The Future of Meta-Models
TOPCASED – GeneAuto convergent tool chains?
TOPCASED – GeneAuto Meta-Models : Future Works

- Which tool chains do **we want** to converge ?
  - ✓ Which design languages (or part of them) do we want to focus on ? With which semantics
    - • SysML-UML-MARTE / Scade (V5/V6) / Simulink-Stateflows / AADL / …
    - • Synchronous / asynchronous
  - ✓ Which activities do we want to focus on ?
    - • Architecture, Functional Data Flow, Functional Control Flow, Purely algorithmic
  - ✓ Which target languages do we want to focus on ?
    - • Source Code : Ada, C, Java, VHDL, SystemC. Complete or partial (structural)
    - • Test Code : RTRT, …
    - • Formal verification Code and/or Properties : TINA, CADP, Caveat …
    - • Simulation Code : …
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➢ Which tool chain **could we** investigate?
  ✔ Synchronous vs asynchronous semantics
  ✔ Intricate project

➢ Which bridge could we operate between languages? For which concern/goal?
  ✔ SysML / Scade-SF?
  ✔ AADL / Scade / Sim-SF?
  ✔ For bi-simulation or bi-formal verification?