SMSWG March Meeting

09 Mar 2021



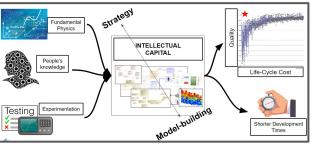
Greg Garstecki Principal Consultant



GMS Founder and Principal Consultant



- 32 years in industry with a focus on performance simulations
- I have always had desire to understand the component or systems in its larger context.



- Career evolution into Systems Engineering
 - I want to help other companies realize the benefits of Systems Engineering.



Requirement Decomposition

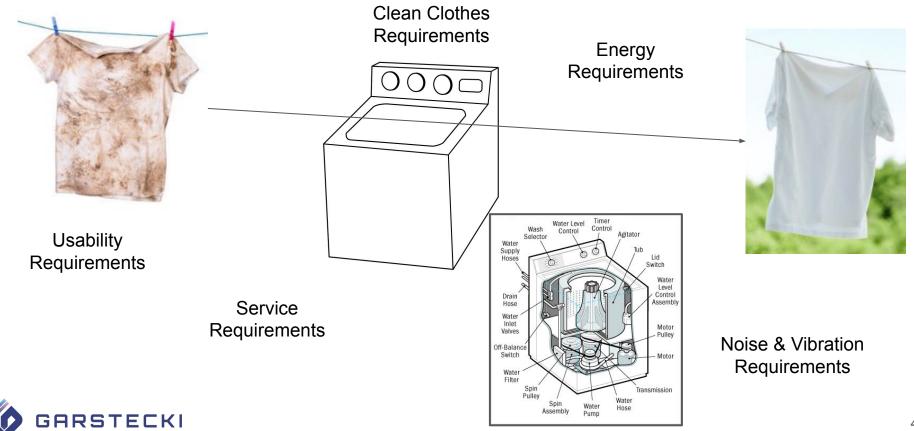
Using analytical models to decompose requirements

- 1. Requirement Decomposition Overview
- 2. Requirements and Architecture
- 3. Analytical Modeling
- 4. Requirement Decomposition Example



Main contents

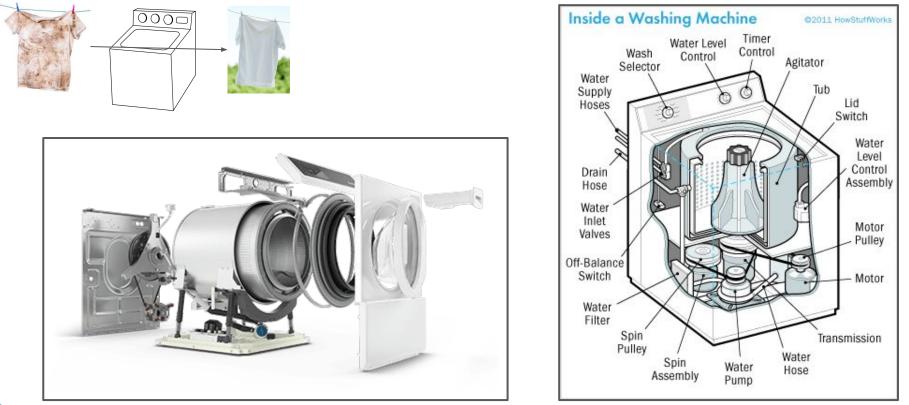
How Do You Specify Requirements for Components?



System Requirements Decomposition Focus

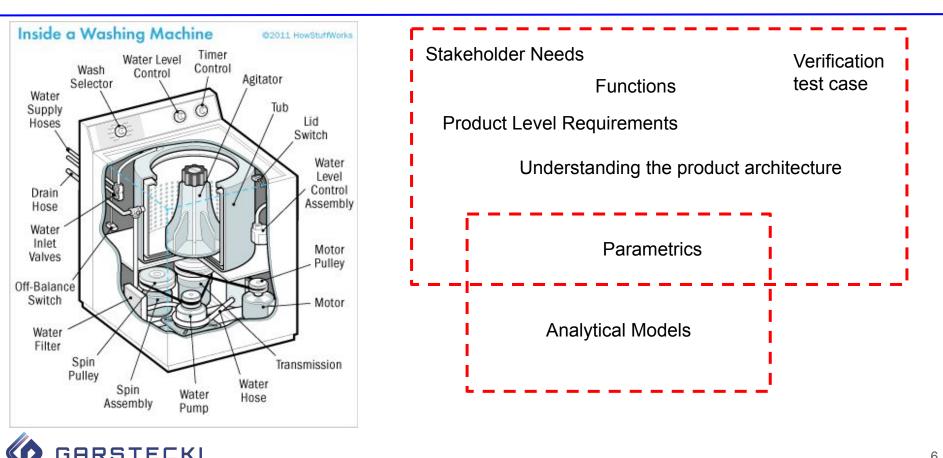
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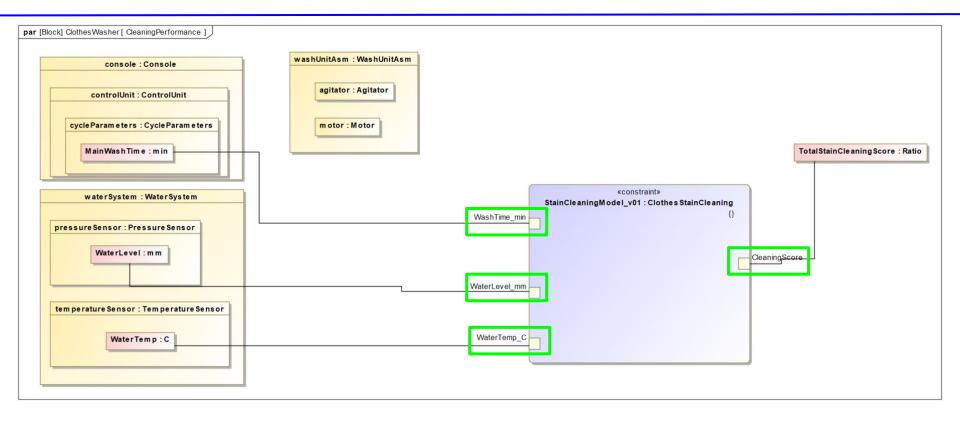


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System Requirements Decomposition Elements

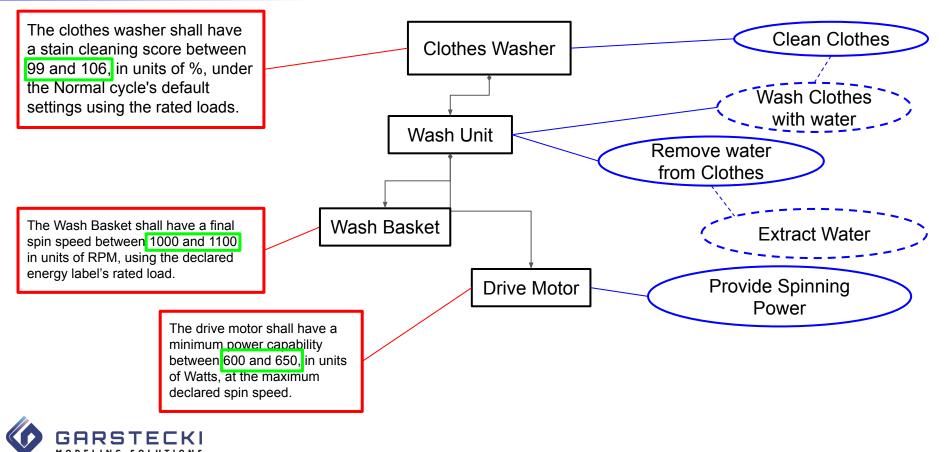


Parametrics - Descriptive to Analytical linkage

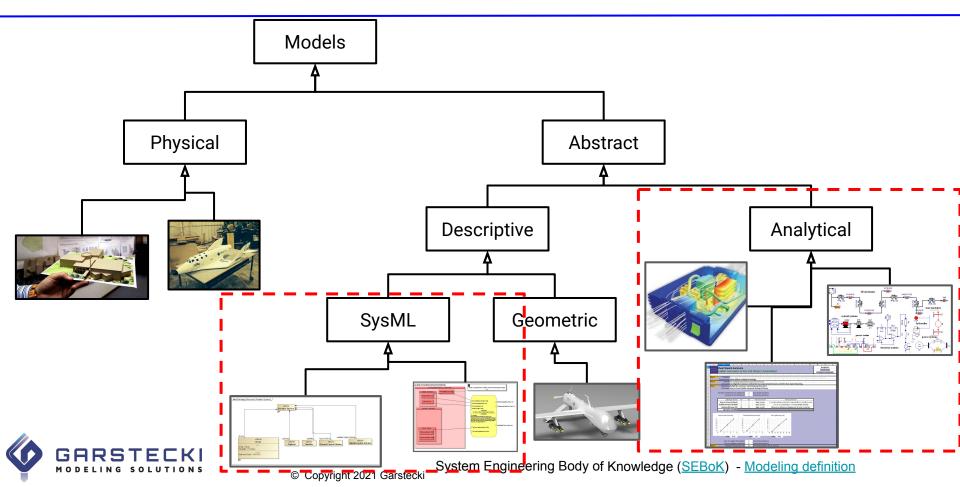




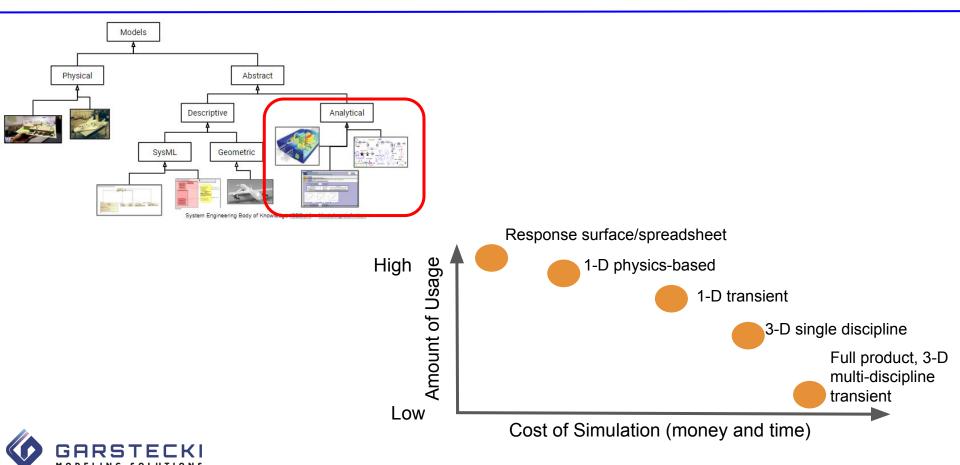
Functions to Requirements Example



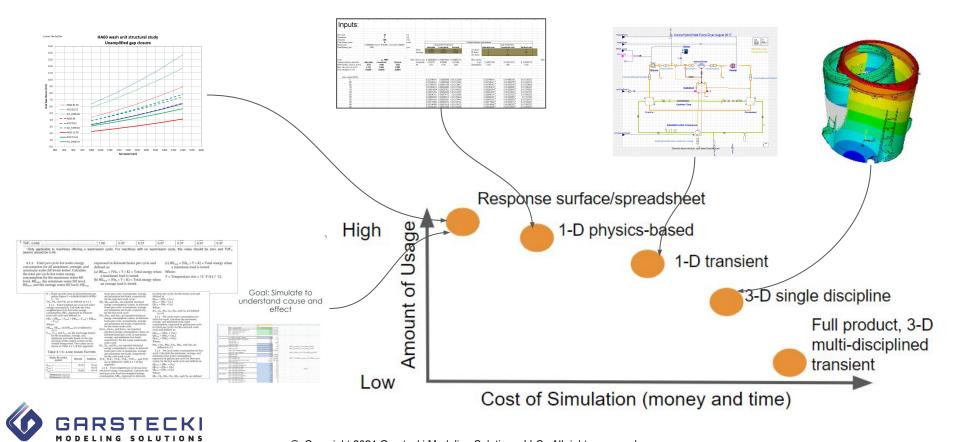
Model Definitions



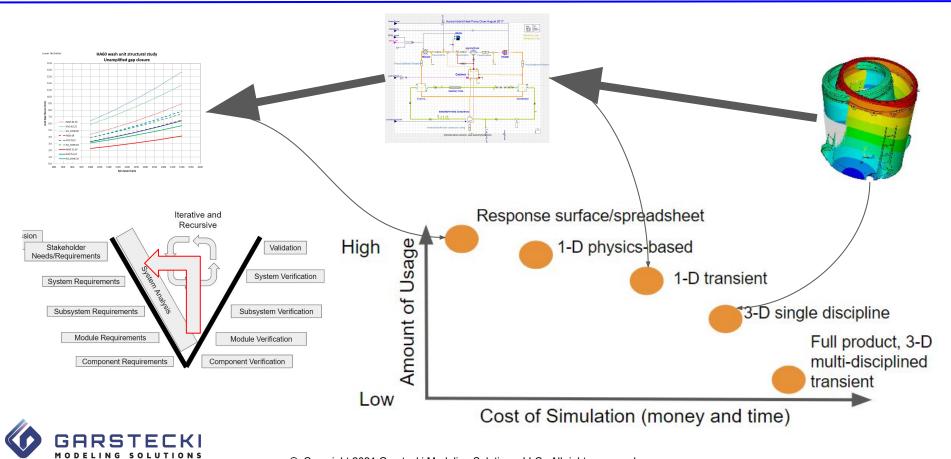
Analytical Modeling Types and Value



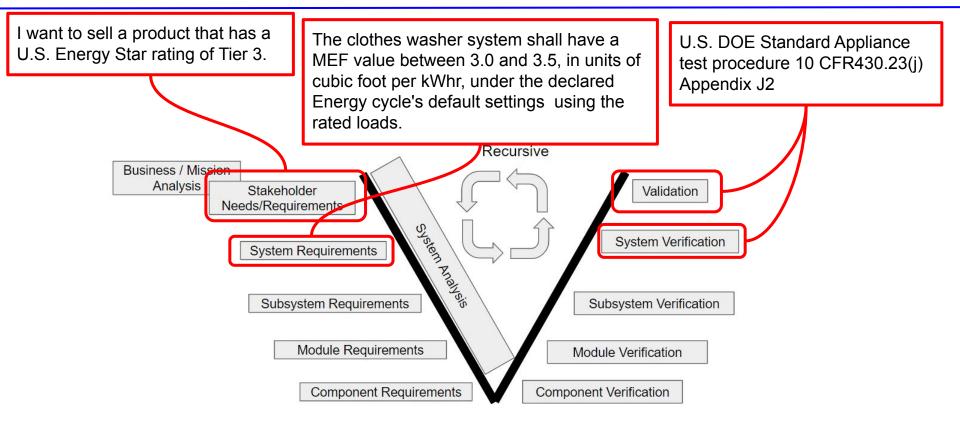
Analytical Modeling Examples



Analytical Modeling "Family"

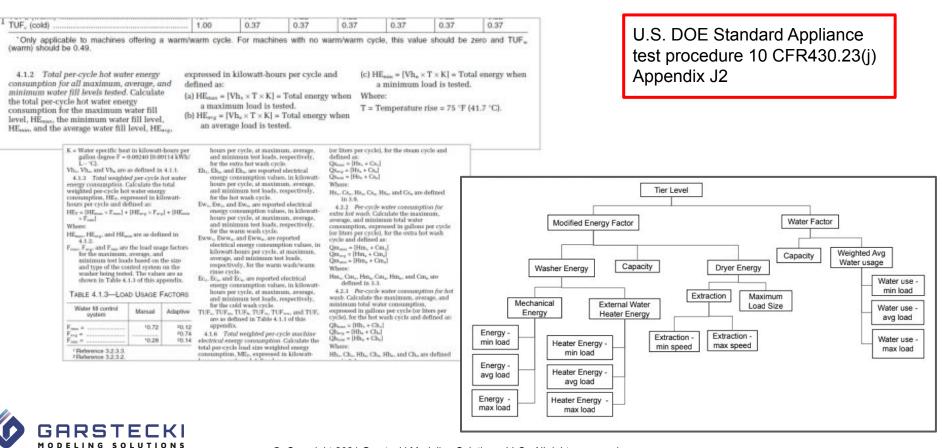


Bringing it all together.

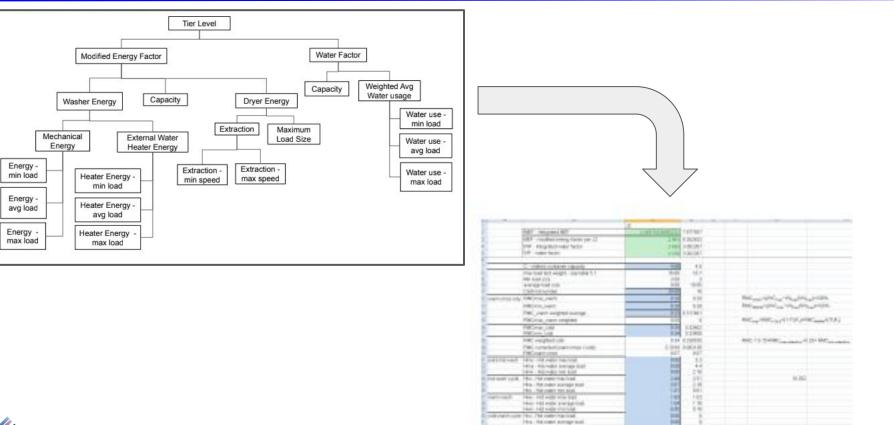




Requirement Decomposition Insights



Requirement Verification method



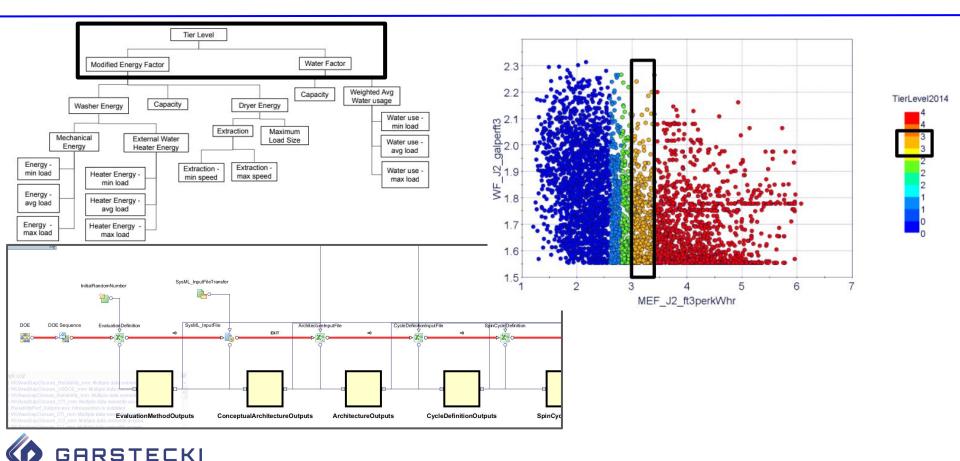


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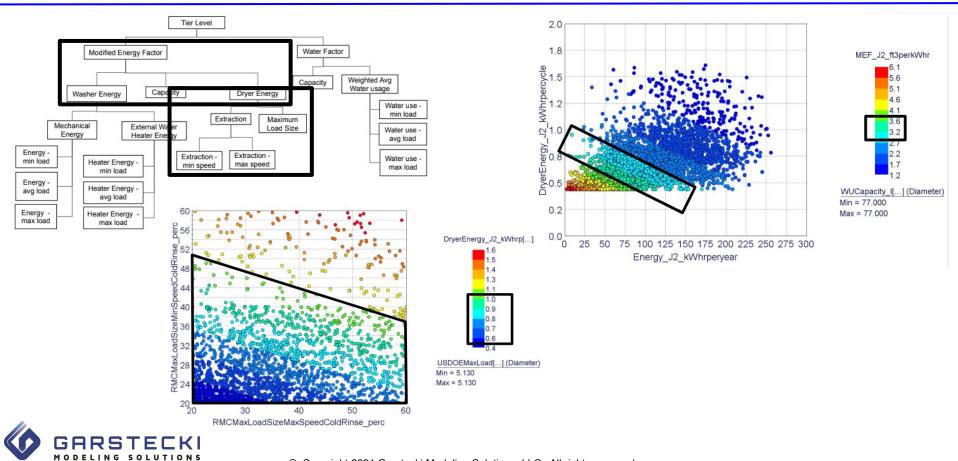
Advent Management and And

Requirement Decomposition

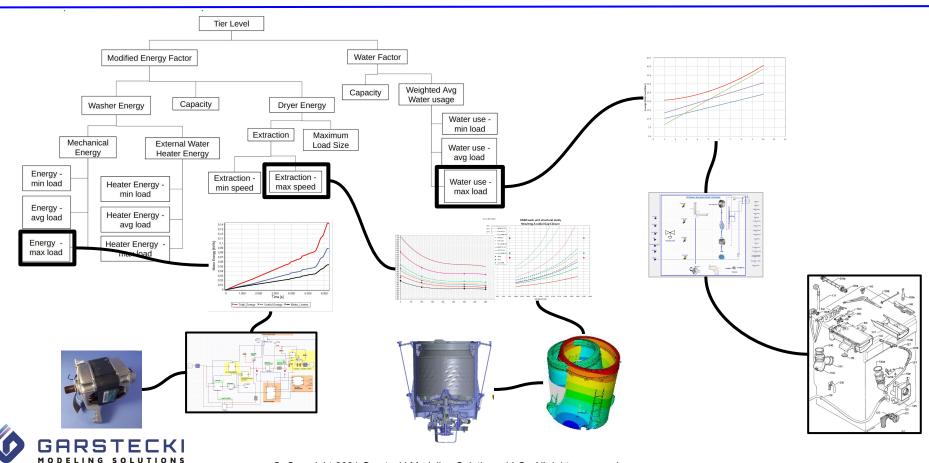
MODELING SOLUTIONS



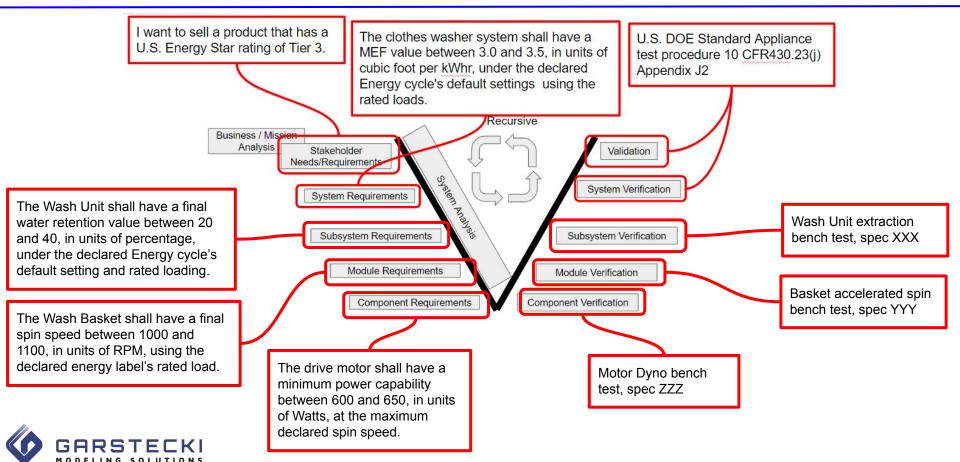
Requirement Decomposition



Continuation of the Requirement Decomposition



Resulting Requirement Example



Tradespace and Project Decisions

