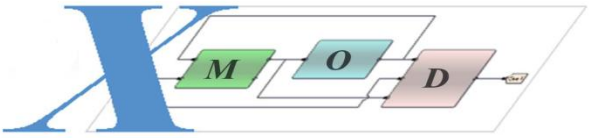
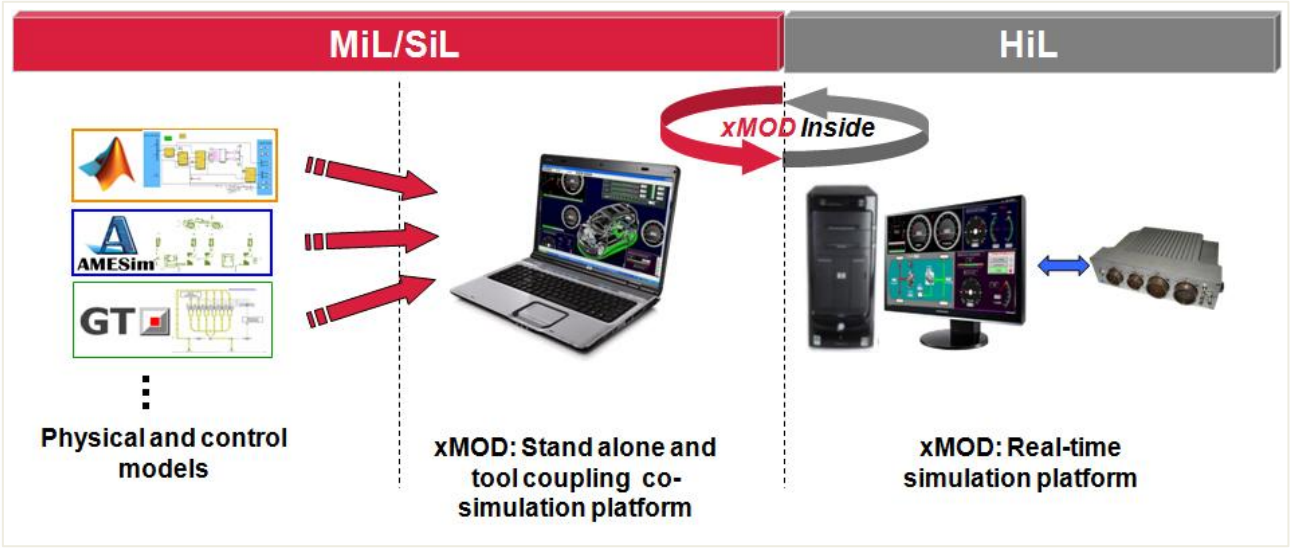
xMOD™ increases your simulation performances at reduced cost

xMOD™ is a co-simulation and a virtual experimentation platform. It allows to:

- ✓ Mix **stand-alone** and **tool coupling** co-simulation
- ✓ **Optimize** complex model execution: multi-core, multi-solver and multi-step computation
- ✓ **Extend** simulation use **to non-experts** thanks to **user-friendly interfaces**
- ✓ Ensure **continuity** from **MiL** to **HiL**





Key benefits:

- **Flexible:** Each engineering field can keep its more efficient software
- **Powerful:** Multi-core and multi-solver executions to boost the performance
- **Economic:** Models exploitation does not need third party licenses (stand alone co-simulation)
- **Extended:** Real-Time compatibility allows connection to the MORPHEE test bed through HiL

