

**Siemens Digital Industries Software** 

# **Intelligent Performance Engineering** Drive innovation through simulation

#### Trends



Trend #1

Consumer-driven demand for highly customized machines.

#### **Key Drivers**



Trend #2

Smart manufacturing, explosive growth in the number of industrial machines connected via the Internet of Things (IoT).



Trend #3

Hyperautomation, the need to integrate silos of data across domains to gain knowledge.



Global competition, advanced technology increases pressure on companies to innovate.



#### **Multi-Physics**

80% reduction in development time 75% reduction in controls development time

-20% reduced number of prototypes

### Integrated design and simulation



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Reduce flow analysis time from several days to a few hours



We eliminated at least one complete prototype iteration step, which reduced both developmnet duraation and expenditures. Source: Kristof Roelstraete, Dir. Weaving machine Development Picanol



## **Closed Loop Validation**



Build the future of smart machines and boost productivity through simulation <u>with Intelligent</u> Performance Engineering

> For more information, visit: