Mockup 360: Digital Mockup without Boundaries

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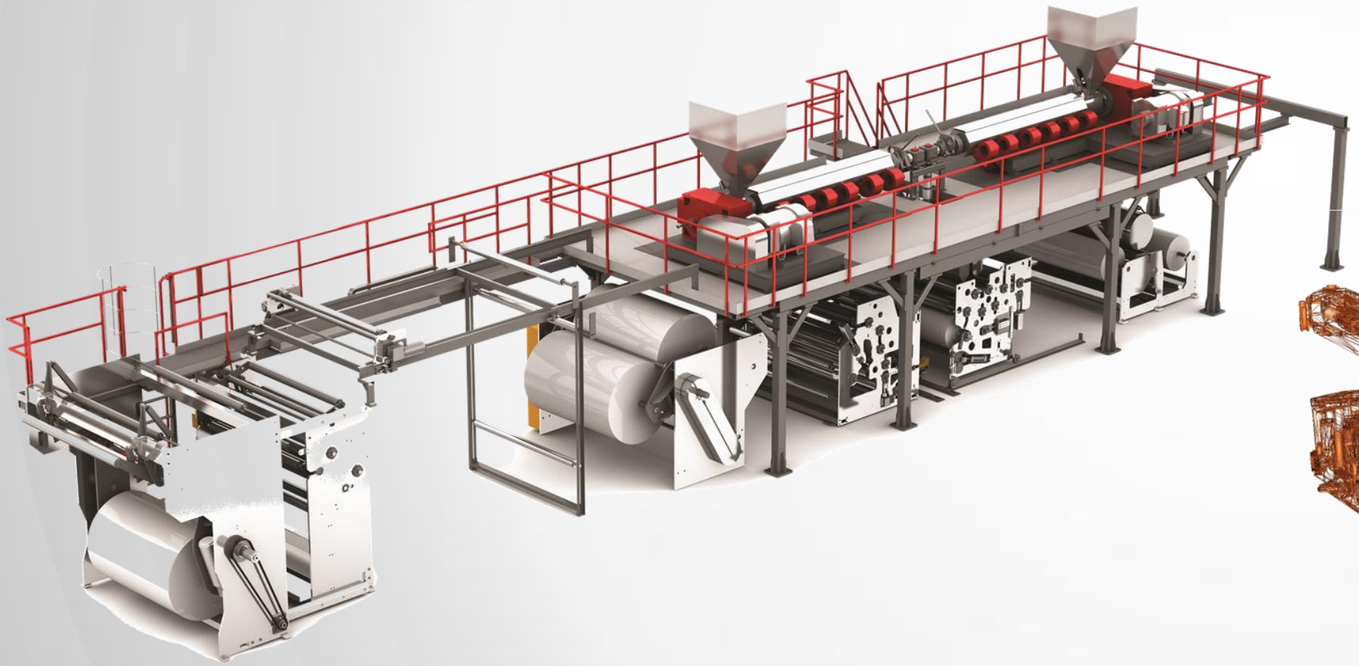
Autodesk Mockup 360 *provides real-time collaboration and large-scale design mockup capabilities for Product Design Suite users, their suppliers, and their customers.*



