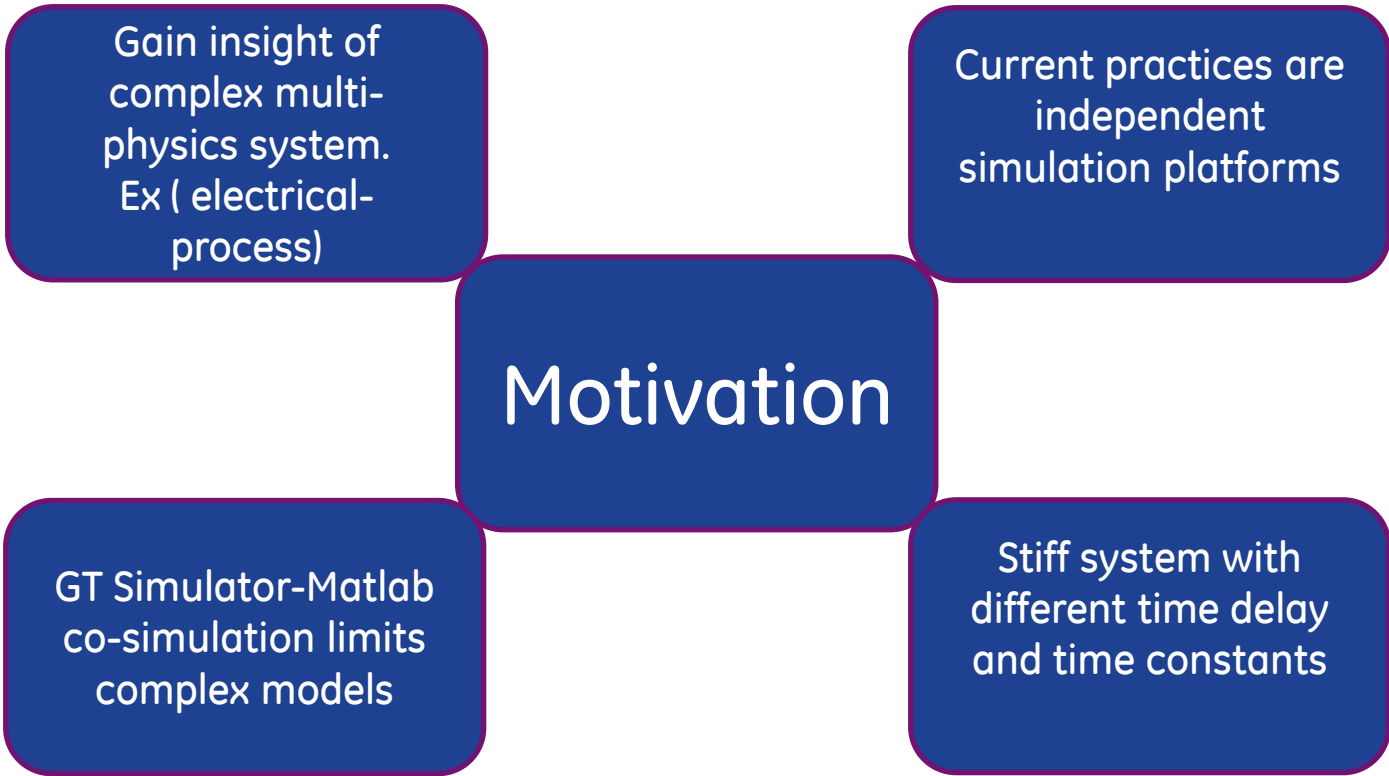


Exploration of Co-Simulation using MATLAB® Simpower System and Gas Turbine(GT) Simulator

