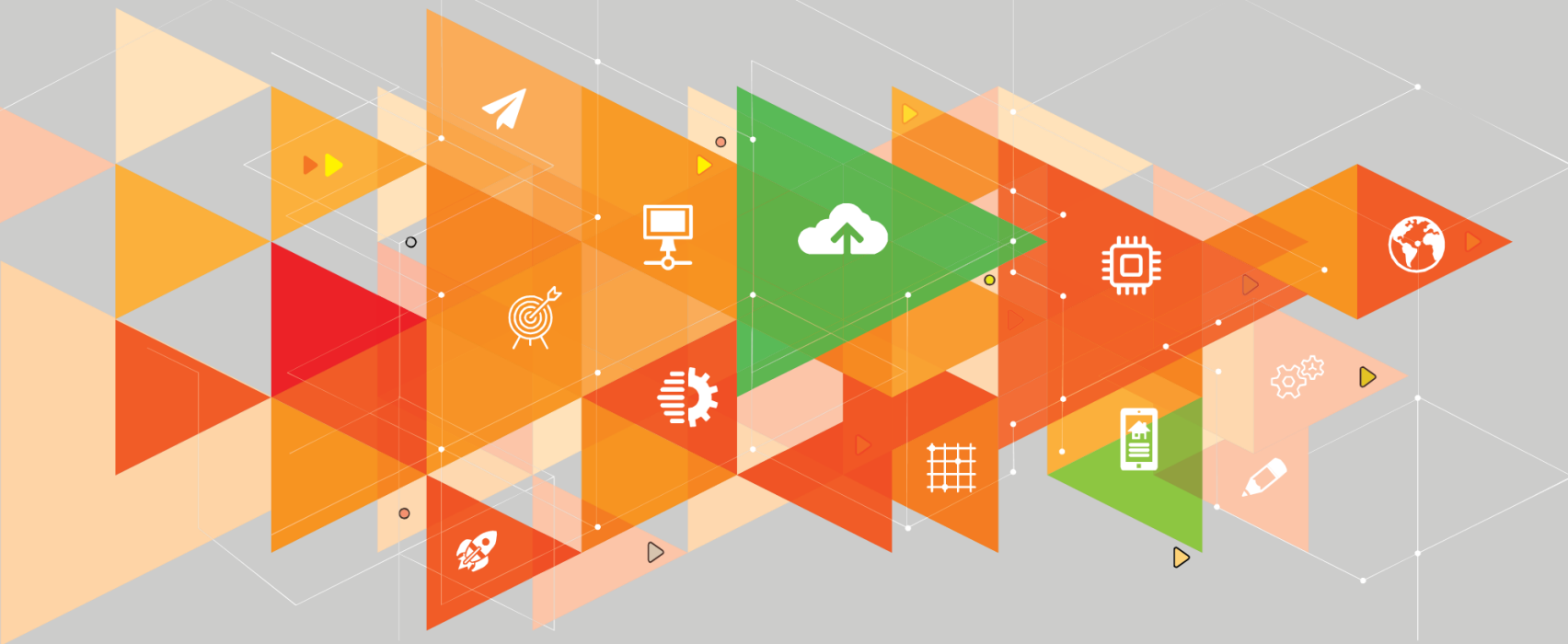


Glovius - Modern CAD Viewer

Product Presentation

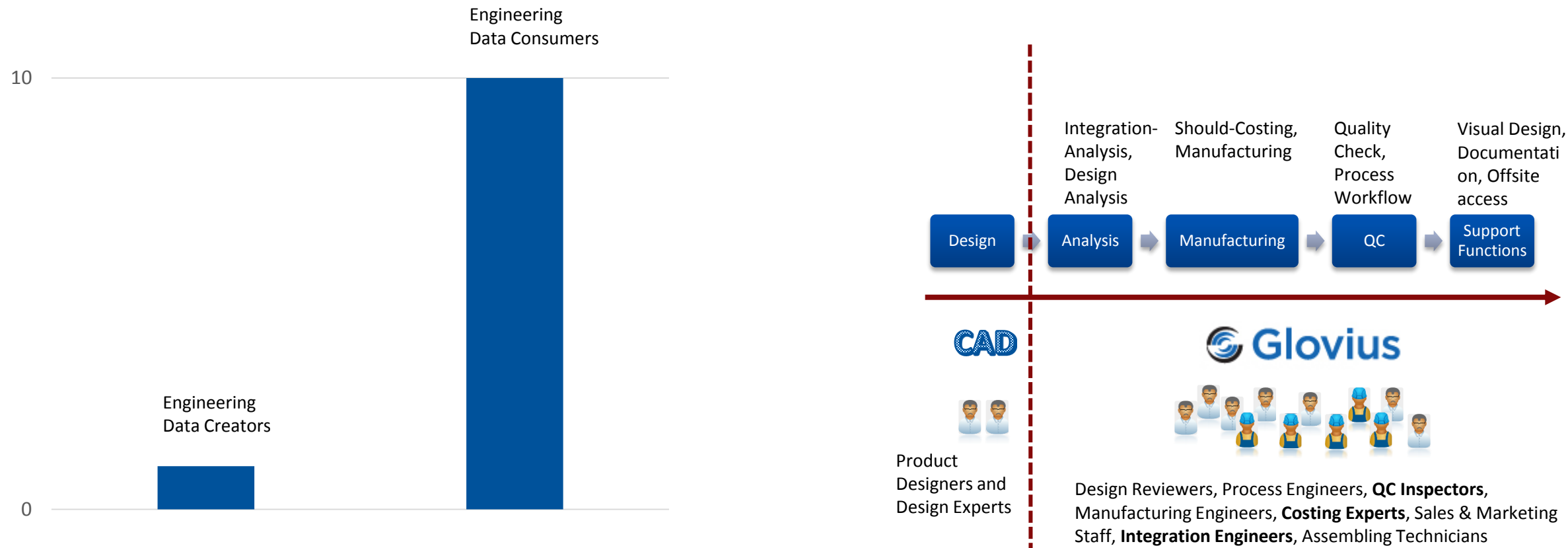


CONSUMPTION OF 3D DESIGN DATA

Requirements and Challenges

Consumption of Design Data

Engineering Data (2D/3D Models) consumption is increasing across the Extended Enterprise