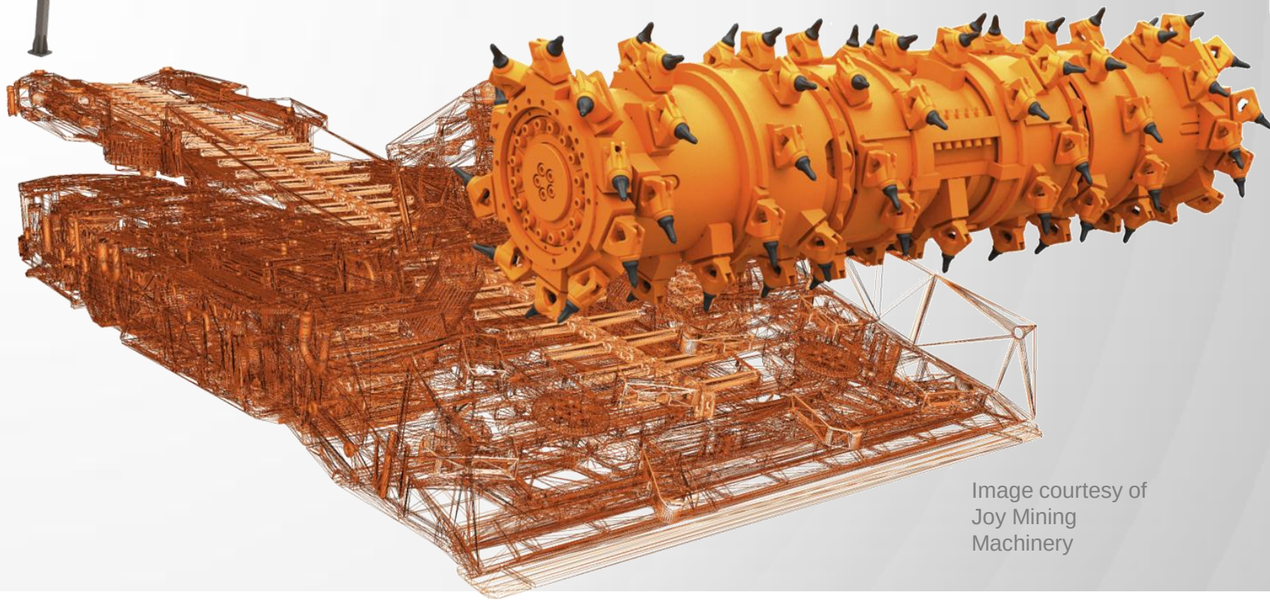
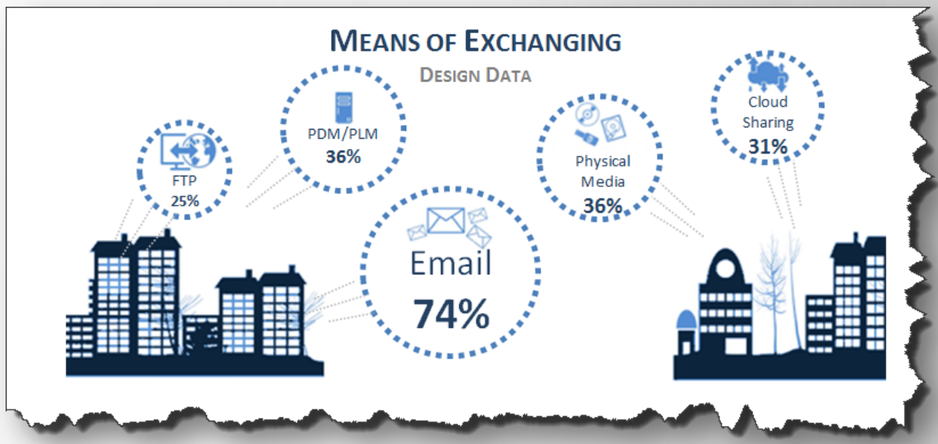


Image courtesy of Joy Mining Machinery

Manufacturer Challenges

- Global engineering teams, suppliers, and customers need to be connected in the design process but…
  - **Valuable resources are wasted** managing design data from suppliers
  - **Expensive manufacturing delays** are caused by poor exchange of data
  - **Communication is poor** with suppliers and customers