Jitesh Bajaj
Engineer
Sunil Unnikrishnan
Senior Engineer
February 2016



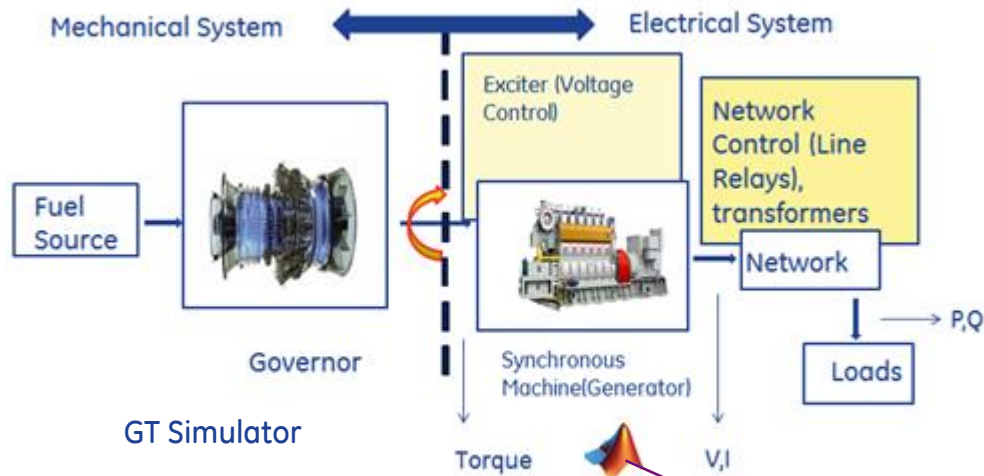
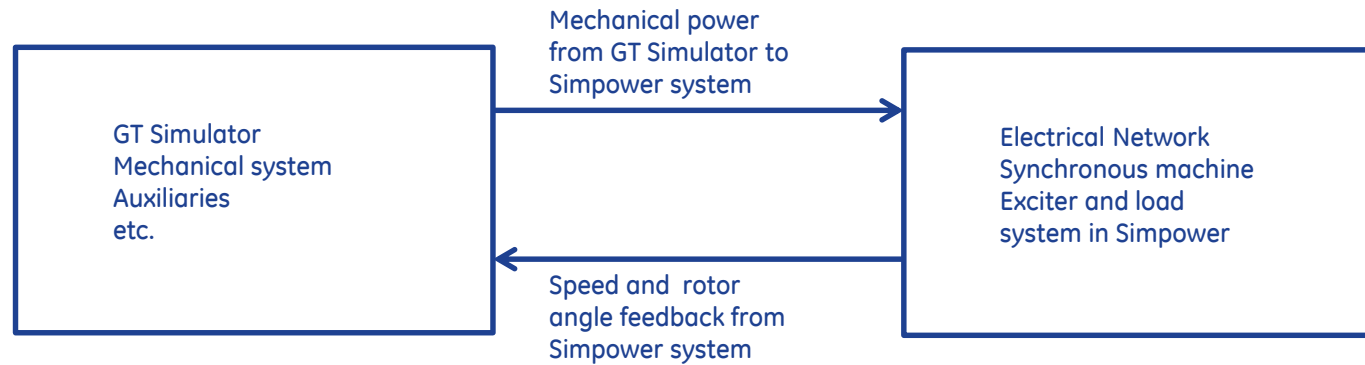
imagination at work



Enabling maximum utilization of legacy library.



Case Study- Electrical Simulation

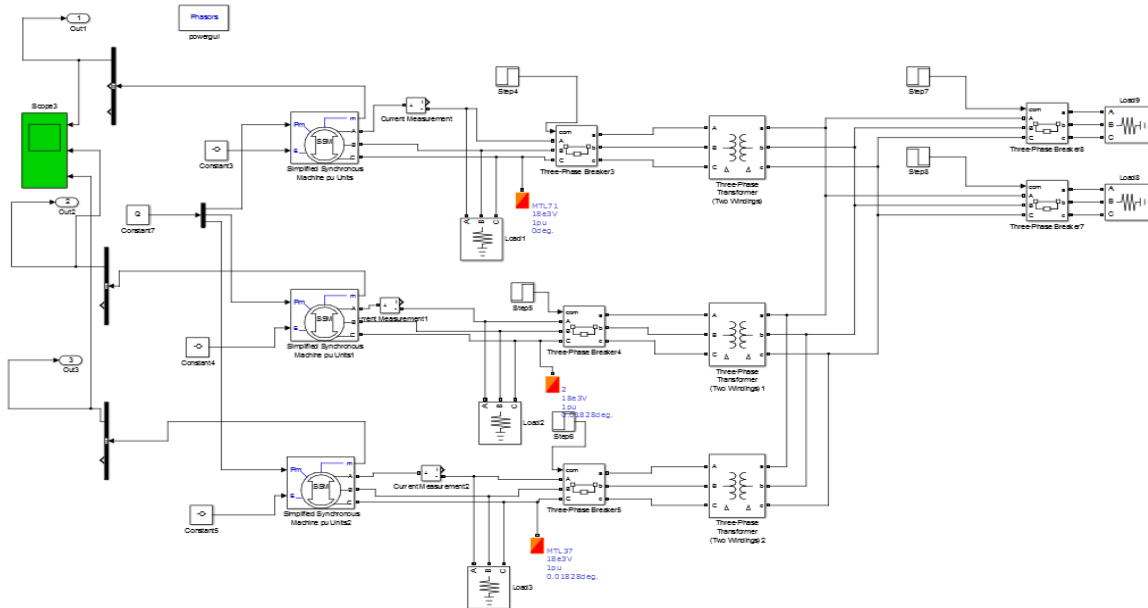
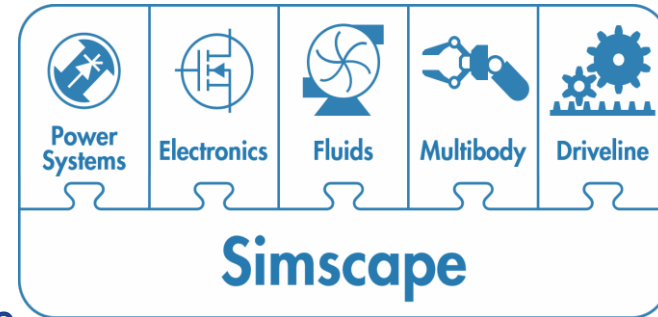


