

1960-1964

Terms

Counter-force targeting	Counter-value (city) targeting	Assured destruction
PA&E	Systems analysis	2 ½ war strategy
Wars of national liberation	Counter-insurgency	Cost-effectiveness
Strategic triad	SSBN/SLBM	LTBT
PPBS	Escalation ladder	Special forces
Hot-Line	EMT	DIA
Finite deterrence	Damage limitation	

Key Shifts in National Security Policy

■ **Flexible Response**

- Creating new options for defense & deterrence – symmetry
- general purpose force for escalation control
- special forces for counter-insurgency

■ **PPBS/Systems Analysis**

- New approach to defense budgeting and management
- Focus on missions not services

■ **Strategic Triad & Assured Destruction**

- *systematic evolution of US SNF*

Flexible Response

■ Nuclear weapons do not solve all national security problems

- matching force to mission
- Rebuild conventional forces
 - Gen Max. Taylor = Special Military Advisor to Pres. Kennedy
 - 1962-1964: Chair JCS
 - 1964-1967; Amb. To S. Vietnam

■ Counter-insurgency & guerrilla war

- *jungle warfare schools in Panama and Ft. Bragg, NC*
- to train US and foreign forces
- counter-insurgency

■ Conflict control (escalation control)

- signaling, bargaining with military forces
- matching means with goals
- limited war (Schelling & game theory)

■ 2 ½ war strategy

- 1 Europe/Soviet Union
- 1 PRC
- ½ elsewhere

Systems Analysis/PPBS

- **Goal: break old institutional & special interest control over defense allocations & resources**
 - Increase civilian control over defense spending & weapons acquisition
- **Analyze military requirements and costs simultaneously**
- **Explicit consideration of alternative means of accomplishing a mission**

Strategic Doctrine I

■ Damage Limitation

- Counterforce Targeting
 - Strategic Force Targeting
- Active Defense
 - ABM
 - Air Defense
- Passive Defense
 - Civil Defense

Counterforce Mission

CEP	Number of Warheads per Target (95% probability of kill)		
	Yield		
	500kt	1Mt	5Mt
.1 miles	1	1	1
.5 miles	9	6	2
1 mile	36	23	8

