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Model Based System Engineering (MBSE)

Siemens Digital Industries Software Dale Tutt, Vice President Aerospace and Defense

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Where today meets tomorrow.

Innovation in electric propulsion...

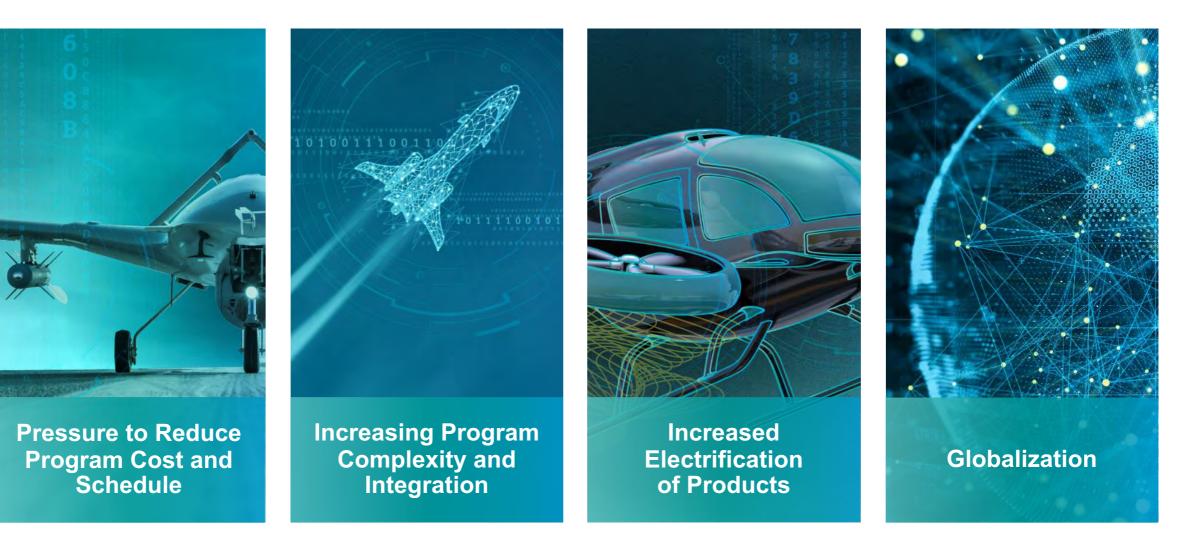
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Innovation in Supersonic flight...

Innovation in Space...

Key Trends *Aerospace and Defense*





Certifying and managing product development is increasingly complex:

- Showing compliance with regulatory requirements
- Managing document-centric systems engineering processes
- Increased cost and risks due to integration of complex systems and supplier relationships



