

aPriori

aP Analytics

Enterprise Business Intelligence to Shift from
Insights to Action Quickly and Confidently

aP Analytics Overview

aP Analytics delivers an enterprise-quality BI reporting solution to help your product development and sourcing teams make critical business decisions in seconds. As part of the aPriori Manufacturing Insights Platform, aP Analytics delivers actionable insights through web-based reporting, dashboards, ad hoc analysis, out-of-the-box reports, and automated export of cost data to a data mart.

Platform Features

Digital Factories

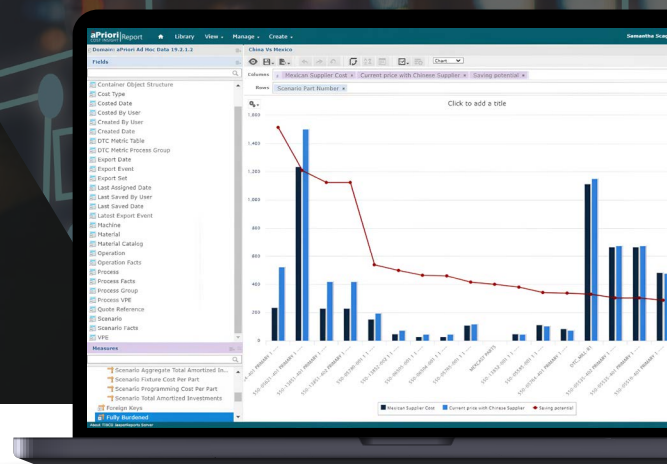
Create a digital twin of your in-house or supplier factories to simulate a variety of machines, materials, processes, overhead rates, and more.

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.



Manufacturing Insights
Analytics for:

Cost Engineers

Project Managers

Product Managers

Sourcing Managers

For Team Collaboration

aPriori Workspace

Learn more about
[aP Workspace](#)

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

Product Cost Management

- Should cost
- Make vs. buy

Sustainability

- CO₂e footprint
- Design for Sustainability

Design Guidance

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

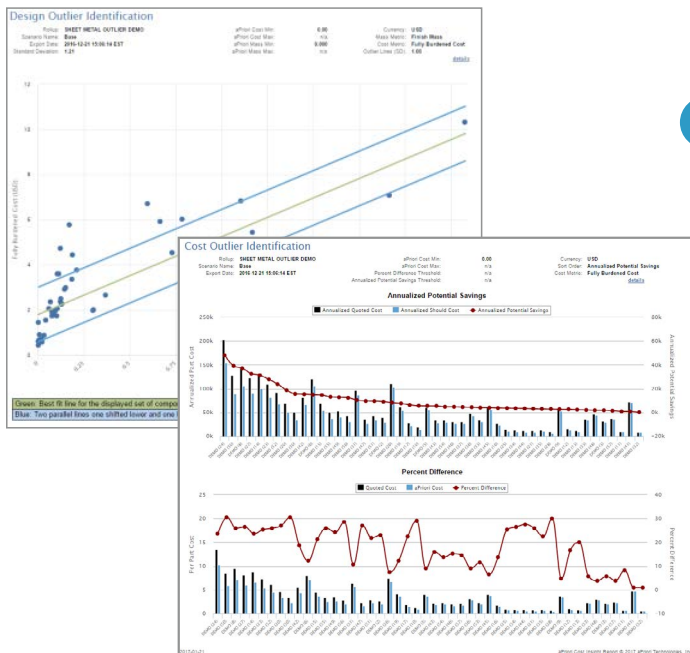
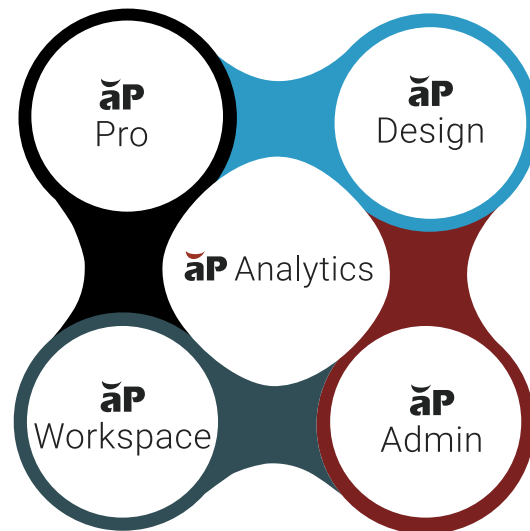
Manufacturing Optimization