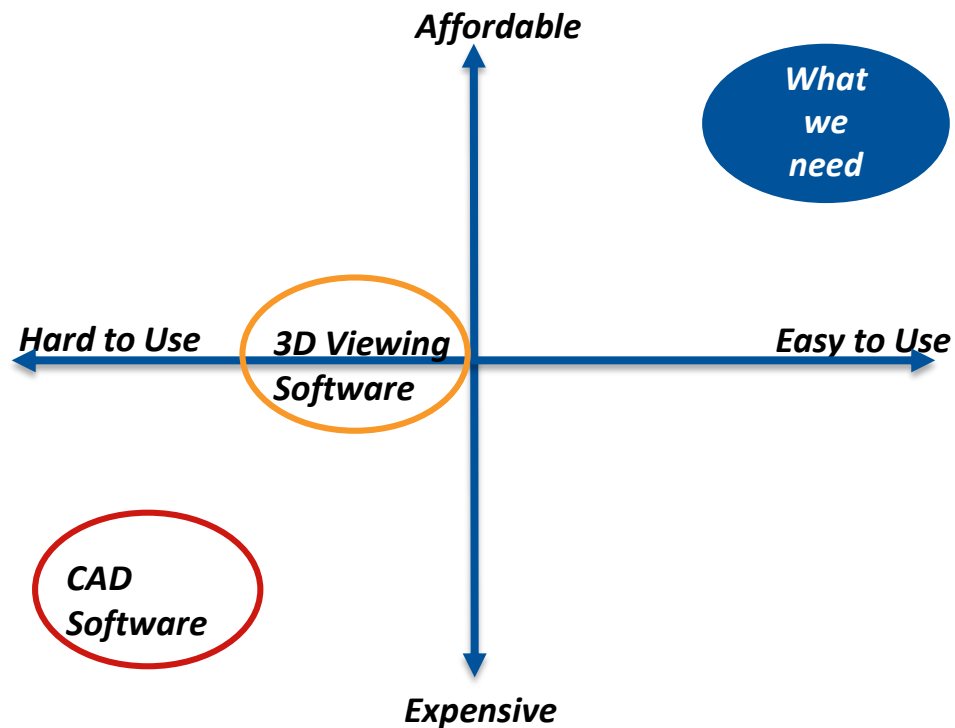


There are 10X Engineering data consumers vs. creators






Consumption of Design Data – Challenges

Software used for consuming Engineering data is still too complex, expensive and Windows only

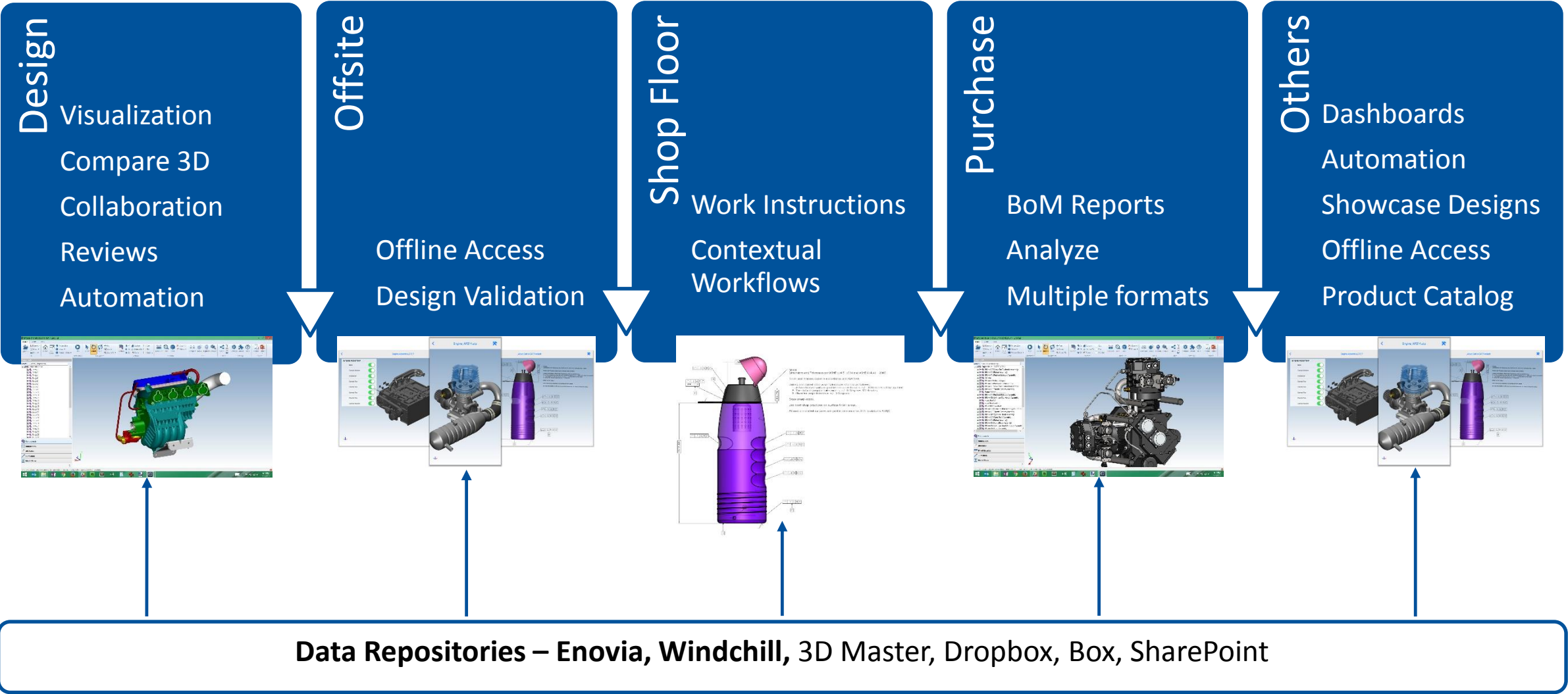
- When used just for viewing, **CAD is complex, expensive** and Windows-only. Modern mobile and web platforms are ignored
- Hidden training, maintenance and installation **costs**
- **Collaboration** is difficult and time-consuming
- **Automation, integrations** and **customization** are not possible

