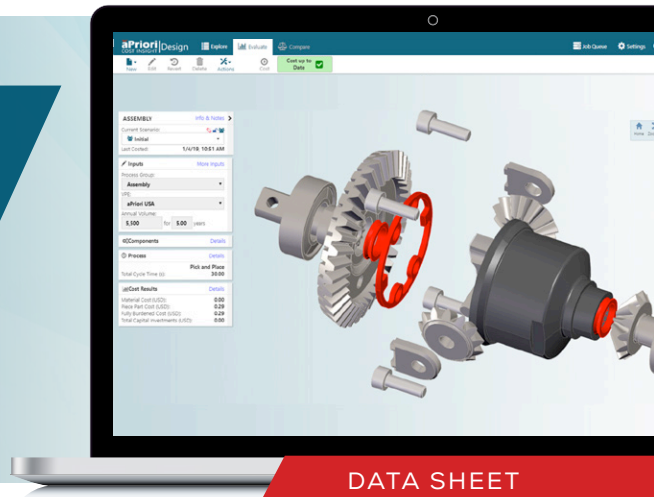# aPriori

Cost Insight Design

Speed up design cycles and time to market with cost and manufacturability insights for the design engineer.

OVERVIEW

aPriori Cost Insight Design is a role-based web application available as a SaaS (Software as a Service) solution from aPriori. Using only a web browser, a design engineer can access an application which connects to a scalable and cloud-based set of costing, visualization, reporting, and administrative services.
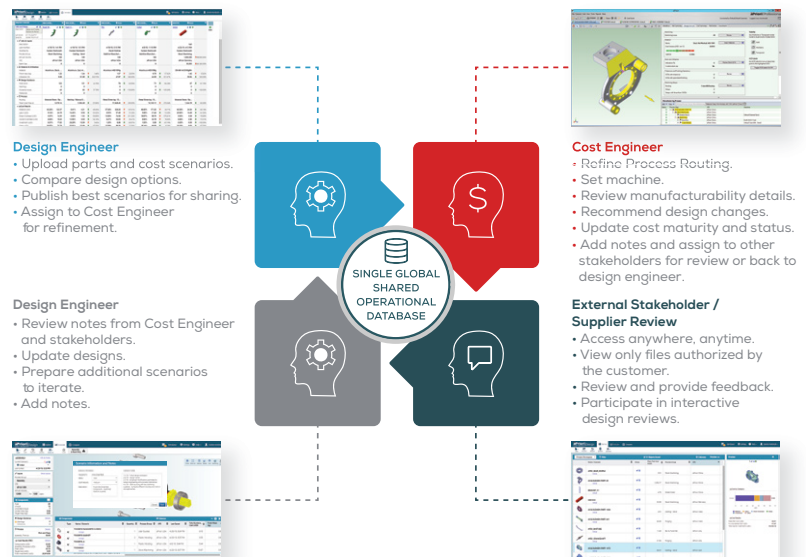
Cost Insight Design is available as part of the aPriori Cloud Solution which also includes Cost Insight Report and an application streaming service for using aPriori Professional through a web browser. All applications are connected to a shared global database, enabling collaborative costing workflows in the cloud for all stakeholders.

COST COLLABORATION

Early reviews of designs for manufacturability and cost drivers can cut back on design cycles and improve your time to market, while at the same time increasing your confidence when engaging with suppliers for quoting, material, and process choices.

