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Warfare Analysis of Logistics Agility in a Contested Environment

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Warfare Analysis of Logistics Agility in a Contested Environment



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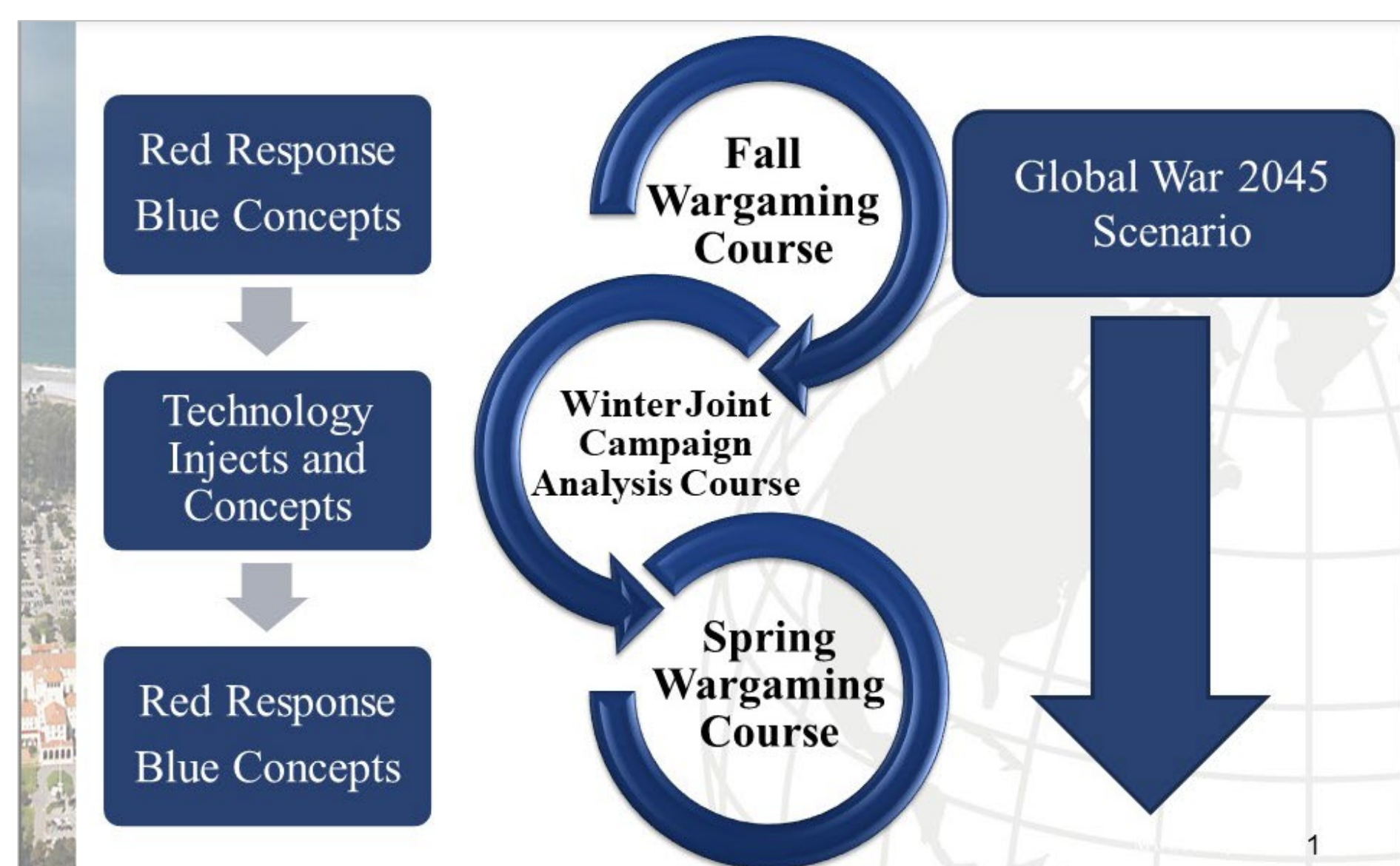
Medical and Casualty Evacuation

The year is 2025 and conflict is imminent in the North-West Pacific. The US Navy's 7th Fleet has deployed two Surface Action Groups and two Carrier Strike Groups to the area to accompany three Marine Expeditionary Advance Bases. These units are the United States' and allies' first line of defense against aggression. In the event of armed conflict, casualties will be evacuated from these seven units to one of three allied hospitals, or the US Navy hospital ship.

The wargame utilized different means by which casualties could be evacuated, and assessed the effectiveness of each alternative.



Playing the Casualty Evacuation Wargame



Wargaming and Joint Campaign Analysis Synergy

Leveraging NPS Student Strengths

- Both the Joint Campaign Analysis (JCA) course and the Wargaming Applications course are leveraged to provide a holistic look at a research topic.
- The Fall Wargaming Applications course students conduct wargames for real-world sponsors. The results of these wargames are then used to inform JCA mini-studies examining new technologies or concepts during the Winter quarter.
- The Winter JCA course has groups of students complete quantitatively-based mini-studies examining technical injects or evolving concepts.
- In the Spring quarter, the Wargaming Applications course students incorporate models and tools developed in the JCA mini-studies for application in the qualitatively-focused wargame.

Forward Repair and Maintenance of Warships

A forward deployed Expeditionary Strike Group (ESG) effectiveness was assessed in this wargame. The focus of the game was on returning Non-Mission Capable warships to Partial-Mission Capable (PMC) so that the ESG could then use the ship to accomplish an assigned mission. Three different scenarios were used, and the effects of adverse weather were incorporated into the wargame.

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|--|---|--|---|
| <p>Steps to Play:</p> <ol style="list-style-type: none"> 1. Send ships to/from port. 2. Assess ESG readiness. 3. Roll die for movement. 4. Remove damage tokens and assess ship & ESG readiness. 5. Draw casualty card(s) & assess damage. 6. Assess ship & ESG mission readiness. | | | |
| <p>STOP</p> <p>All ships stop here.</p> <p>Remove damage tokens equal to your movement-die roll.</p> <p>Draw 1 casualty card for each ship at sea.</p> <p>Roll a die to assess each damage.</p> | <p>Adverse weather</p> <p>No repairs completed on ships at sea this turn.</p> | <p>Supply Ship Arrives with Repair Parts</p> <p>Remove 4 additional damage tokens from ships at sea.</p> | <p>Safety Incident</p> <p>Draw 1 casualty card.</p> <p>Roll to assess damage.</p> |

Wargaming process to Assess ESG Effectiveness

Warfare Analysis

- NPS students are military professionals with between 8-12 years of service who combine intellectual acuity with operational warfighting experience.
- Combining student coursework, theses, and faculty/student/scientist workshops to provide a sponsor a thorough multi-disciplined warfare analysis examination of a research topic is an NPS hallmark.



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