



# Glovis – Modern CAD Viewer

## Product Presentation

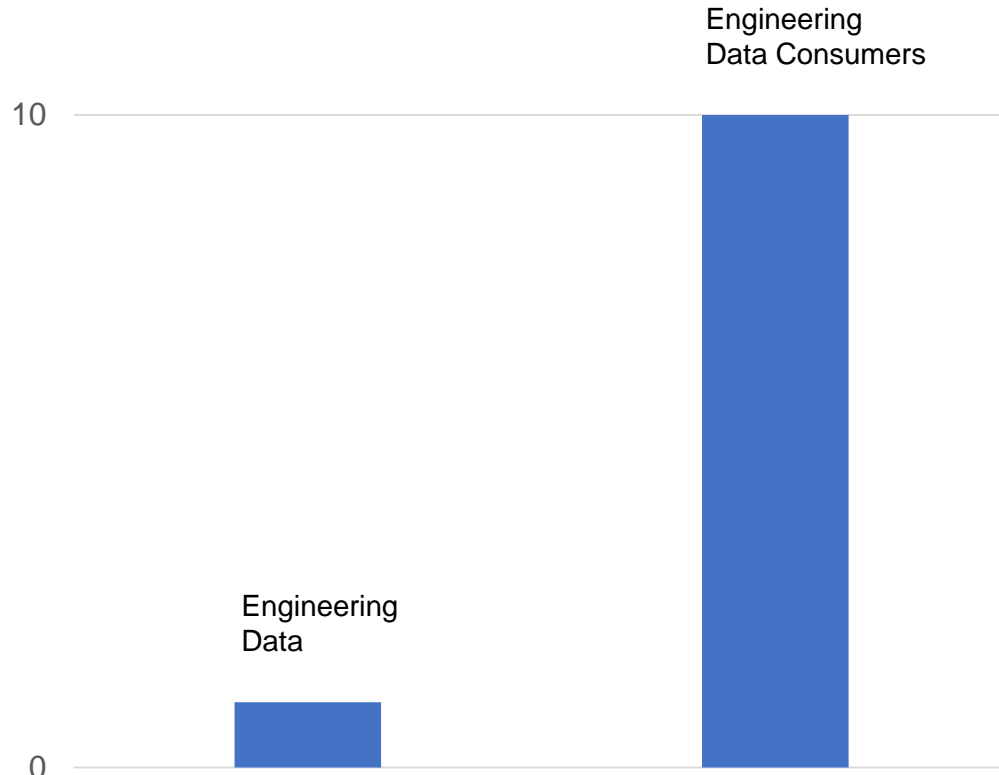


# GLOVIUS

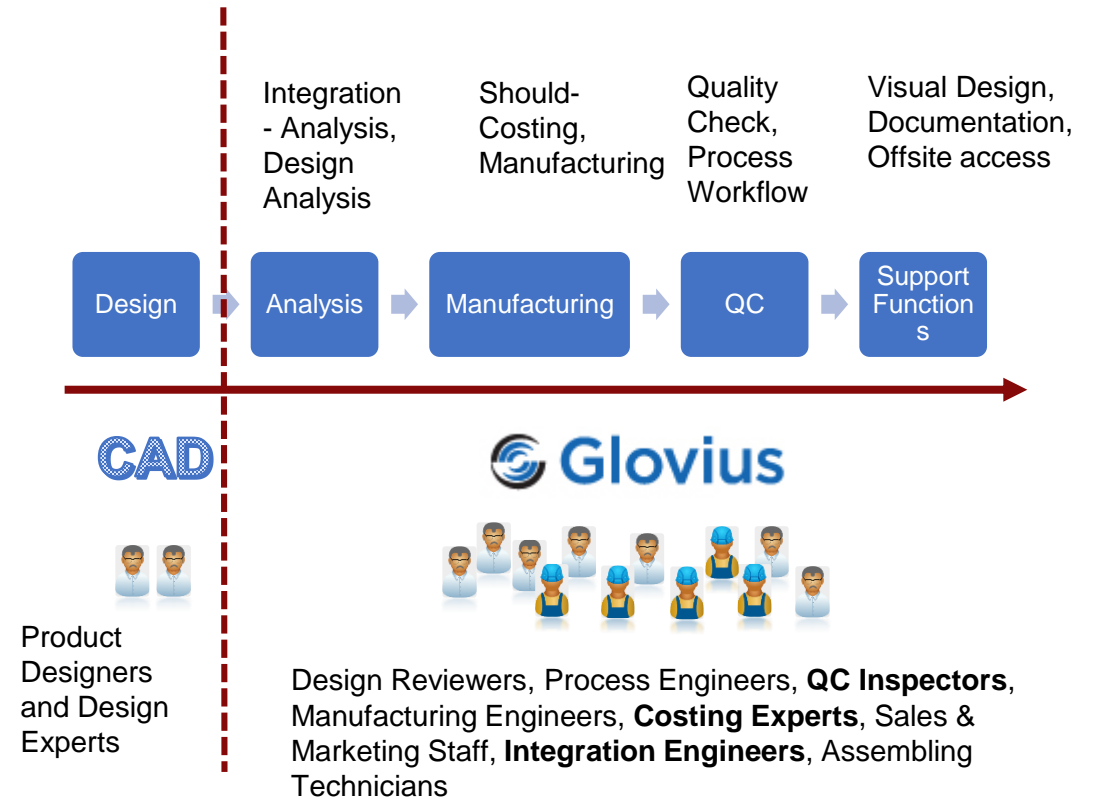
Modern Enterprise Visualization  
Solution for Windows, iOS and  