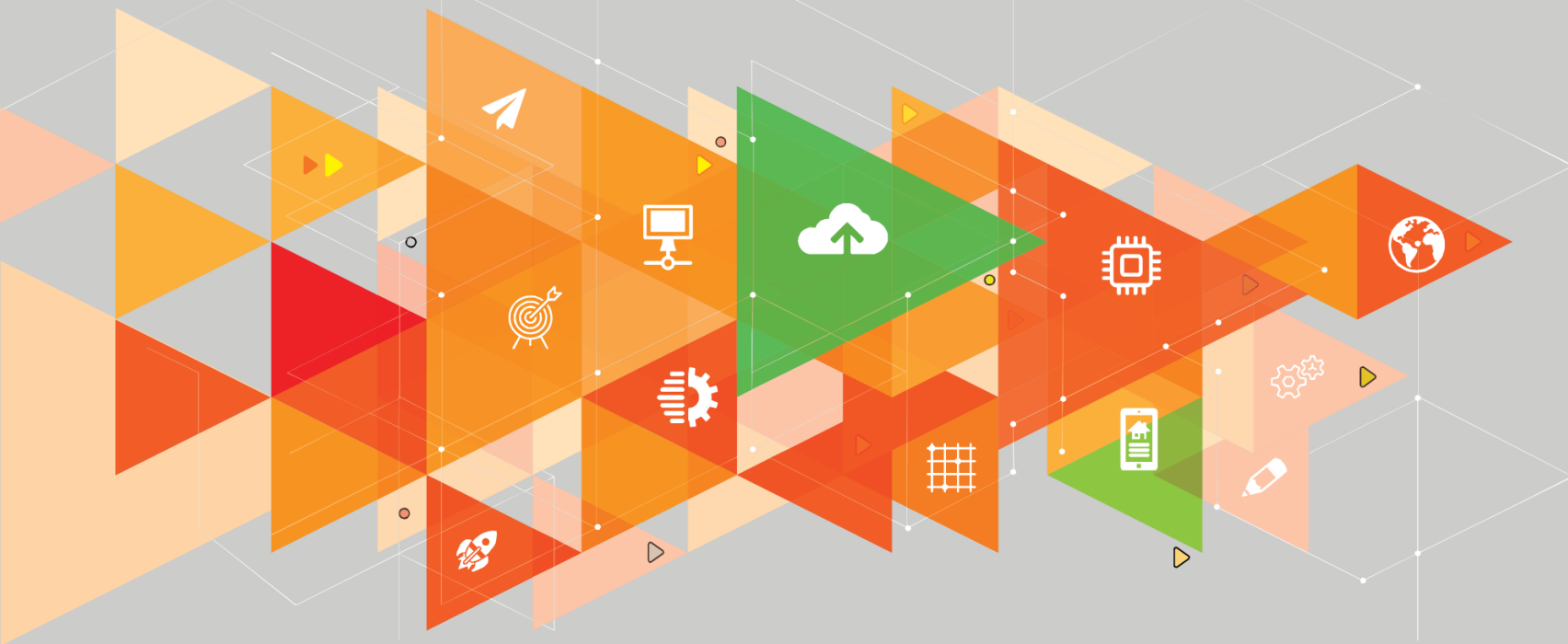


"72% of workers are predicted to be mobile by 2020"
- IDC, US Mobile Worker Pop.