- Machine selection
- Process routing

From Data to Decision Making

1 All of your data in one place

Save time and seamlessly connect product cost, sustainability, and manufacturing data from aP Pro and aP Design with aPriori's Manufacturing Insights Platform.



2 Analyze Insights at Scale

Analyze large amount of data with ease and gain insights through standard or custom reports.

Standard Reports

Access pre-defined reports that include component cost and scenario comparison to quickly gain insights into product costs and potential cost-saving opportunities.

Custom Views & Reports

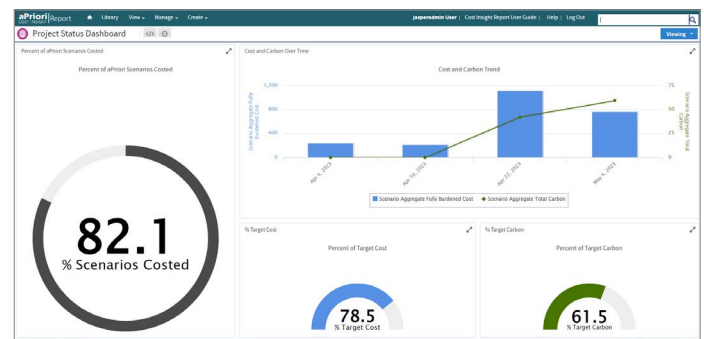
Generate custom reports for business users to analyze specific data sets and identify patterns and trends.

3 Empower Data-driven Decisions

Present data insights on dashboards to drive actionable product and business decisions.

Dashboard

Create personalized dashboards with interactive visualizations to track manufacturing KPIs and optimize production processes.



aP Analytics Use Cases

Product Cost Management

Unlock product value insights and cost optimization opportunities

Intelligent Analytics

Utilize powerful BI reporting capabilities to analyze aPriori data and gain insights for better product cost management. Take advantage of self-service BI tools and explore cost data without the need for IT involvement.

- **Trend analysis:** Identify key business insights using charts to graph trends over time. Keep track of changes in cost drivers and historical states of each part to identify optimization opportunities.
- **Spend analysis:** Generate reports that compare component costs across suppliers. Perform data-driven evaluation based on different sourcing scenarios to evaluate the impact of choices.
- **Track value:** Monitor product value over time and create value tracking report to compare aPriori cost, target cost, and actual cost.

