

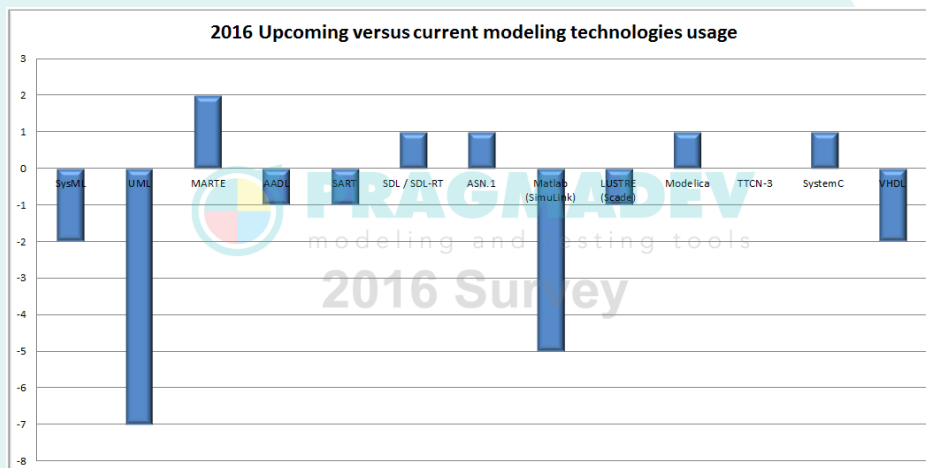
Test considered to be the upcoming hot topic in PragmaDev latest survey.

Paris - France - May 11th, 2016 - PragmaDev latest survey on modeling and testing technologies indicates that test, system modeling, and software modeling are the top upcoming topics for development teams. Most popular modeling technologies are in decreasing order UML, Matlab, SysML, and VHDL. In line with last years results the survey indicates a substantial decrease in UML and Matlab usage. The survey also confirms UML and SysML models are mainly informal, Matlab models are mostly used for simulation, and SDL models are mainly used for code generation.

Respondents profile

Respondent average profile is:

- from Europe,
- working in a large automotive or avionic company,
- has between 10 to 20 years of experience,
- the design is not certified,
- the target platform runs an operating system (Linux or Windows),
- the application is written in C or C++,
- it is based on Finite State Machines and is object oriented.



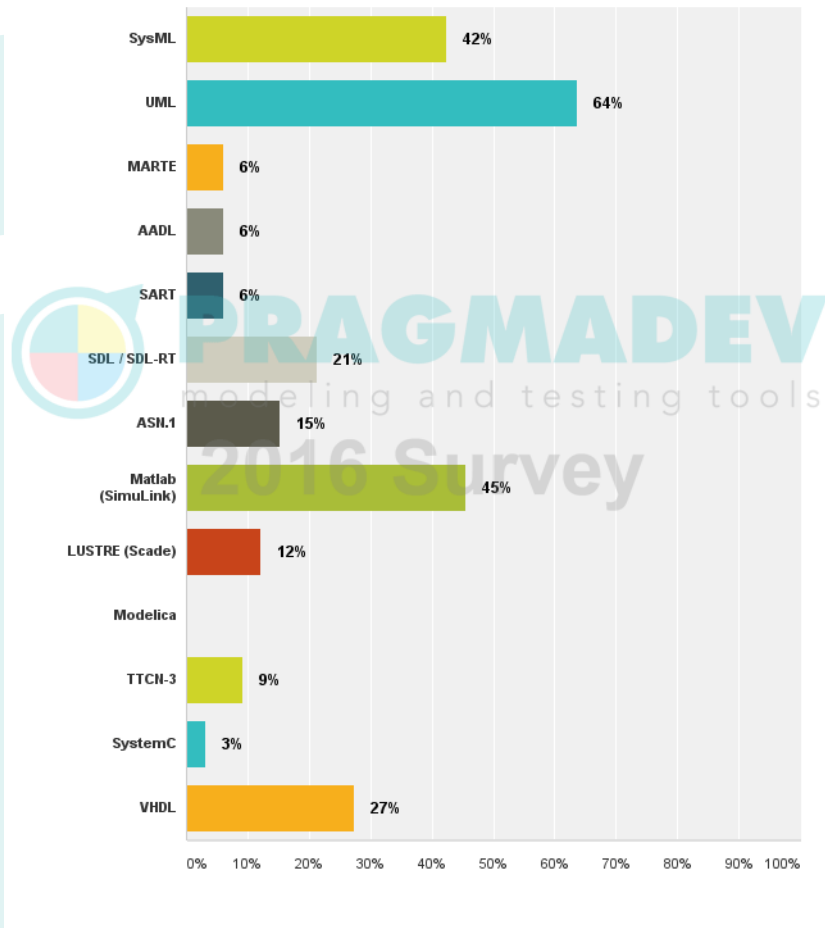
Modeling technologies

The top four modeling technologies are UML, Matlab, SysML, and VHDL. UML is the first modeling technology to be quoted, VHDL is fourth in place of SDL last year. Now both languages do not address the same

type of description at all. If considering mainly system or software the top 4 languages would be the same as last year.

Q15 Do you use one or several of the following modeling technologies ?

