After an organization makes the decision to adopt model-based systems engineering (MBSE), it must go a long way before this decision proves right. There are many obstacles in this way, like stories about unsuccessful MBSE applications, insufficient information on how to proceed, and employee resistance to the cultural change to name a few. Neither of them is a true issue, if suitable enablers for MBSE adoption are chosen. Nowadays, MBSE is enabled by Systems Modeling Language (SysML). However, SysML is neither a framework nor a method: it provides no information about the modeling process and thus must be combined with some methodology to become truly applicable.

This training introduces a new approach for MBSE, called MagicGrid. The MagicGrid framework consists of viewpoints and aspects organized in a grid view, where each cell describes one or more artifacts to deliver throughout the modeling process. The approach is based on the experience of various MBSE adoption projects, existing studies in the field, and real-life findings in models' management in different systems engineering domains.

The training is followed by a hands on exercise, where every attendee takes part in developing an example system model from A to Z by applying the MagicGrid approach.

Audience: Requirement engineers, System architects, system engineers, software architects, team leaders, project managers, and other stakeholders who will create and use models

Prerequisites: Understanding of systems engineering process

Methods: Presentations, discussions, and case study-based practical assignments

Course Materials: Slides, case study model, and practical assignment descriptions

Certificates: Each participant receives a No Magic certificate indicating that he or she attended the training

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Aurelijus is OMG® Certified UML, Systems Modeling and BPM professional. Currently he is a Head of Solutions Department at No Magic Europe. He has the expertise of model-based systems engineering (mostly based on SysML) and defense architectures (DoDAF, MODAF, NAF). Aurelijus is working with companies such as General Electric, Bombardier Transportation, Deutsche Bahn, ZF, Ford, BAE Systems, SIEMENS, BMW, etc. He is also a co-chairman and one of the leading architects for the current OMG UAF(previously known as UPDM) standard development group. He is representing No Magic company in INCOSE and NATO. In addition, Aurelijus is actively involved in educational activities. He teaches Enterprise Architecture course in Kaunas University of Technology. Aurelijus have gained PhD in Informatics Engineering at the same university in 2013. Aurelijus is also author of multiple articles, and speaker in multiple conferences.