

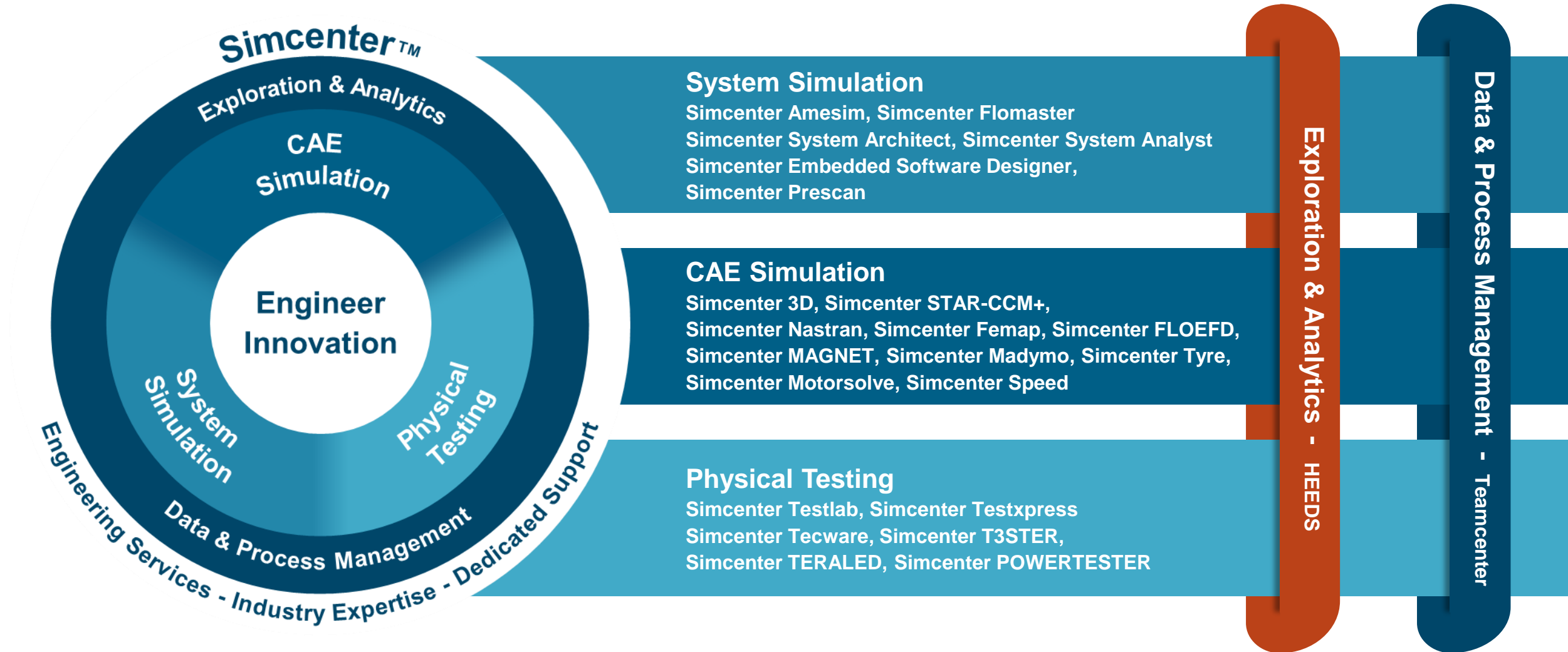
Discover Better Designs, *Faster!*

Where today meets tomorrow.