Android

# Consumption of Design Data

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



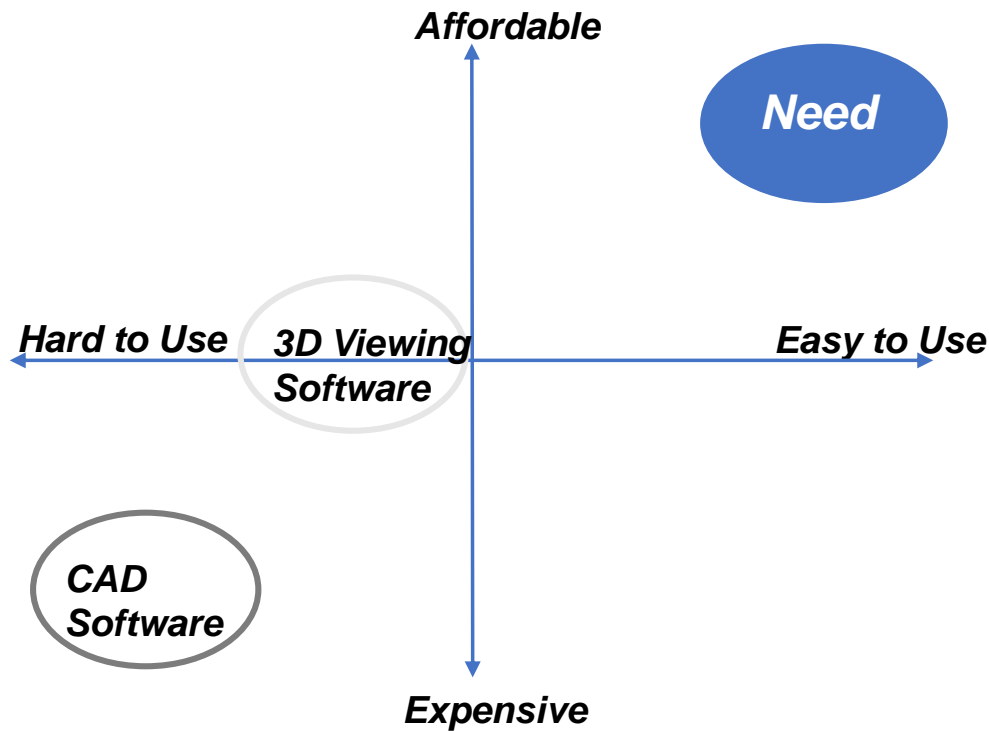
**There are 10X Engineering data consumers vs. creators**








