

# UML modeling technology usage forecast to decrease for the third year in a row in PragmaDev latest survey.

**Paris - France - July 15<sup>th</sup>, 2013** - The survey confirmed last year's results indicating a substantial decrease in UML usage forecast. At the same time the effective usage of UML has been slightly growing from 65% in 2011, to 70% in 2012, up to 71% this year. These two information probably indicates UML has reached its peak of expectations and is about to start its decline to the trough of disillusionment. On the side, the trends are for the upcoming usage of the other technologies are very soft.

## 2013 modeling technologies and habits survey

This on-line survey took place in April and June 2013 and gathered 123 participants, most of them out of our existing commercial contacts. The raw results are available [here](#), 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.

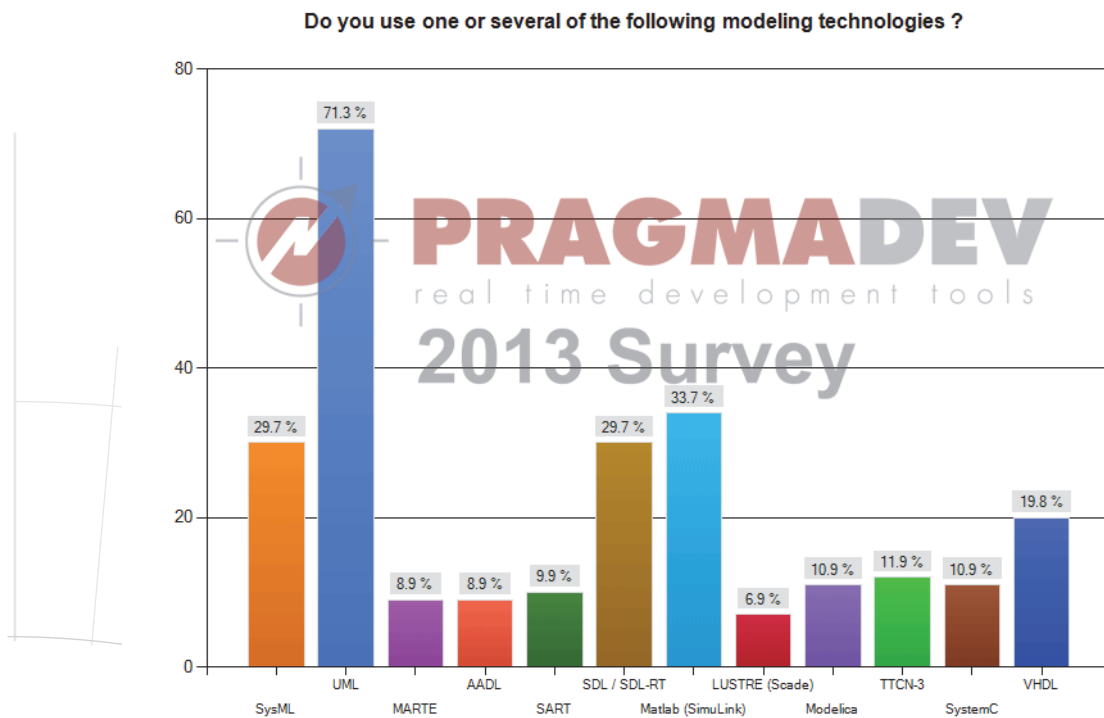
## Respondents profile

Respondant average profile is:

- from Europe,
- working in a large telecom or automotive (new compared to previous years) company,
- has indifferently between 0 and 30 years of experience,
- the target platform runs an operating system (short majority for Windows this year),
- the application is written in C or C++,
- it is based on Finite State Machines and is object oriented.

## Modeling technologies

The top three modeling technologies are UML, Matlab, and SDL (equal with SysML). UML is the first modeling technology to be quoted, and the SDL share is decreasing a bit compared to previous years probably due to the fact that our respondent profile has changed.