Driving Innovation Through Design Exploration



HEEDS Enables Innovation for Simcenter



Discover Better Designs, *Faster!* Innovative Products and Technologies



HEEDS

Multidisciplinary Design Exploration Platform



CAD Portals

Geometry Exchange

CAE Portals

Simulation Tasks

Python Scripting

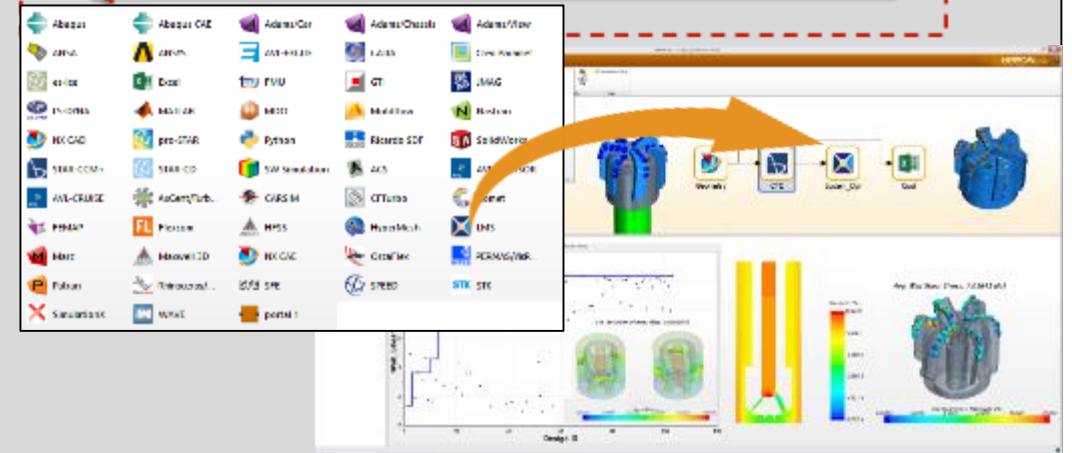
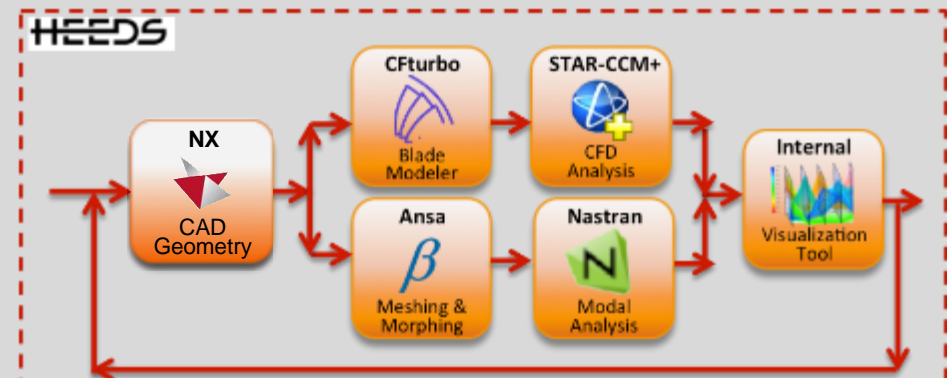
VCollab Visualization

