

We Choose MBSE: What's Next?

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Abstract When the decision is made to choose MBSE or the task is given to investigate whether MBSE is worth the investment, a long journey begins. The journey that requires knowledge, patience, and guidance to make the paradigm shift (from document-centric to model-based SE) rewarding. The final destination of this journey is prove that MBSE is rewarding in the context of a particular organizational. There are many barriers on the way, such as rumours about unsuccessful applications, too little information available how to proceed, disbelief, and a cultural change. Nowadays, MBSE is enabled by Systems Modelling Language (SysML). However, SysML is neither an architecture framework nor a method. This opens discussions of how to start, how to structure the model, what views to build, which artefacts to deliver and in what sequence. This paper summarizes the experience of different MBSE adoption projects in a form of a new framework for MBSE. The framework is organized in a matrix view and intends to help MBSE pioneers to answer the question “what’s next?”

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