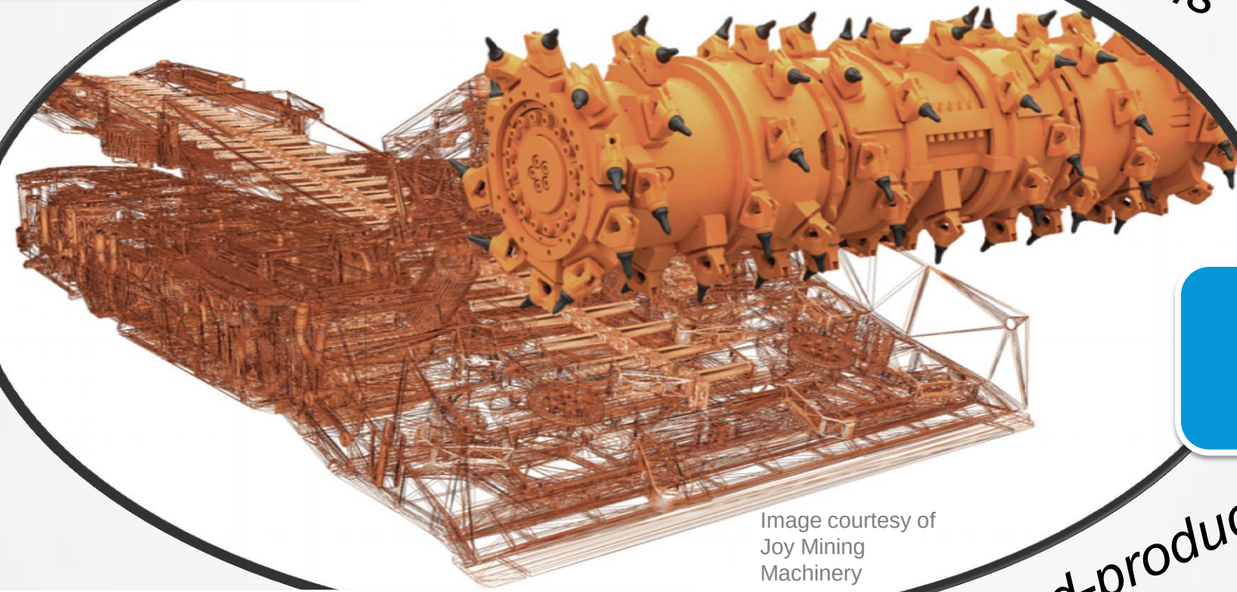


Data source: The 2013 State Of 3D Collaboration And Interoperability Report

Autodesk® Mockup 360™
Collaborate more effectively on designs

OEMs
Coordinate design process

Aggregate models



Analyze designs

Image courtesy of
Joy Mining
Machinery

Suppliers
Contribute designs

Customers
Review & provide feedback

Visualize end-product

Mockup 360 is….

Open

A central, cloud based mockup allows everyone to participate and stay up to date.