Automate Virtual Prototyping and Find Better Designs

Process Automation

Process Automation

Simplifying the virtual prototype build process




Discover Better Designs, *Faster!*

Innovative Products and Technologies



HEEDS

Multidisciplinary Design Exploration Platform

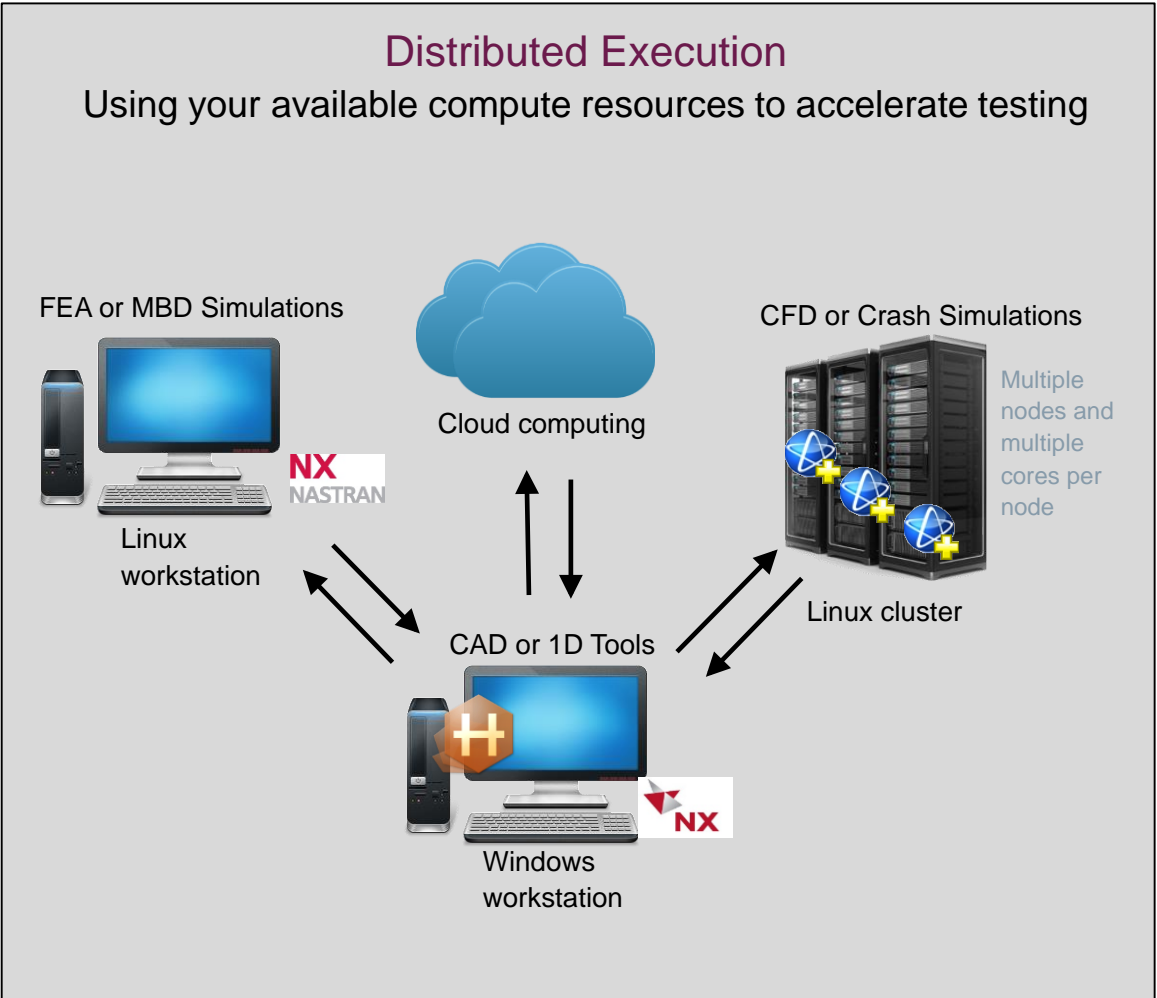


CAD Portals Geometry Exchange	CAE Portals Simulation Tasks	Python Scripting	VCollab Visualization
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Automate Virtual Prototyping and Find Better Designs