# Consumption of Design Data – Challenges

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

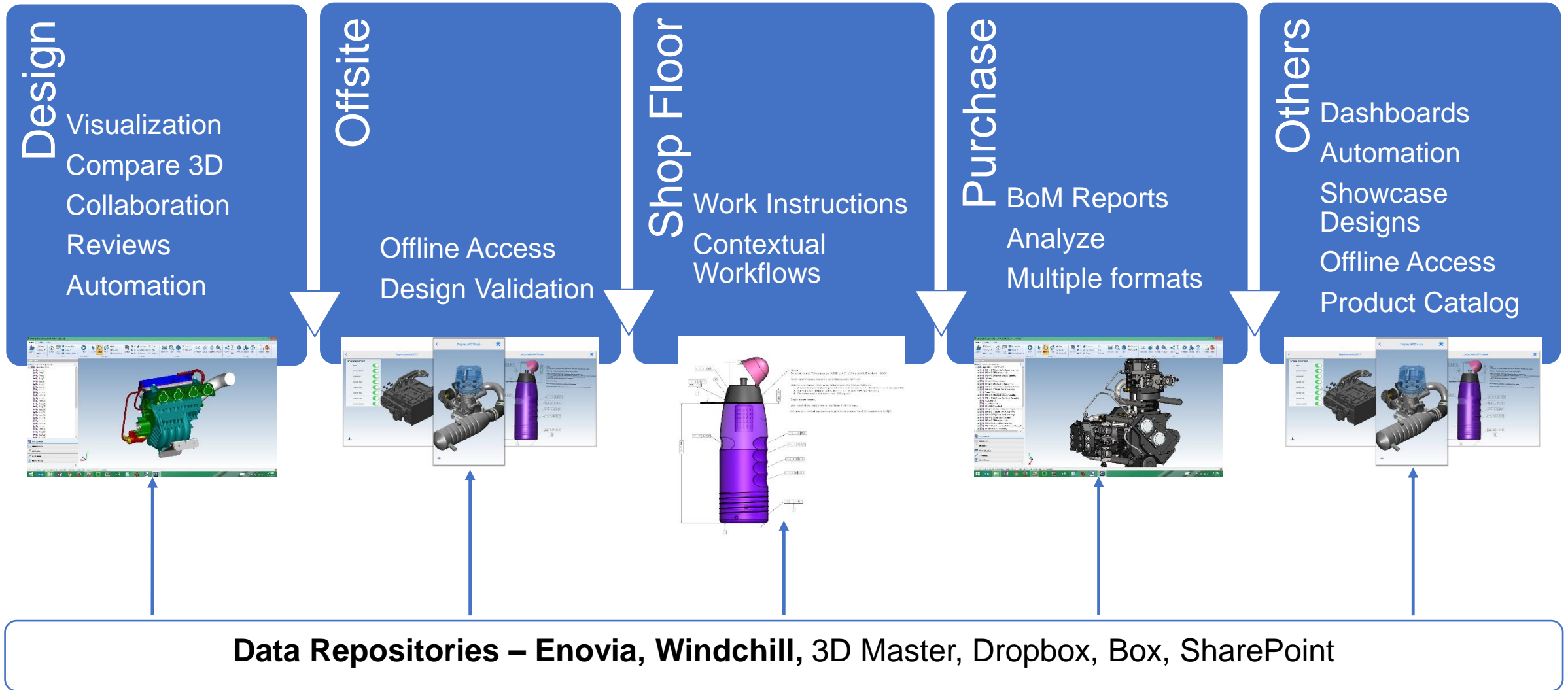
- When used just for viewing, **CAD is complex, expensive** and Windows-only. Modern mobile and web platforms are ignored
- Hidden training, maintenance and installation **costs**
- **Collaboration** is difficult and time-consuming
- **Automation, integrations** and **customization** are not possible