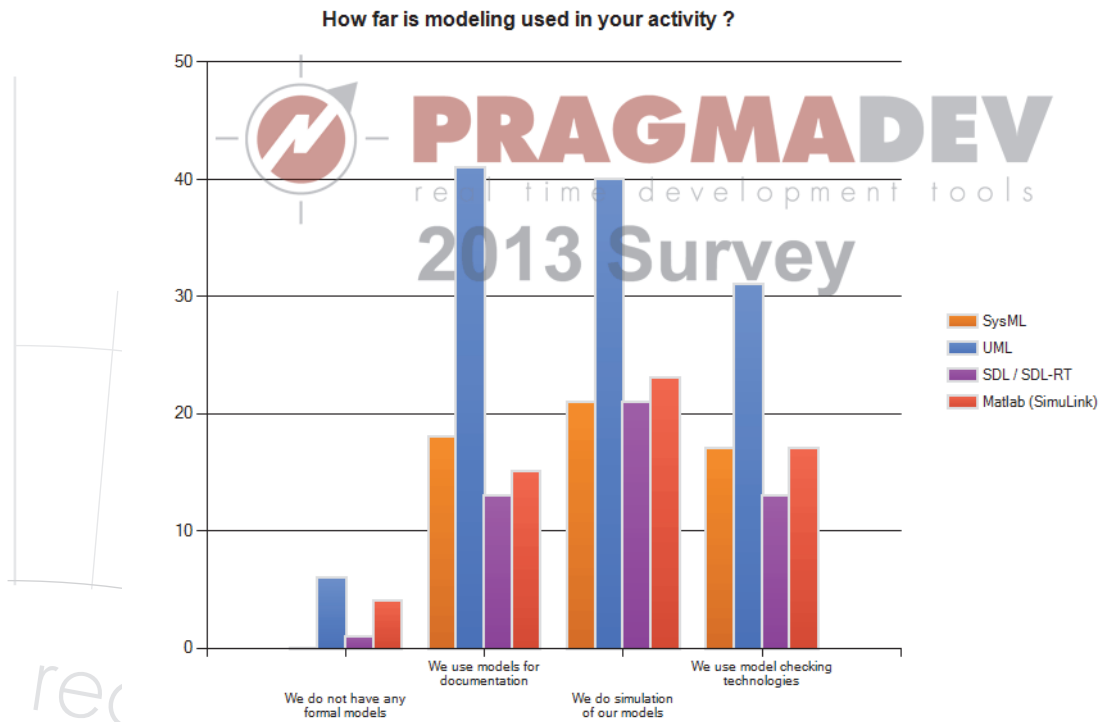
Out of the 13 diagrams in UML the top 4 are:

- **Class diagram,**
- **Sequence diagram,**
- **State chart,**
- **Use case diagram.**

## Modeling usage

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

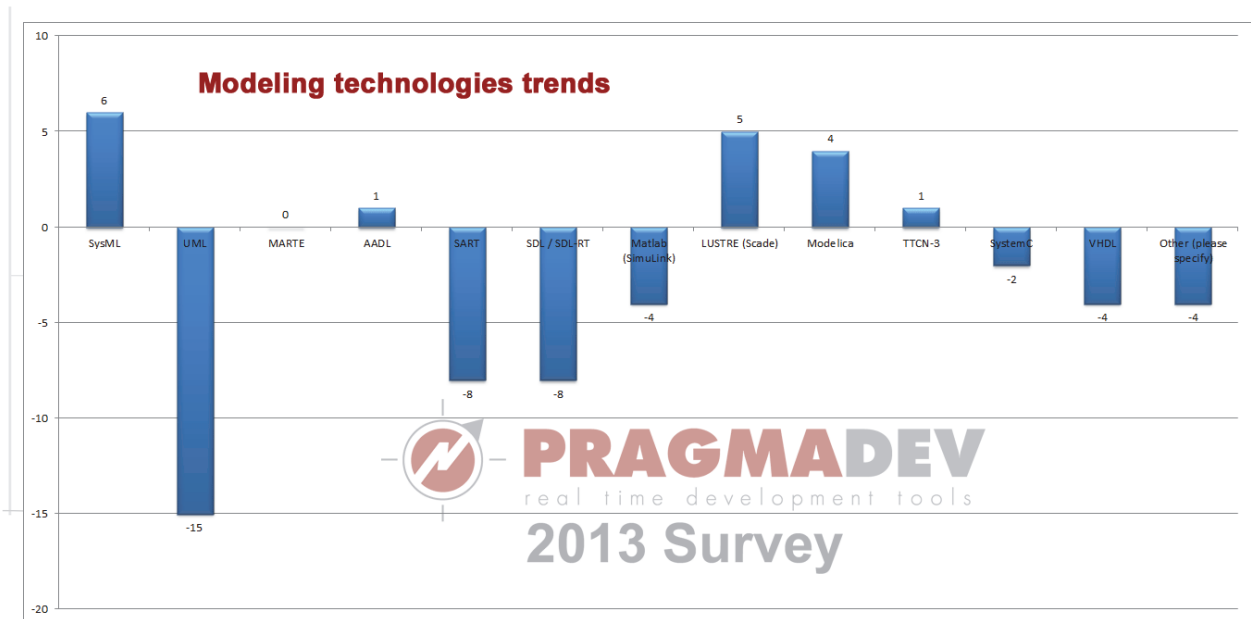
- **UML is mostly used for documentation,**
- **SysML, SDL, and Matlab models are used for simulation.**



## 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.

- The key information is that the trends are soft compared to the previous surveys (in 2012 +71% for MARTE, and 2011 +86% for SysML),
- UML still with a substantial forthcoming decrease of 15% for the third year in a row,
- Other technologies show very little variations.



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## Upcoming hot topics

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

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

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



## 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 software: "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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