



# Virtual Startup day

## Breakout sessions

Paul Abbott



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# Next Generation Design

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## Introduction

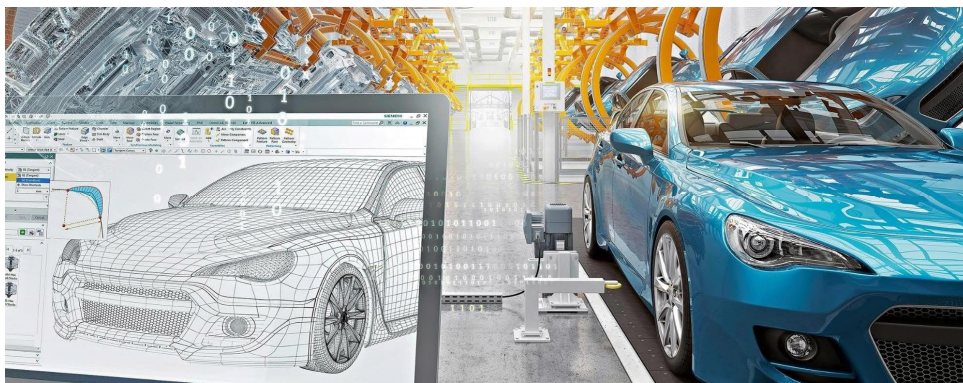


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## The digital twin






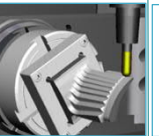
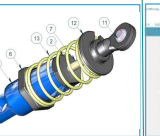
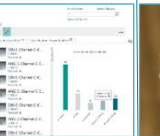
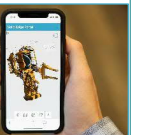
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## The Solid Edge Portfolio

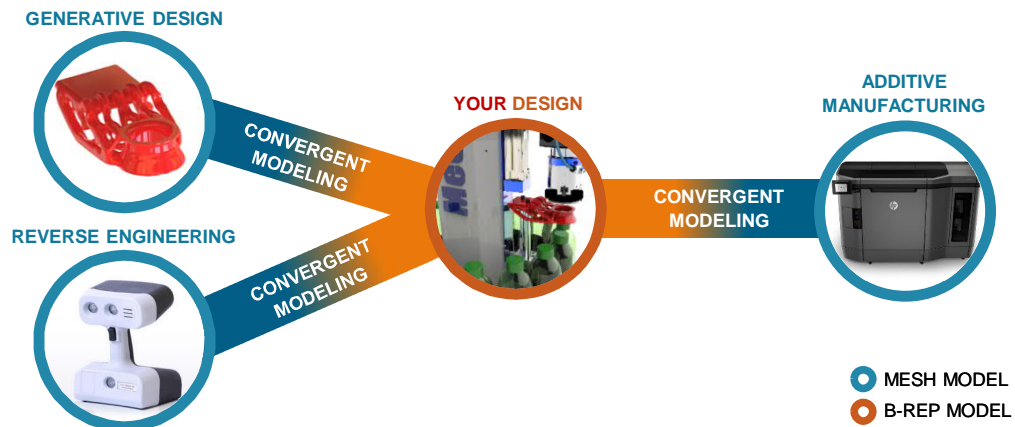
Mechanical Design	Electrical Design	Simulation	Manufacturing	Technical Publications	Data Management	Cloud Collaboration
 <ul style="list-style-type: none"> <li>• Solid Edge Premium</li> <li>• Solid Edge Classic</li> <li>• Solid Edge Foundation</li> <li>• Solid Edge Design &amp; Drafting</li> <li>• Solid Edge 2D Drafting</li> <li>• Solid Edge P&amp;ID Design</li> <li>• Solid Edge Piping Design</li> <li>• Solid Edge Generative Design Pro</li> <li>• <b>NEW</b> Solid Edge Model Based Definition</li> </ul>	 <ul style="list-style-type: none"> <li>• Solid Edge Electrical Routing</li> <li>• Solid Edge Wiring Design</li> <li>• Solid Edge Harness Design</li> <li>• Solid Edge PCB Collaboration</li> </ul>	 <ul style="list-style-type: none"> <li>• Solid Edge Premium</li> <li>• <b>NEW</b> Solid Edge Simulation - Standard</li> <li>• <b>NEW</b> Solid Edge Simulation - Advanced</li> <li>• Simcenter FLOEFD for Solid Edge</li> </ul>	 <ul style="list-style-type: none"> <li>• Solid Edge CAM Pro Foundation</li> <li>• Solid Edge CAM Pro Total Machining</li> <li>• Solid Edge CAM Pro 5 Axis Milling</li> <li>• <b>NEW</b> Solid Edge 2D Nesting</li> </ul>	 <ul style="list-style-type: none"> <li>• Solid Edge Illustrations</li> <li>• Solid Edge 3D Publishing</li> </ul>	 <ul style="list-style-type: none"> <li>• Solid Edge data management</li> <li>• Solid Edge Requirements Management</li> <li>• Solid Edge Teamcenter Integration</li> </ul>	 <ul style="list-style-type: none"> <li>• Solid Edge Portal</li> </ul>