* Assumes target hardness = 300 psi

Nike-X ABM

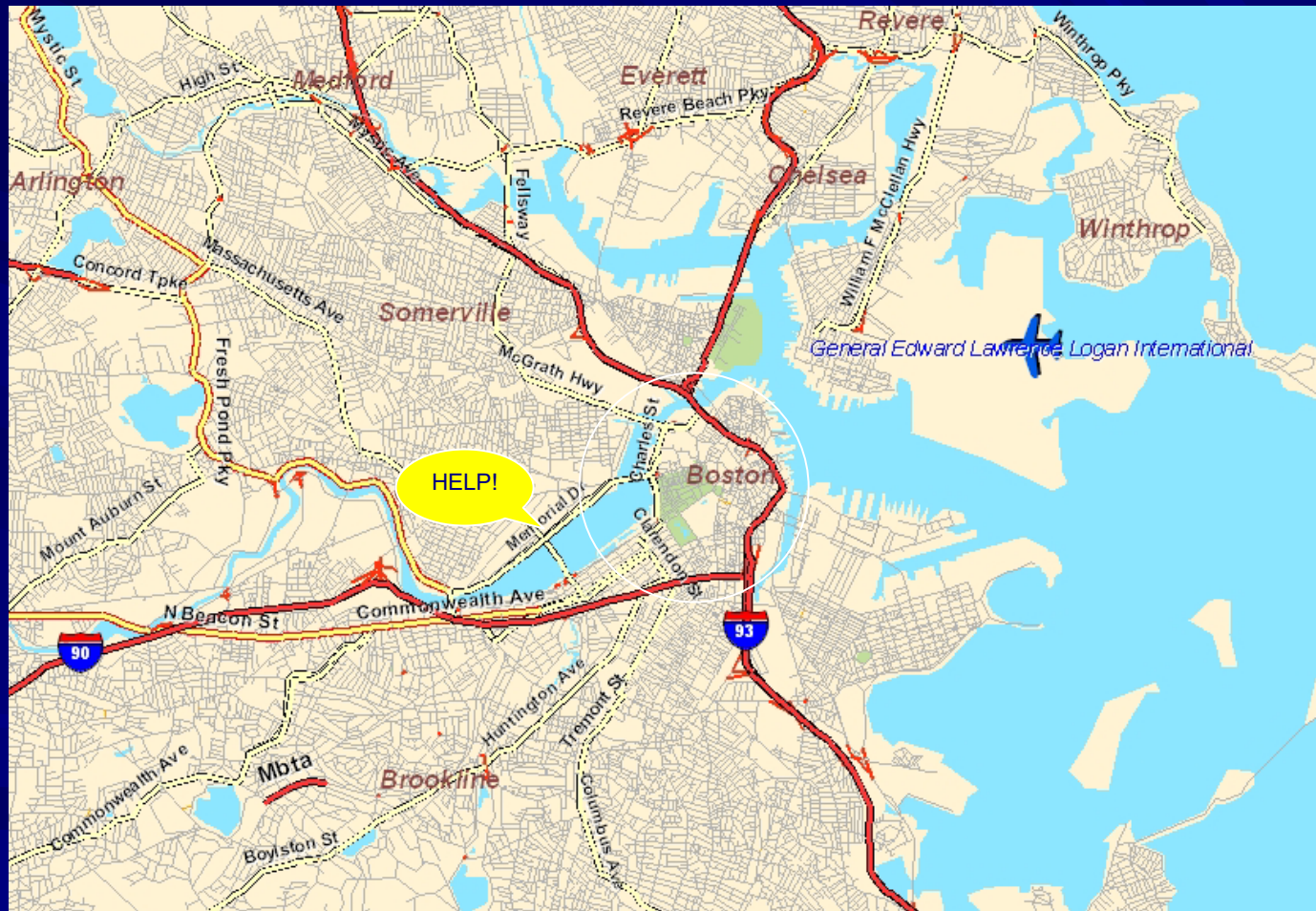
- Nuclear anti-missiles
- Exo-atmosphere intercept
- Atmospheric intercept

