CNEFS **NC STATE** UNIVERSITY Advanced Risk Analysis for Transportation Infrastructure Systems using SCRAM++ Nailah Afshan, Dr. Saran Bodda, Dr. Abhinav Gupta, and Dr. Kevin Han Department of Civil, Construction and Environmental Engineering, North Carolina State University, Raleigh, North Carolina





Analysis and Results

• Figure 3 shows the results for the below fault tree for varying complexity

the evaluation of transportation system vulnerabilities, enabling proactive risk management and enhanced decision-making for safety and reliability

 SCRAM++ can be used to assess transportation system risk under climate change & extreme events