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## Next generation design – today



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## Generative Design

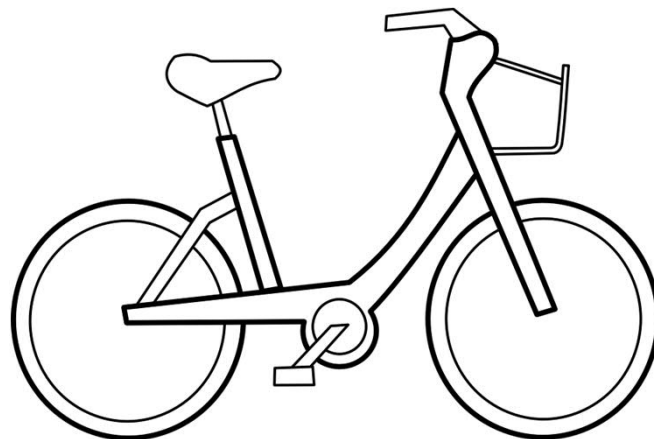


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## Generative Design



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## Generative Design



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## Generative Design

Optimal design  
balancing weight and  
strength, tailored for  
desired manufacturing  
process.

### GENERATIVE DESIGN

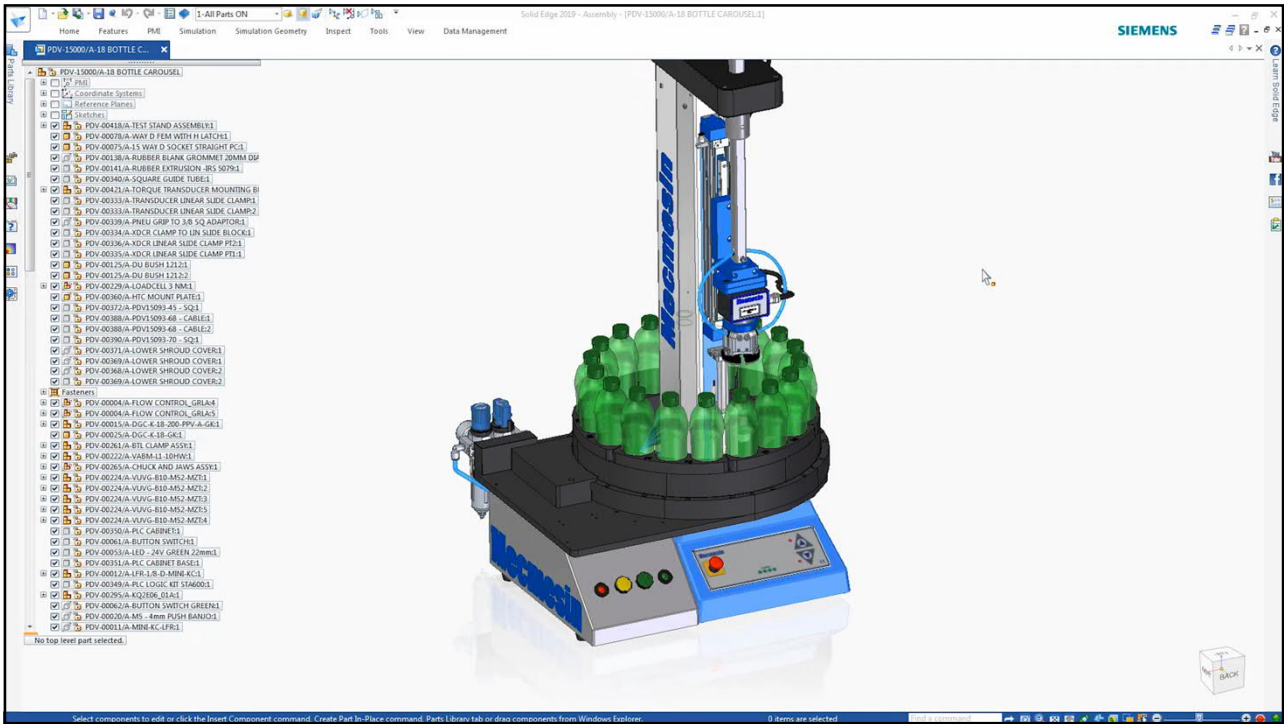


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## Generative Design

**GENERATIVE DESIGN**



- Generate directly to factor of safety
- Achieve organic lattice and strut type topology
- Generate for subtractive and additive manufacturing

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## Reverse Engineering