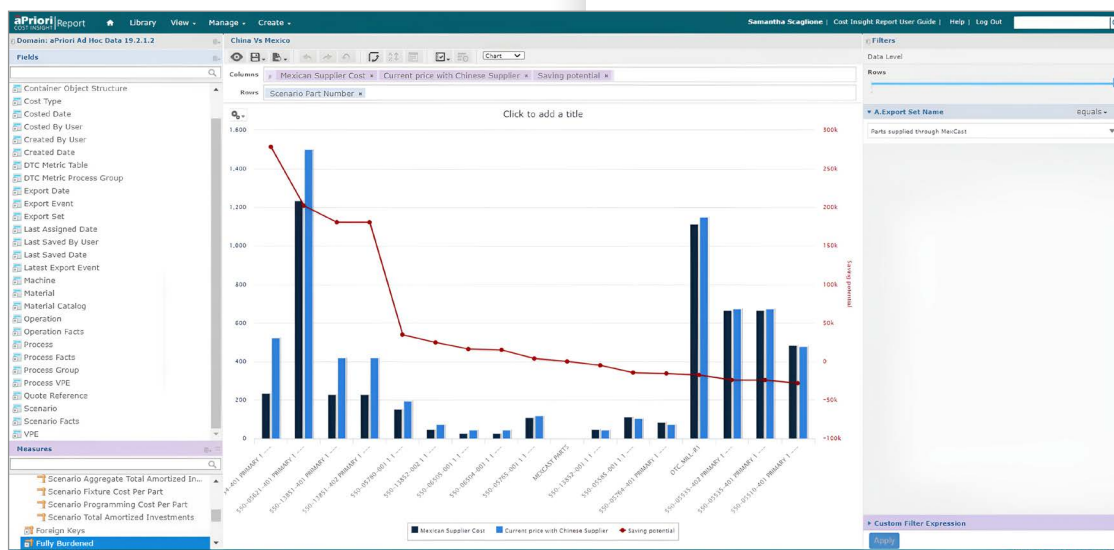
Actionable Reporting

Create production reports and compare different manufacturing scenarios that provide visibility into product costs for managers, project leads, and sourcing professionals.

- **Out-of-the-box reports:** Use pre-defined reports and locally defined templates anywhere, anytime to see various costs and key metrics including the cost of goods sold (COGs) and manufacturing cycle time.
- **Ad hoc reports:** Drag and drop variables to easily create ad hoc views for specific data sets. Identify patterns and trends that may not be visible in pre-defined reports.

BENEFITS:

- Quickly gain insights into product cost and potential cost-saving opportunities
- Support fact-based negotiation with suppliers for better rates and supplier relationships



Ad hoc report identifying savings potential by comparing different supplier globally

Sustainability

Make data-driven decisions to build sustainable products

Sustainability Analysis

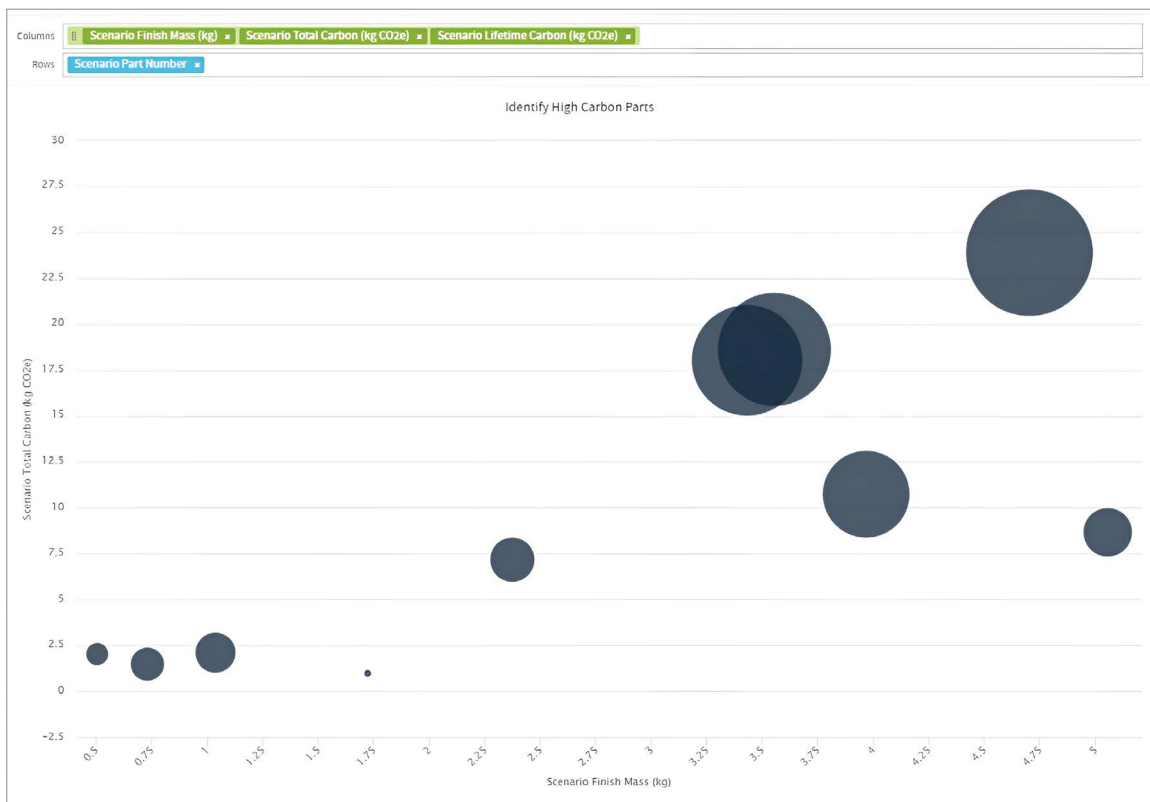
aP Analytics can evaluate sustainability metrics and design high-impact dashboards to deliver trusted, aggregated numbers to decision makers.

