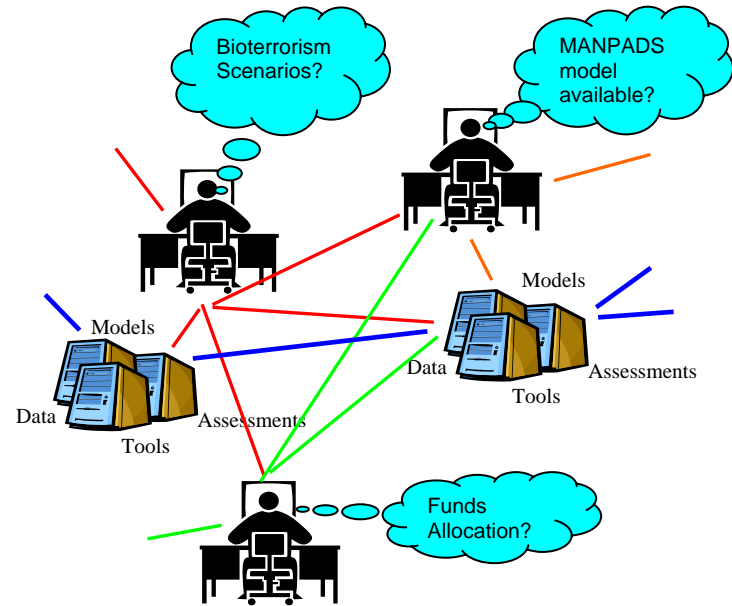


**The Risk Analysis Workbench (RAW)**  
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RAW is a software platform that enables policy/decision-makers and risk analysts to share computing tools, models, data, analysis and results, and supports each in their unique roles and needs in risk-sensitive assessments and planning.

**Brief Description:**

The Risk Analysis Workbench (RAW) is a software tool for policy/decision-makers and risk analysts, enabling synergies which help both more effectively perform their individual roles in assessing terrorism threats and evaluating strategies for countering those terrorist threats. Its coverage spans risk assessments and models, decision support tools, scenario and threat definitions, supporting data, and presentation and review tools. The workbench is being developed to also enable integration of different risk and consequence models in a common user and data set management interface.



Risk Analysts' Workbench (RAW)

**Objectives:**

- Integrate additional resources from CREATE, FAZD, START, PACER, and other DHS sponsored Centers of Excellence into the RAW framework
- Complete development of system administration/maintenance component
- Update user authentication and security logic to fully support restricted user access and prevent unauthorized use of RAW resources
- Provide support for server-based execution of applications to reduce need for local computing facilities
- Complete development of the Common Modeling Environment (CME) prototype. CME facilitates both automated and human-mediated linking of models, data, and other resources found in RAW into one or more composite systems to answer risk-based questions
- Refine education support and deploy in classroom environments
- Develop initial semantic network-based search capability

**Interfaces to other Center Projects:**

RAW integrates tools, data, and assessments from many sources, including the MANPADS case study, dirty bomb attack assessments, and one or more case studies from the bioterrorism and border security projects, and subcontractors.

**Interfaces to non-Center Projects:**

RAW includes tools, data, and risk/threat assessments from several case studies from the DHS sponsored National Center of Foreign Animal and Zoonotic Diseases Defense (FAZD) center at

Texas A&M, the DHS sponsored National Consortium for the Study of Terrorism and Responses to Terrorism (START) at the University of Maryland, and will be extended to other Centers and agencies.

**Major Products and Customers:**

- Production software that support analysis of MANPADS threats, selected bioterrorism threats, selected economic models, selected foreign animal disease threats, and selected border security threats
- Access via the DHS University Network of Centers web page
- Production software that includes a common-look-and-feel user interface that aids the risk analyst/researcher and policy/decision-makers
- RAW server containing CREATE, FAZD, START, and other DHS Center of Excellence produced models, software, data, and reports
- Initial Common Modeling Environment (CME) infrastructure and a proof-of-concept application
- Enhanced web-based education support
- Complete RAW documentation, including Concept of Operations (ConOps), requirements specification, detailed design specifications, test manual and reports, and user's and system maintenance/admin manuals

The intended customers include the following:

- CREATE, FAZD and other Centers of Excellence researchers
- State and local government decision-makers
- DHS researchers and decision-makers

**Technical Approach:**

1. Update design and software based on user feedback
2. Develop release 4.0
3. Develop and deploy next phase of education support module (Release 4.1)
4. Complete development of Common Modeling Environment (CME) prototype

**Major Milestones and Dates:**

1. RAW Release 4.0 –Nov 2008