

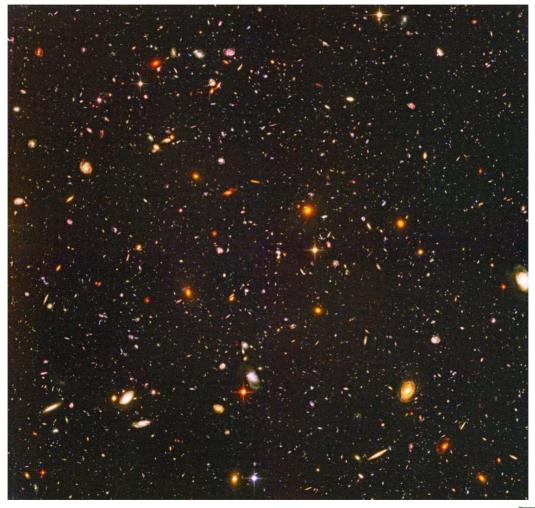
## CBDP Decision Support Tools and Methodologies

Mr. Scott Cahoon October 26, 2005



## **CB Decision Support Tools and Methodologies – In the Beginning**







## **CB Decision Support Tools and Methodologies – The IDA Epoch**







# CB Decision Support Tools and Methodologies – The IDA Study Recommendations



- Proactive consumers of CB analysis
- Cadre of trained military and civilian analysts who are prepared to address the issues
- Center of this activity must reside in centralized location
- Technical CB library dealing with weapon effects technology, common models, community communications
- Spectrum of enhanced analytical capabilities to address evolving CB issues



## **CB Decision Support Tools and Methodologies – The Roadmap**

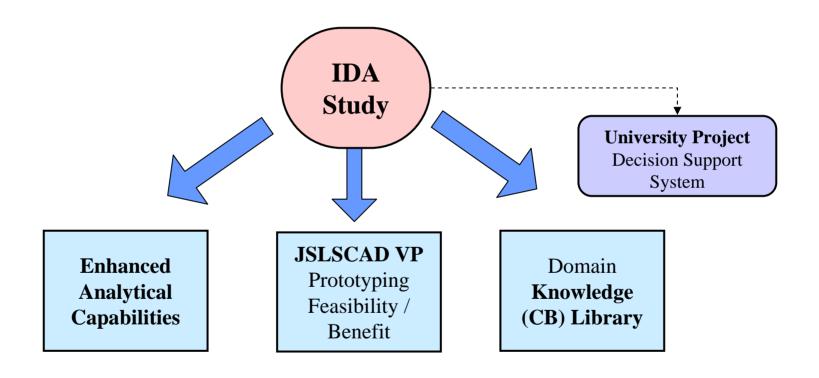


- Formulate a program of studies
- Define/explore options to develop a technical CB library that captures environmental and CBD system performance models
- Initiate efforts to enhance analytical capabilities



#### CB Decision Support Tools and Methodologies Thrust Area Assessment

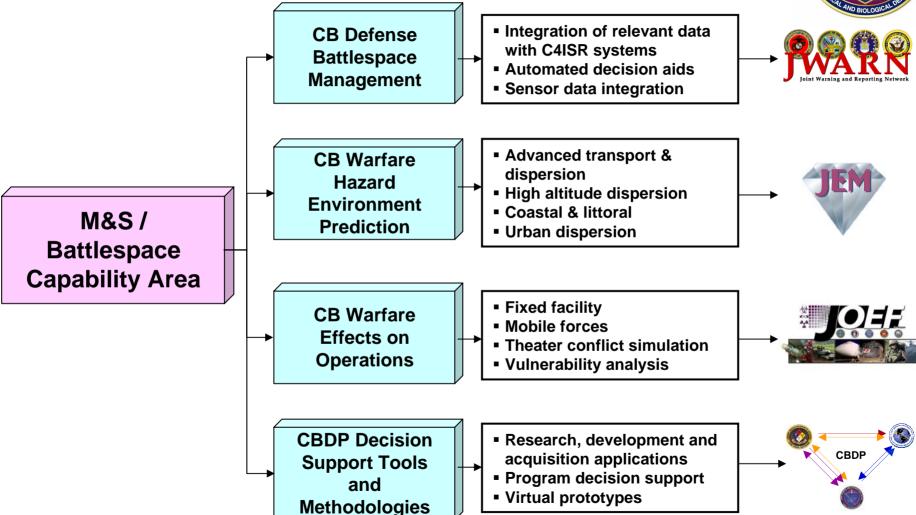






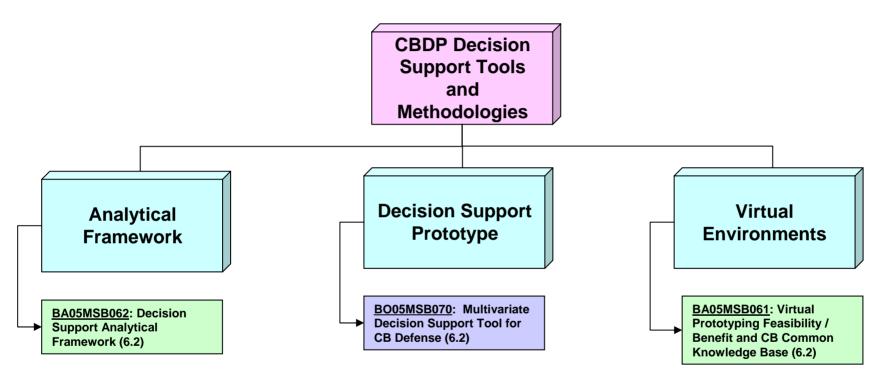
#### Modeling & Simulation / Battlespace Capability Area Breakdown





#### CB Decision Support Tools and Methodologies Thrust Area Taxonomy







#### CB Decision Support Tools and Methodologies Thrust Area Highlights



- Rapid analysis capability
  - Dial-in threat scenario
  - Gather and input data
  - Rapid baselining
  - Identify gap you are addressing
  - Multi-variate analysis tool
- Common methodology and metrics for determining success and/or failure of CBDP tools and systems
- CBDP knowledge management
- Role of virtual prototyping / virtual environments
- Transition of simulation tools





#### **Questions?**





#### **Back-up Slides**



#### **Acronyms and Definitions**

- CBDP (CB) Chemical Biological Defense Program
- C4ISR Command, Control, Communications, Computer, Intelligence, Surveillance and Reconnaissance
- CBR Chemical, Biological, Radiological
- COTS Commercial Off-The-Shelf
- DTRA/ASCO Defense Threat Reduction Agency / Advanced Systems Concepts Office
- ECBC Edgewood Chemical Biological Center
- **IDA** Institute for Defense Analyses
- JPM-IS Joint Program Manager Information Systems
- JSLSCAD Joint Service Lightweight Stand-off Chemical Agent Detector
- MSB (M&S/Battlespace) Modeling and Simulation / Battlespace
- **RDA** Research Development and Acquisition
- RDT&E Research, Development Testing and Evaluation
- **T&E** Testing and Evaluation
- •S&T Science and Technology
- UNM/NMSU University of New Mexico / New Mexico State University
- VP Virtual Prototypes; Virtual Prototyping

