

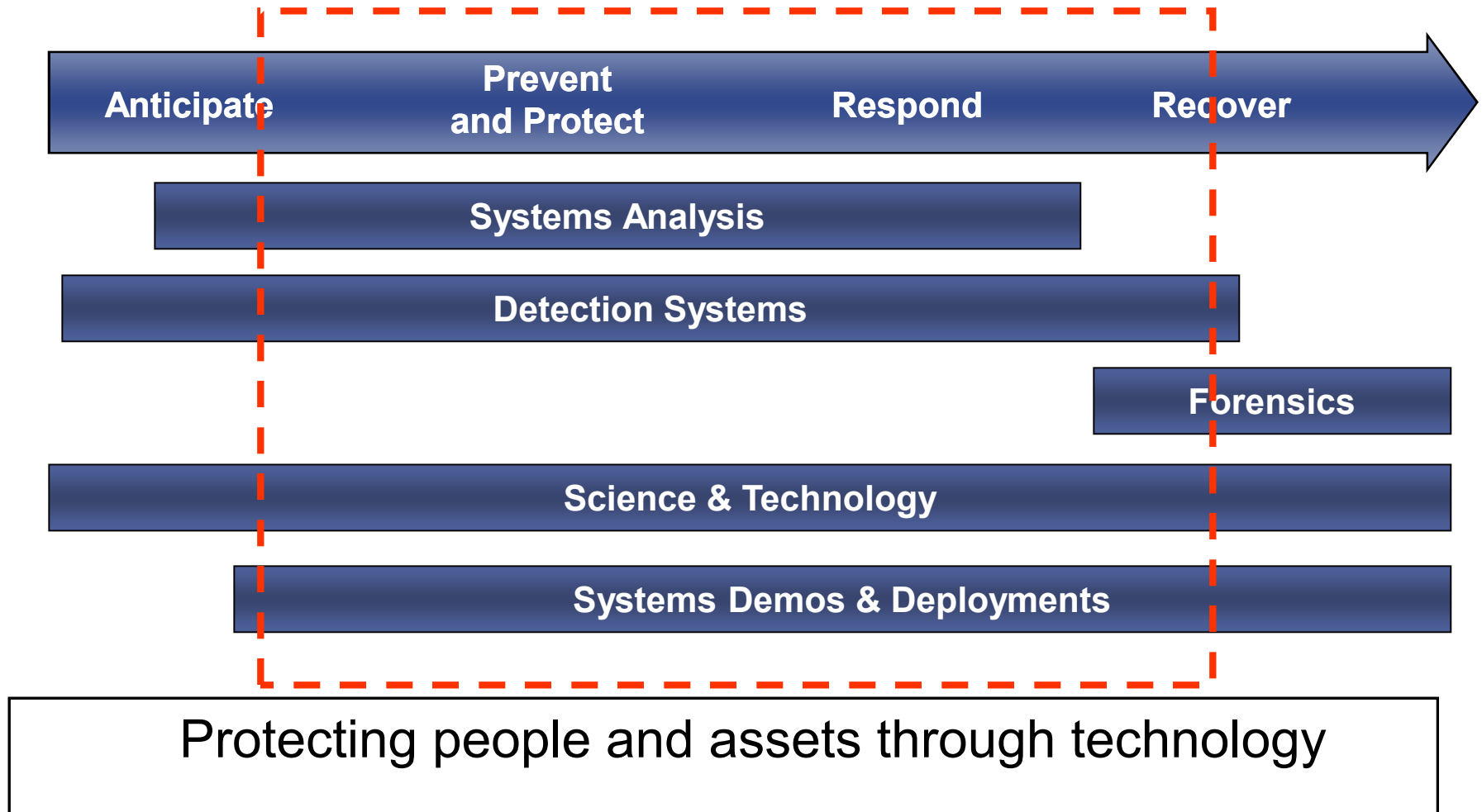
# Venue Assessments and Protection

Sandia National Laboratories

Advanced Systems Deployment 8124

“Protecting People and Assets through Technology”

# Venue Assessments and Protection is a subset of our CBRN portfolio



# Venue assessments and Protection has a three step approach to the facility challenge

## **1. Characterize the Threat**

- What are the most likely threats – what might a terrorist use
- Determine what is the greatest concern for venues – what are the specific threats and vulnerabilities for venues

## **2. Assess the Venue**

- What are the vulnerabilities – is there a need for additional security?
- Prevention and mitigation strategies - what can be done for little or no cost?
- Identify improvements and response plans for heightened security

## **3. Deploy Solutions**

- Develop specific response plans
- Support response training and exercises
- Provide special event support
- Recommend technology upgrades

# **Prioritize the threat**

## **What is the concern for your venue**

### **Viable threats:**

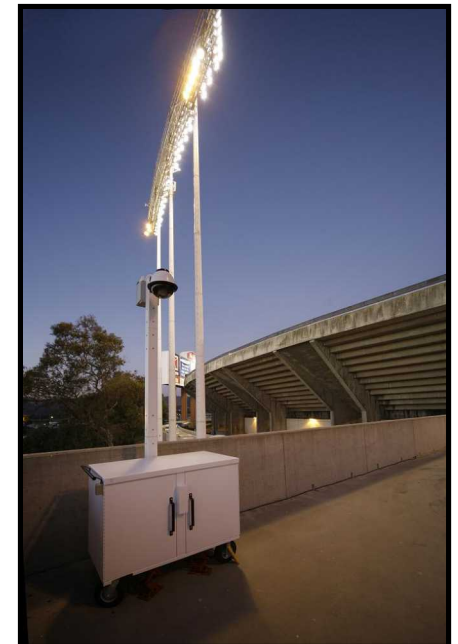
- Explosives
- Toxic Industrial Chemicals
- Chemical Warfare Agents
- Biological Agent
- Combination of Methods
- Nuclear Device

