



GeneAuto **at Rockwell Collins France**

Further development and improvement

Rockwell
Collins

Proprietary Information

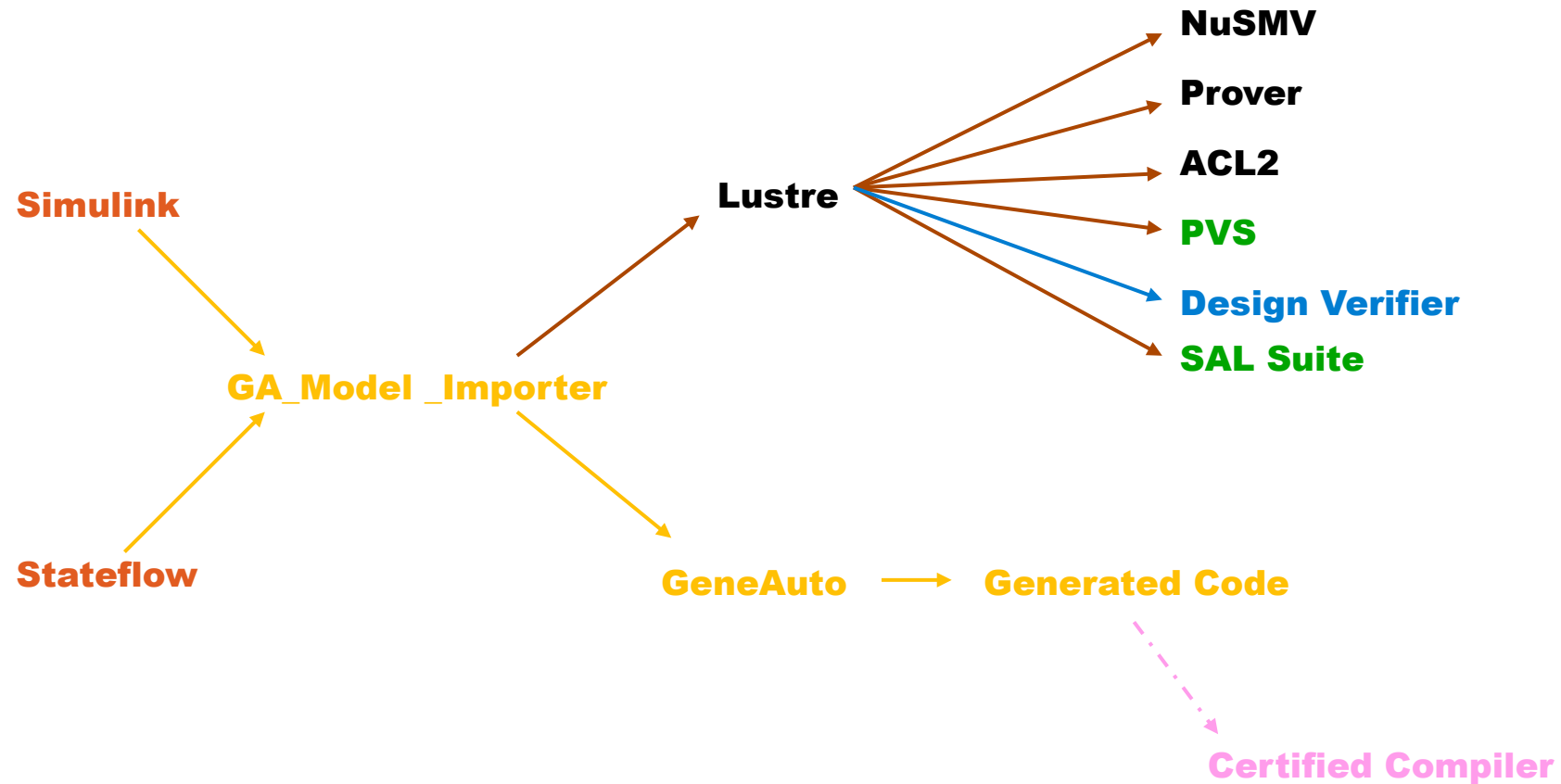
Future of GeneAuto at Rockwell Collins

- Improvement and adaptation to our current processes
 - From the improvement areas detected during the evaluation
 - To better fit our MBD blocks
- Building a coherent set of tools
 - Integration with our Gryphon framework
- Tool qualification
 - Participation/sharing of qualification effort

Improvement of the current version

- Code improvement and additional options (not limited)
 - **Code Size / Memory Size**
 - Gene-Auto code is inlined, which requires much space in ROM. No option to generate reusable functions.
 - Many temporary variables are created. This is reduced by using the CodeOptimizer tool.
 - **Code protection against division by zero**
 - **Data type propagation** in Data Type Conversion block
 - **Remove 'strange' code**: For loops starting with 0 ending and excluding 1
- Improve interfacing with manual or generated code
- Extend block library to cover our MDN library
 - 30 blocks not yet covered

Building a coherent set of tools



Tool qualification

- How can we organize to share qualification efforts?
 - Participation in qualification documents?
 - Participation in a generic tool implementation document?
 - Any other?