- **Compare environmental impact:** Compare scenarios, such as changes in materials, manufacturing processes, or transportation methods, to evaluate the sustainability impact of different options and make informed decisions to minimize the product carbon footprints.
- **Export sustainability reports:** Share sustainability reports with stakeholders and regulatory bodies. Use the reports to provide a transparent view of product sustainability performance and highlight your company's commitment to sustainability.

- **Analyze sustainability metrics:** Use the ad hoc reporting tool to create custom reports that make evaluation based on a range of sustainability metrics calculating material, process, and logistics carbon at the part, assembly, and rollup levels.

BENEFITS:

- Reduce long-term operational costs and improve brand reputation through data-driven sustainable practices
- Foster transparency in environmental practices, building trust with customers and stakeholders



Example: Carbon Outlier Report in aP Analytics

Design Guidance

Drive Product Profitability with Design Insights

Design to Cost

Define product cost targets and track geometric cost drivers (GCDs) in products by leveraging DTC metrics in aP Analytics.

- **Analyze design alternatives:** Quickly assess the cost impact of design alternatives, identify and optimize for cost drivers early in the design phase.
- **Ad hoc support for DTC metrics:** Generate custom reports that analyze specific components or manufacturing processes based on DTC metrics like cost impact of different tolerances and machine cycle time.
- **Visibility for cost management:** Securely distribute reports throughout the organizations and get on-time DTC performance recommendations.

