

System modeling listed as the main upcoming topic in 2015 PragmaDev survey.

Paris - France - May 18th, 2015 - PragmaDev latest survey indicates system modeling, model simulation, testing, and test generation are the top upcoming topics. Most popular modeling technologies are UML, Matlab, SDL, and SysML. The survey also confirmed last year's results indicating a substantial decrease in UML usage forecast for the fifth year in a row. Compared to last year the effective usage of UML has been decreasing from 70% to 54% ! The survey also confirms UML and SysML models are mainly used for documentation, where Matlab and SDL models are mainly used for simulation and code generation.

2015 modeling technologies and habits survey

This on-line survey took place between March and May 2015 and gathered 83 responses, most of them out of our existing contacts. The raw results are available on our web site, and the following information is a summary of the survey. Feel free to use this information as long as you quote it is coming from PragmaDev.

Respondents profile

Respondent average profile is:

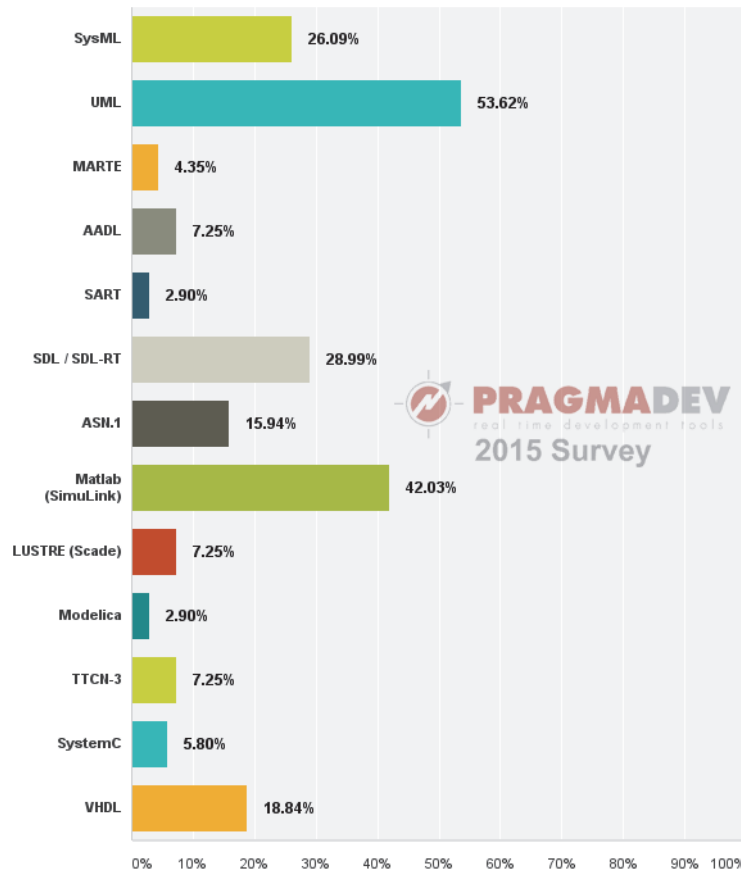
- from Europe,
- working in a large telecom, automotive or avionic company,
- has indifferently between 0 and 30 years of experience,
- the target platform runs an operating system (Linux or Windows),
- the application is written in C or C++,
- it is based on Finite State Machines and is object oriented,
- it is not certified.

Modeling technologies

The top four modeling technologies are UML, Matlab, SDL, and SysML. UML is the first modeling technology to be quoted but has substantially decreased compared to last year.

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

Answered: 69 Skipped: 14



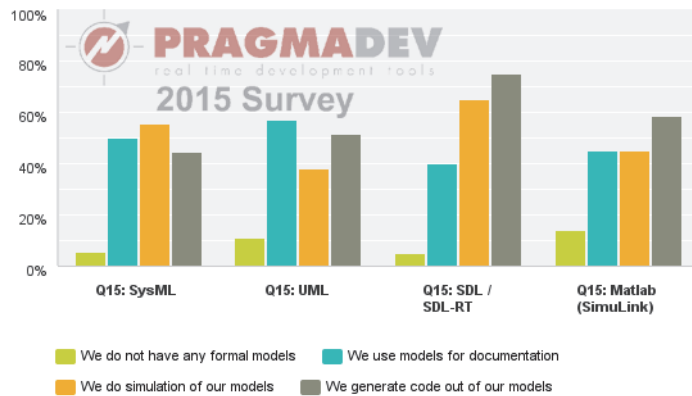
Modeling usage

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

- **SysML and UML are mostly used for documentation,**
- **SDL and Matlab models are used for simulation and code generation.**

Q16 How far is modeling used in your activity ?