*“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

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

## Paperless Manufacturing

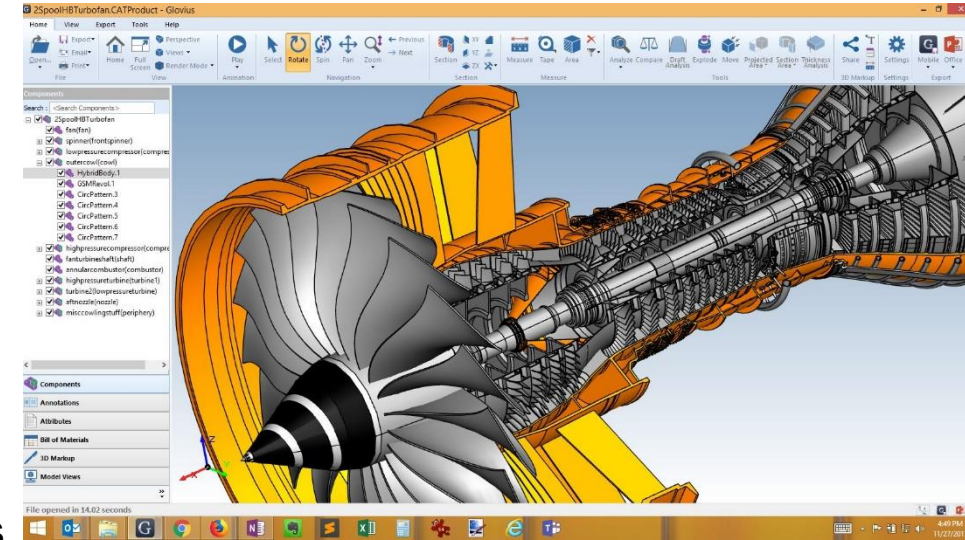
- Open native CAD files from CATIA, NX, Creo, STEP, and more...
- Eliminate the use of 2D drawings for assembly and part analysis
- View 3D geometry, full PMI and GD&T information, attributes
- Take accurate measurements, cut dynamic sections

## 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



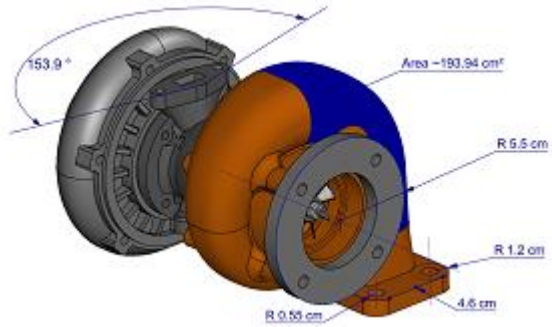
*“Glovius delivers a strong collaborative visualization choice for users looking to improve their data sharing experience during product development.”*

