CONSOLIDATE
WITH CREO!

ptc

No one gets up in the morning and thinks,

"Clear my schedule! We need to consolidate on one CAD tool!"

Of course not, but maybe you should.

Does it seem like everyone in your organization uses a different CAD tool?

> Industrial Designers use one tool because they value its surfacing capabilities.

> Engineering uses three different CAD systems (perhaps as a result of past acquisitions), each with its own set of advocates.

> Manufacturing and Quality have embraced an entirely different system.

Your teams are spending hundreds of hours importing, converting, and correcting different files as well as doing endless training. And don't forget the homegrown idiosyncratic workflows your team has developed to deal with all these software packages. How much time is that taking?

Outside of engineering, your IT and license management professionals are paying support for all these different systems, managing the applications in-house, and dealing with nuances of license management.

From a strategic point of view, your company is essentially taking itself hostage by putting some of its most valuable intellectual property - the data, calculations and models underlying successful products – in several CAD systems. Employees find themselves up against the barriers of rework, data translation, and the damaging effects of innocent human error.
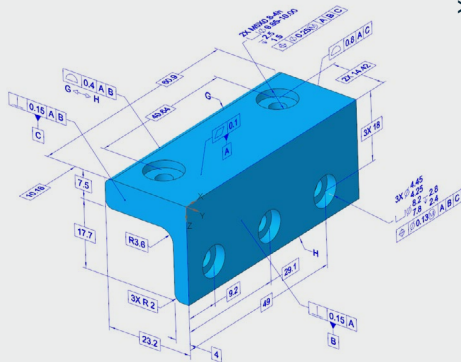
It's time to consolidate!

TABLE OF CONTENTS

BENEFITS of CONSOLIDATION

Consolidating on one CAD tool delivers concrete benefits and is a critical part of any company's digital transformation plan. PTC defines digital transformation as a strategy to solve broad business challenges using digital technologies. With one CAD system, everything is integrated, as a single digital thread weaves its way through the entire design and production environment. This helps to improve productivity, speed time-to-market, improve quality, enhance collaboration and reduce costs.

Company-wide integration

> Are you exploring or implementing model-based definition (MBD)? Do you have digital transformation initiatives underway? If so, consider CAD consolidation. These initiatives can lead to breakthroughs in cost, quality, and competitiveness, but the first step is a common CAD system that all can use.

Productivity

Manage the product development process seamlessly across functions, sidestepping data translation as well as the need to re-create legacy data. Assign projects to the appropriate design engineer, without having to consider what CAD system the engineers knows.

Faster time-to-market

When your teams can more easily share ideas on a single platform, design tasks are completed faster, and rework is minimized.

Improved Product Quality

A single platform reduces the chances for the human errors associated with data translation and model re-creation.

Collaboration and Innovation

Your design teams now speak a common language, so it's easier to share design intent, challenge assumptions and learn from each other. As a result, innovative designs and processes are more likely to emerge.

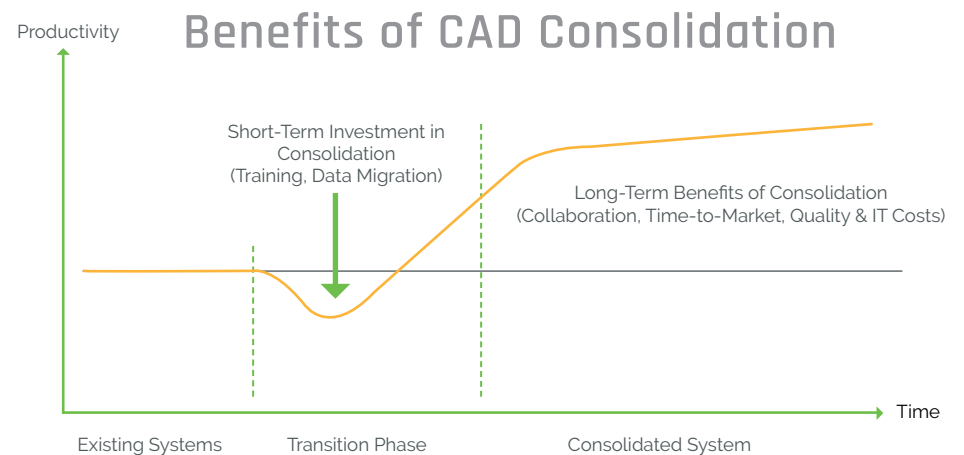### Reduced IT & License Expense

Consolidation means fewer financial headaches. Your IT department focuses on one platform for training and support, and your licensing department manages a single agreement for subscriptions and perpetual maintenance contracts.

creo®

ptc.com

If you're fortunate, you may be able to migrate to a new, standardized 3D CAD platform by simply starting all new projects on the new software. However, since design engineers frequently modify or leverage existing designs, it's critical that the data from the old system is accessible in the new CAD system. You'll want to consolidate on a system with outstanding multi-CAD capabilities, including the ability to import and open data files from many of the most common CAD systems and formats.

