Space Policy Issues

- Space Threats -

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Fundamental Space Threats-1

• World Has Not Yet Experienced a Full-Out Space War

• Difficult to Assess What the Likely Conditions, Battlefield Tempo, Strategies & Tactics Would Underlay a Future Space Conflict

Space Warfare Future is Unknown

Fundamental Space Threats-2

- Despite Best Efforts at INTEL Collection, Many Historical Examples of Surprise Attack
 - > Pearl Harbor
 - Battle of the Bulge (in Spite of 11,000 Ultra Message Decryptions Indicating Buildup of Major German Forces for Attack)
 - Yalu River in Korea
 - > Most Israeli-Arab Conflicts
- Due to the Distances Involved in Space & Unmanned Nature of the Environment, Surprise Attacks in Space Can Only be Even More Difficult to Detect

Surprise Attacks In Space <u>Will</u> Occur

The Value of Surprise

• National Defense University Study:

- > Analysis of 16 Major Conflicts in 20th Century
- > 138 Cases of Surprise Attacks Assessed

• Study Results

- **>** Without Surprise 1 : 1.7 Casualty Ratio
- **With Surprise** 1 : 14.5 Casualty Ratio

Fundamental Space Threats-3

- Many New Weapon Technologies Provided Considerable Advantages to Their First User
 - Catapult vs. Greek Fortifications
 - Cannon vs. Castle Walls
 - > Crossbow vs. Shield
 - > Musket vs. Body Armor
 - **>** Tank vs. Machine Gun
 - > Shaped-Charge vs. Bunker
 - > Airplane vs. Battleship
- More Than Likely the Side That First Employs Offensive Weapons Against Space Systems Will "Win" the Space War, & Unbalance a Country's Use of Space Systems to Support the Terrestrial Battlefield, at Least Over the Short Duration of Any Probable Future Major Conflict.

Side That Attacks First In Space Will Win???