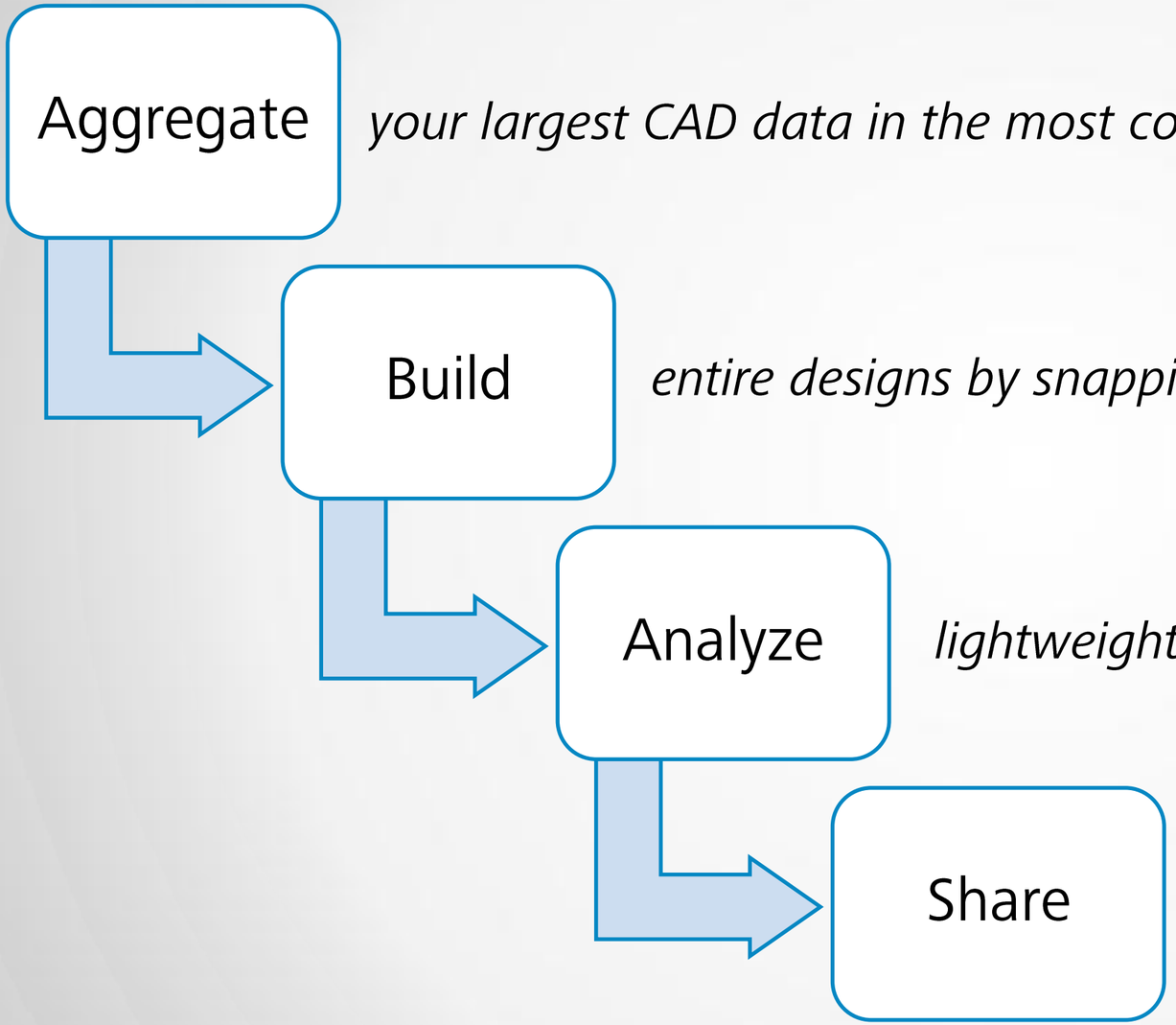
Easy

Easy to get started with no infrastructure required, a lite client, and a simple UI.

Flexible

Flexible licensing allows you to only pay for the time you need (monthly, quarterly, and annual options).

Getting Started with Mockup 360



your largest CAD data in the most common 3D formats.

entire designs by snapping models together to reposition.

lightweight mockups with measurement and clash.

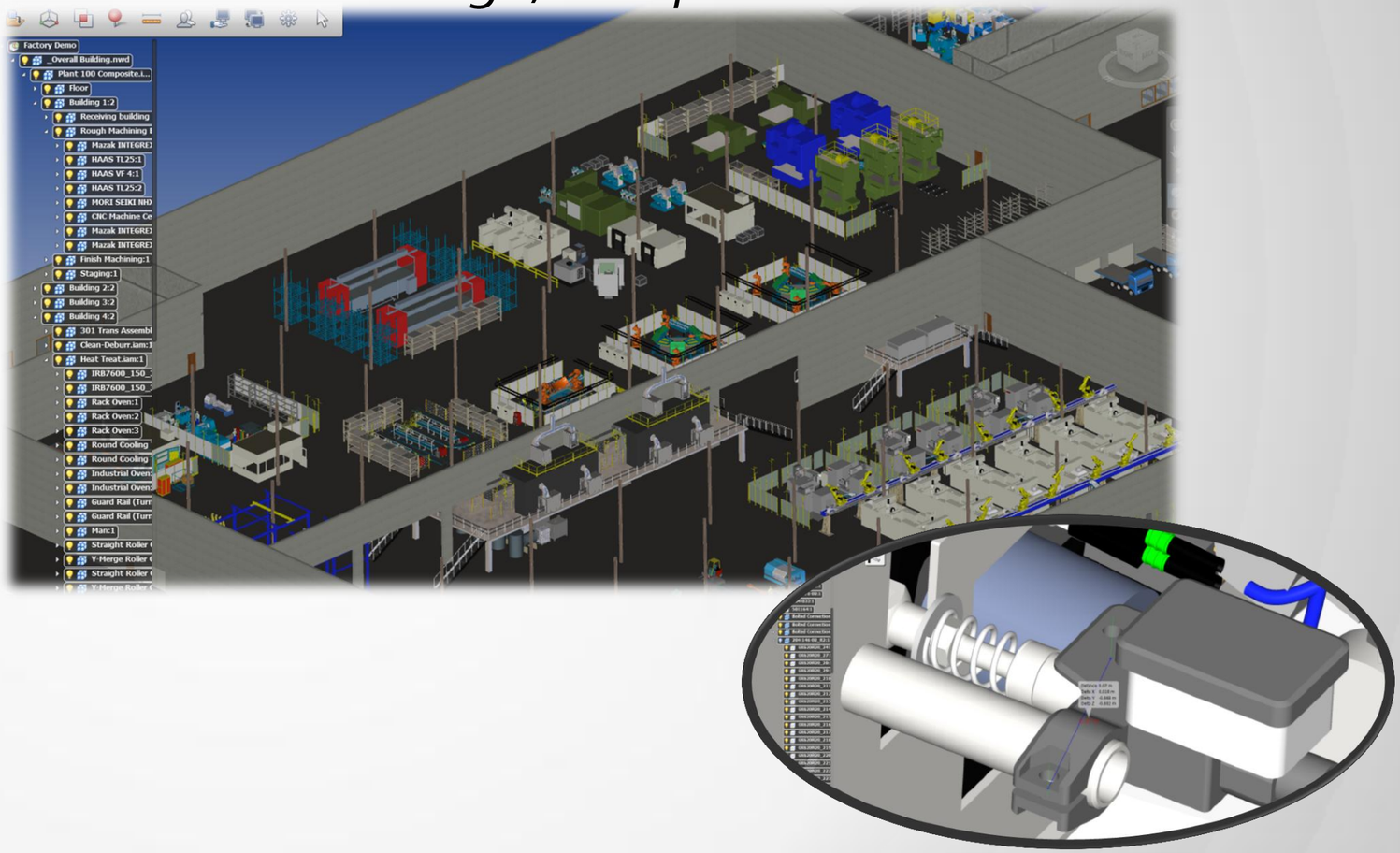
mockups with anyone in real-time collaboration.