					
3D Viewing Software	✓	✓	✗	✗	✗
CAD Software	✓	✓	✗	✗	✗

Consumption of Design Data - Requirements





GLOVIUS

Modern CAD Viewer for Windows, iOS, Android, and Cloud

Glovius – Modern CAD Viewer

Glovius is used in Manufacturing, Automotive, and Aerospace industries for –

Paperless Manufacturing

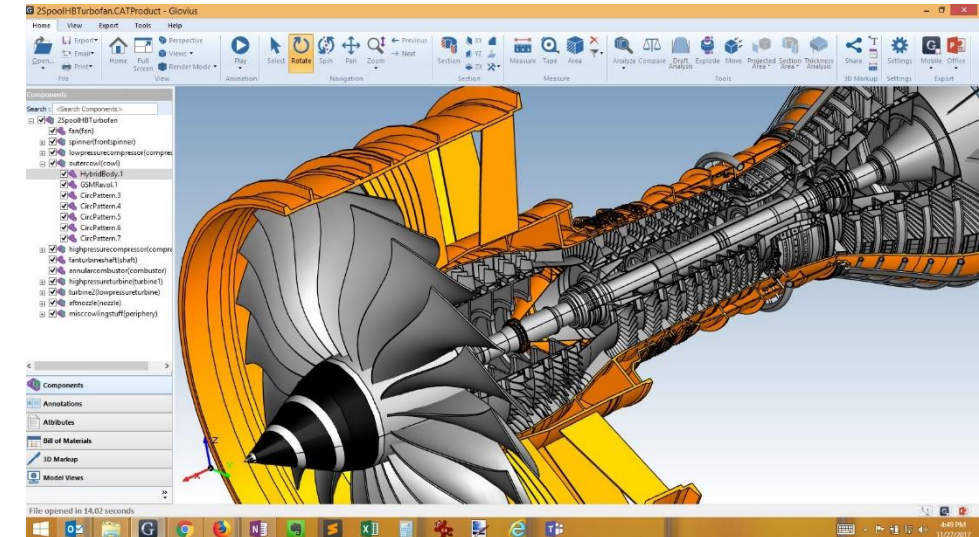
- Open native CAD files from CATIA, NX, Creo, STEP, and more...
- Eliminate the use of 2D drawings for assembly and part analysis
- View 3D geometry, full PMI and GD&T information, attributes
- Take accurate measurements, cut dynamic sections

Purchasing and Quotation

- Analyze key attributes and dimensions of a model with a click
- Perform thickness analysis, calculate projected area, compute draft angles
- Calculate bounding box, billet volume, mass, and surface area
- Compare design revisions and Generate Bill of Materials (BoM) report

Sales and Marketing

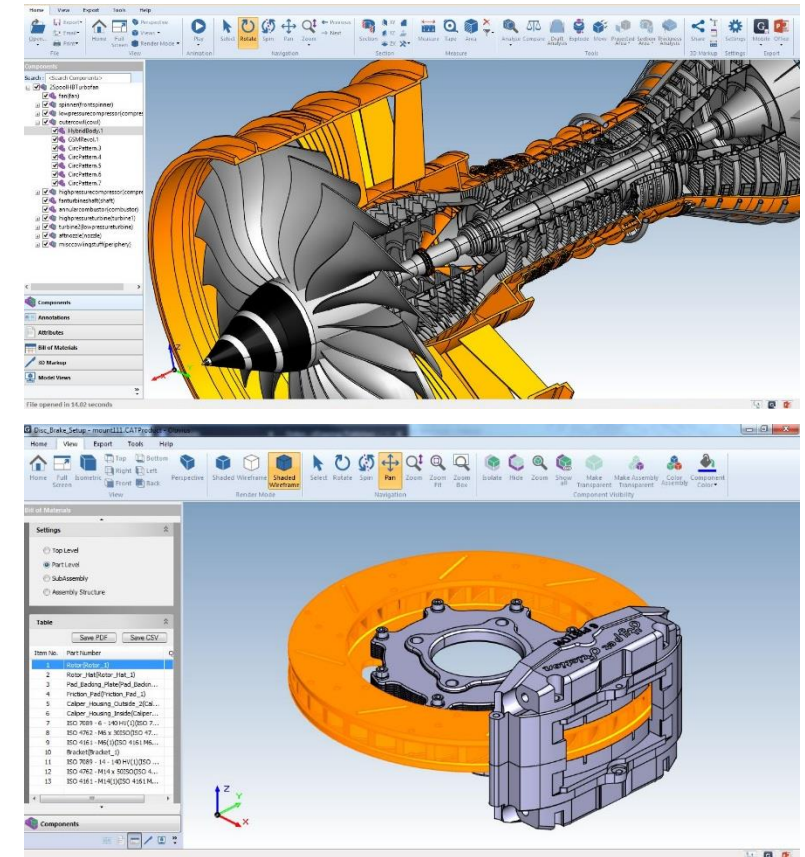
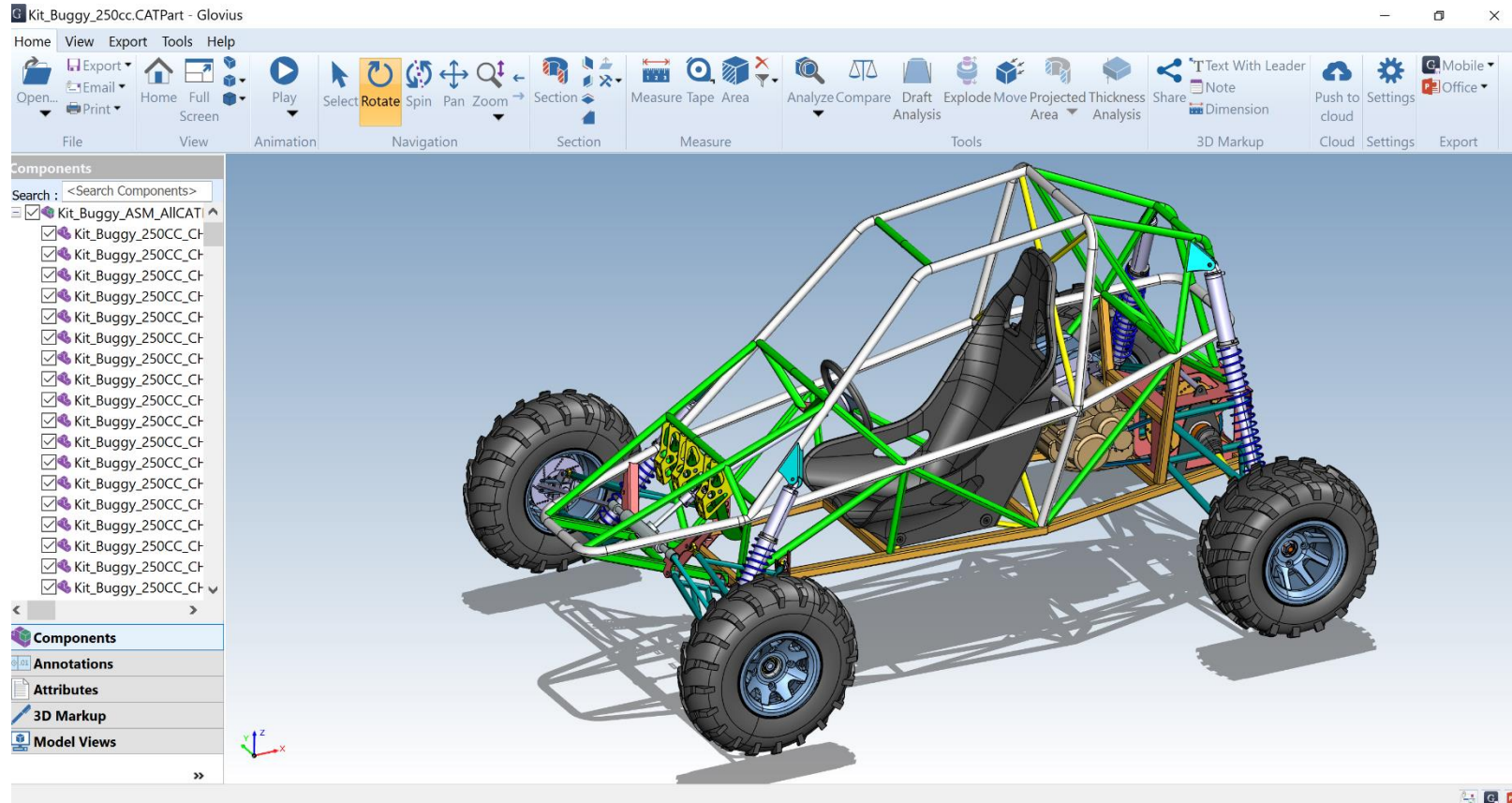
- Carry designs in your pocket, showcase on the go (free iOS, Android, cloud apps)
- Collaborate on the go, with text comments and freehand markup