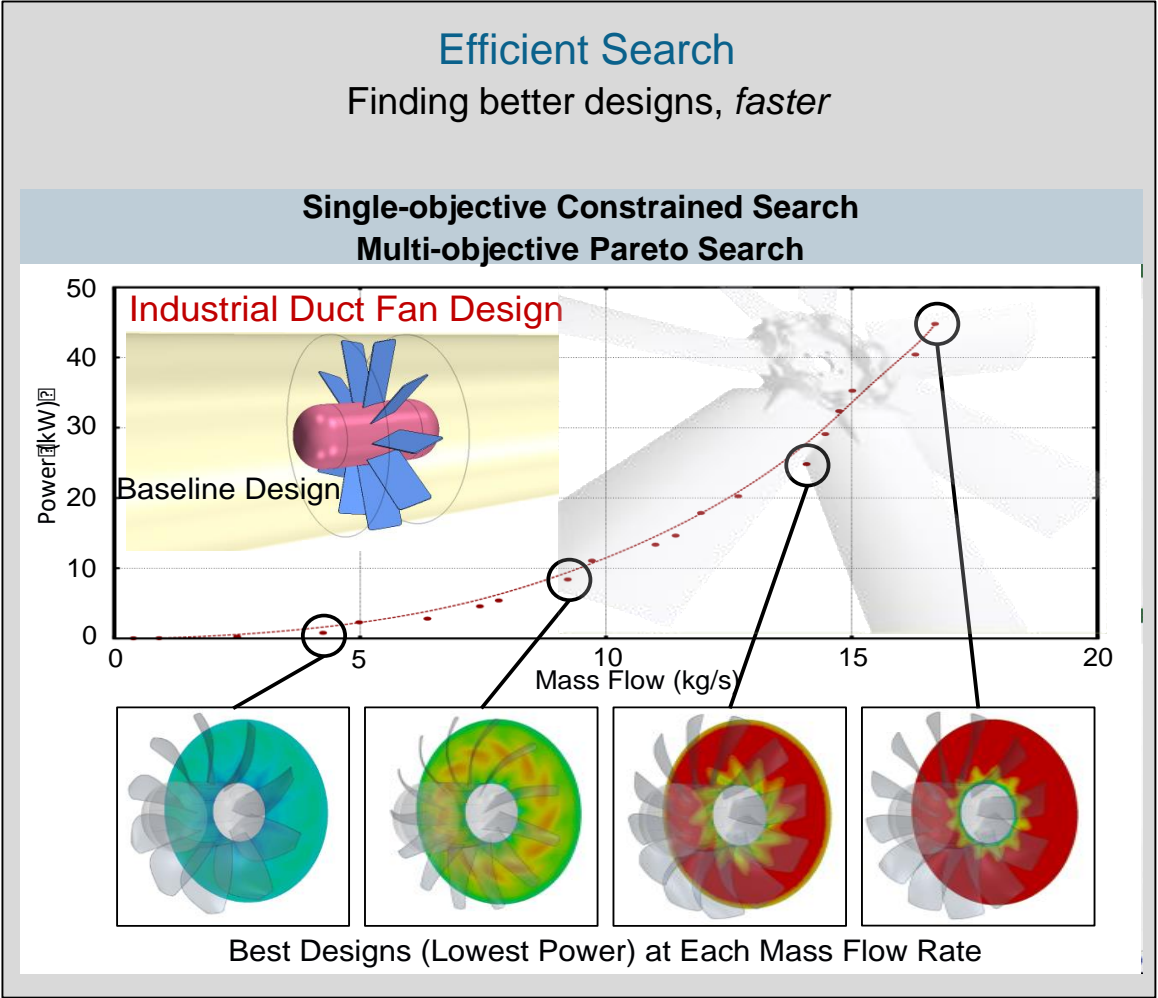
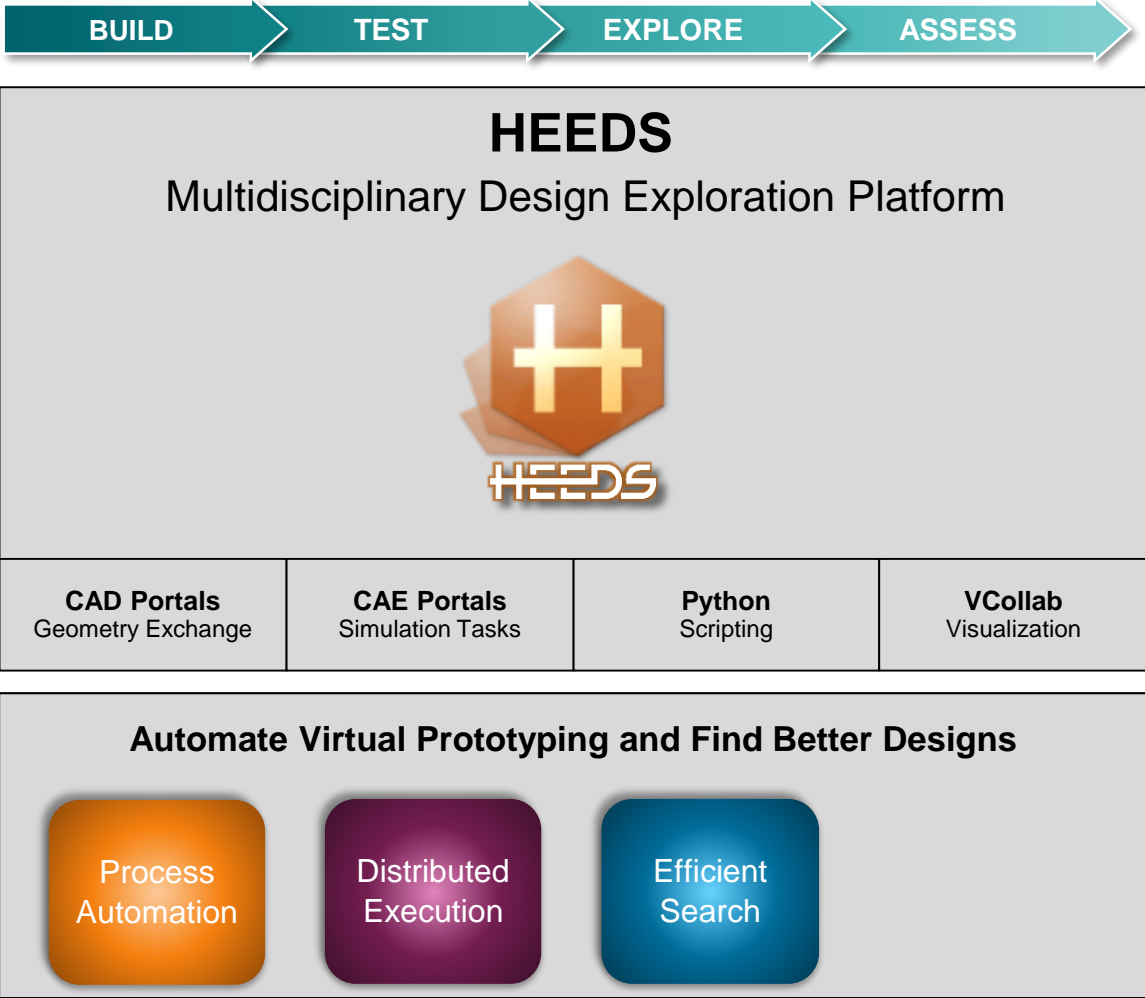
Process Automation