Aggregate…Large-Scale Models

Insert Models in Over 50 Different Common 3D CAD Formats

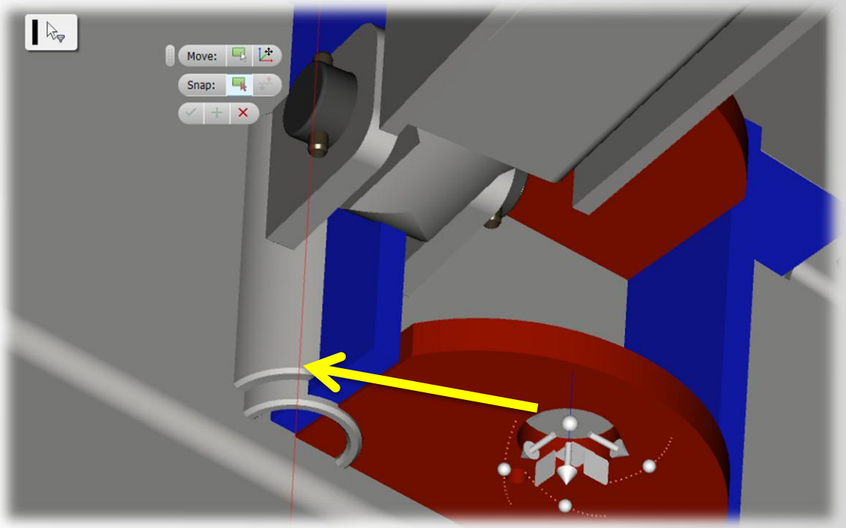
3D Studio (*.3ds;*.prj)
ASCII Laser (*.asc;*.txt)
CATIA (*.model;*.session;*exp;*.dlv3;*.CATPart;*CATProduct;*.cgr)
CIS/2 (*.stp)
Micro Station Design (*.dgn;*.prp;*.prw)
DWF (*dwf;*dwfx;*.w2d)
DWG/DWF (*.dwg;*.dxf)
Faro (*.fls;*.fws;*.iQscan;*.iQmod;*.iQwsp)
FBX (*.fbx)
IFC (*.ifc)
IGES (*.igs;*.iges)
Inventor (*.ipt;*.iam;*.ipj)
JTOpen (*.jt)
Leica (*.pts;*.ptx)
Navisworks (*.nwd, *.nwf, *.nwc)
NS (*.prt)
Parasolid Binary (*.x_b)
PDS Design Review (*.dri)
Pro/ENGINEER (*.prt*;*.asm*;*.g*;*.neu*)
ReCap (*.rcs;*.rcp)
Revit (*.rvt;*.rfa;*.rte)
Riegl (*.3dd)
RVM (*.rvm)
SAT (*.sat)
SketchUp (*.skp)
SolidWorks (*.prt;*.sldprt;*.asm;*.sldasm)
STEP (*.stp;*.step)
STL (*.stl)
VRML (*.wrl;*.wrz)
Z+F (*.zfc;*.zfs)
Zip Files (*.zip;*.7z)

