

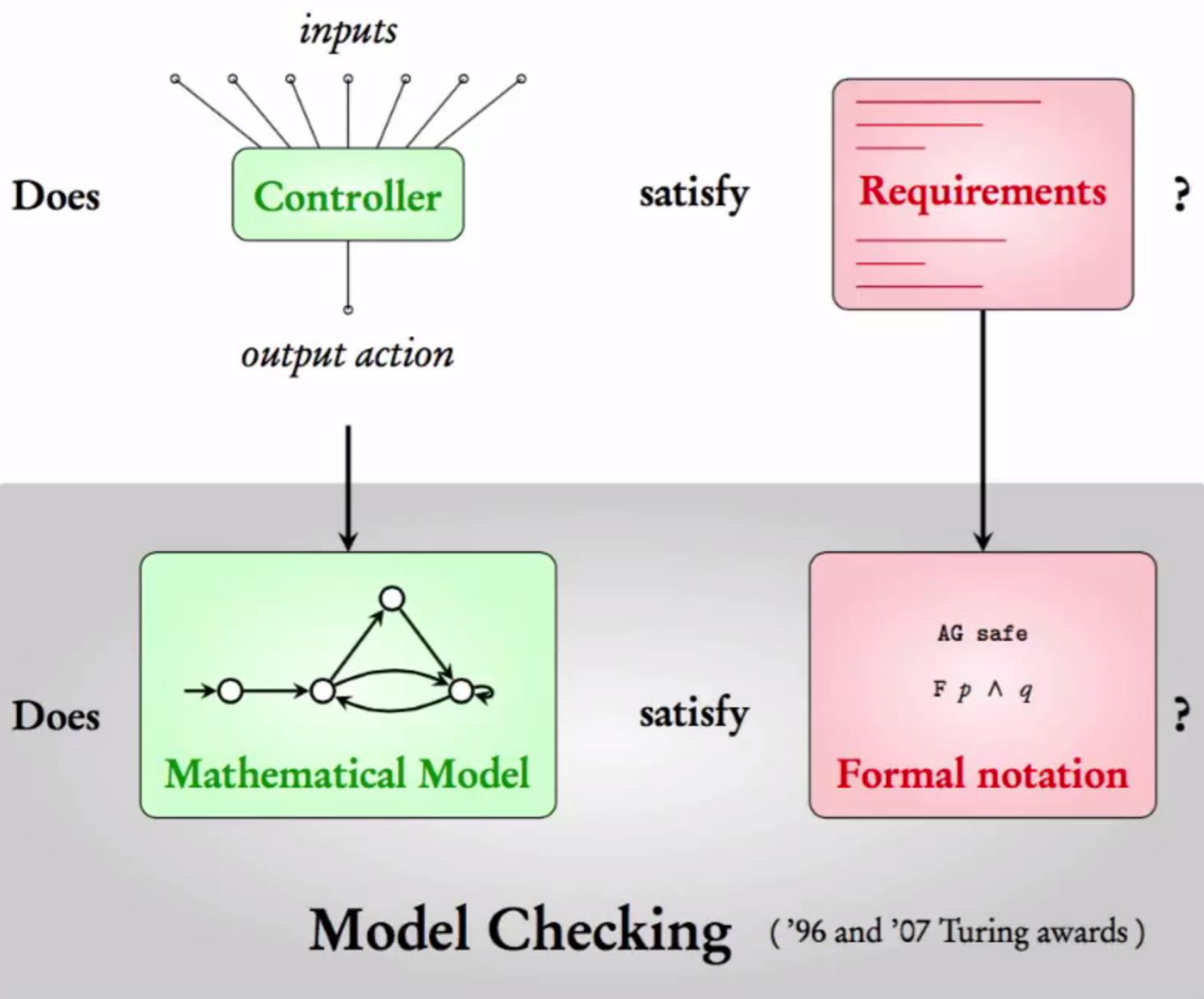
CoCoSim : Contract-based Compositional Verification of Simulink Models

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Software / Hardware Verification

- Verification : Proving that a system **always** conforms to our requirements
 - Instead of “fishing” for faults via traditional testing
- “How?” : Mathematical proofs, based on a model for the target system
 - Similar to how theorems are proved in mathematics!
 - i.e. “**Formal Methods**”
- Model checking : Verification technique
 - + Precise
 - + Unambiguous
 - Expensive, preferable for verification of safety-critical components