Scan, edit, and produce products faster with new reverse engineering capabilities.

### REVERSE ENGINEERING



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## Reverse Engineering



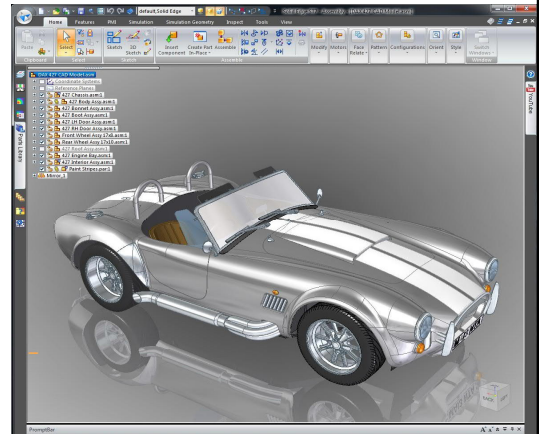
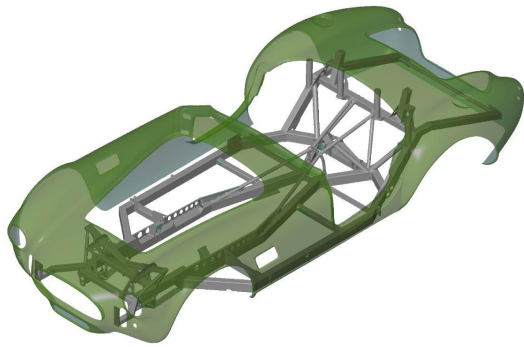
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## Reverse Engineering



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## Reverse Engineering

### REVERSE ENGINEERING



- Smooth and stitch scanned imperfections
- Increase usage of raw mesh bodies
- Speed up reverse modeling with new and improved tools

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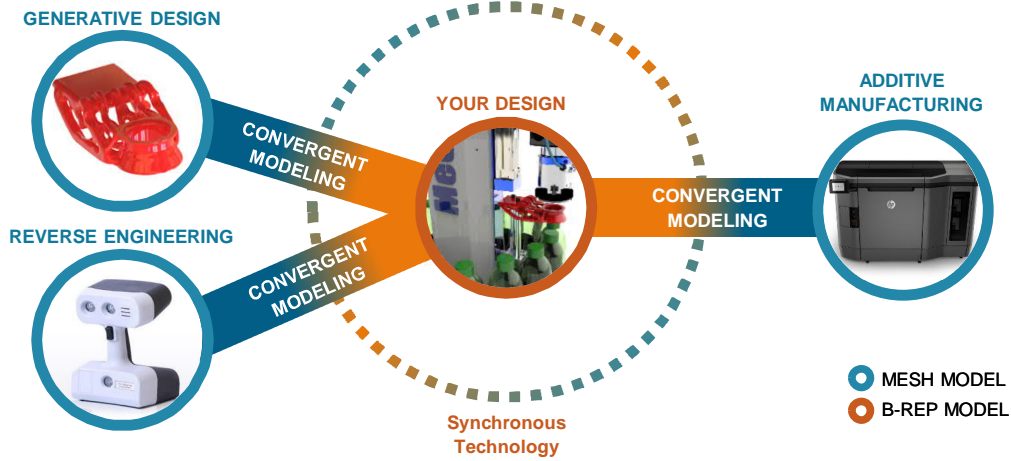
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## Next generation design-today Summary



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# Thank You

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# | Contact

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