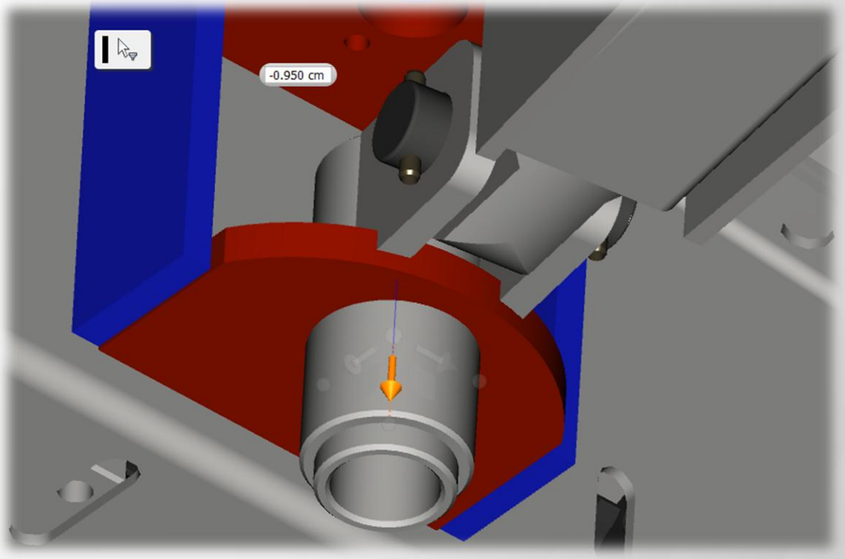
Lightweight environment to view large, complex models