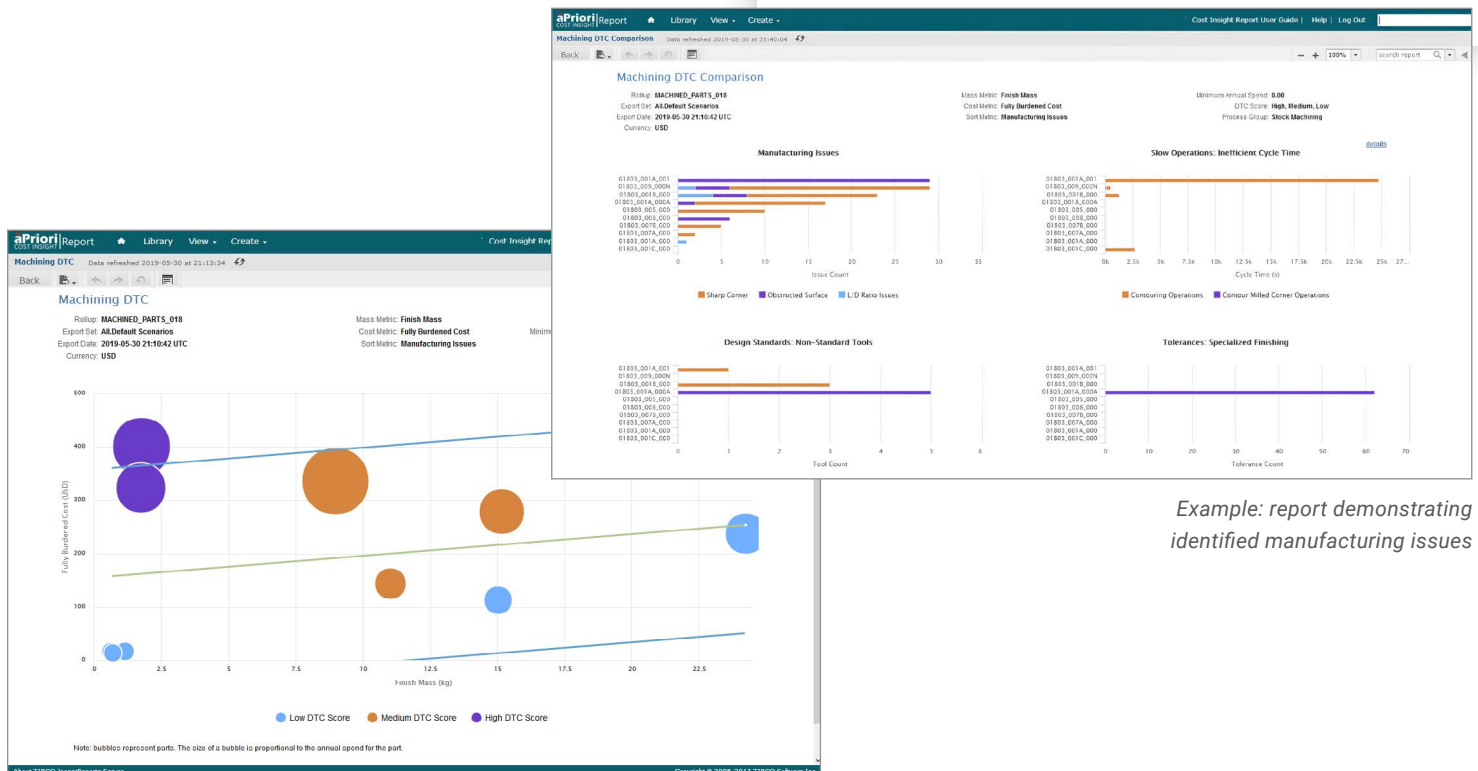
Design for Manufacturing

Incorporating Design for Manufacturability early in the process helps identify manufacturing issues and reduces change orders.

- **Out-of-the-box report for manufacturability:** Get detailed production information, including manufacturability scores and machine cycle time, through the "out-of-the-box" reports to identify bottleneck and inefficiencies in the manufacturing process.

BENEFIT:

Maintain product profitability by identifying cost drivers early and reduce time-to-market using data-driven insights



Example: report demonstrating identified manufacturing issues

Example: graph incorporating DTC metrics

Manufacturing Optimization

Streamline Manufacturing Processes for Peak Efficiency

Dashboard Visualization

Maximize business performance with dashboards that deliver trusted, aggregated numbers to decision makers. Design interactive, role-based dashboards and interact with multiple types of product cost data. Analyze historical information and current data on the same screen to help you quickly move from insight to decision.

