JPEO & Technology Integration

How do I get the Cheese?

PRESENTED TO:
Chemical Biological Individual Protection Conference
Charleston, SC
March 8, 2006

CURT WILHIDE
Chief, Advanced Technology
JPEO CBD
703.681.1607
Curt.Wilhide@jpeocbd.osd.mil
“A hiatus exists between the inventor who knows what they could invent, if they only knew what was wanted, and the soldiers who knew, or ought to know, what they want and would ask for it if they only knew how much science could do for them. You have never really bridged that gap yet.”

Winston Churchill

_The Great War, Vol. 4_
Vision

Develop and Sustain a Comprehensive, Agile, and Flexible Materiel Development framework that:

- Provides integrated, modular, network-centric material responses to operational capability needs
- Provides Multiple Program, Agency, Vendor Access
- Integrates Major Defense Acquisition Programs and CBD Program execution
- Changes the culture from the bottom up through the emphasis on system of systems approach across commodity lines, experimentation, and operational prototyping
- Discovers, creates, or causes to be created new military capabilities to mitigate CBRN operational risks
Integration Drivers

- **Shape Future Force Agility, Flexibility and Capability**
  - Common Interfaces for System of Systems
  - Modular, Tailorable, and Networked
  - Broad Spectrum Capability for Complex CBRNE Environment

- **Ensure Program Alignment and Relevance**
  - Shape MDAP CBRN Survivability Solutions
  - Technology Transition Agreement
  - Technology Readiness Assessment

- **Define S&T Strategy**
  - Traceability
  - Transformation
  - Manage Risk
Capability Development Framework
To Support Transformation and Manage Risk

Transformation = Capability + Innovation + Integration
Shift the Program Center of Gravity and Manage Risk
Integrated CBRN Network-Centric Approach

Integrated layered capability provides improved CBR mitigation, greater operational capability potentially easing component requirements.
Joint Program Executive Office for Chemical and Biological Defense

Integrated Transition Process

- Multi-Agency, Vendor Opportunities
- Multiple Transition Opportunities
- Technology Readiness Assessment creates an objective playing field

ATD: Advanced Technology Demonstration
LOE: Limited Objective Experiment
LUA: Limited Utility Assessment
NSERP: Non-Standard Equipment Review Panel
TRE: Technology Readiness Evaluation
Technology Development and Review

JSTO

Basic Research

Applied Research

Technology Development

JRO

CBRND

ICD

CDD

CPD

TQA

Transition Quarterly Review

TRE

Technology Readiness Evaluation

JPEO CBD

Joint Project Manager

S&T Needs

CDD: Capability Development Document
CPD: Capability Production Document
ICD: Initial Capabilities Document
TQR: Transition Quarterly Review
TRE: Technology Readiness Evaluation
TTA: Technology Transition Agreement
Technology Transition Agreement

- Required for 6.3 Programs
  - Identifies Target Program of Record
  - Concept of Use
  - Traceability
- Technology Development Strategy \(\rightarrow\) Acquisition Strategy
- Test and Evaluation Strategy \(\rightarrow\) TEMP
- Contains Information Necessary to Conduct Technology Readiness Assessment (TRA)
  - Exit Criteria (to Include defined Technology Readiness Levels)
  - Receiver Operator Characteristic (ROC) Curve/ Spider Chart (s)
    - Metrics
    - Attributes
- Agreement Between the JPM and CAPO with Joint T&E Executive coordination

TTAs for FY06 6.3 Programs Almost Complete
Sources for Capability Development

Requirements/ Capability Pull

1. JPM Need
2. JPM/CAPO Agreement
3. BAA
4. Joint Proposal Review
5. TTA Development
6. JPM Coordination
7. TTA Coordination
8. TTA Approval
9. Execution

Technology Push

1. JSTO Proposal
2. CAPO/JPM Agreement
3. Final Proposal
4. Joint Project Approval
5. TTA Development
6. JPM Coordination
7. TTA Coordination
8. TTA Approval
9. Execution
What is Next

• Advanced Planning Briefing for Industry
  – 10-11 April 2006
  – Acquisition and S&T Joint Presentation
  – Access and Opportunities with Acquisition and S&T Managers

• Joint Science and Technology Solicitations
  – BAA: Pending for future work

• Joint Program Executive Office Web Portal