing Insights Platform

Unlock your digital twins for profitable and sustainable products

aPriori provides a unique, end-to-end digital twin solution that empowers manufacturers to unlock and identify new opportunities rapidly for innovation, growth, cost savings, and sustainability. With aPriori, customers achieve a ~600% ROI and payback within six months of adopting our software platform. And companies use our automated manufacturing insights to eliminate product cost, improve productivity, and reduce their product's carbon footprint. aPriori also boosts manufacturers' digital thread investments to deliver business value at scale, increase agility, and minimize risk.
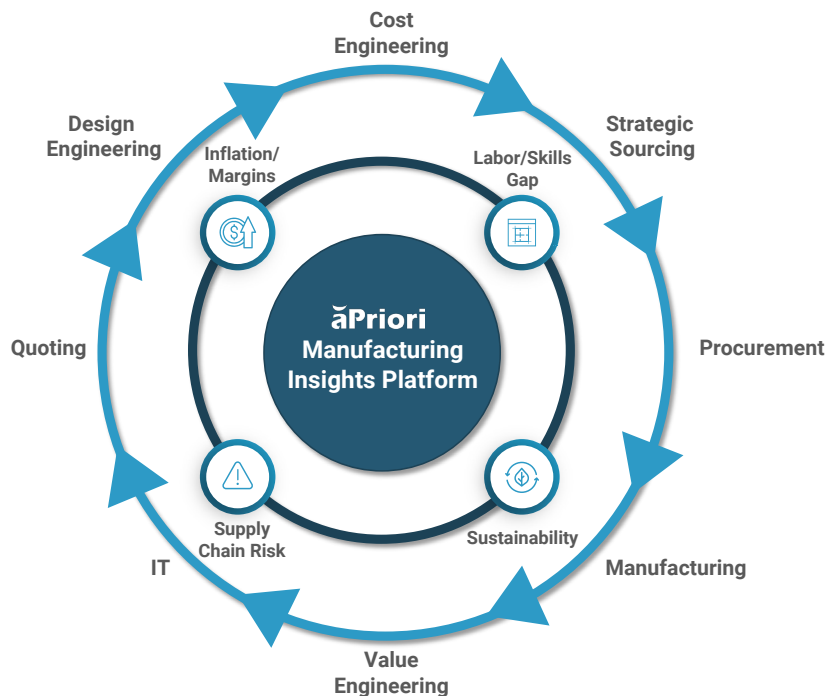
Unique Platform Features

Digital Factories: Create a digital twin of your in-house or supplier factories to simulate a variety of machines, materials, processes, overhead rates, and more.

Manufacturing Simulation Engine: Using the geometry extracted from 3D CAD models and aPriori digital factories, aPriori evaluates manufacturing feasibility, calculates cycle times, determines material usage, and tooling needs. The result is real-world manufacturing and product analysis with actionable manufacturability guidance in seconds.

3D CAD Geometric Intelligence: Generate automatic geometric analysis from 3D CAD models rapidly for single parts and complex assemblies. aPriori plug-ins for all major 3D CAD applications simplify and accelerate our in-app guidance.

Automated Analysis and Guidance: Get automated alerts to improve design. aPriori analyzes 3D CAD files when they are checked into your product lifecycle management (PLM) system and sends detailed recommendations so that engineers can evaluate and eliminate potential manufacturability and cost issues.

Connecting Teams to Address Industrial Challenges

Unlock value in your digital twins with automated manufacturing insights that include:

Product Cost Management
- Should cost
- Make vs. buy

Sustainability
- CO_2e footprint
- Design for Sustainability

Design Guidance
- Design for Manufacturability (DFM)
- Design to Cost (DTC)

