

# V-Model Views

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**Abstract.** The V-model is the most popular iconic illustration within systems engineering. Originally derived from the waterfall model to give a notion of a system's architecture, the V-model today is used widely in systems engineering training, and for communicating systems engineering ideas and concepts in the systems engineering community and beyond. The contemporary understanding of the V-model is still based on definitions established more than two decades ago. Since then, systems engineering has advanced in directions beyond the systems engineering scenarios of the past. Systems-of-systems, value stream thinking in systems engineering, and systems engineering outreach into commercial sectors challenge the current common interpretation of the V-model. It is the intention of this paper to establish a set of consistent V-model views integrating central systems engineering concepts and maintaining the central role of the V-model for communication within the systems engineering community and beyond.