Enabler:
Step forward function (pilot run)

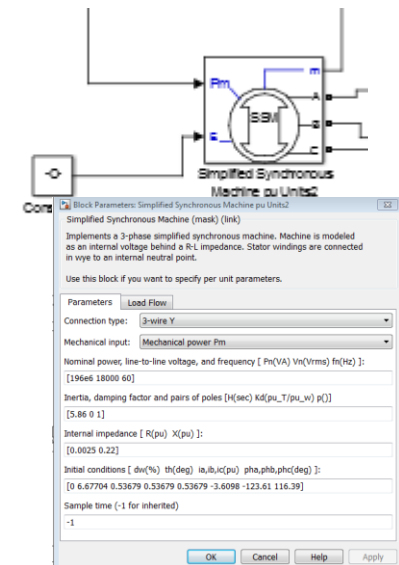
Modeling Electrical System in Simpower- Simscape

Advantage

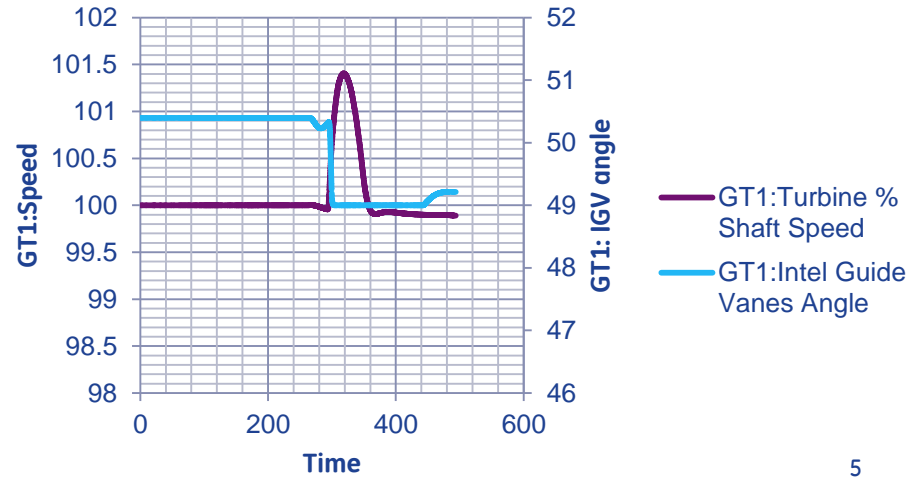
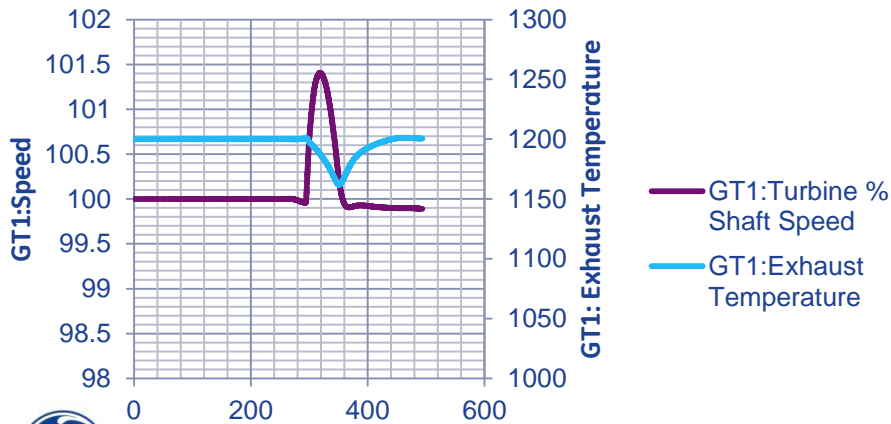
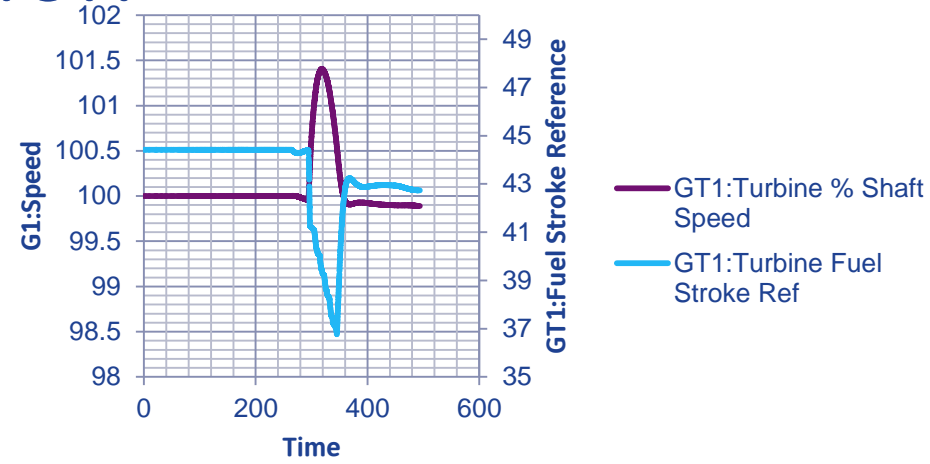
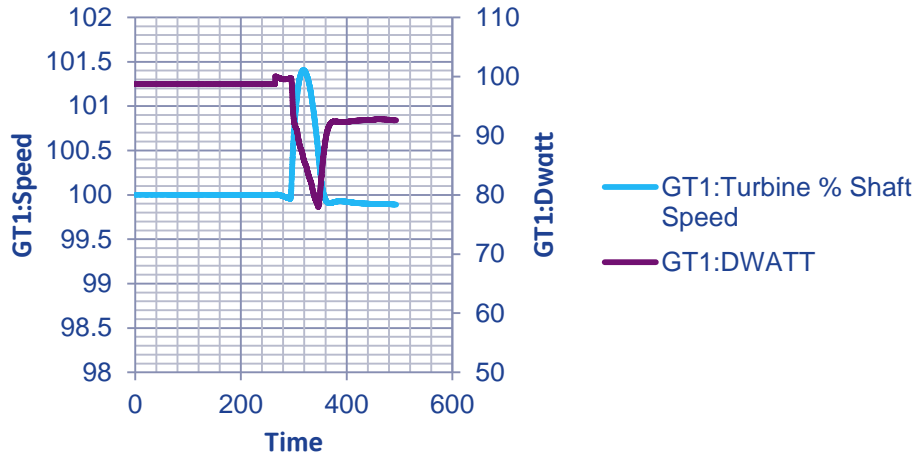
- Eases process of modeling physical systems
- Build models that reflect structure of physical system
- Leverage MATLAB to create reusable models.
- Both phasor and time domain approaches are possible.
- Systems and Control Engineers can handle large electrical simulations.