Strategic Doctrine II

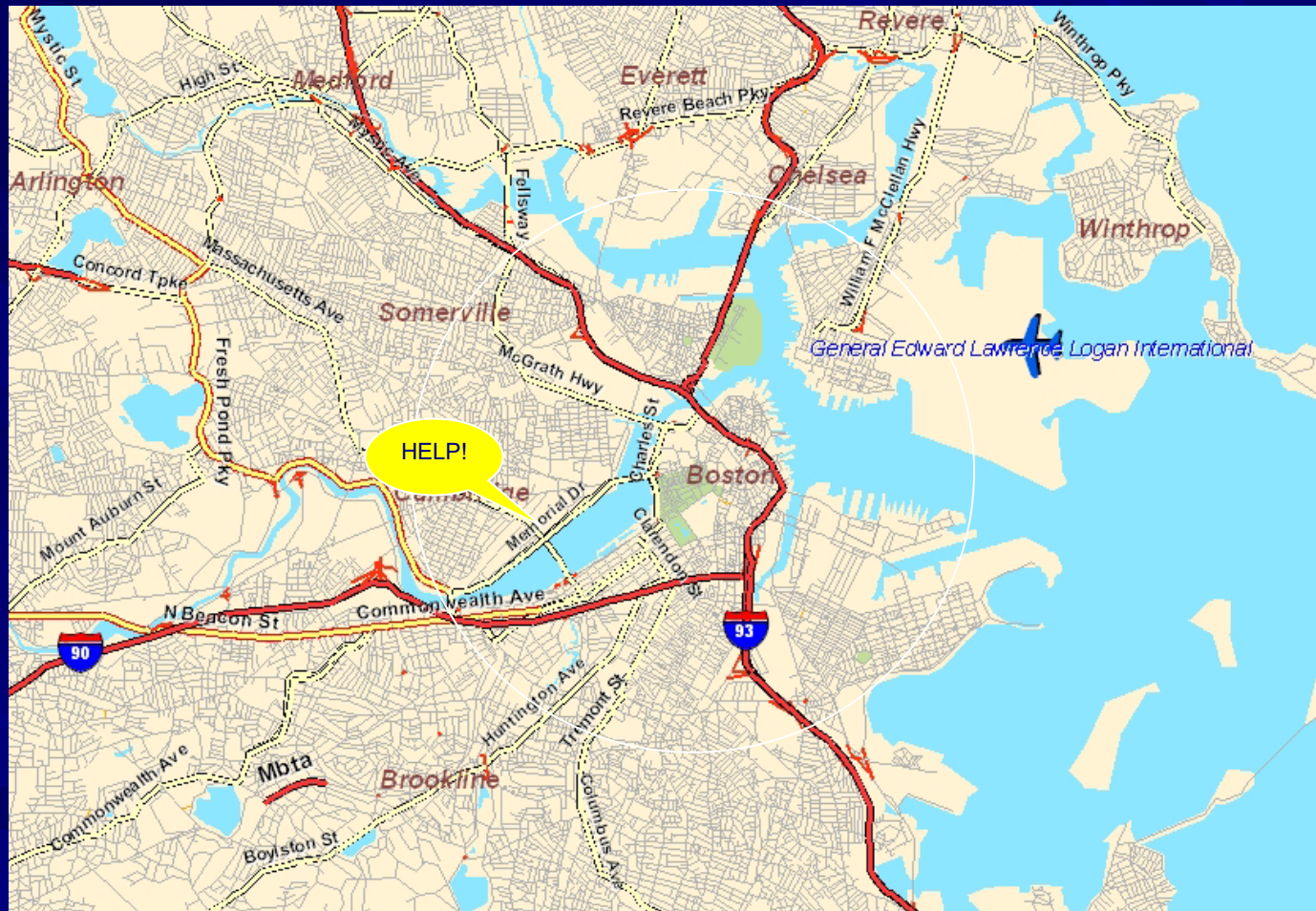
■ Assured Destruction

- Deterrence via secure second strike capability
 - City Targeting (counter value targeting)
 - Strategic triad
- How Much is Enough?

