**Group 1 Questions (NC3 Access/Vulnerabilities)**

**Date:**

**Scenario:  1  2**

**Age:**

**Gender:**

**Country of Citizenship:**

**1. Choose the categories that best capture your professional background (choose all that apply):**

* + Government
  + Academic
  + Military
  + Private Industry
  + Non-Governmental Organization
  + Other:

**2. Choose the category that best captures your experience/professional level:**

* + Student
  + Entry level professional (up to 5 years experience)
  + Mid-level professional (5-15 years experience)
  + Senior professional (15+ years experience)
  + Other:

**3. Choose the statement that best captures your familiarity with cyber security:**

* + No familiarity
  + Routine understanding of concepts behind cyber security
  + Cyber security policy expert
  + Cyber security technical expert
  + Cyber security policy and technical expert
  + Other:

**4. Choose the statement that best captures your familiarity with nuclear weapons:**

* + No familiarity
  + Routine understanding of concepts behind nuclear weapons
  + Nuclear weapons policy expert
  + Nuclear weapons technical expert
  + Nuclear weapons policy and technical expert
  + Other:

**5. Player Role in the Game:**

* + Head of State (Executive)
  + Foreign Minister
  + Economic Advisor
  + Intelligence Advisor
  + Defense Minister
  + National Security Advisor

**6. If your group used nuclear force, what was the group’s primary motivation?**

* Concerned about ability to use nuclear arsenal in the future
* Concerned about conventional military losses
* Wanted to punish adversary for territorial invasion
* To keep adversary from using their nuclear weapons first
* Concerned about regime survival
* Need to retain domestic support
* Wanted to ensure Our State international reputation
* Other:

**7. Regarding the previous question, did your opinion differ from the group (either in the use or the motivation behind the decision)? If so, please describe here.**

**8. If your group did not use nuclear force, what was the group’s primary motivation?**

* Confident we could use nuclear arsenal in the future
* Confident about conventional military success
* Concerned about regime survival
* Need to retain domestic support
* Wanted to ensure Our State international reputation
* Other:

**9. Regarding the previous question, did your opinion differ from the group (either in the use or the motivation behind the decision)? If so, please describe here.**

**10. What effect did adversary cyber capabilities have on your group’s decisions this move? (Choose all that apply.)**

* No effect
* Created incentives to increase conventional attacks
* Created incentives to decrease conventional attacks
* Created incentives to focus on diplomacy
* Created incentives to utilize nuclear force
* Created incentives to restrain nuclear force
* Created incentives to increase cyber attacks
* Created incentives to decrease cyber attacks
* Other:

**11. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**12. Did you use offensive cyber operations (cyber attacks) in this move?**

* Yes
* No

**13. If yes, what effects did your group desire to achieve with these offensive cyber operations?**

* Degrade adversary military operations
* Degrade adversary nuclear operations
* Influence public or international opinion
* Degrade adversary economic infrastructure
* Degrade adversary dual-use infrastructure (used for both military and civilian, i.e. some ports, roads, and shared electricity)
* Degrade adversary governance
* Other:

**14. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**15. If your group did not employ offensive cyber operations, why not?**

* Concerns about effectiveness of the cyber attack
* Concerns about adversary nuclear retaliation in response
* Concerns about adversary conventional military retaliation in response
* Concerns about adversary cyber retaliation in response
* Concerns about Our State’s cyber vulnerabilities
* Reserving for later use
* Other:

**16. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**17. Our game was based on a hypothetical scenario, but often players refer back to one country when playing. Did you think back to a particular country when playing your country?**

* Yes
* No

**17a. If so, which one? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**18. In this game, we told you that both countries had relatively similar conventional and nuclear capabilities. If we had told you that Other State had a *much less capable* conventional military or nuclear arsenal than Our State, would that have changed your group’s actions? (Choose all that apply.)**

* No difference in actions
* Increase diplomacy
* Decrease diplomacy
* Increase economic actions
* Decrease economic actions
* Increase conventional attack
* Increase nuclear actions
* Decrease conventional attacks
* Decrease nuclear actions
* Increase cyber operations
* Decrease cyber operations
* Other:

**19. Regarding the previous question, do you think your opinion differs from the group? If so, please describe here.**

**20. In this game, we told you that both countries had relatively similar conventional and nuclear capabilities. If we had told you that Other State had a *much more capable* conventional military or nuclear arsenal than Our State, would that have changed your group’s actions? (Choose all that apply.)**

* No difference in actions
* Increase diplomacy
* Decrease diplomacy
* Increase economic actions
* Decrease economic actions
* Increase conventional attack
* Increase nuclear actions
* Decrease conventional attacks
* Decrease nuclear actions
* Increase cyber operations
* Decrease cyber operations
* Other:

**21. Regarding the previous question, do you think your opinion differs from the group? If so, please describe here.**

**22. What role did the adversary’s ability to conduct a cyber attack on your NC3 play in your group’s response plan? (Choose all that apply.)**

* No effect
* Created incentive *not to use* nuclear force
* Created incentive *to use* nuclear force
* Created incentive *not to use* conventional force
* Created incentive *to use* conventional force
* Created incentive *to use* cyber operation
* Created incentive *not to use* cyber operation
* Other:

**23. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**24. What role did having an exploit/access into your adversary’s NC3 vulnerability play in your group’s response plan? (Choose all that apply.)**

* No effect
* Created incentive *not to use* nuclear force
* Created incentive *to use* nuclear force
* Created incentive *not to use* conventional force
* Created incentive *to use* conventional force
* Created incentive *to use* cyber operation
* Created incentive *not to use* cyber operation
* Other:

**25. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**26. Did you conduct a cyber attack on adversary NC3?**

* Yes
* No

**27. If yes, why did your group choose to conduct a cyber attack with your NC3 exploit? (Choose all that apply.)**

* Concerns exploit/access wouldn’t exist in later stages of the crisis
* Concerns adversary would conduct similar attacks on Our State
* Desire to limit Other State’s ability to launch a nuclear attack
* Less escalatory option than attacking Other State’s nuclear forces with conventional or nuclear weapons
* Ability to limit kinetic collateral effects
* Ability to conduct operations covertly
* Other:

**28. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**29. If no, why did your group choose *not* to conduct a cyber attack with your NC3 exploit? (Choose all that apply.)**

* Concerns about effectiveness of the cyber attack
* Concerns about adversary nuclear retaliation in response
* Concerns about adversary conventional retaliation in response
* Concerns about adversary cyber retaliation in response
* Concerns about vulnerability of Our State’s NC3
* Reserving for later use
* Concerns about attribution
* Other:

**30. Regarding the previous question, did your opinion differ from the group? If so, please describe here.**

**31. In general, how would you describe your group’s decision-making dynamic?   
(Choose one.)**

* Hierarchical, one player acted as leader
* Collaborative, no clear dominant personality
* Individual, players made most decisions by themselves
* Other:

**32. Any other insights you have about the scenario/game/or what you learned:**