“Glovius delivers a strong collaborative visualization choice for users looking to improve their data sharing experience during product development.”

- CIMdata

Glovis for Windows



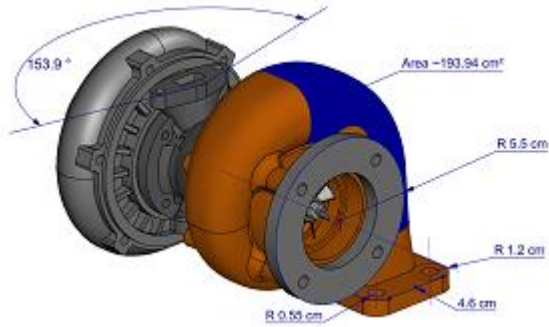
Modern CAD Viewer for Windows

- ▶ Simple, easy-to-use and instantly familiar
- ▶ Powerful tools for Measurement, Sectioning, BOM, Comparison, Collaboration and Export

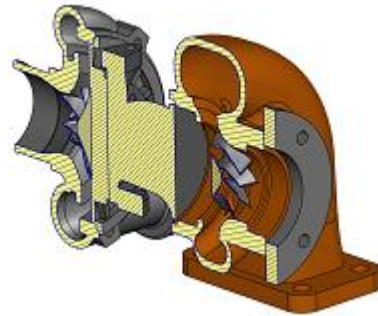
Analysis Tools

► Parts and Assemblies

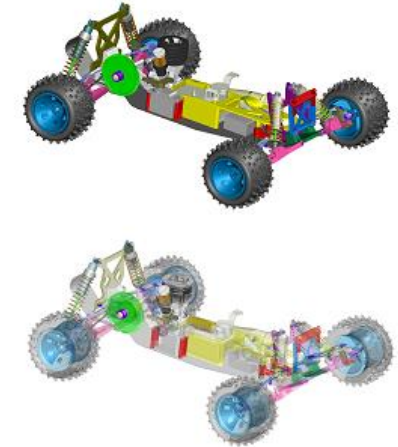
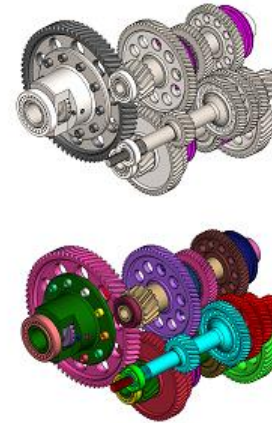
Measure