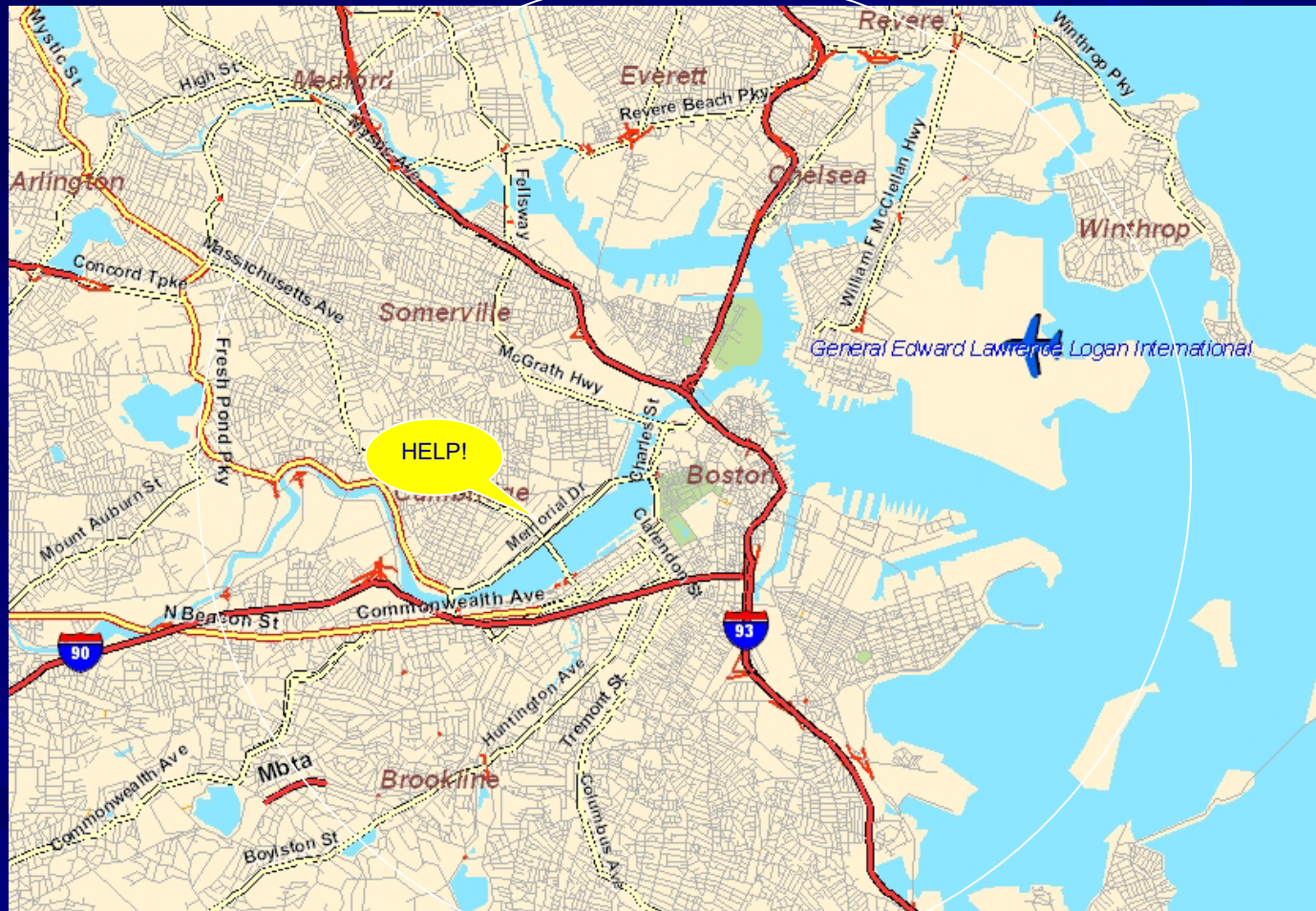
Lethal Area for a 14kt Nuclear Blast



Lethal Area for a 200kt Nuclear Blast

