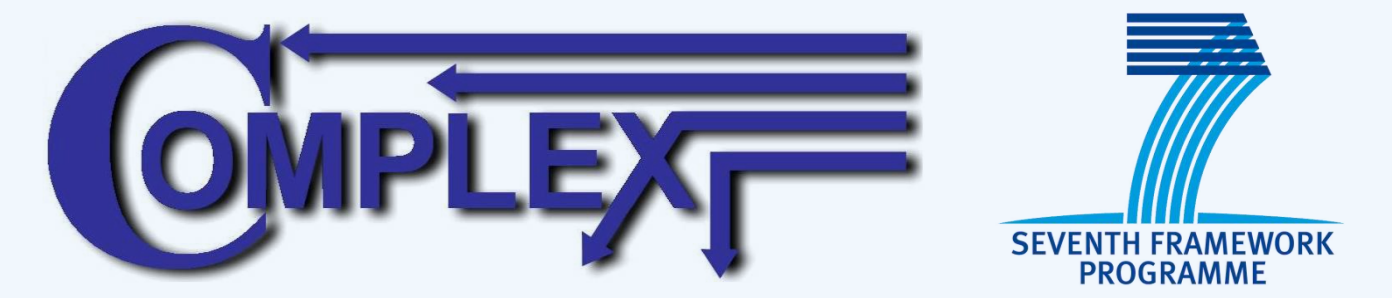


# COMPLEX Eclipse Framework



<http://complex.offis.de>



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- ✓ Based on Standards
- ✓ Graphical (UML/MARTE)
- ✓ Separation of functional and non-functional concerns
- ✓ Model-Driven Engineering approach
- ✓ Component-Based approach
- ✓ Allows system specification
  - Application SW
  - HW&SW Platform
- ✓ Support to Verification act.
- ✓ Support to DSE
  - Specification of Design Space (DSE parameters and set of architectural mappings)
  - DSE constraints and Rules
  - Objective functions
- ✓ Fully integrated with Eclipse
- ✓ Model Checkers:
  - Verification of compliance with component model
  - Designer support
- ✓ Transformation engines:
  - Automatic model-to-text transformation
- ✓ Scalable and configurable
  - Extension features for new analysis/generators
- ✓ Text-based representations in standard formats
- ✓ SystemC Executable model for functional verification
- ✓ Performance model for DSE
  - Fast (Native) simulation
  - Output: software and system performance metrics
  - No recompilation required for DSE iterations
- ✓ XML interface for design exploration Tools

