AGENDA

- USSTRATCOM mission and roles
- M&S Components
- M&S Current Technologies
- M&S Future Directions
THE MISSION OF STRATEGIC COMMAND

Deter major military attack on the United States and its allies; and if deterrence fails, employ forces
UNITED STATES STRATEGIC COMMAND

A War Preventer

- Deter major military attack, and if deterrence fails, employ forces

A Planner

- Integrate strategic deterrence policies and requirements, thereby linking planning and execution. Provide planning support to regional CINCs

An Advocate

- Primary voice for strategic force structure, modernization, and arms control implications
POST COLD WAR CHALLENGES

- Turmoil in FSU
- Arms Control
- Strategic Deterrence
- WMD Counter Proliferation
- Nuclear Stockpile Stewardship
- Strategic Force Modernization
- Hard and Deeply Buried Target Proliferation
CURRENT TECHNOLOGIES

For Distributed Collaborative Planning/Analysis (DCP/A):

- Theater Integrated Planning System (TIPS)
- Common Operational Modeling, Planning, and Simulation Strategy (COMPASS)
- Collaborative Contingency Targeting (CCT)
For Counterproliferation/Proliferation Path/Nodal Analysis:

- Counterproliferation Analysis and Planning System (CAPS)
For weapon lethality/target vulnerability analysis:

- Air Force Research Lab’s Modular Effectiveness Vulnerability Assessment (MEVA) - a deliberate planning tool
- Defense Threat Reduction Agency’s Munitions Effects Assessment (MEA) - a crisis action planning tool
- Probability of Damage Calculator (PDCALC)
For Consequence Analysis:

- Hazard Prediction Assessment Capability & Fallout Assessment System/Civilian Vulnerability Indicator Code (HPAC & FAS/CIVIC)
  - Nuclear & conventional weapons on NBC facilities
  - Atmospheric transport and dispersion
  - Casualty prediction

Anthrax Dispersion in HPAC
MISSION ENVIRONMENT

DIIR COE
COMPLIANCE

DCP/A

VIRTUAL
COMMAND
CENTER

COMMON
DATA

V&V

MULTILEVEL
SECURITY
FUTURE DIRECTIONS

*Increased fidelity in modeling:*
- Atmospheric transport & dispersion
  - More accurate incorporation of meteorology
- Relocatable targets
- Underground targets in hardened geologies
- Population distribution

*New Areas:*
- Strategic Exercise Simulation
- Information operations analysis
- Atmospheric transport and dispersion in urban terrain
- Secondary Nuclear Effects