**- CIMdata, May 2018**

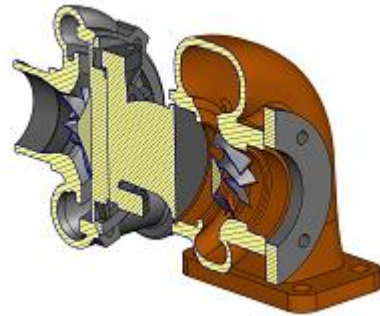
# Analysis Tools

- Parts and Assemblies

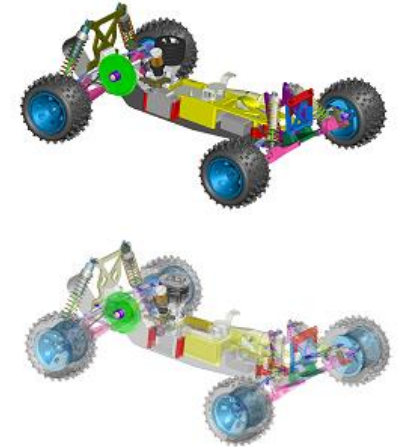
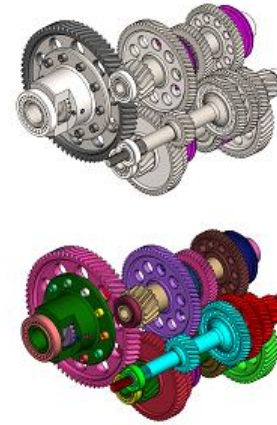
Measure