Three keys to using complexity as a

Competitive advantage

11111



Comprehensive Digital Twin



Personalized Adaptable, Modern



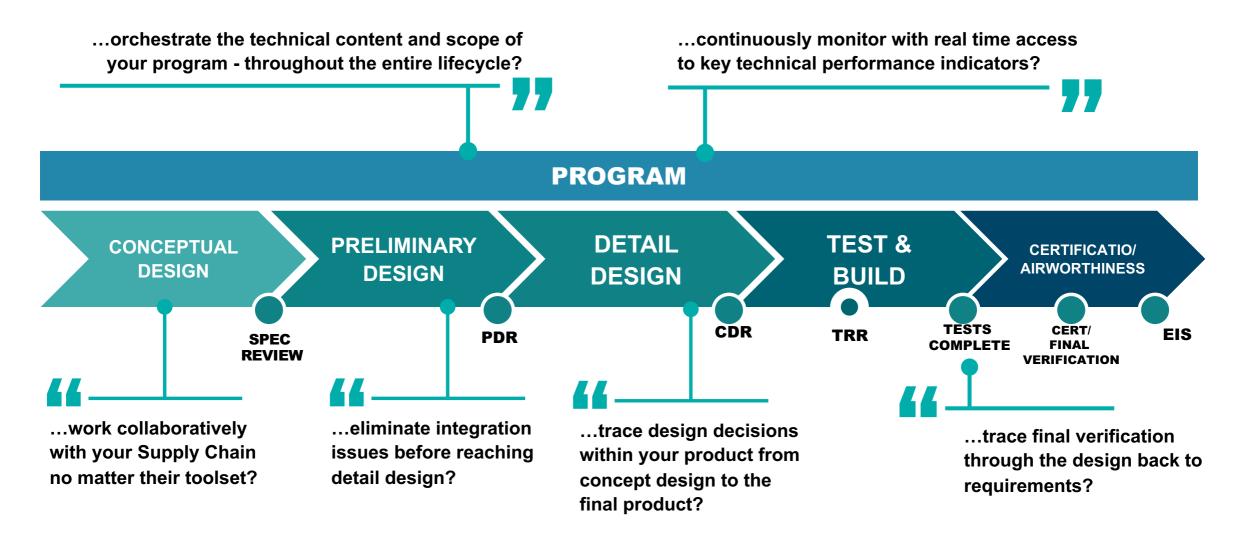
Flexible Open Ecosystem

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What if you could ...?



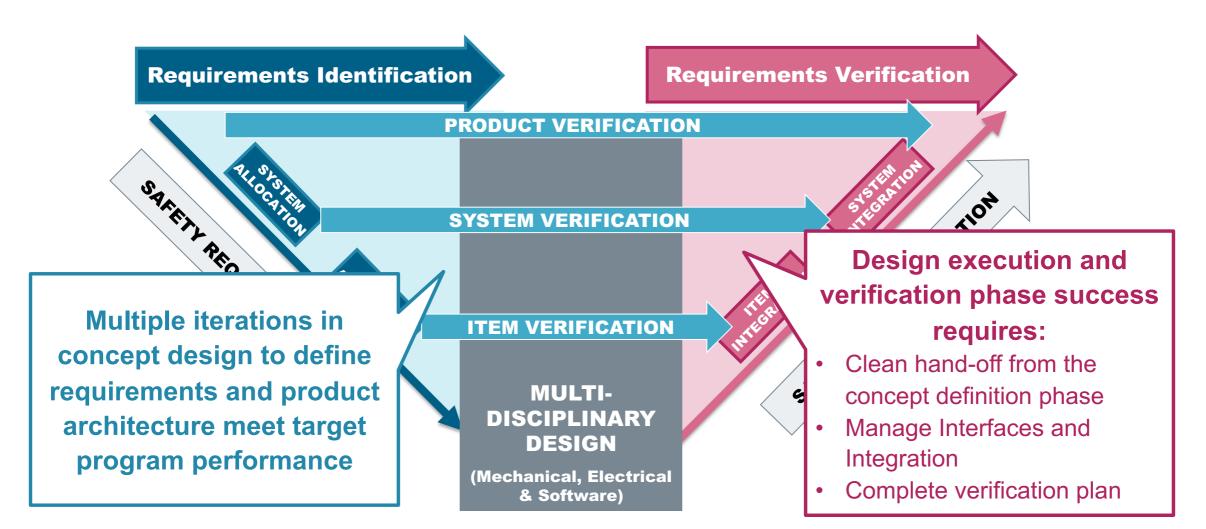


Manage product development with MBSE

- Requirements flow down
- System Safety
- Interfaces between complex systems
- Integration with partners and suppliers

