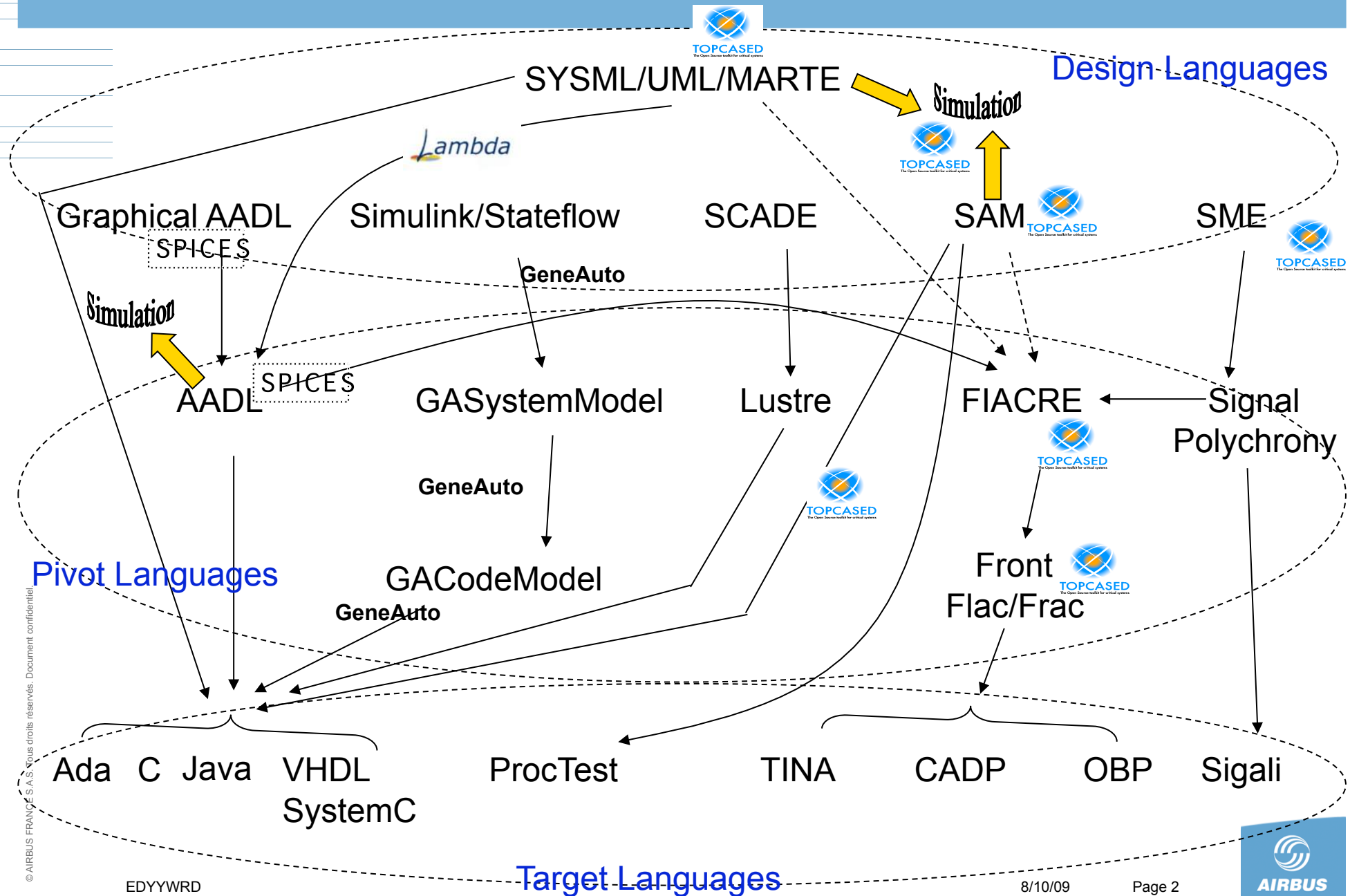


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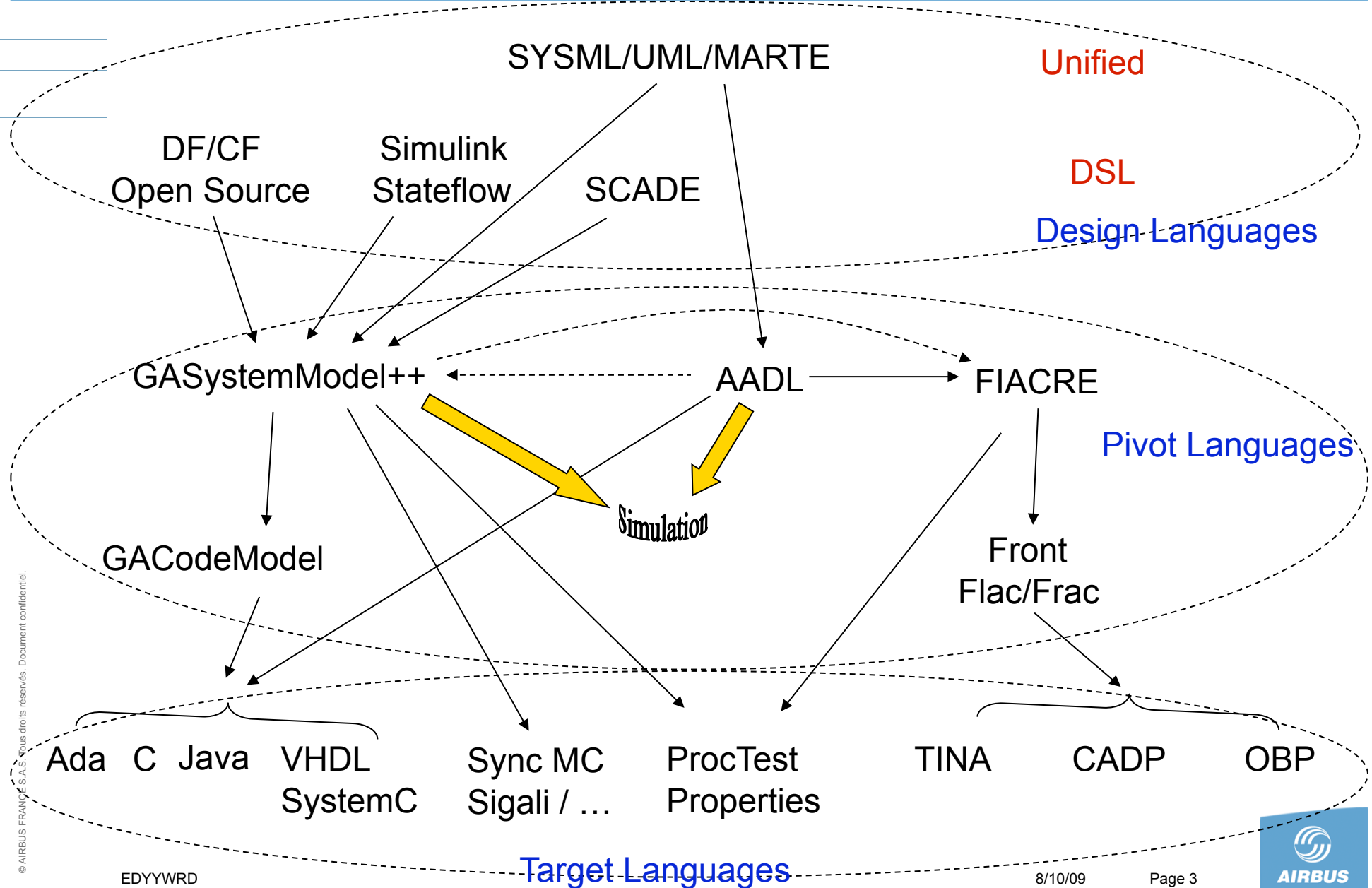
The Future of Meta-Models
TOPCASED – GeneAuto convergent tool chains ?

TOPCASED – GeneAuto Meta-Models



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TOPCASED – GeneAuto Meta-Models : The Future ???



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 : ...

TOPCASED – GeneAuto Meta-Models : Future Works

- 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 ?