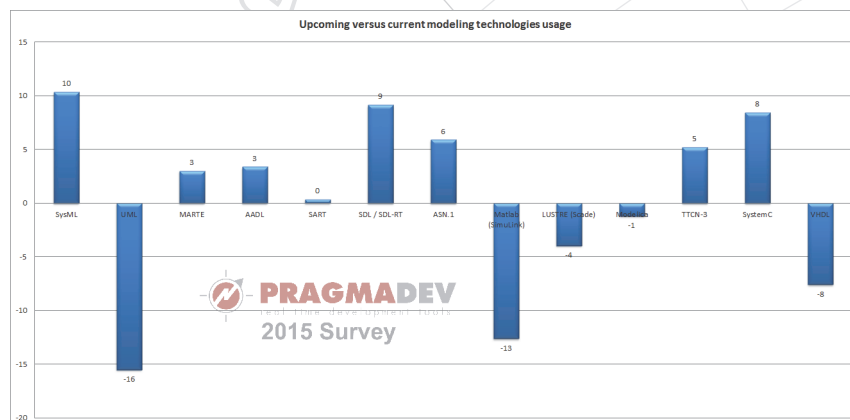
Answered: 64 Skipped: 0



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 around 10% for SysML, SDL, and SystemC,**
- **UML shows a substantial forthcoming decrease of 16% for the fifth year in a row,**
- **Matlab and VHDL also suffer from a substantial decrease around 10%.**



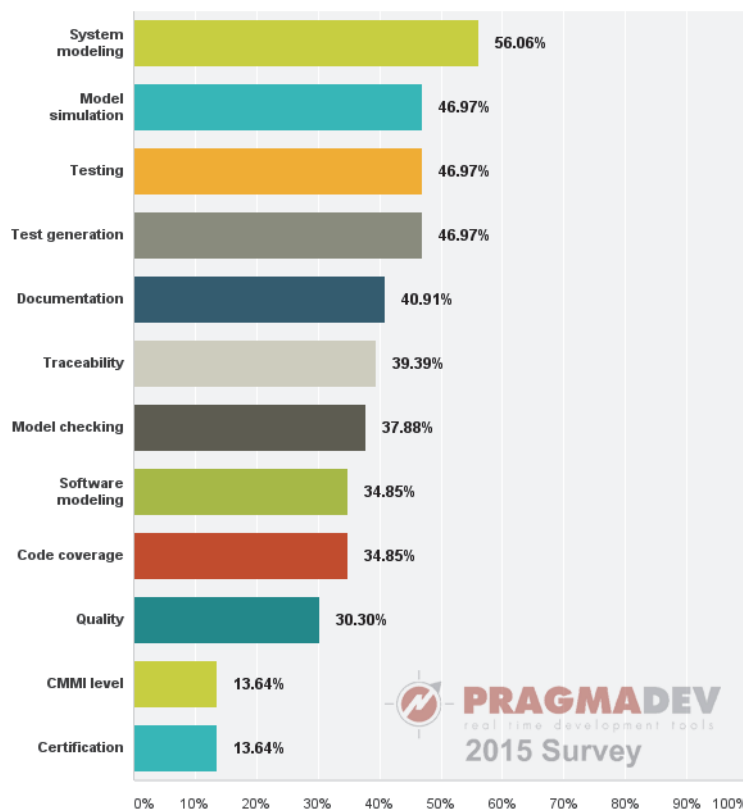
Upcoming hot topics

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

- **System modeling,**
- **Model simulation,**
- **Testing,**
- **Test generation.**

Q25 In the coming year do you plan to improve one of the following aspect ?

Answered: 66 Skipped: 17



About PragmaDev

PragmaDev is a privately held company based in Paris France that provides a set of modeling and testing tools for the development of real time and embedded systems: "Real Time Developer Studio" and "PragmaDev Tracer". Real Time Developer Studio targets all development teams working on communicating systems with a unique combination of standard languages. The PragmaDev Tracer is a free on-line or off-line tracing tool on which properties can be verified.

Real Time Developer Studio provides three levels of modeling: informal, semi-formal, and fully formal modeling. While informal modeling is mainly used for documentation, the most advanced level of modeling allows simulation, prototyping, verification, full code generation, debug on target, and test of the model.

PragmaDev has established partnership with key players in the real time domain. Customers include Airbus, Renault, Alcatel-Lucent, the French Army, the European Space Agency, Toshiba, Korean Telecom, and LG Electronics.

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real time development tools