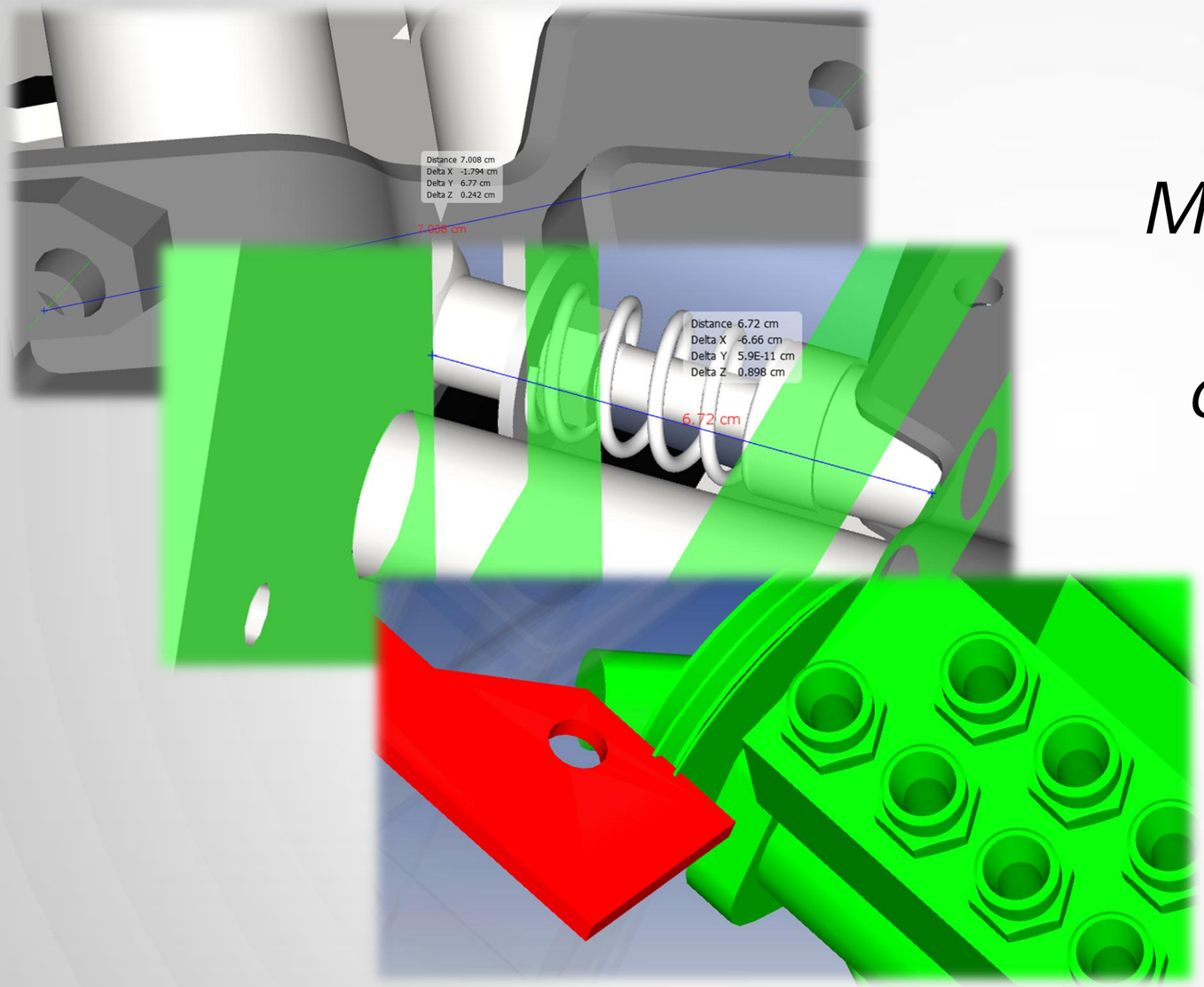
Build…Mockups Using Reposition

The reposition tool allows users to drag/rotate objects and snap together faces, axes, edges, and points





Analyze…Lightweight Mockups



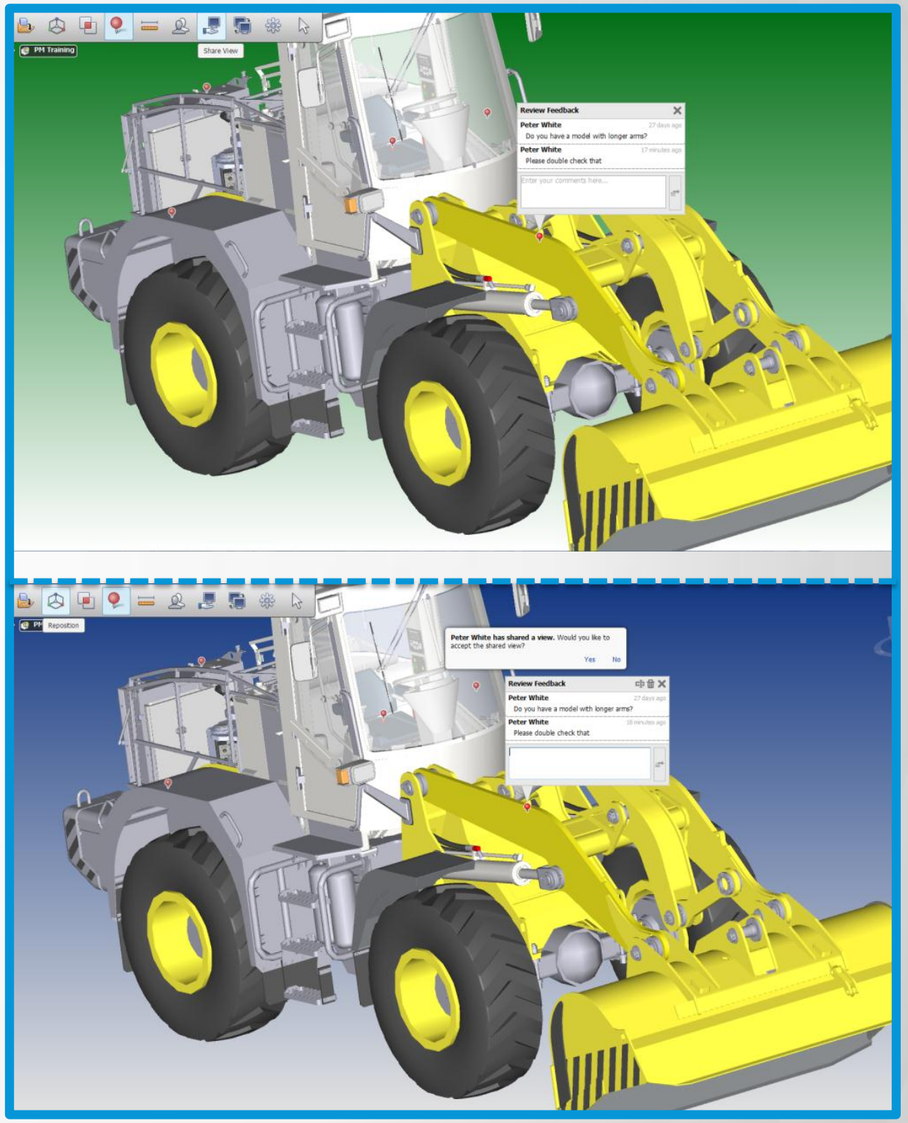
Measure minimum distances between faces, edges, centerlines, and points on mockups.

