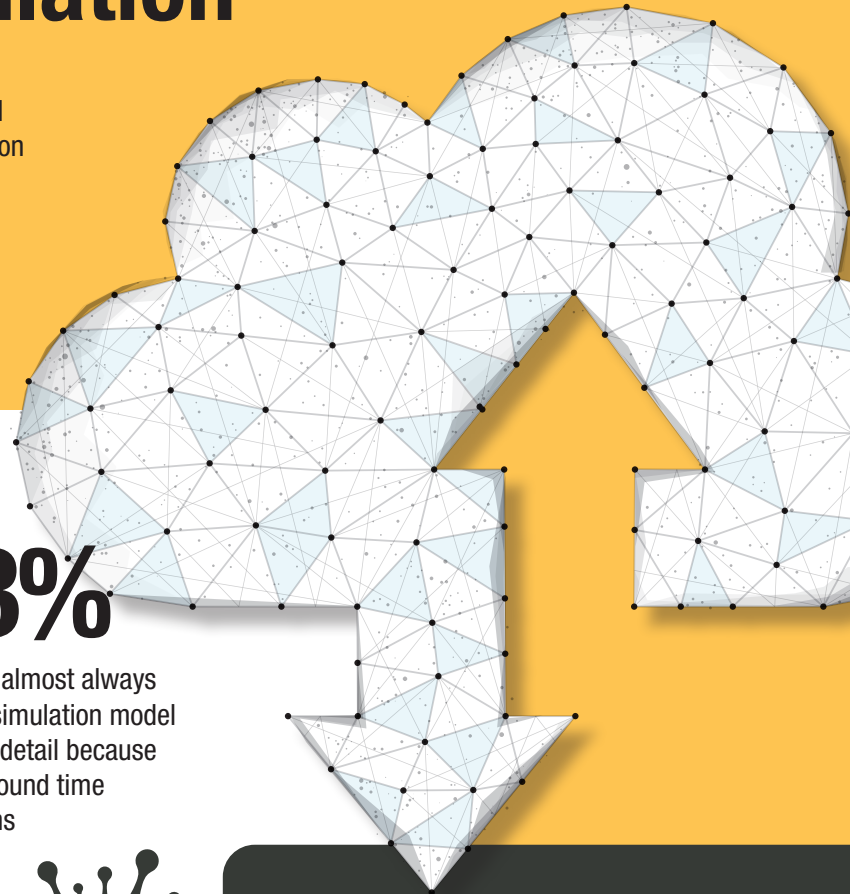


# HPC and Cloud-Enabled Engineering Simulation



**18%**

of respondents are using a cloud solution for engineering simulation today, and another 18% plan to use such a solution in the next 12 months.



## HPC Simulation Drivers

**52%**

reported that their top design challenge is the demand to reduce design cycle time

**21%**

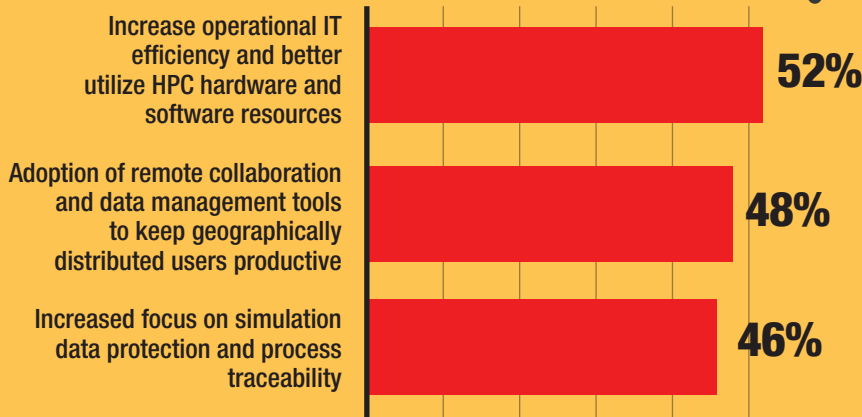
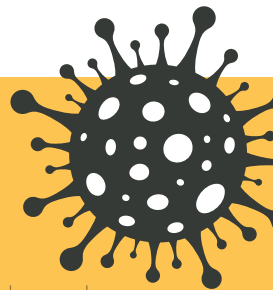
reported that their most frequent simulations are overnight runs (i.e., longer than 9 hours)

**33%**

reported almost always limiting simulation model size and detail because of turnaround time limitations

## The COVID-19 Factor

The most important HPC-based simulation priorities\* influenced by the COVID-19 pandemic are:



\*% of respondents rating priority as extremely or very important; values do not add up to 100% because respondents could choose multiple answers.

## Continued HPC Investment

Despite the economic upheaval caused by the global COVID-19 pandemic, only 9% of respondents indicated that their HPC-enabled simulation budgets would be reduced.

## Cloud Accelerates Simulation

Cloud has become an important deployment model for accelerating simulation times. More than a quarter of respondents indicated that the use of a public cloud solution or ISV-managed solution could reduce turnaround time limitations on simulation (compared to 12% in 2014).



**Source:** Study on High-Performance Computing Usage for Engineering Simulation, conducted by Digital Engineering on behalf of Ansys, and sponsored by Intel.

**Learn more:** [www.digitalengineering247.com/AnsysHPC](http://www.digitalengineering247.com/AnsysHPC)