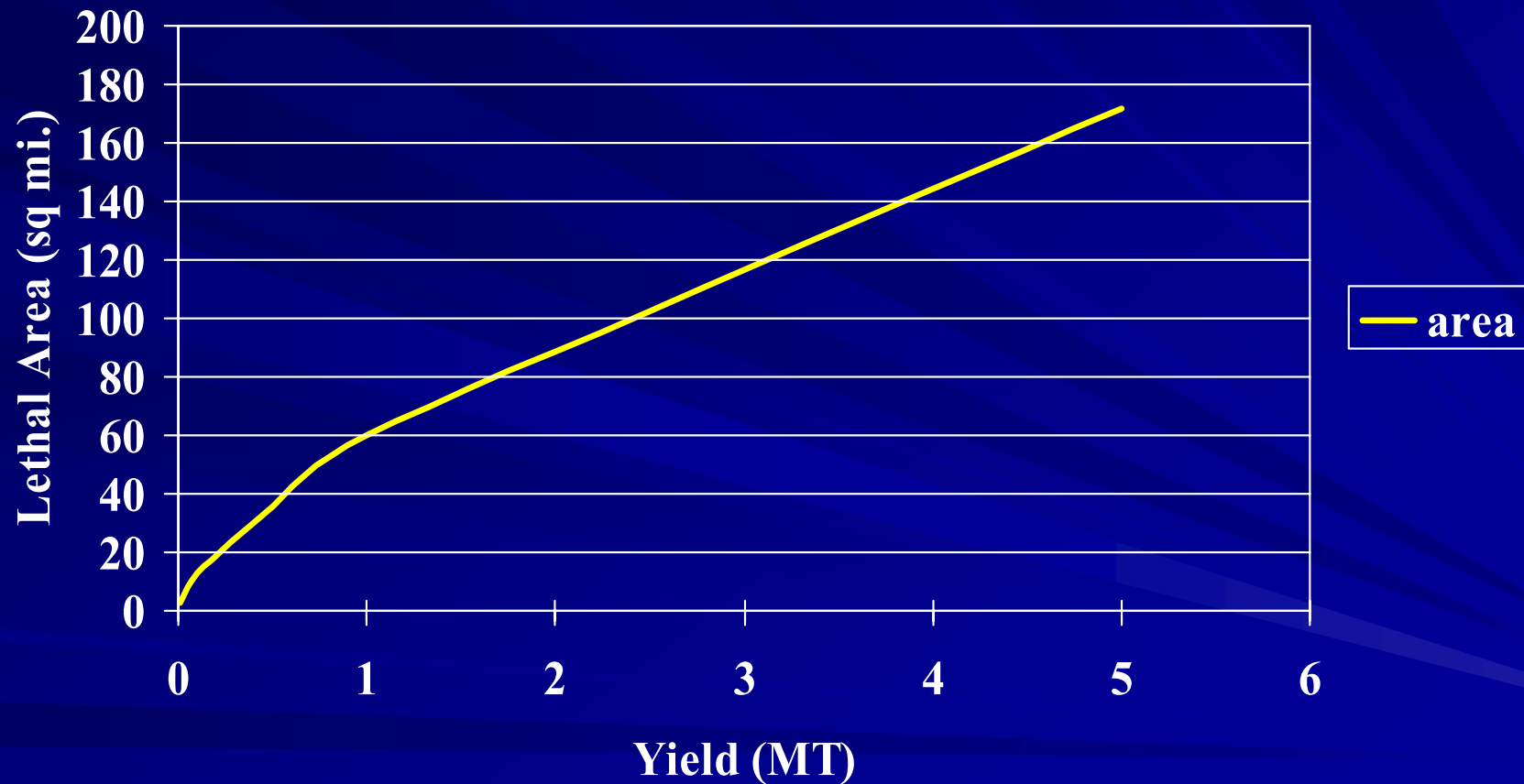


Lethal Area for a 1mt Nuclear Blast



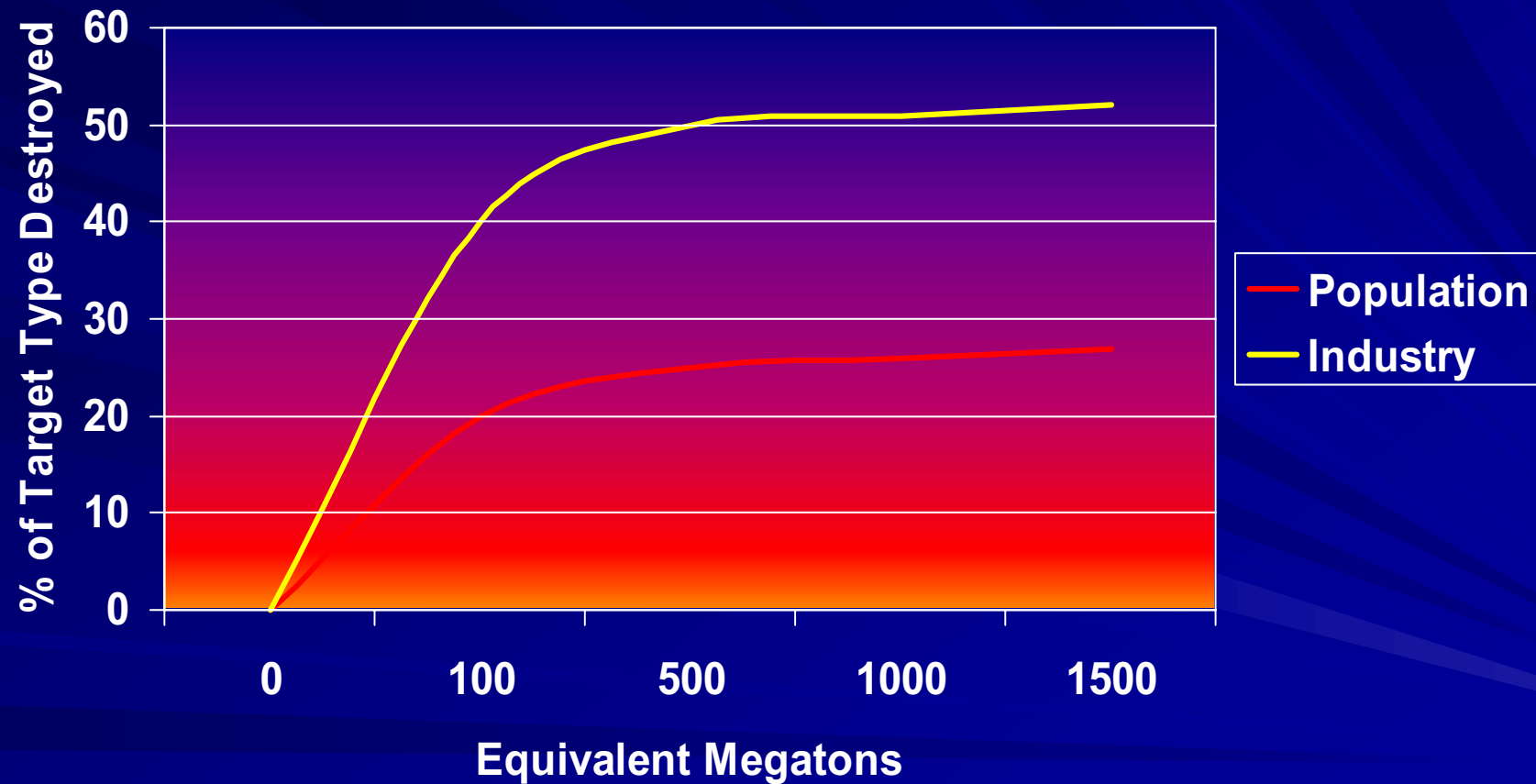
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Lethal Effects Against Soft Targets