Take Sections

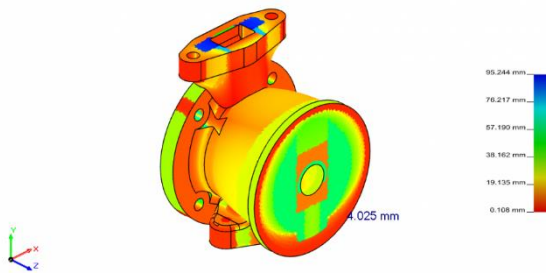


Apply Color and Transparency Effects

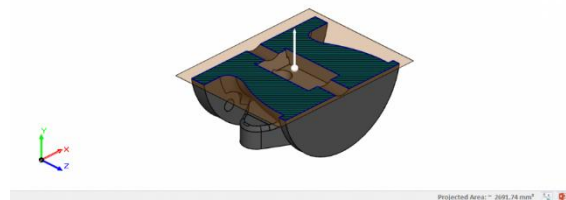


- Part Design

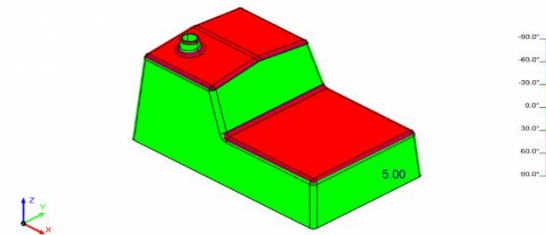
Analyze Thickness/Thinness



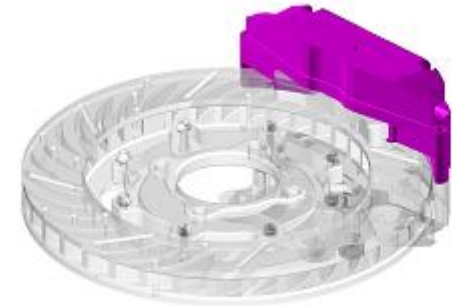
Calculate Projected/Section Area



Analyze Draft Angles

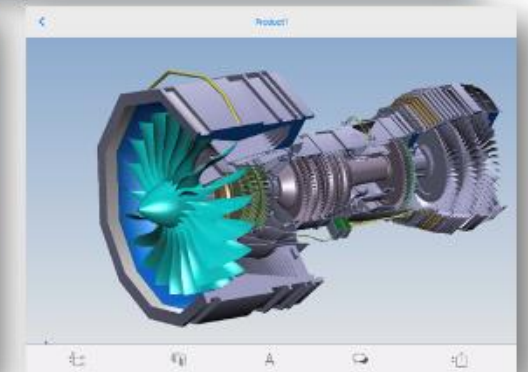
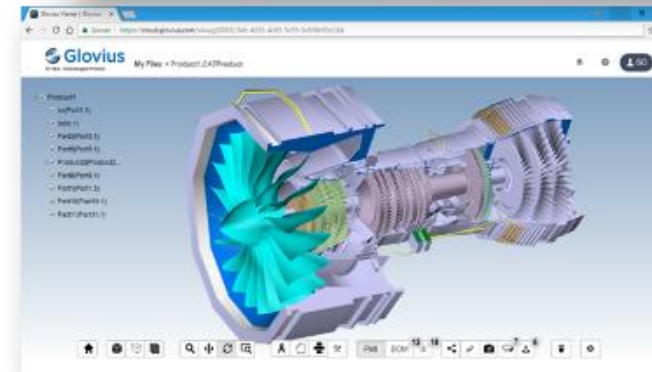
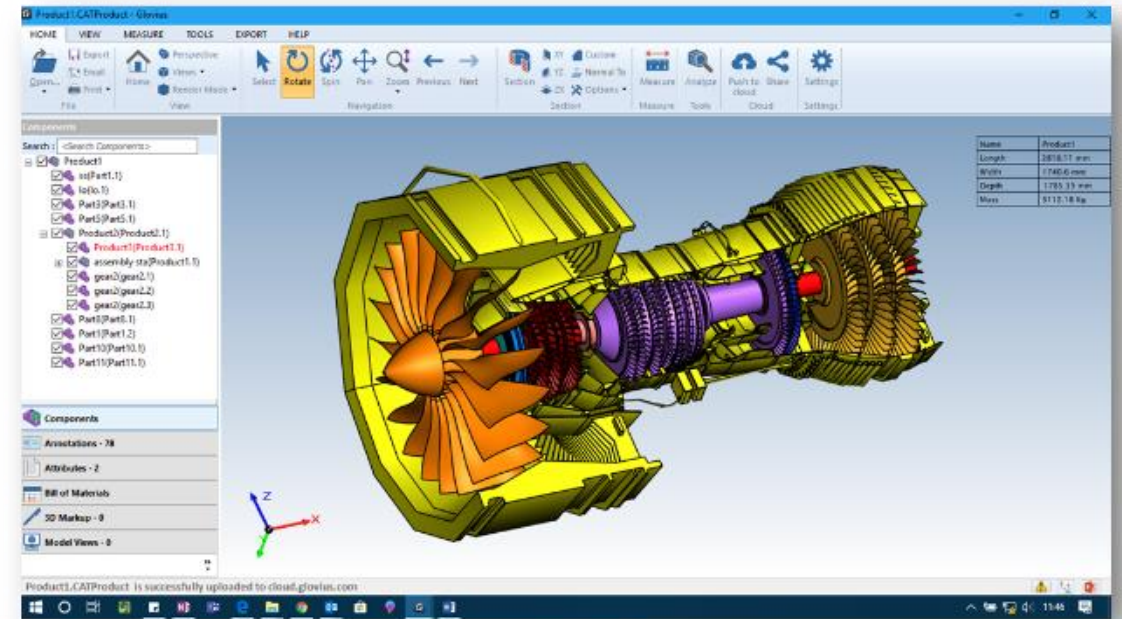