Take Sections

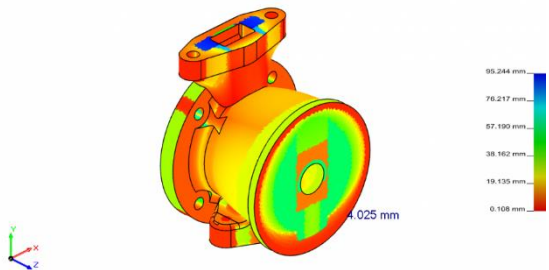


Apply Color and Transparency Effects

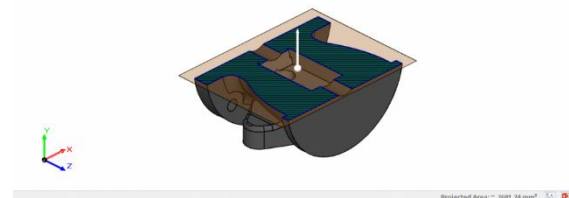


► Part Design

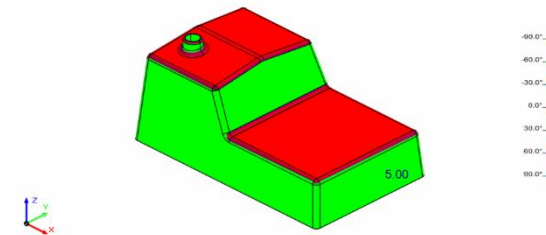
Analyze Thickness/Thinness



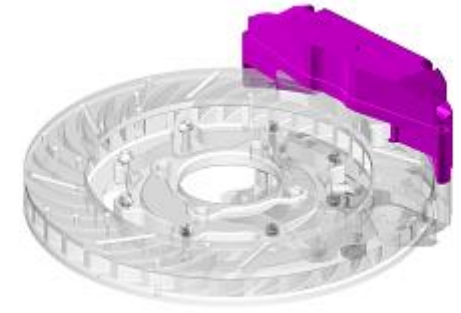
Calculate Projected/Section Area



Analyze Draft Angles

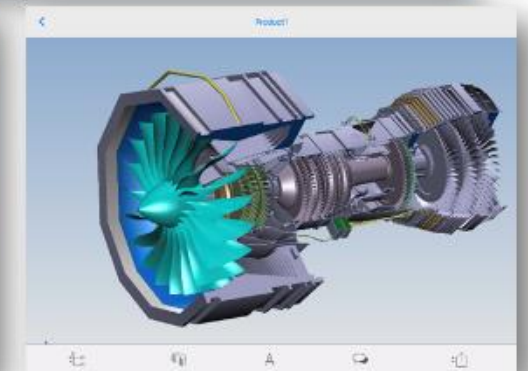
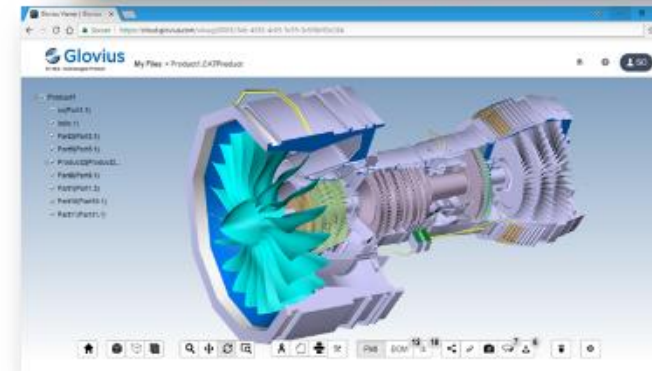
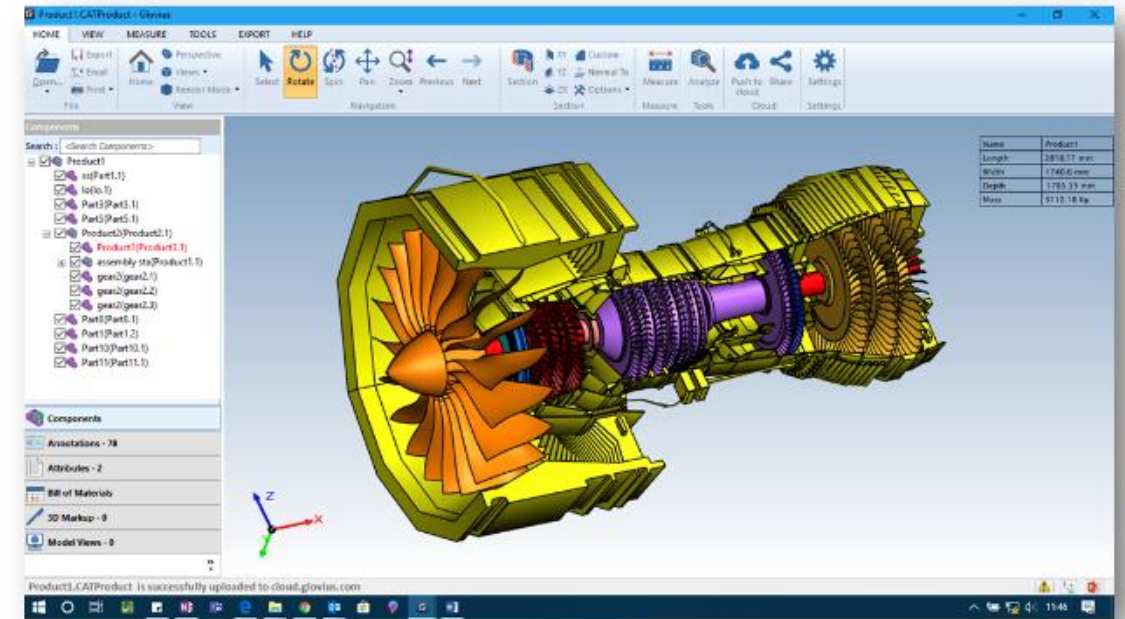