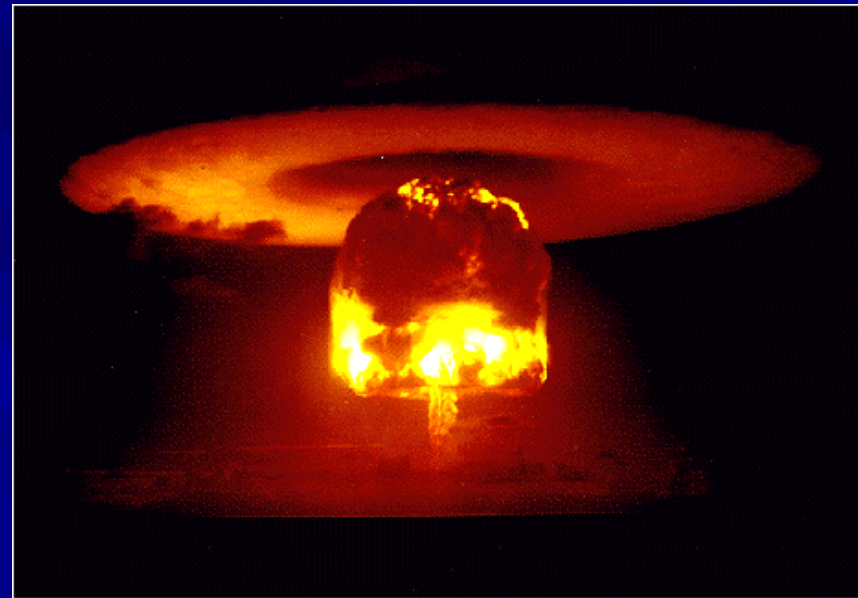
■ $EMT = \sum y^{2/3}$

Assured Destruction



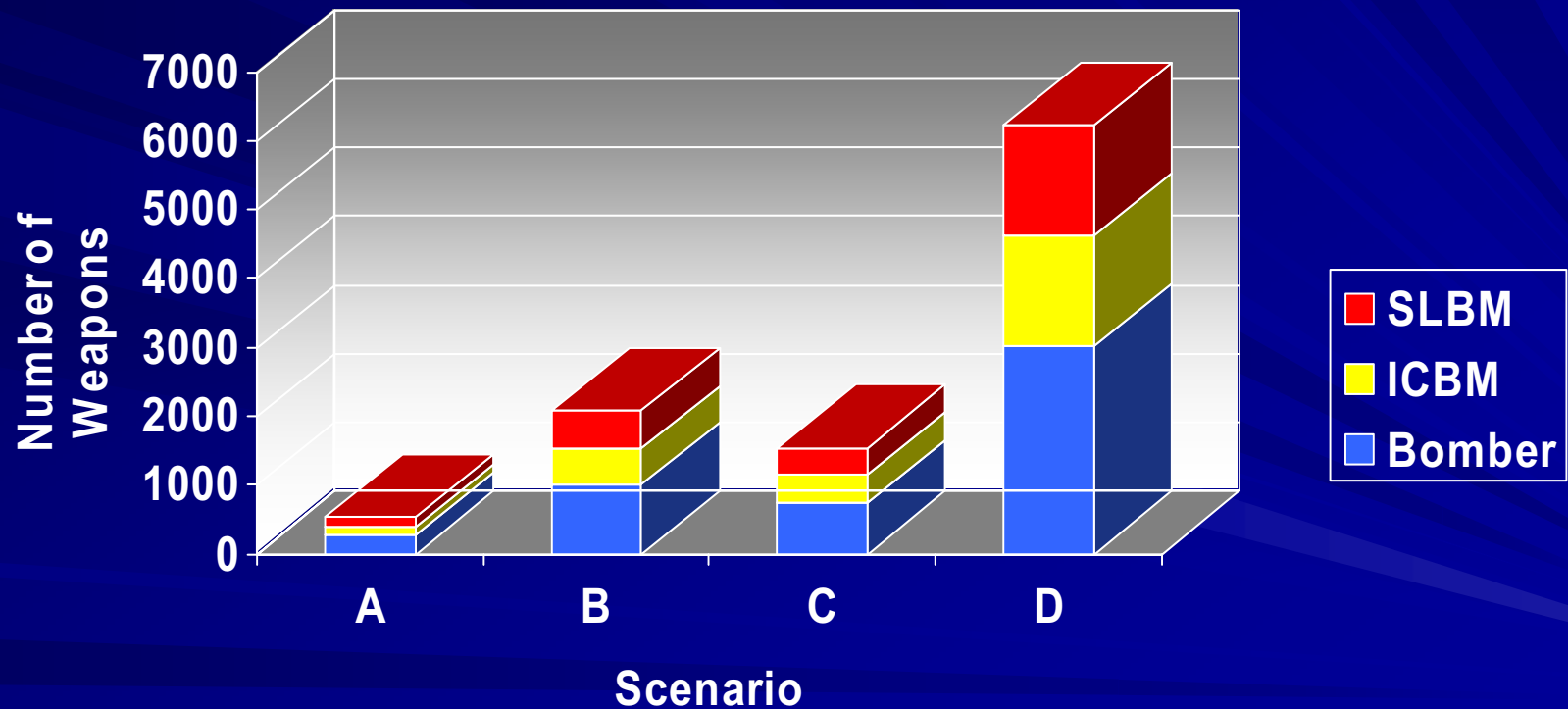
Triad Sensitivity

■ Probability Analysis



Strategic Triad

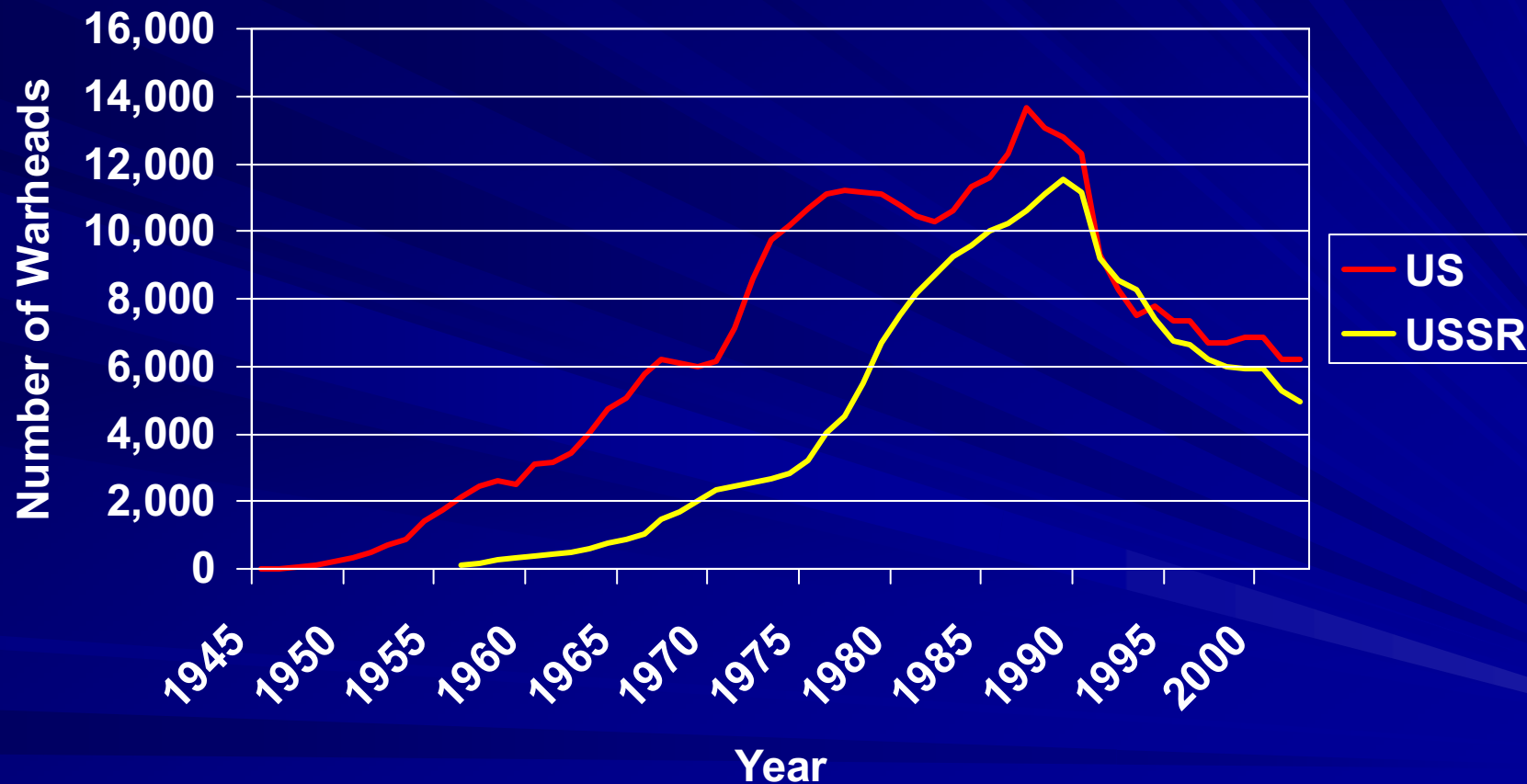
SNDVs Needed to Kill 400 Targets
95% Confidence



Strategic Balance - 1961

	US	Soviet Union
ICBMs	100	5
SLBMs	48	150 SR-SLBMs
Bombers	600	210
Weapons	1800	<375

US & Soviet Strategic Forces



Events

- French A-bomb (1960)
- Congo Crisis (1960)
- U2 Shoot Down (1960)
- Bay of Pigs (4/1961)
- Vietnam (1961)
- Berlin Wall (8/61)
- Cuban Missile Crisis (1962)
- LTBT (1962)
- Vietnam Coup (1963)
- Hot-Line Agreement (1963)
- Kennedy Assassinated (1963)
- China A-bomb (1964)
- Vietnam (1964)

END

Cuba (1961-1962)



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B52 Bomber



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Minuteman ICBM



Polaris SSBN/SLBM



Photo # USN 1116556 USS George Washington Carver at sea

Strategic Balance -1970

	US	Soviet Union
ICBMs/RVs (MIRVs)	1054/1074 (30)	1420/1420 (0)
SSBNs[SLBMs]/ RVs(MIRVs)	41[656]/800 (160)	20/289/289 (0)
Bombers/Weapon s	465/2200	140/200
Weapons	4074	1849