Manufacturing Optimization
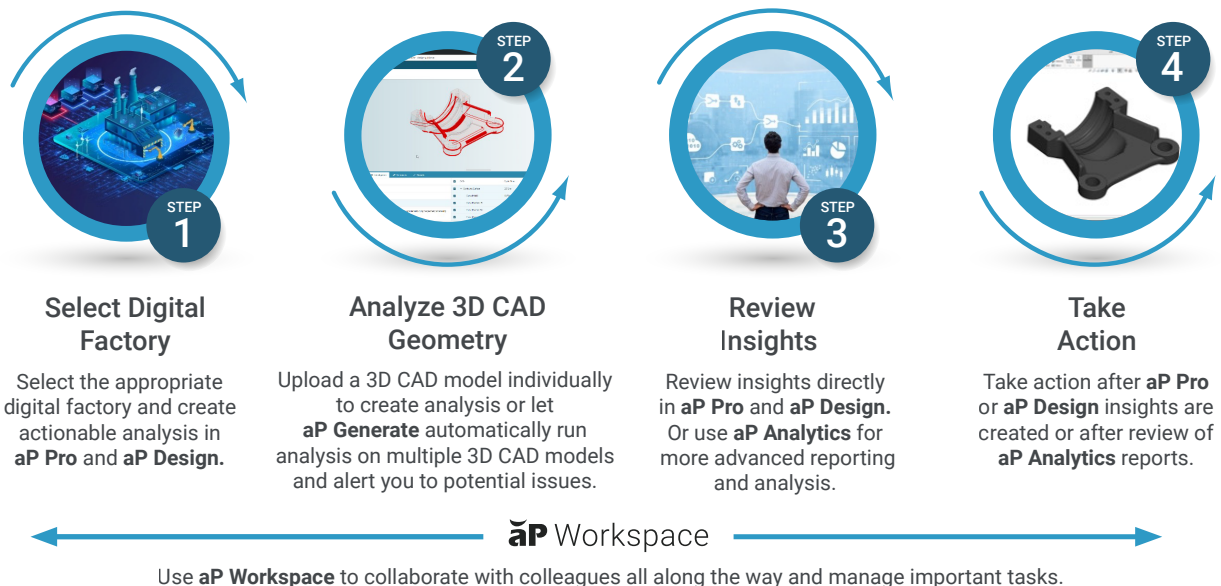- Machine selection
- Process routing

The aPriori Manufacturing Insights Platform

The aPriori Manufacturing Insights Platform leverages 3D CAD models to automate and simulate the entire production process. aPriori provides design and manufacturing data that teams use daily to make better decisions – including design and cost engineering, procurement, and sustainability.

aPriori's Manufacturing Insights Platform applications include aP Pro and aP Design, two role-based applications to create and view critical manufacturing and design insights rapidly. aP Generate accelerates automated insights via integration with PLM systems. Customers use our business intelligence (BI) application, aP Analytics, to create reports and dashboards based on aPriori insights. And with aP Workspace, users collaborate in real-time by sharing scenarios, commenting directly on 3D models, and managing important tasks.

Insights

Cost   Manufacturability   Sustainability

Applications

ăP Pro
For Cost, Manufacturability
& Sustainability Experts

ăP Design
For Design
Engineers

ăP Generate
For Enterprise Integrations
& Automation

Foundation

| Digital Factories | 3D CAD Driven Intelligence | MFG Simulation Engine | CAD Plugins | ăP Analytics | ăP Workspace |

4 Steps to Gain Powerful Manufacturing Insights

STEP 1

Select Digital Factory

Select the appropriate digital factory and create actionable analysis in **aP Pro** and **aP Design.**

STEP 2

Analyze 3D CAD Geometry

Upload a 3D CAD model individually to create analysis or let **aP Generate** automatically run analysis on multiple 3D CAD models and alert you to potential issues.

STEP 3

Review Insights

Review insights directly in **aP Pro** and **aP Design.** Or use **aP Analytics** for more advanced reporting and analysis.

STEP 4

Take Action

Take action after **aP Pro** or **aP Design** insights are created or after review of **aP Analytics** reports.

ăP Workspace

Use **aP Workspace** to collaborate with colleagues all along the way and manage important tasks.
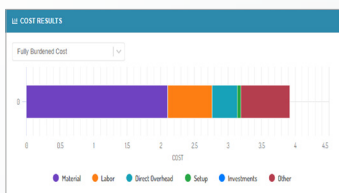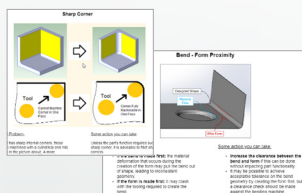
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Examples of aPriori Manufacturing Insights

aPriori enables manufacturers to see how their product designs are addressing cost, sustainability, and other key performance areas. And aPriori enables users to drill down and review specific insights to make informed decisions.
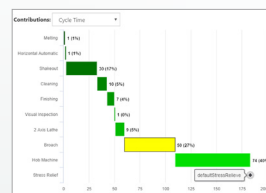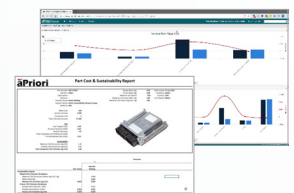
Cost Breakdown