Find interferences quickly with clash check

Share…in Real-Time

With a shared mockup multiple collaborators can:

- *See changes in real-time*
- *Drop pins to give feedback*
- *Share views*

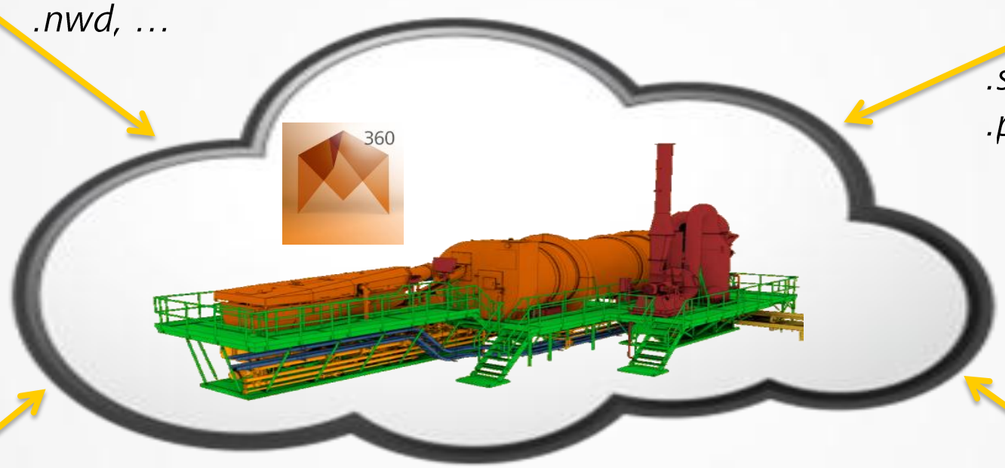


Mockup Collaborative Design Process

1 OEM syncs design with mockup

AUTODESK INVENTOR

.iam, .ipt, .nwd, …



2 Suppliers join mockup and insert their designs

.sldprt, .stp, .prt, .iam, …

3 OEM coordinates, checks issues

4 Customer reviews mockup and provides feedback

DEMO

Users and Packaging

Project Leads

- Project Engineer
- Engineering Manager
- Design Lead

Designer & Suppliers

- Design Engineer
- CAD Modeler
- Supplier Engineer/Mgr.

Stakeholders & Customers

- Sales Engineers
- Management
- Customers

Mockup 360 Pro

Full mockup 360 capabilities to manage projects

Mockup 360 Viewer

Review mockups
Free

Inventor and Mockup 360

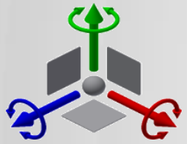
Autodesk Inventor

Collaboration

Mockup 360 makes it easy for Inventor users to extend their designs beyond the desktop and bring others into the design process.

Development Themes

Enhanced Mockup…

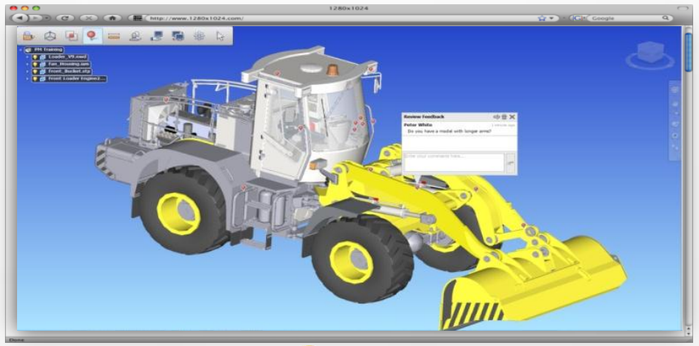


Reposition

Multiple Occurrence

Mockup History

Expanded Access…



Improved CAD Integration…

How can Mockup 360 help your business?

Just some ideas…

- Visualize and share entire projects to communicate designs more effectively
- Let suppliers integrate their designs in the overall project
- Get better feedback from customers by sharing an interactive 3D model
- Improve communication with field engineers by working on a shared 3D model

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