When you consolidate to a single CAD system, you will likely see a short-term reduction in productivity, associated with training and data migration. However, the long-term benefits are worth the investment.

You can minimize the transition phase and get to those long-term benefits faster if you have a solid plan for data migration, training and support for your team. Does your CAD software make it easy for your team to access and work with older data files? At a minimum your plan should include options for on-demand and live user training in several formats. And make sure you understand what help is available inside the software, ideally in a context-sensitive menu at the click of a mouse.

Benefits of CAD Consolidation

Productivity

Short-Term Investment in Consolidation (Training, Data Migration)

Long-Term Benefits of Consolidation (Collaboration, Time-to-Market, Quality & IT Costs)

Time

Existing Systems   Transition Phase   Consolidated System

Consolidation Checklist

CAD System Selection
o Does it have the tools you need for today and tomorrow?

o Is it easy to learn, with accessible tutorials?

o Can you easily access non-native files?

Secure executive sponsorship and support
o Expect resistance - change is hard.

o Communicate reasons for change.

Develop a migration plan
o Training plan – live and on-demand.

o Data file migration schedule.

o Identify cut-over date(s).

CONSOLIDATE with CREO!

Creo is the easy to learn 3D CAD solution that combines powerful, proven functionality with transformative new technologies. In addition, PTC can help you with data migration and team training. When you consolidate with Creo, you can move efficiently through the CAD transition to the long-term benefits of CAD consolidation.

Close integration with other industry-leading products - PTC offers Windchill Product Lifecycle Management, Mathcad calculations software, ThingWorx Industrial Internet of Things solutions and Vuforia Augmented Reality tools. Best of all, they all integrate seamlessly to help you maximize the value and minimize the effort.

ptc mathcad®   thingworx®   creo®   windchill®   vuforia™

Windchill and Creo – Better Together

Creo and Windchill work like hand-in-glove for your CAD and PLM requirements, and PTC continues to invest in both powerhouse solutions.

Creo – a powerful and easy-to-use CAD tool.

Ease of Use
Every release of Creo contains more and more ease-of-use improvements. Today's Creo includes enhancements that make it easier and faster to bring your designs to life. Examples include mini-toolbars & in-context menus, mirror & pattern-recognition, and enhanced model tree management.

Powerful Design Environment
Creo provides a single, integrated design environment that can take you from initial concept all the way to CNC toolpaths. Tools like advanced simulation, generative design, additive manufacturing, and MBD are integrated directly into Creo, avoiding the hassle and error-prone process of exporting and re-importing data files.

Innovation in Every Release
With a major release of Creo every year, neither your users nor your business will ever have to play catch-up, especially when it comes to optimizing designs. Here are just a few of the recent Creo additions:

> **Creo Simulation Live** – Instantaneous and interactive design guidance.

> **Creo Ansys Simulation** – High-fidelity validation of your designs.

> **Generative Design** – AI-driven design optimization.

> **Augmented Reality** – Safely share your design concepts with customers and suppliers.

creo®

ptc.com

CONSOLIDATE with CREO!

PTC continues to invest in break-through technologies, like generative design, Ansys simulation and augmented reality. Plus, we continue to improve the CAD tools to help make your day easier and more productive. If you aren't seeing the value in your current subscription and maintenance fees, or if your CAD provider is pressuring to change to a new platform, maybe it's time to make the change to Creo.

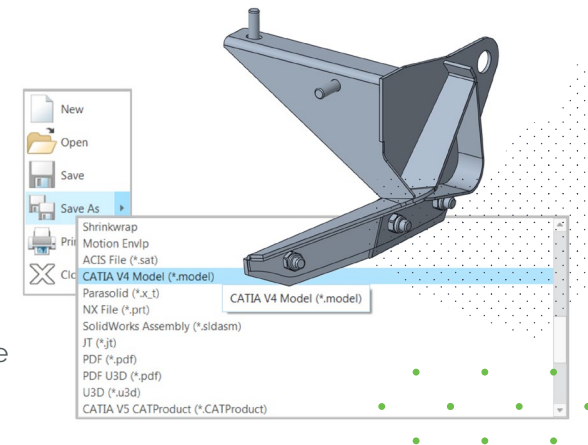## Creo has you covered on Data Migration

With Creo, migrating your existing CAD data is easy. Thanks to Creo's Unite Technology, users can import and open files from Dassault's CATIA and SOLIDWORKS software, Siemens NX, Autodesk Inventor, among others, without requiring licenses for these systems. There is no need for 3rd party application conversion software, as it is built right into every license of Creo. You can incorporate the objects directly into your design or convert the files into a Creo object. Creo will even automatically recognize and add design intelligence to make your design changes simple.