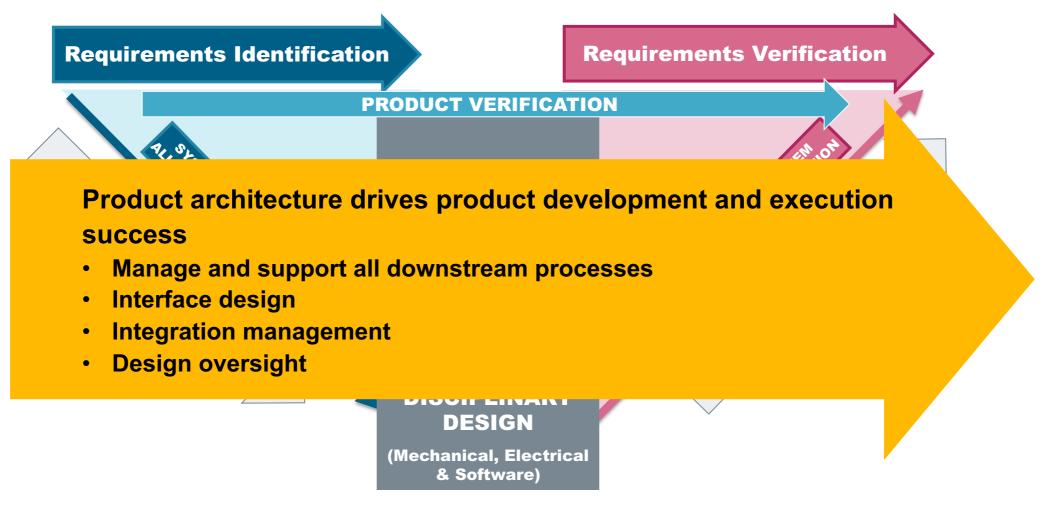
Simplified System Engineering Process





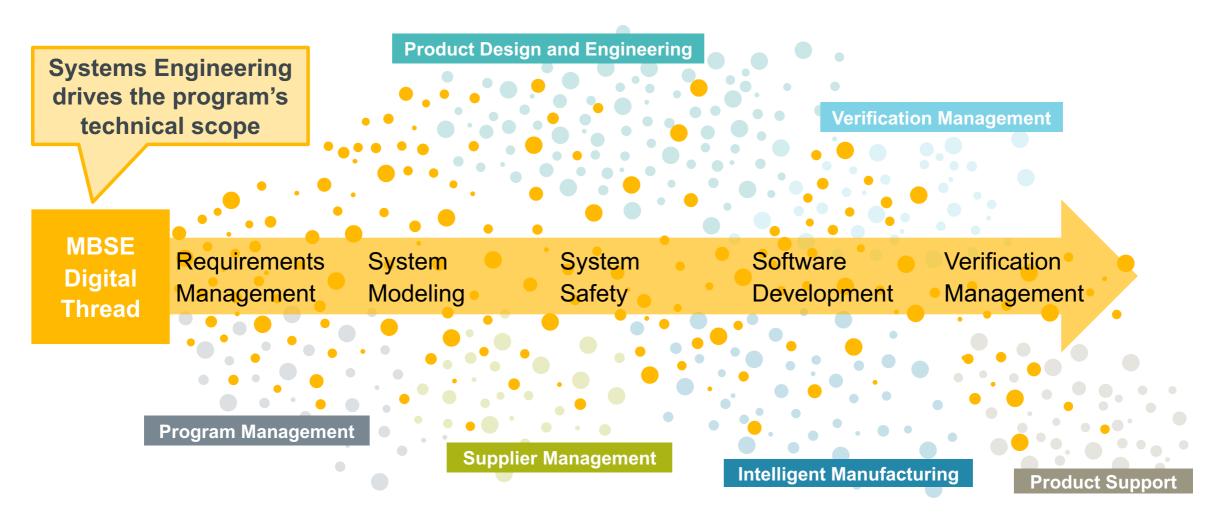
Simplified System Engineering Process





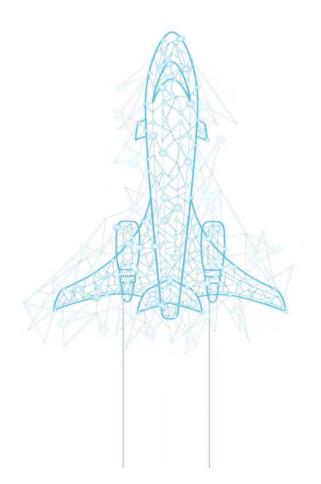
MBSE Digital Thread to Orchestrate your Technical Program *One thread to connect and guide all threads*





Accelerate Innovation and Product Development Using the comprehensive MBSE digital twin





Orchestrate your Technical Program

Drive scope by moving from system modeling to the comprehensive MBSE digital thread

- Track requirements and architecture implementations throughout design to verification
- Capture design decisions as your product matures
- Integrate complex product and Supply Chain interfaces
- Flexible and open multi-tool solution



Thank you

Dale Tutt

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