Distributed Execution

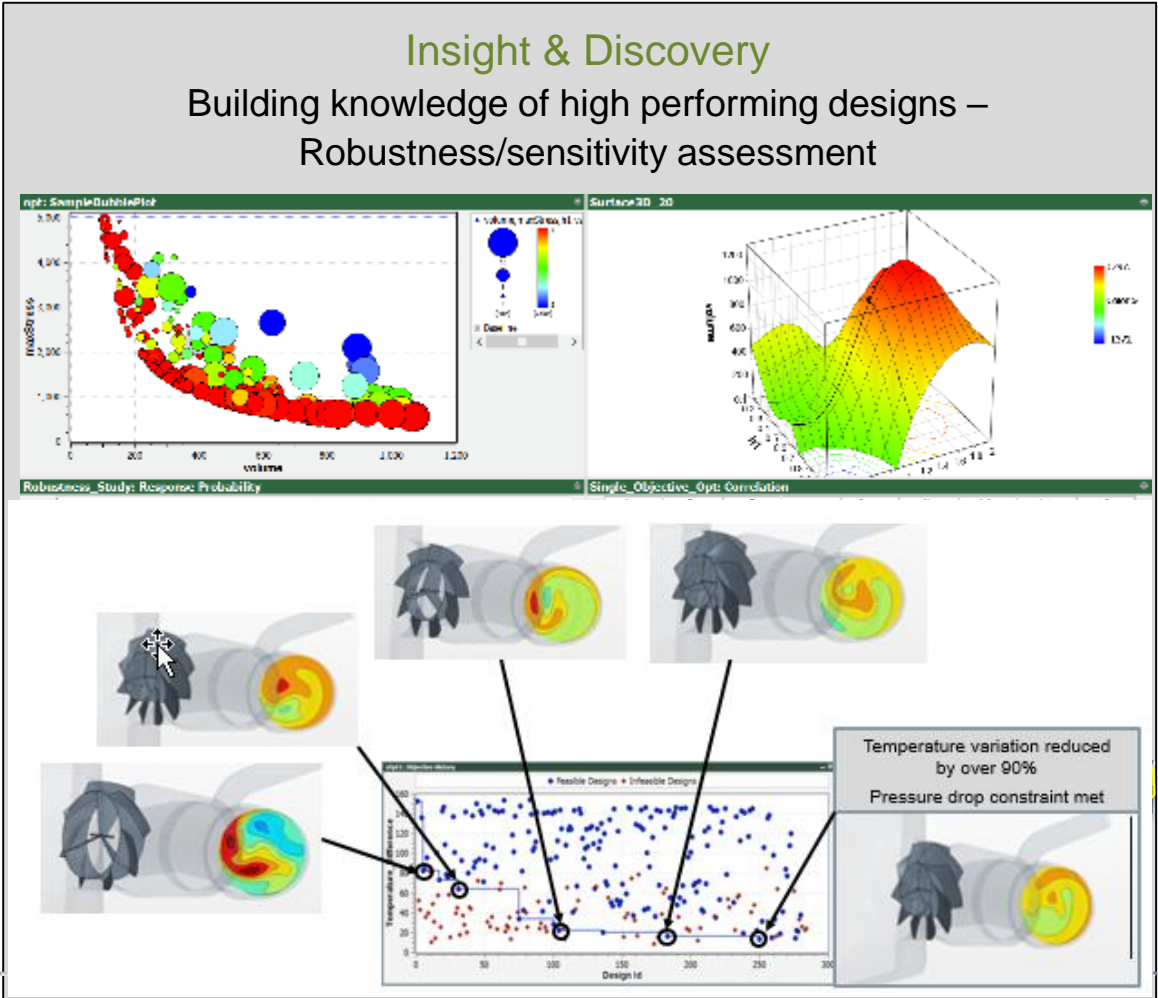
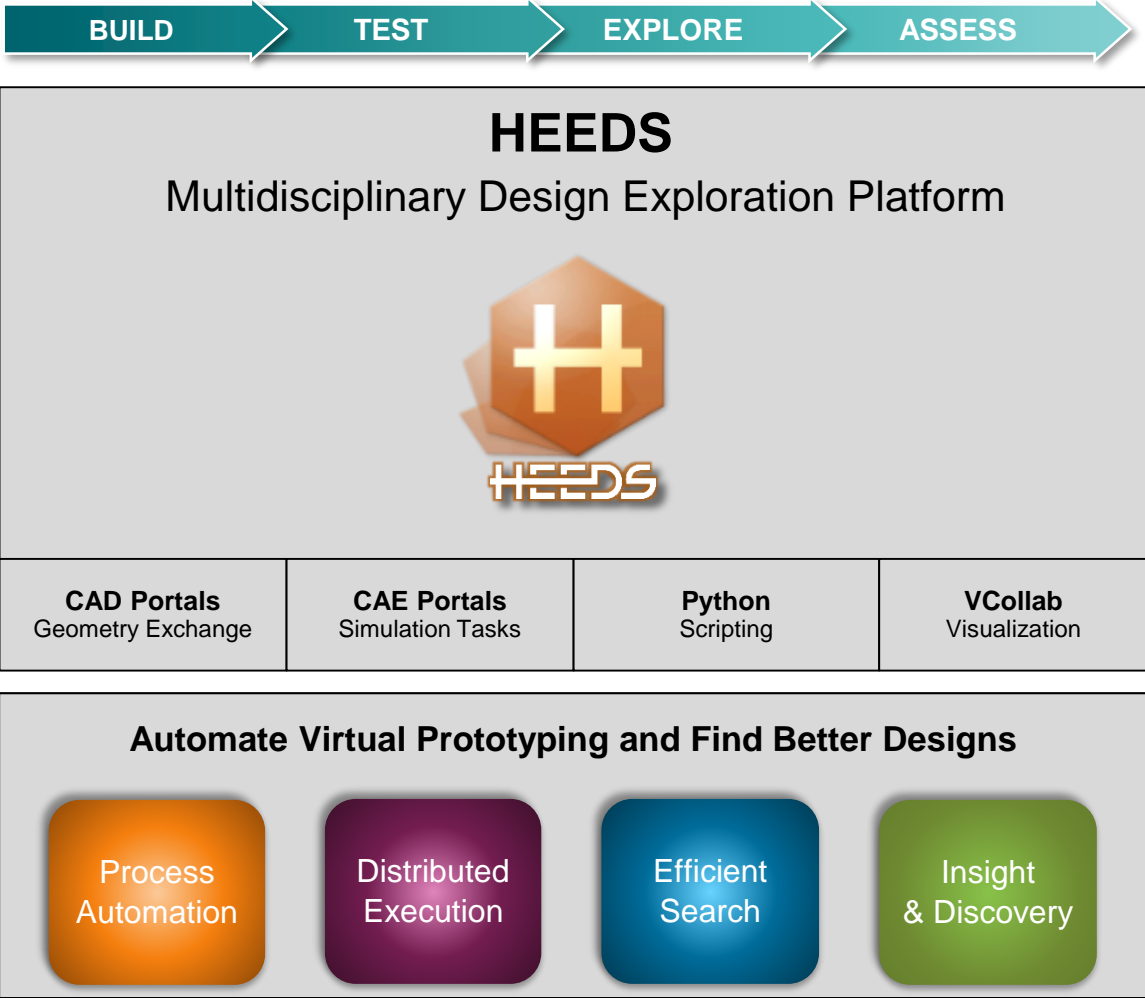


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Innovative Products and Technologies