Design Guidance

Manufacturing Feasibility
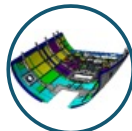

CO_2 Footprint

Manufacturing Process Modeling

aPriori's mechanistic analysis engine provides precise cycle times and operational costs across a range of manufacturing alternatives. Customers use aPriori to compare manufacturing processes and optimize production for specific project specifications. Our extensive list of manufacturing process models includes:
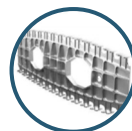
 Additive Manufacturing

 Assembly
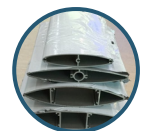
 Casting

 Composites

 Electronics

 Heat Treatment

 Machining

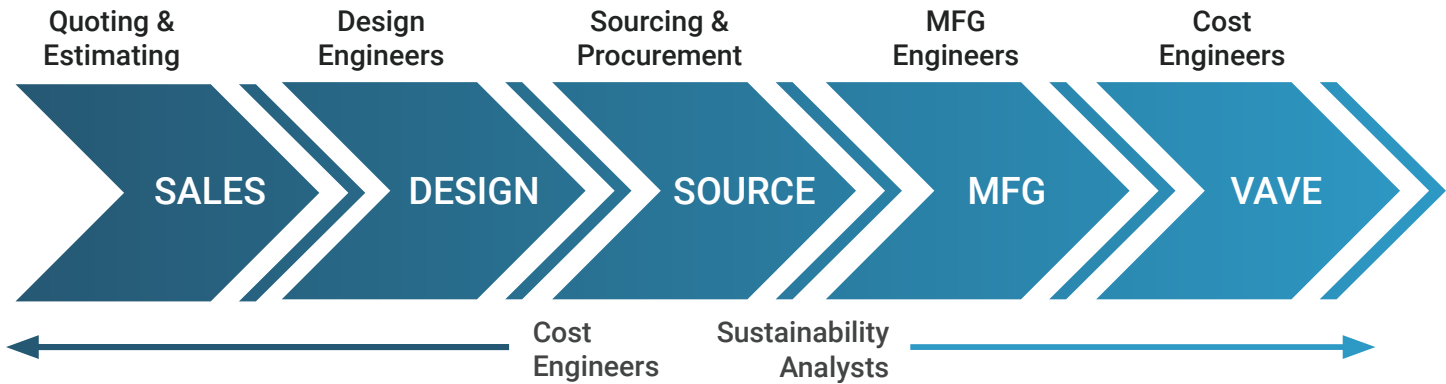 **Metal Forming**

 Plastics

 Surface Treatment

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Innovative Customers

Some of the world's most innovative and sustainable manufacturers use aPriori, including the following organizations.

INDUSTRIAL
Danfoss | Carrier | GRUNDFOS | xylem

AUTOMOTIVE &TRANSPORTATION
TOYOTA | DANA | NAVISTAR | ALSTOM

ELECTRONICS & HIGH-TECH
HITACHI | JABIL | flex | smiths detection

AEROSPACE & DEFENSE
BOEING | Honeywell | THALES | Collins Aerospace

OIL & GAS
Weatherford | NATIONAL OILWELL VARCO | BAKER HUGHES a GE company

AGRICULTURAL & CONSTRUCTION
AGCO Your Agriculture Company | CNH INDUSTRIAL | Agri-Fab

CLEAN ENERGY
Bloomenergy | Heliogen | Vestas

CONSUMER PRODUCTS
Haier | PELOTON | KEURIG

Used by Leading Companies Across the Product Development Cycle

Quoting & Estimating | Design Engineers | Sourcing & Procurement | MFG Engineers | Cost Engineers

SALES → DESIGN → SOURCE → MFG → VAVE

Cost Engineers | Sustainability Analysts

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