If you do need to make changes to non-Creo parts, Creo will automatically convert just the affected components on demand, instead of requiring conversion of all the parts in the assembly. This minimizes the time and effort spent on data migration.

The powerful flexible modeling capabilities in Creo allow users to easily make changes to imported geometry. You can quickly modify the converted part to meet your design requirements.

And in case you need to communicate with outside suppliers and partners, Creo Unite Technology has you covered, as you can even save your new Creo files in some of the more common formats.

ACCESS THE CREO UNITE TECHNOLOGY DATA SHEET →

creo®

CONSOLIDATE with CREO!

Creo Training and Support

Although all CAD systems are different, the good news is that the fundamentals of parametric modeling are the same. The race car might handle a little differently, but your engineers still know how to drive. Give them some training, support and a little time, and you'll be amazed by what can be accomplished.

PTC offers a wealth of tools to get beginners and experts up to speed quickly. Your team can access a wide variety of in-person, live online and eLearning training through PTC University (PTCU). We offer public and private training options as well as certifications to prove your expertise.

Every Creo subscription includes eLearning for Creo basics, like modeling, surfacing, assembly and simulation. You can also access online help for quick tutorials on a variety of topics including model-based definition (MBD), sheetmetal and framework design, to name just a few.

In addition, subscribers to PTCU's Creo LEARN Online subscription get UNLIMITED access to live, virtual instructor-led sessions, with multiple classes daily, across multiple time zones. Expert Creo instructors lead these hands-on classes, providing you with an engaging, interactive learning experience.

ACCESS PTCU'S CREO LEARN ONLINE SUBSCRIPTION →
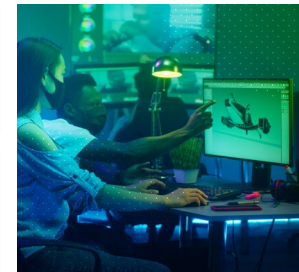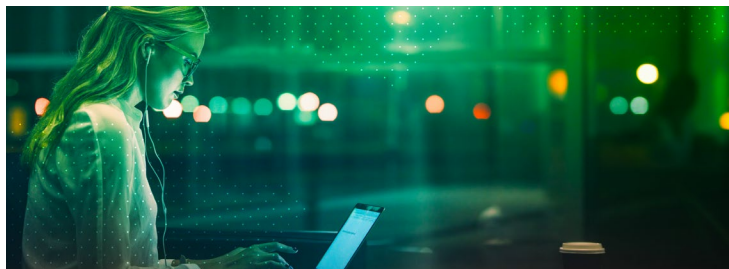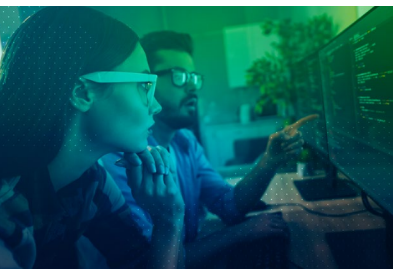
Live Instructors	Flexible Class Schedule
Certifications	Virtual Software Environments

creo®

ptc.com

CONCLUSION

CAD Consolidation will help you and your organization achieve dramatic gains in productivity, by improving collaboration between functional groups and reducing IT overhead. Creo offers the design tools you need for today and tomorrow, and we are available to help get you successfully through the transition. Contact us when you are ready to get started!

Need more information?   **CONTACT US** →

Creo is the 3D CAD solution that helps you accelerate product innovation so you can build better products faster. Easy-to-learn Creo seamlessly takes you from the earliest phases of product design to manufacturing and beyond. You can combine powerful, proven functionality with new technologies such as generative design, augmented reality, real-time simulation, additive manufacturing and the IoT, to iterate faster, reduce costs and improve product quality. The world of product development moves quickly, and only Creo delivers the transformative tools you need to build competitive advantage and gain market share.

ptc.com