### **Threat considerations:**

- Lethality
- Ease of access and use
- Dispersal methods
- Persistence
- Fiscal Impact
- Psychological Impact

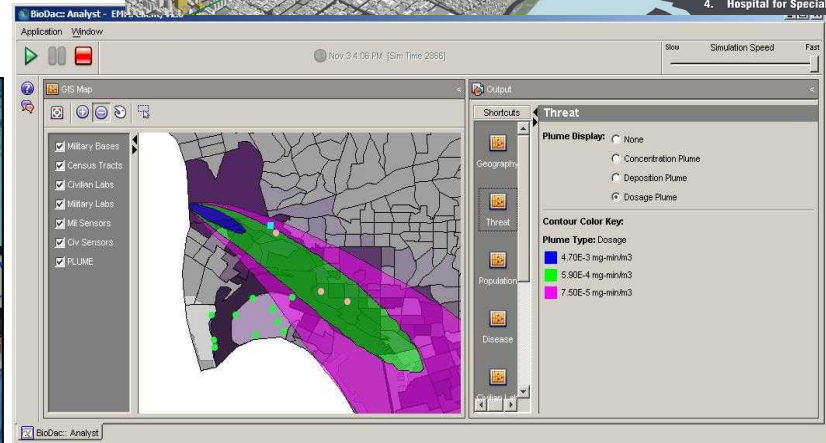
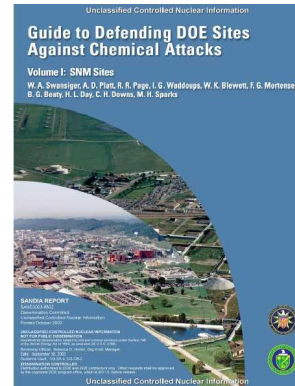
# Assessing the Venue; Gathering Data

- Potential Targets
- Force deployment/response
- Facility characteristics
  - Location of air intakes, mechanical equipment rooms, etc.
  - Air-change rates
- Relevant site characteristics
  - Meteorology
  - Terrain
  - Proximity to roads



# Tools for assessing the venue

- Reports from past assessments
- Weapons of Mass Destruction Decision Analysis Center (WMD DAC )
- Reference Scenarios
- Risk analysis
- NISAC (National...)
- Dispersion modeling



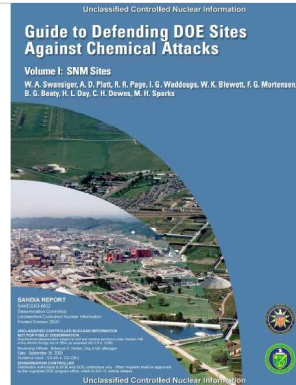


# Deploying Solutions

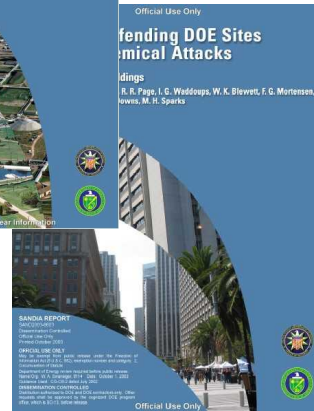
## Leverage previous investments



PROACT and PROTECT – Chem/Bio Protection of Airports and Subways



Chemical Defense of DOE Facilities



RDCDS – Deployable Chem Detection



Chem Restoration with other National Lab consortium



Liquid-Phase  $\mu$ ChemLab rapid, reliable identification of potential bioagent hazards

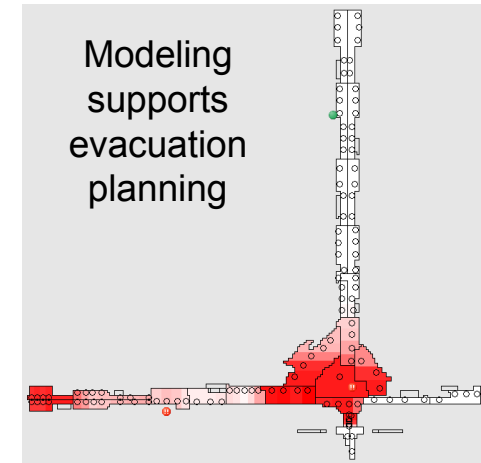


Explosives Detection Portal

# Venue specific response plans

Response is the most important aspect of venue protection

- Develop response plans with responders
  - Use the results from the vulnerability and threat assessments
  - Develop threat specific actionable responses
  - Identify and document roles and responsibilities
  - Establish key points of contact and contact information
  - Share results with stakeholders





# Venue Analysis and Protection capabilities range from recommendations to deployments

- **A system solution**
  - Awareness, training, education and response plans are as important as detection technologies for venue protection.
- **Phased approach to protection**
  - Threat characterization
  - Venue/Facility vulnerability analysis
  - Protective measures
  - Defensive architectures, training and effective response plans
  - Resource allocation
  - Detection technologies and responses
  - Restoration resources