Compare in 3D



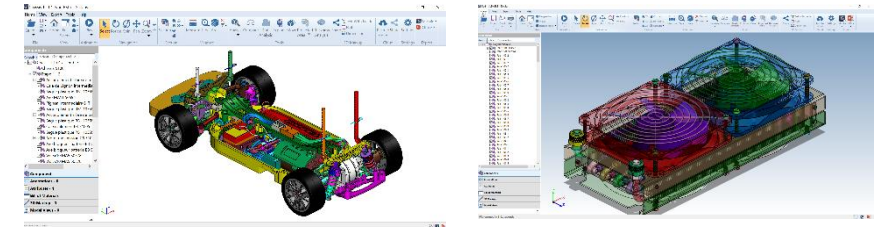
Collaborate with Glovius Cloud

- **Carry your 3D designs**
 - View your CAD files **on any device**
 - Check Meta data - Product Structure, PMI, Attributes
 - Analyze 3D components
- **Collaborate with your team**
 - Add and review comments
 - Instant feedback with real-time **notifications**
 - Work in 3D and not images
- **Leverage the cloud**
 - Automatic BOM and 3D PDF reports
 - Download files for offline use
 - Native apps and modern stack for superior performance



Majority of Glovius Customers are Small and Medium Manufacturing Companies

- View multiple CAD formats with one application
- Best in class support for viewing CATIA, NX, Creo files, with PMI information
- Purpose built tools for design analysis, estimation, and quoting



“...Not only on the work floor but also our purchasing, our sales and our service department have big benefits by using Glovius. It has made our **assembling department paperless**, has given our sales the opportunity to open and review 3rd party 3d files and helps our purchasers to provide information needed for our suppliers.”

- **Jacco Legerweij**, [BrinkBV](#)

“I really like your product. Very helpful for someone in **aerospace** who does **a lot of quoting** and has to open a lot of different types of files.”

- **Pat Rowell**, [Cutting Dynamics, Inc.](#)

“Advanced Systems and Controls uses Glovius in it’s estimating department. **Estimators** need the ability to open and view a wide variety of customers drawings...”

- **Kevin Pray**, [Advanced Systems & Controls Inc.](#)

AEROTEK MANUFACTURING LTD.



Advanced Integration Technology
Turnkey Factory Automation for the Future of Aerospace

TENNECO

MAGNA

MAHLE

Driven by performance



INNOVATIONS FOR LIVING™

BRINK

**HERBORNER
PUMPENTECHNIK**

Craftsman
AUTOMATION

chiron

 **GeometricTech**
by HCL Technologies

HCL

Select Customers

Automotive

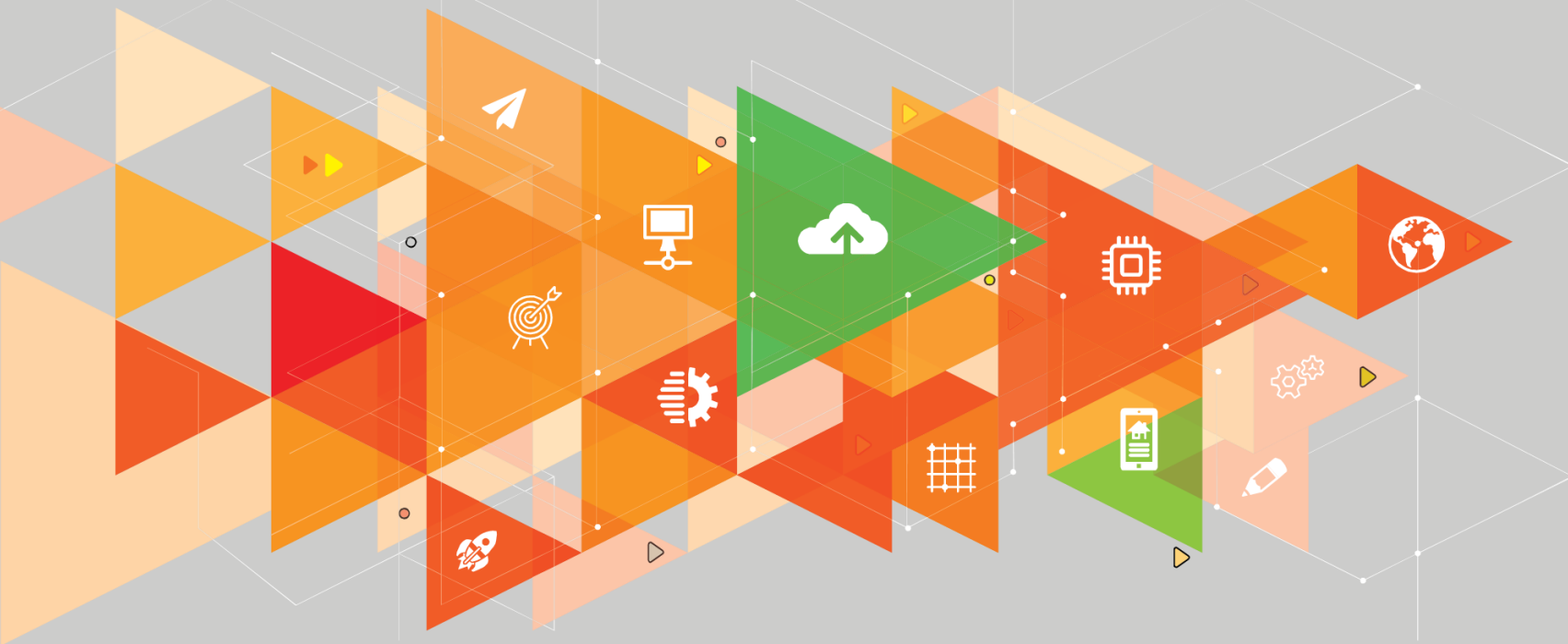


Manufacturing



Aerospace





ENTERPRISE VISUALIZATION

Case Studies

Case Study – Enabling estimation teams to quote faster

Leading Automotive Tier-1 Supplier serving Multiple OEM partners
Quickly Access and Estimate the Cost of Components to win projects



