

## 3 reasons optimized infrastructure can help you manufacture better-quality products quickly and efficiently

Computer-aided engineering (CAE) software allows manufacturers to simulate, validate, and optimize designs for new products without building expensive prototypes.

This enables engineers to create smarter, more complex, higher-quality products, while reducing costs and risks, improving energy-efficiency and shortening time-to-market.

Increased demand for CAE, coupled with the growing sophistication of CAE applications, means many manufacturers are outgrowing traditional computer workstations and servers, and are looking to step up to more capable infrastructure for their CAE.

Lenovo

AMD

# Making a difference today

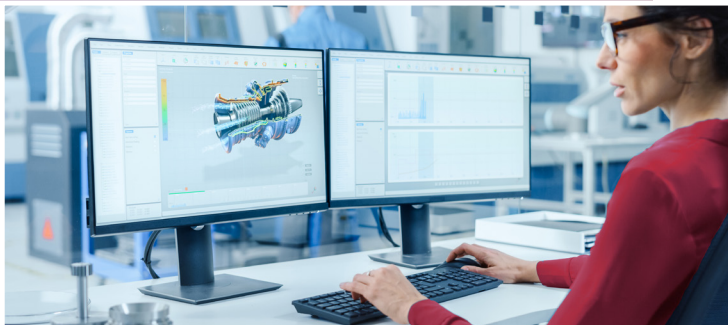
Adopting optimized infrastructure, including high-performance computing (HPC), is enabling engineers to successfully run ever-more-complex simulations and other data-intensive workloads in ways that were challenging before.

Discover 3 exciting use cases below:



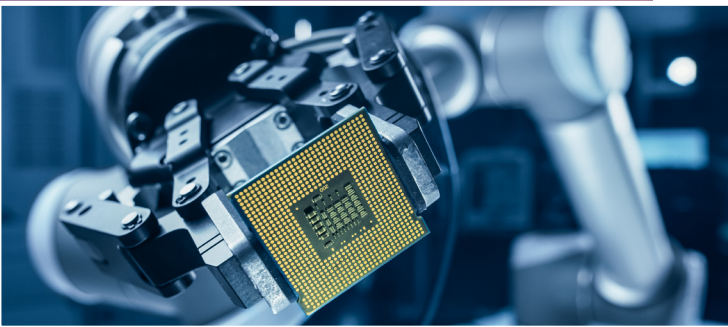
## Automotive crash test simulation

Vehicle designers are running increasingly sophisticated collision simulations, using many sensors. In addition to helping improve safety, these simulations reduce the need for physical testing, resulting in lower costs and quicker time to market.



## Digital twins

Digital twins use networks of sophisticated sensors to create replicas of ecosystems, such as complex machinery or facilities. They can help manufacturers improve product quality and process efficiency.



## Electronic design automation (EDA)

EDA is a key application for creating modern semiconductors, helping chip makers manage the enormous complexity associated with their design and manufacturing. Because it is so data-intensive, EDA wouldn't be possible without powerful compute capabilities.

**Read on** to discover three ways optimized infrastructure from Lenovo and AMD can help accelerate time-to-market for manufacturers, while boosting product quality and efficiency.

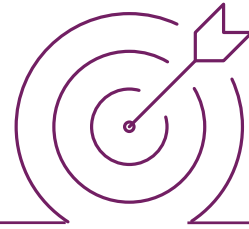




## #1. Get the right compute capabilities for your unique requirements

Different CAE workloads have different performance needs. Lenovo offers servers, powered by AMD processors, to match your manufacturing requirements.

From small-scale, single-node enterprise deployments, to the largest supercomputers, you can deploy the right blend of compute power, I/O and storage to meet the needs of your data-intensive applications.



## #2. Access the right solutions at the right time, using a flexible, secure, cloud-like experience

Unlock as-a-service pricing for your Lenovo and AMD data center infrastructure, thanks to Lenovo TruScale.

Continually align your computing capabilities with your needs, only paying for what you use.

Quickly ramp up your CAE platforms to support new product development cycles, improve quality, and accelerate time-to-market with Lenovo TruScale.



### Lenovo TruScale at-a-glance

- Reduced cost to entry
- Minimized risk with pay-as-you-go consumption model
- Designed for dynamic environments



## #3. Get started quickly and confidently, leveraging our partner ecosystem

Lenovo and AMD combine years of high-performance computing experience with a global ecosystem of leading CAE and EDA application providers/ISVs.

These collaborations result in validated and optimized platforms tailored to the specific needs of demanding manufacturing workloads.

As a result, you can transition to Lenovo and AMD optimized infrastructure quickly and confidently, knowing you're choosing a proven platform for your workloads that can help accelerate time-to-value.

Lenovo

AMD

## Want to know more?

Start your journey using high performance technology from Lenovo and AMD today

[Find out more](#)