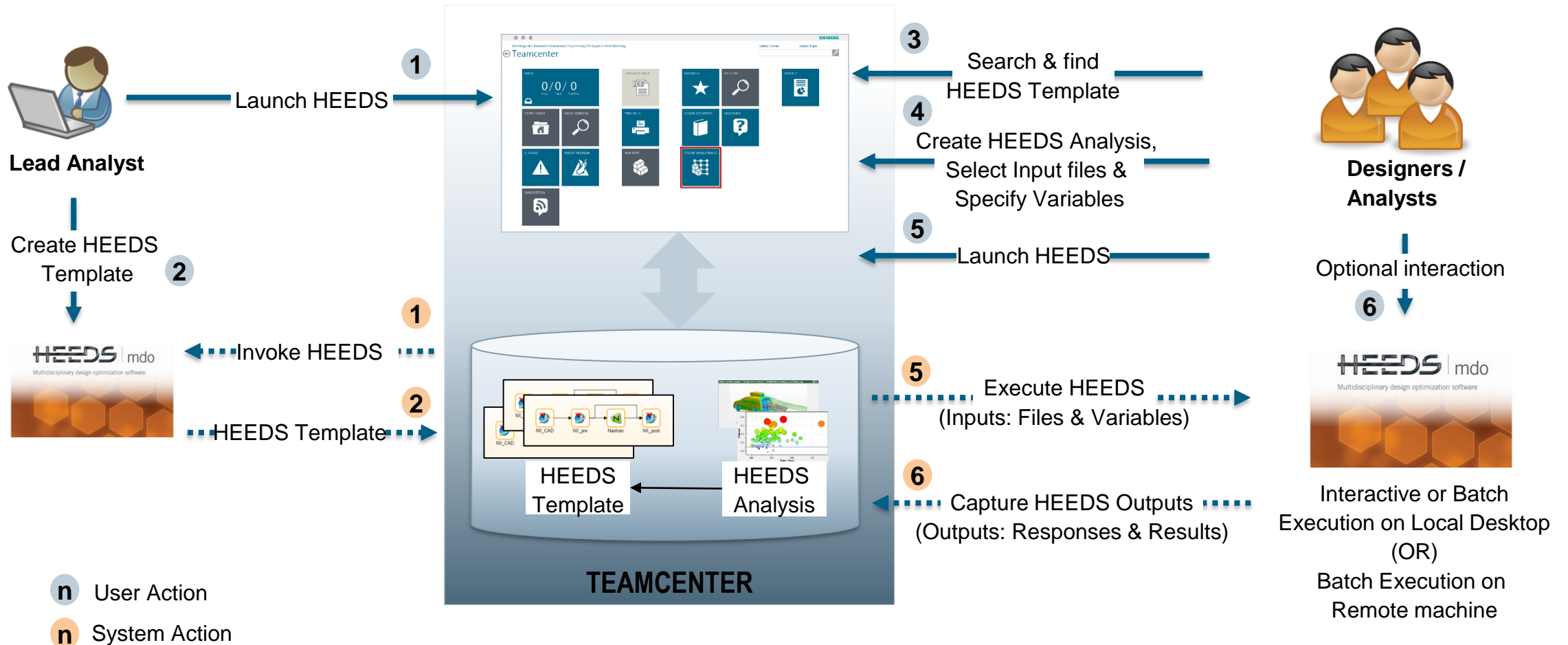


Discover Better Designs, *Faster!* Innovative Products and Technologies



Simulation Process & Data Management

Teamcenter Simulation & HEEDS Integration



Summary



HEEDS uses its four key enabling technologies to **Discover Better Designs, *Faster*** and drive product innovation through design space exploration!

HEEDS Uses Four Enabling Technologies

Process Automation

Automates data sharing in desired workflows

```
graph LR; NX_CAD --> Amesim; Amesim --> Parallel_Group[Parallel Group]; subgraph Parallel_Group; STARCCM; Nastran; end; Parallel_Group --> Excel;
```

Distributed Execution

Manages various compute resources (Linux, Windows, Cloud)

Efficient Search

Discovers better designs, *faster!*

Insight & Discovery

Post-processing images, tables, 2-D, 3-D plots, and more!

Advantages of HEEDS

Ease of Use for the Entire Team

Market Leadership

Seamless Integration

More Innovative Solutions

Reduces Design Verification

Outstanding Global Customer Support

Who to contact?



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HEEDS Design Exploration Team

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