Design Engineers can quickly upload and evaluate design variants and different material, process, and sourcing options, build comparisons, and publish the best options for review with the broader team.
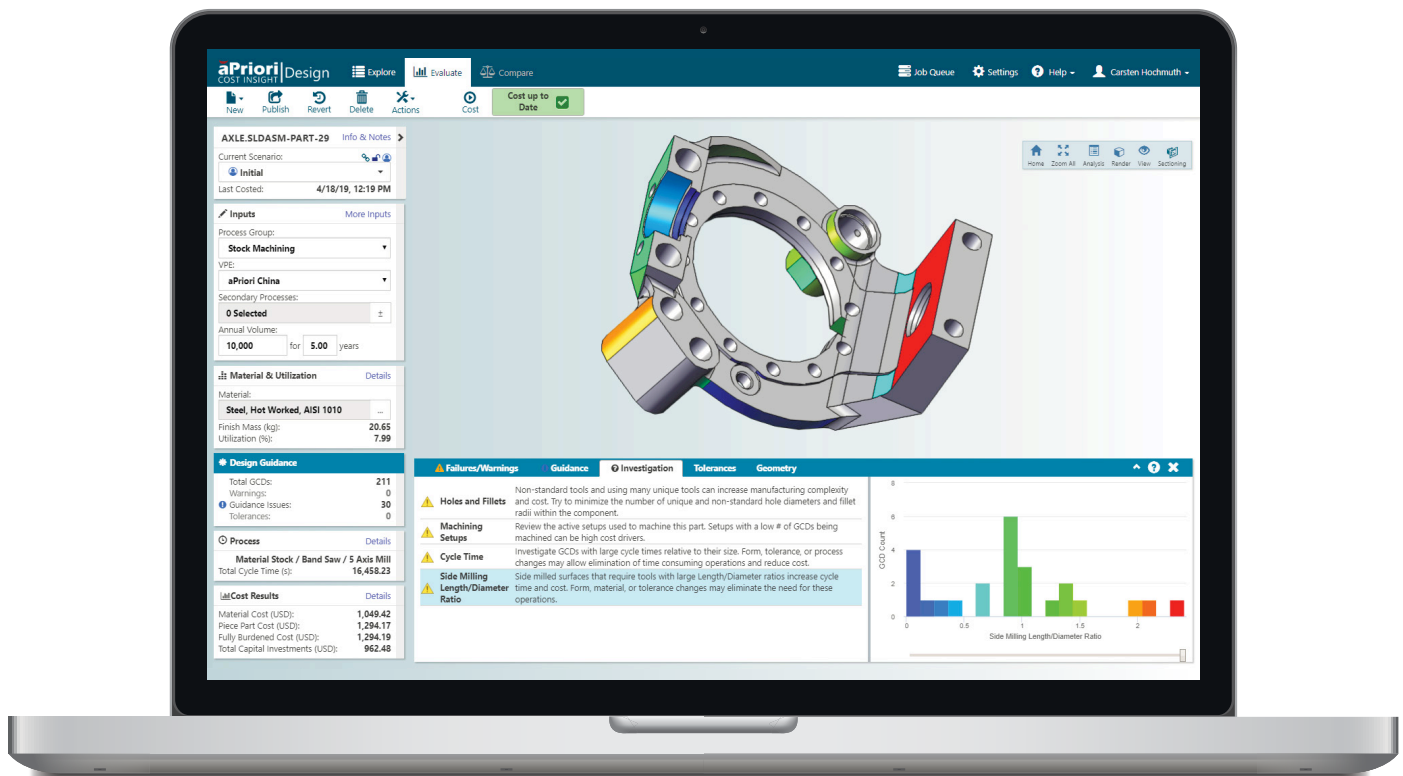
Cost Engineers can refine results and advise on process and sourcing options. Team leads and other stakeholders in the organization have easy access for review and feedback at any time. All users of aPriori have access to the same shared components and scenarios.

Design Engineer
- Upload parts and cost scenarios.
- Compare design options.
- Publish best scenarios for sharing.
- Assign to Cost Engineer for refinement.

Design Engineer
- Review notes from Cost Engineer and stakeholders.
- Update designs.
- Prepare additional scenarios to iterate.
- Add notes.

Cost Engineer
- Refine Process Routing.
- Set machine.
- Review manufacturability details.
- Recommend design changes.
- Update cost maturity and status.
- Add notes and assign to other stakeholders for review or back to design engineer.

External Stakeholder / Supplier Review
- Access anywhere, anytime.
- View only files authorized by the customer.
- Review and provide feedback.
- Participate in interactive design reviews.

SINGLE GLOBAL SHARED OPERATIONAL DATABASE

DESIGN TO COST (DTC)

Early insight into manufacturability issues and cost drivers during the design process can have a critical impact on meeting cost targets, reducing time to market, and conducting more confident sourcing and supplier negotiation. Cost Insight Design provides interactive guidance on key topics and issues for machining, plastic molding, casting, and sheet metal fabrication.

- Review warnings on un-manufacturable features in your design

- Review issues in your part that can drive cost and possibly specialized tooling

- Explore heat map visualizations for high cost areas of your part

- Understand how tolerances can drive specialized processes and operations

- Review the impact of your design on tooling, mold or fixture cost

Comparing DTC issues between different design options can assist a design engineer in making design changes in the CAD model and bringing the best and most cost-efficient designs forward for review and sourcing.

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ROLE-BASED VIEWS

Cost Insight Design was purpose built from the ground up to support the role of the design engineer. A visual and intuitive user interface supports fast and easy browse, search and navigation. Users can keep work-in-progress evaluations private and share as needed with the broader team. Progressive display of information in summary tiles and detail panels together with interactive charts and 3D visualization make it quick to learn and focus the design engineer on just the right content.

ACCESS ANYWHERE

Whether you are in a design review, on the shop floor, in the field, or with a supplier, Cost Insight Design can be accessed anywhere and at any time through only a browser. All aspects of aPriori's Cloud Solution are secure with high availability, leveraging secure HTTPS browser protocols, secure AWS infrastructure with high availability (multiple availability zones, daily backups), Independent 3rd party security testing, and SSO across all aPriori web applications.

KEY BENEFITS FOR YOUR ENTERPRISE

Cost Insight Design is provided as a hosted and fully managed service. Users only need a browser to connect, bringing some key benefits:

- No server installs, no server expense, no server procurement delays

- Instant-on for all services: Cost Insight Design, Cost Insight Report, AppStream

- Infrastructure, platform, and application services maintained by aPriori

- No need to provision engineering grade laptops or workstations

Connections to the service are through secure HTTPS browser protocols and aPriori is partnering with Amazon Web Services to provide a best in class SaaS architecture and infrastructure.

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