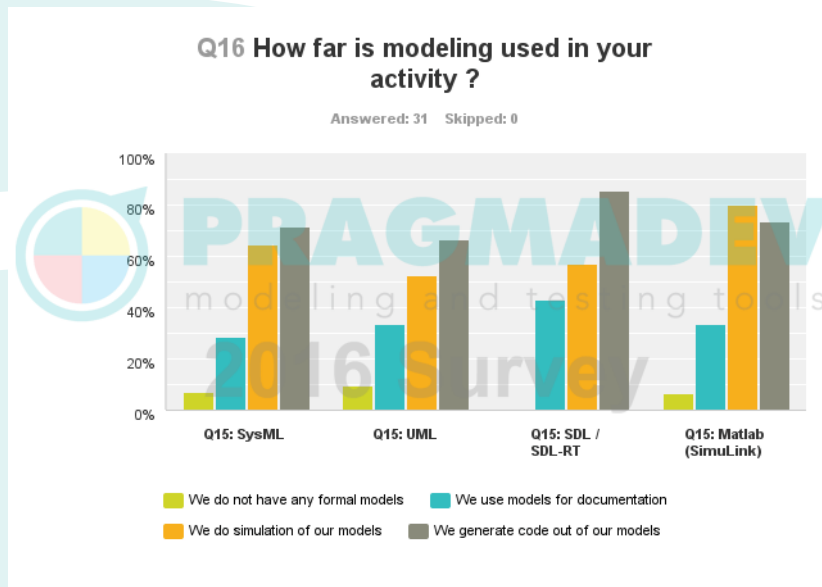
Answered: 33 Skipped: 12



Modeling usage

The usage of each modeling technology confirms last year's results:

- **SDL is mainly used for code generation,**
- **Matlab is mainly used for simulation,**
- **UML models are mainly informal.**



Upcoming technologies

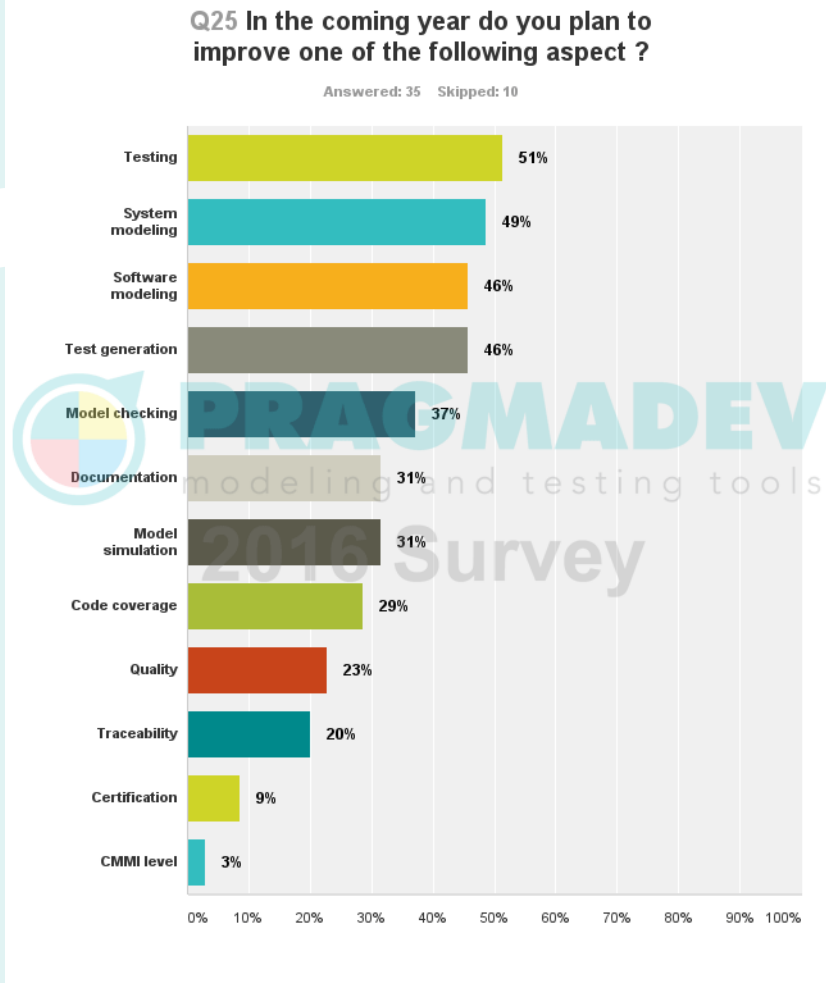
This is probably one of the most interesting result we get out of this survey, and that gives an idea of the current trends on the modeling market.

- **There is a positive trend for MARTE, SDL, and Modelica.**
- **UML suffers a substantial decrease for the sixth year in a row,**
- **Matlab also suffers from a substantial decrease.**

Upcoming hot topics

Last question of the survey was about which topic will get the focus in the coming year. Top answers are:

- **Testing,**
- **System modeling,**
- **Software modeling,**
- **Test generation.**



About PragmaDev

PragmaDev is a privately held company based in Paris France that provides since 2001 a set of model driven tools dedicated to the development and test of communicating systems: PragmaDev customers include Airbus, Alcatel-Lucent, Renault, the French Army, Wipro, ST-Microelectronics, Korean Telecom, the European Space Agency, Toshiba, and LG Electronics.

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