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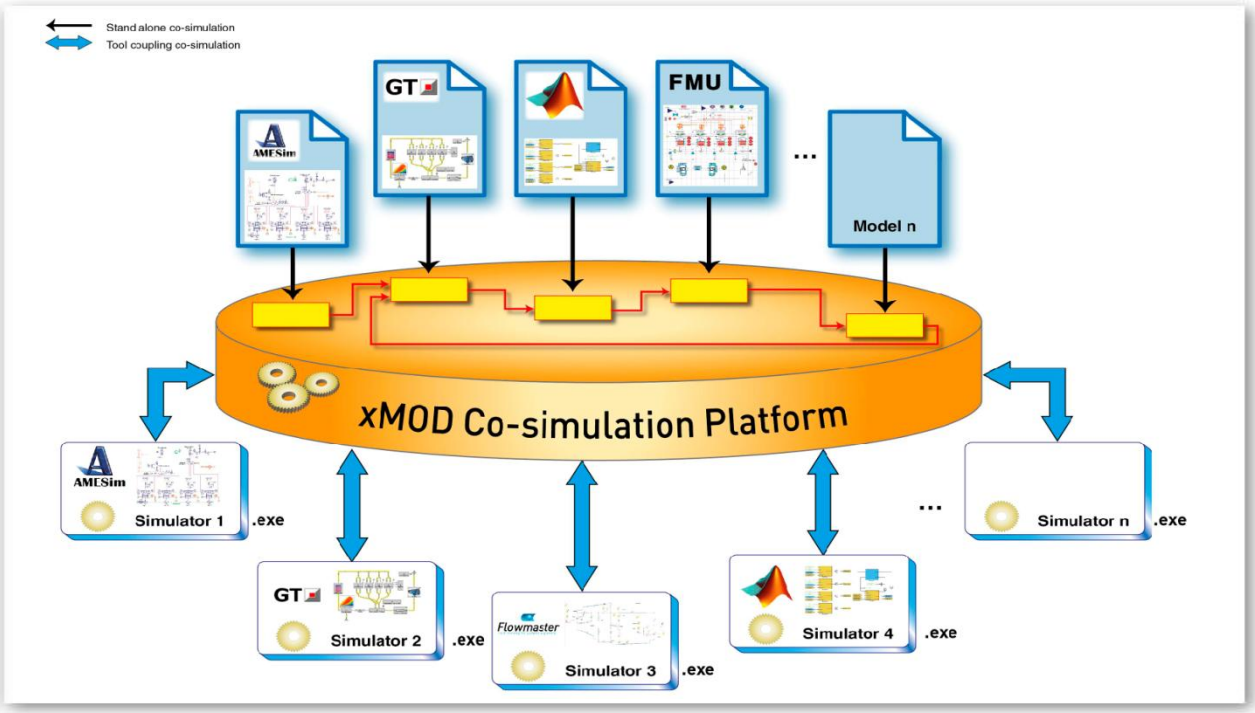
Versatile stand-alone & tool coupling co-simulation: use the most efficient tool for each modeling task.

xMOD ™ Co-simulation Platform



TECHNICAL SPECIFICATIONS

Features

Operating system	▪ Windows XP, Windows 7- 32 bits and 64 bits(1)
GUI language	▪ English, French
Models execution	▪ Multi-threads, multi-cores, multi-steps, multi-solvers, as fast as possible, real-time, dilated or compressed time
Import compatible formats	▪ xMOD™ proprietary format via SimulinkCoder(2), FMI(3) 1.0, FMI(3) 2.0, GT-Suite(5) (.dat), AMESim (5) (.ame)
Compatible software	▪ Matlab/Simulink®, AMESim®, GT-Suite®, SimulationX®, Dymola®, OpenModelica®, Flowmaster®, MapleSim®, C/C++, FMI compatible tools
Drivers	▪ Ethernet Real-Time, CAN, VMIC PCI-5565, XCP, Joystick
Solvers for FMUs(4)	▪ Fixed step (Euler, Runge-Kutta), variable step (CVODE, LSODAR, DASSL)
Results files format	▪ ASCII
Automation language	▪ Instructions and graphical definition
Dashboards	▪ Custom dashboards, instruments library
Access rights	▪ Fixed or floating license

(1) xMOD HiL requires Windows 32 bits
(2) SimulinkCoder (formerly RTW): Real-Time Workshop developed by the company MathWorks®
(3) FMI: Functional Mock-up Interface
(4) FMU : Functional Mock-up Unit: FMI format file
(5) Via tool coupling co-simulation

Special offer : Free software update during warranty year

http://www.xmodsoftware.com

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