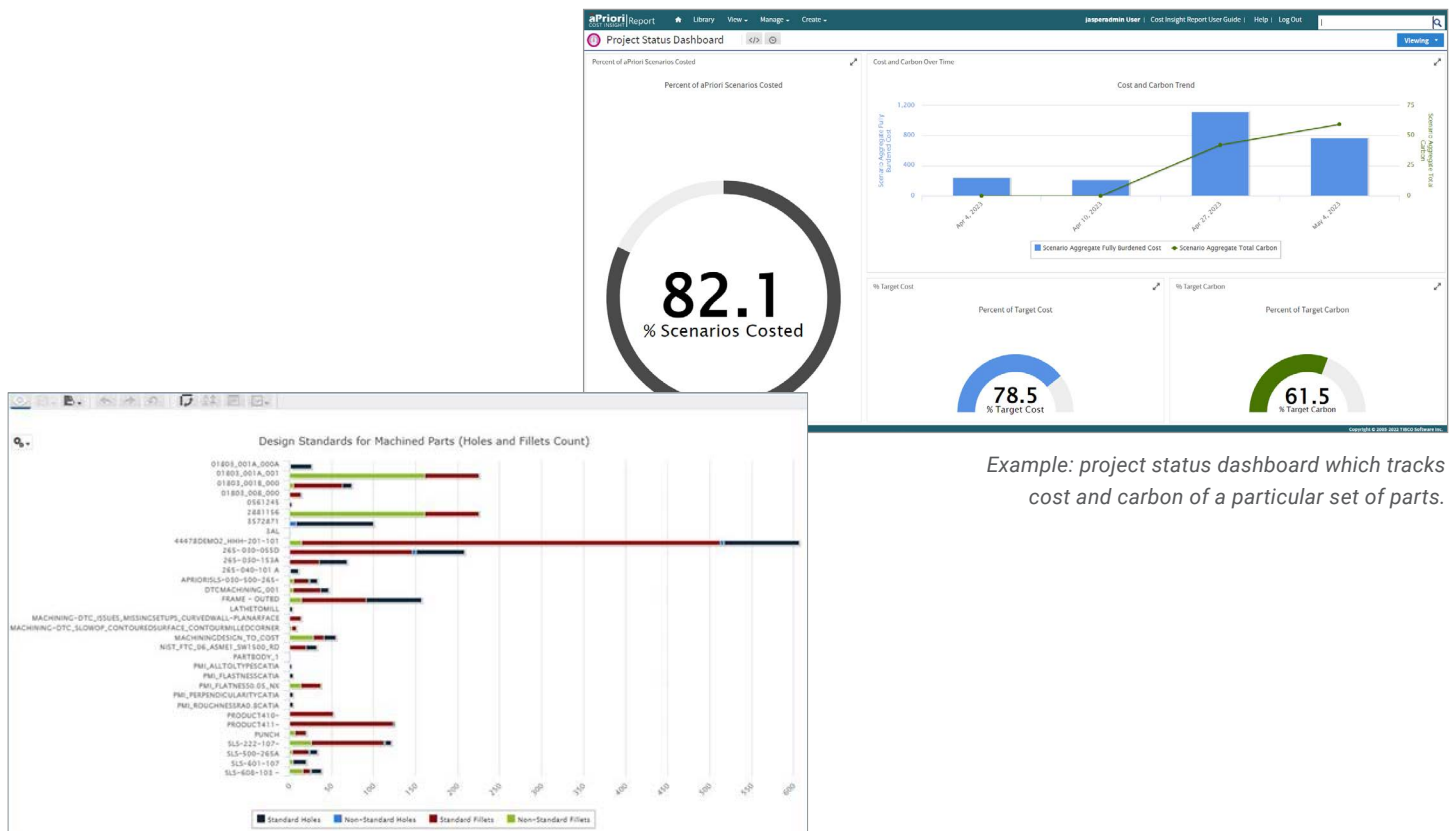
- **High-impact dashboards:** Assemble, personalize, and interact with multiple types of product data in dashboards and analyze historical manufacturing information with current data on the same screen to quickly move from insight to decision.

Manufacturing Scenarios

Compare production scenarios to evaluate the impact of design or manufacturing process changes on product cost. Evaluate manufacturing options across different global regions to find the best manufacturing option.

BENEFIT:

Minimize machine downtime and cycle time by proactively monitoring equipment performance and exploring manufacturing alternatives



Example: stacked bar chart showing four design standard ratios, minimizing the number of different sizes of standard/non-standard holes or fillets.



Advanced aP Analytics Capabilities

Configure Server Instance and Manage Organization User Settings

Admin Capabilities

- **Reporting authoring:** With a powerful report authoring environment, users can develop production reports in a single digital environment and distribute them to the enterprise.
- **Export management:** Export data from the reporting database for use by third-party ERP, PLM, SCM or report packages. Establish export cadence to automate reporting on a defined cadence.
- **Activity reporting:** Use activity reporting to create reports based on the application log-in, session, and log-out activity of aPriori users. Identify user trends and behaviors, as well as system usage and performance to optimize product costing processes and improve user productivity.

WANT TO LEARN MORE?

[CLICK HERE](#) to schedule a demo of the aPriori Manufacturing Insights Platform.

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