Compare in 3D



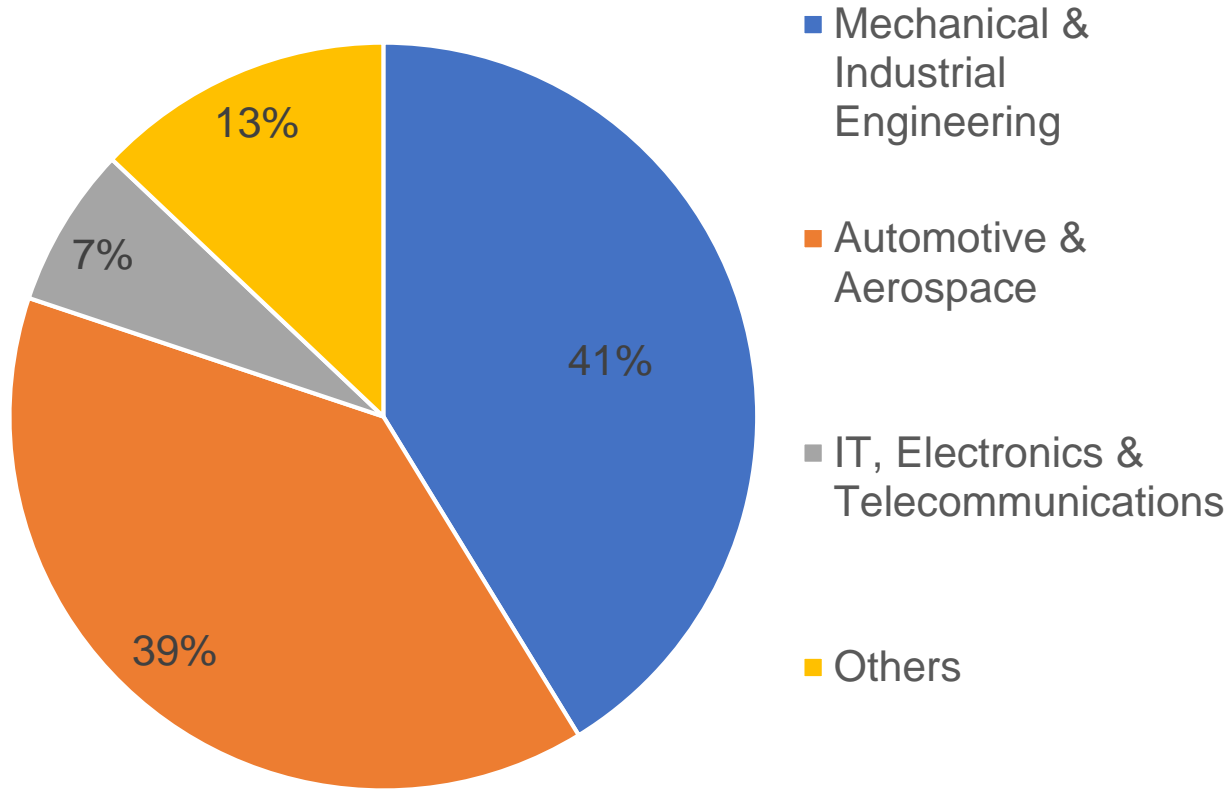
# Collaborate with Glovius Cloud

- **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





# Glovis in Industry



## Mechanical & Industrial Engineering

- Metal Working / Components Manufacturing
- Manufacturing Equipment & Machine Tools
- Plastics

## Aerospace and Automotive

- Aerospace and Automotive Suppliers
- Aerospace Component Manufacturers
- Automotive R&D

## Aerospace & Defense

- Aerospace Suppliers

## IT, Electronics & Telecommunications

- IT Services
- Electronics & Telecommunications Design

# Glovius Customers

“With Glovius our employees can now easily and fast open and review shared 3D-designs of many different file types. Not only on the work floor but also our purchasing, our sales and our service department have big benefits by using Glovius. Working with Glovius 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. Not only is the software but also the team behind it a great pleasure to work with.”

Jacco Lagerweij, [Brink B.V.](#)



“I rely on Glovius to open files from customers for viewing and quoting their projects. It’s been a great help especially from a cost standpoint because I do not need a complicated viewing program.”

- Jeffrey Geib, [West Bend Plastics Inc.](#)

“REFIMA is dealing in self-adhesive components made for automotive, electronic, building and packaging industry. Glovius helps us to view, analyze and measure 3D models of customer’s products where our components will be bonded. With Glovius we are able to recognize all customer’s requirements before we have to invest in tools.”

– Martin Mráz, [REFIMA s.r.o.](#)

“Advanced Systems and Controls uses Glovius in its estimating department. Estimators need the ability to open and view a wide variety of customer drawings and Glovius gives us that capability.”