Challenges

- OEM's share 3D data in different CAD formats
- Multiple tools needed to accomplish task of quickly generating the quotation for a component
- Lack of reporting tools



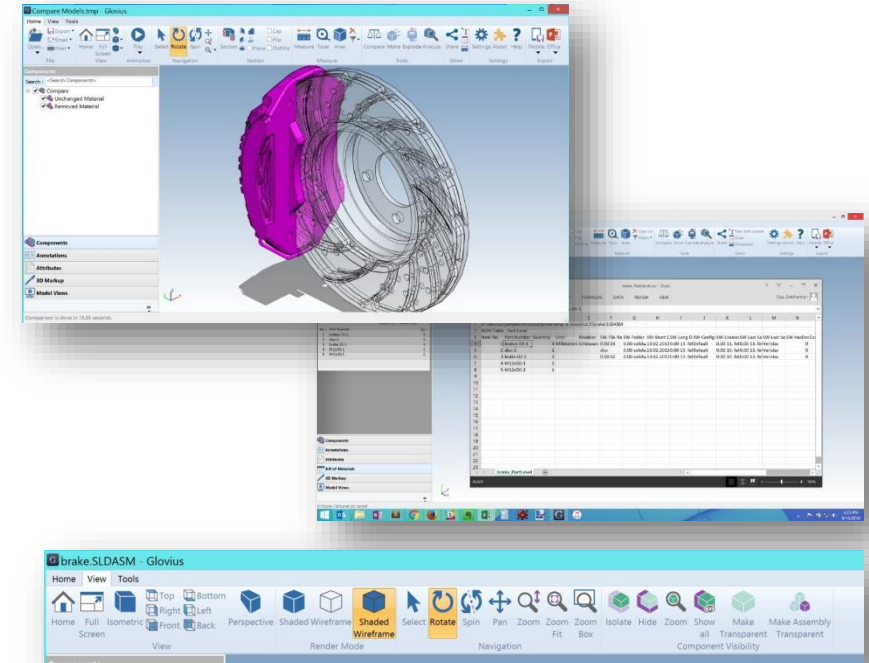
Solutions

- Glovius tools and functions developed for estimation teams
- Glovius functions for Fast Visual Analysis, BoM reports, Measurement and Compare tools



Benefits

- Single application to View Multiple 3D file formats. License cost savings of more than \$500,000
- Improved turn around time for quotations
- Lower IT and training spend



Lower license, hardware and training costs. No dependency on CAD applications for quotes.

Value delivered



Specialized tools and functions enable increased accuracy and fast quotation

Case Study – Digitize technicians' workflow

Japan's leading manufacturer of Automobiles and Motorcycles
Digitize technicians' workflow on the shop-floor by enabling 3D design access on multiple platforms



Challenges

- Use of paper drawings for technical references
- Lack of traceability and inability to capture work data seamlessly for process improvements
- Integration with multiple backend systems



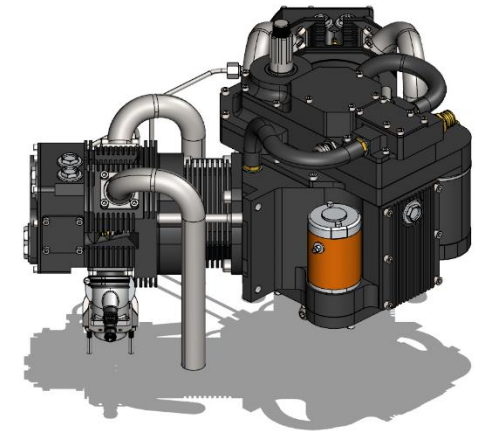
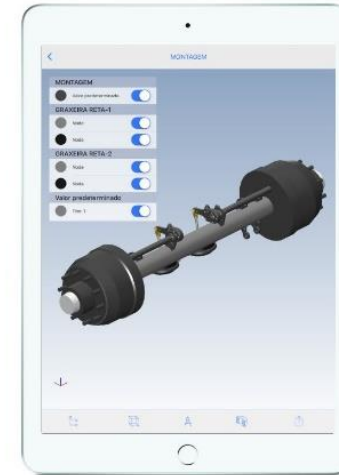
Solutions

- Glovius deployed on multiple platforms viz. iOS, Web browser, ActiveX and Windows desktop app.
- Integrated Glovius with existing IT infrastructure to present a unified User Experience for technicians



Benefits

- On demand access to designs, replacing paper drawings.
- Multi-platform solution that repurposes existing assets for new use cases
- Up to \$1Mn saved in license, maintenance and training costs



Digitize the workflow for technicians enabling real-time feedback loops

Value delivered



Multi platform strategy re-uses the solution for multiple use cases

HCL

*Relationship*TM
BEYOND THE CONTRACT

\$7 BILLION ENTERPRISE | 115,000 IDEAPRENEURS | 32 COUNTRIES



WATCH THE FILM



Thank You!

support@glovius.com