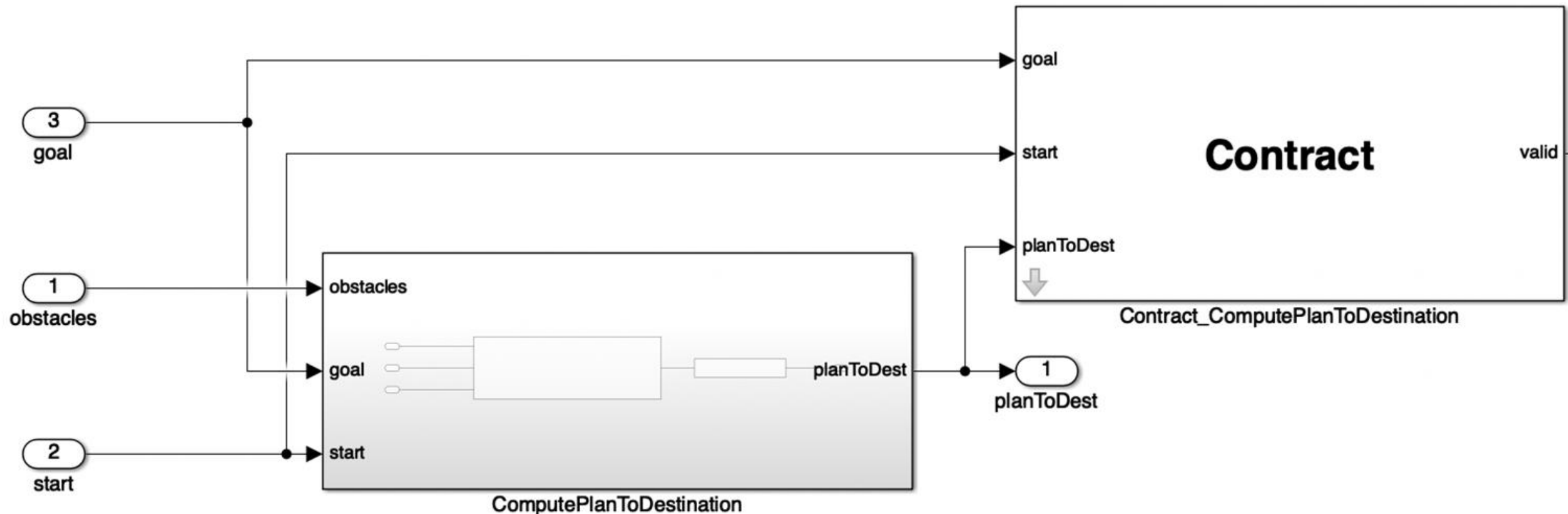
What is CoCoSim?

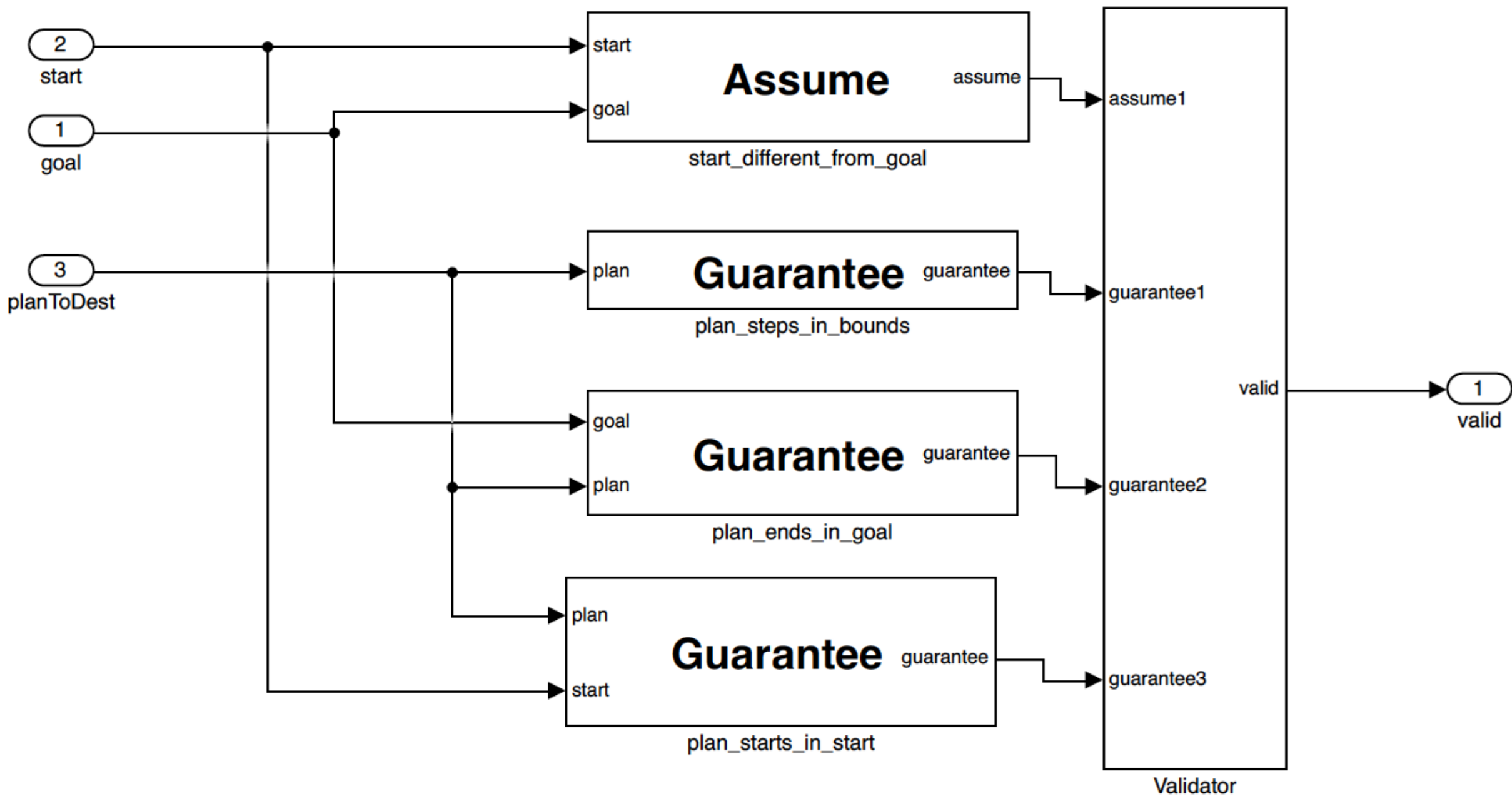
An open-source MATLAB toolbox for
the verification of Simulink models...

... with powerful, scalable features



Requirements are expressed using Simulink library provided by CoCoSim.





- Tool demonstration, overview and developer tutorial videos at:

https://www.youtube.com/playlist?list=PL5s3On5k1rqmOLo6z904VRyff8p7r0HH_