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



“Glovius is definitely an excellent viewer software. We use it to provide data and presentations across the company from manufacturer engineer till project manager. We also use it to provide Bill of Materials (BOM) to our archive department and more...”

- Ronen Salomon, [Opgal Optronics Ltd.](#)



“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.](#)



# Select Customers

## Automotive



## Manufacturing



## Aerospace



A network diagram background consisting of a complex web of interconnected nodes and lines, rendered in a light gray color. The nodes are represented by small circles, and the lines are thin, connecting the nodes in a non-uniform, organic pattern.

## Case Studies

# ENTERPRISE VISUALIZATION SOLUTION

# 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



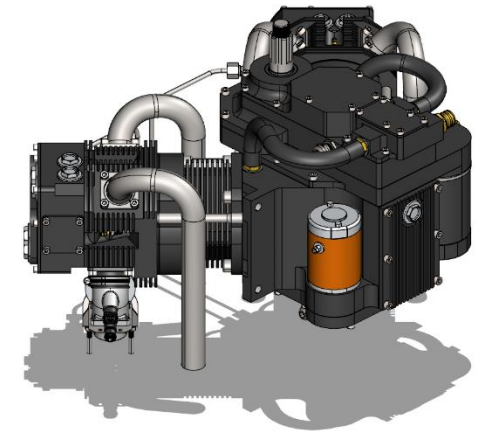
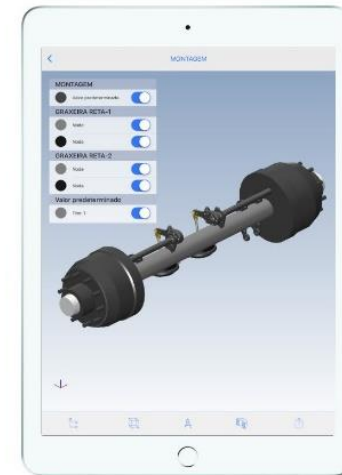
## Solutions

- 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

# 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



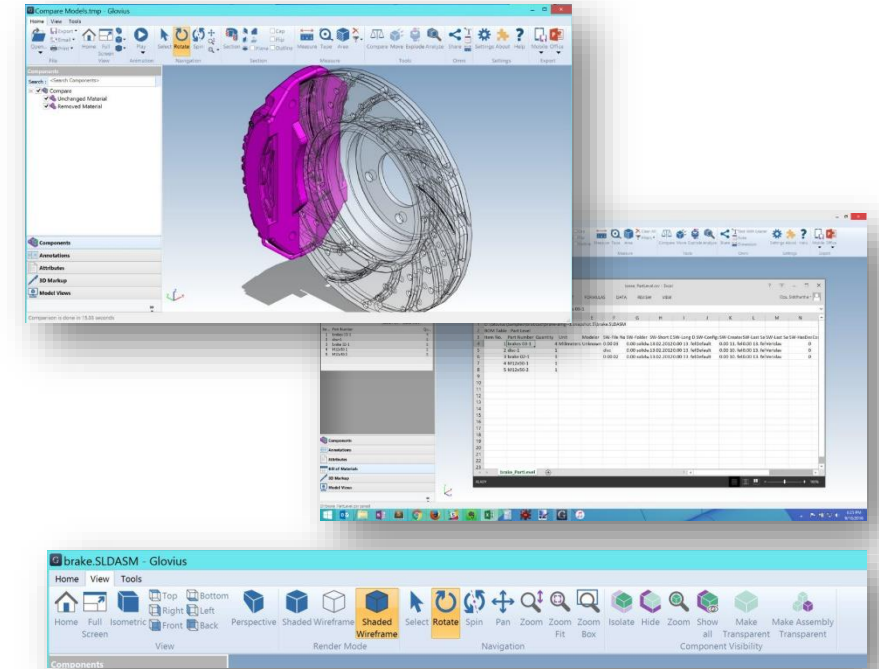
## Solutions

- 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

**THANK YOU**