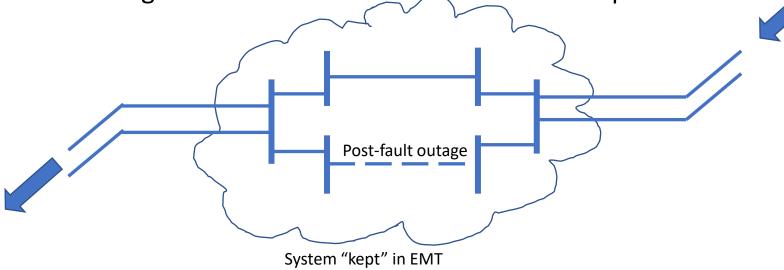
When should you use Co-Simulation?







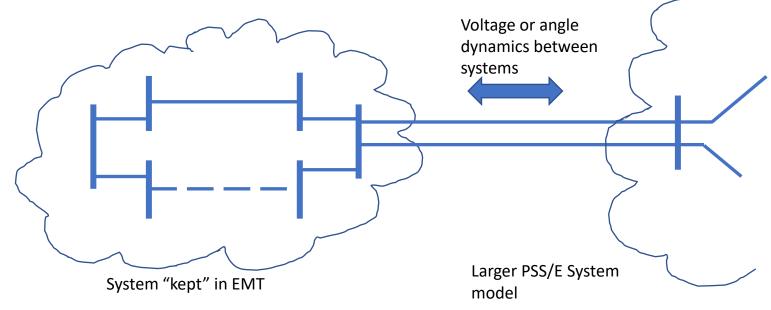
- High path flows through your study area
 - Post contingency angles (and therefore powerflow) will be wrong at the boundaries with fixed source equivalents







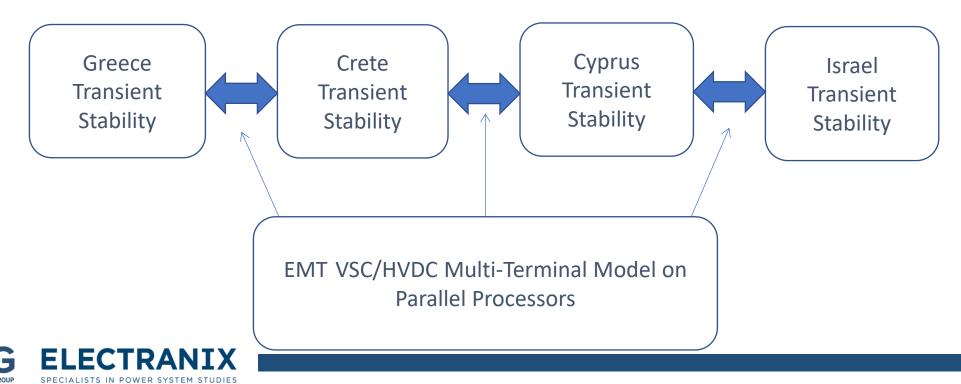
- Inter-area machine dynamics
 - Areas swinging against each other will not be represented with fixed source boundary equivalents







- 'Glue' between incompatible transient stability tools
 - Different PSS/E versions, PowerFactory, PSLF



- Uncertainty
 - What don't I know? How do I get the very best warm fuzzy feeling about my study accuracy?







Alternatives to Co-simulation

- Larger EMT study area, or multiple study areas modeled in EMT using parallel simulation. (There are going to be limits, however!)
- Be aware of your model limitations. Are they really important for what you're studying?



