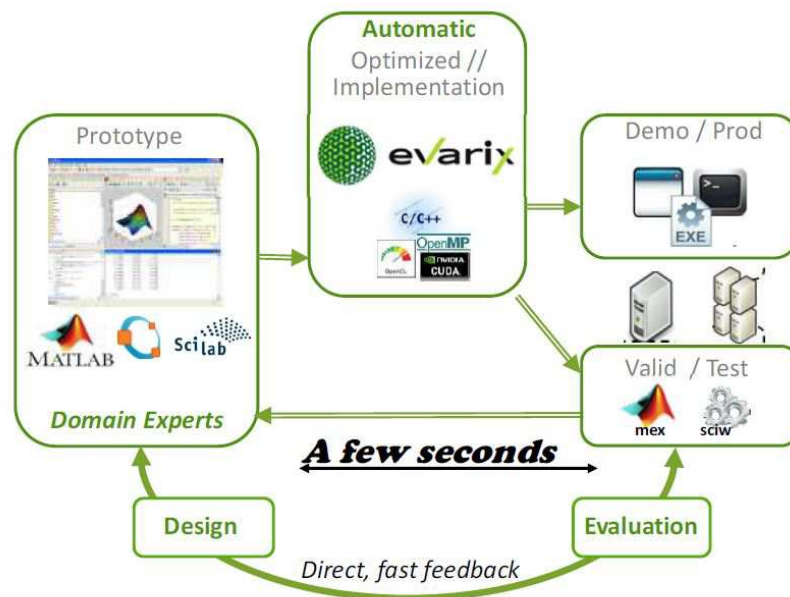


eVariX™

*The solution to boost your **Matlab®/Scilab** modeling process.*

eVariX™ relies on COLD® technology to deliver a unique operational solution, unmatched in the market, to drastically improve the run time performance of models written in **Matlab®/Scilab** DSL without needing to have them recoded by IT specialists.

COLD® is a powerful compiler that automatically transforms **Matlab®/Scilab** scripts into optimized and possibly parallelized codes speeding their execution time by of 10 to 30 and far beyond in some cases.



What makes **eVariX™** unique is that it does not solely rely on calls to optimized libraries : it produces carefully optimized modules, specifically fitted to your model and to the target architecture.

eVariX™ is made of three main components:

- The source to source compiler COLD® that inputs **Matlab®/Scilab** scripts, and outputs an optimized C++ code including specific acceleration using OpenMP or OpenCL according to the hardware architecture target (multicore CPU or GPU).
- A library of optimized modules to support the C++ generated code.
- An encapsulation to automatically transform the input script into an executable code or an autonomous library, which can be provided in various forms (object modules, dll, MEX or JAVA encapsulations) to facilitate the integration of COLD® into customer's production environment.

eVariX™ can be easily integrated into your modeling workflow to provide optimal execution performances without the involvement of High Performance Programming specialists, and the generation of optimized code is fast enough to provide on the fly compilation from within your interactive session.

eVariX™ can be used on Windows or Linux operating systems. It has been validated in industrial context, and continuously benefits from the outputs of advanced RnD activities in the field of compilation, parallelization and code optimization.