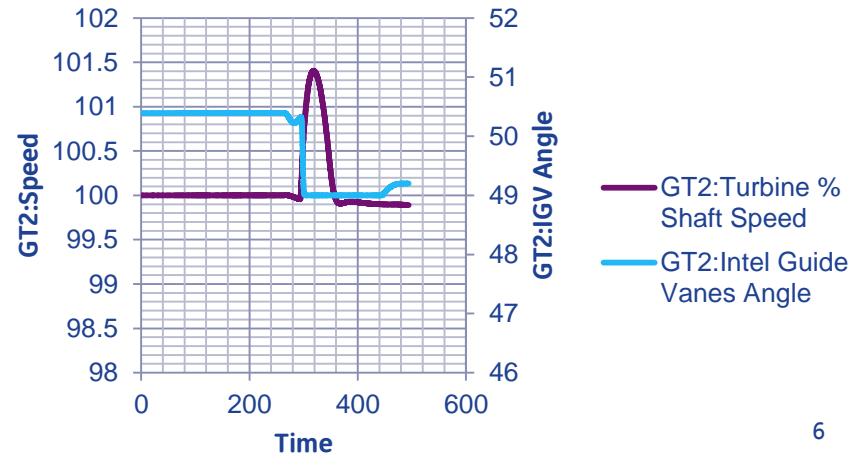
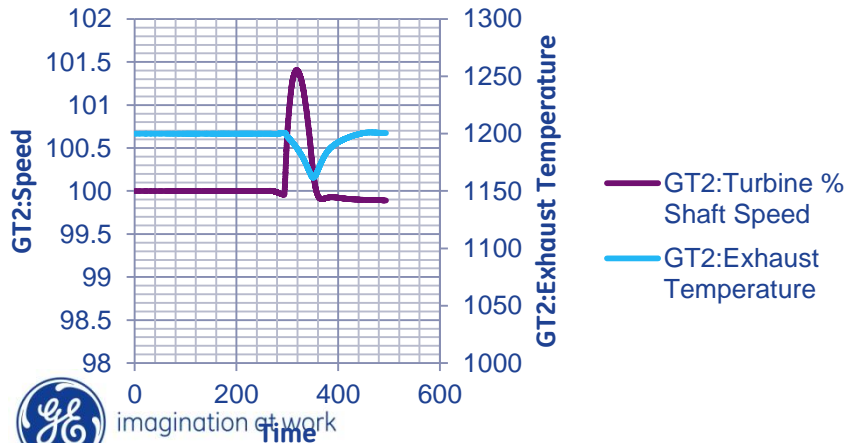
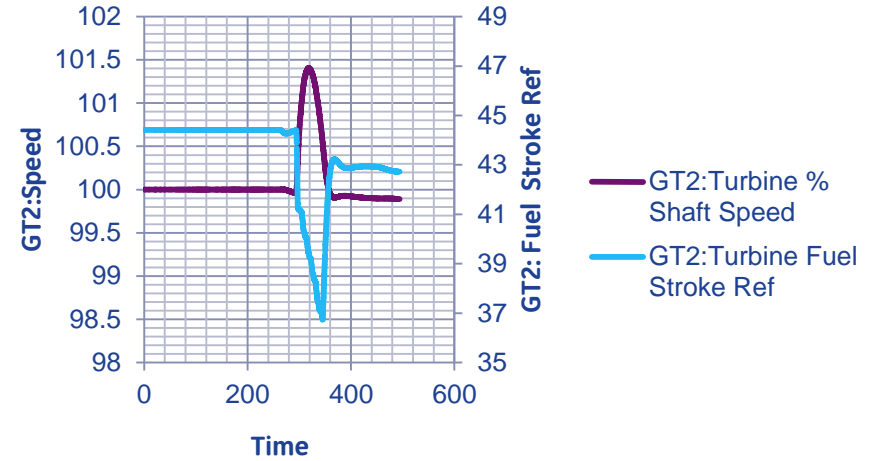
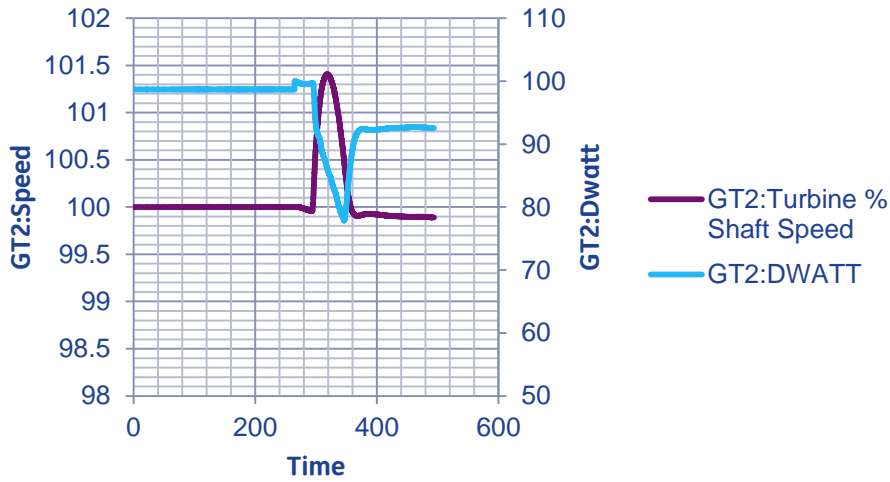
Synchronous machine



Results and Discussion



Results and Discussion



Thank you.





imagination at work