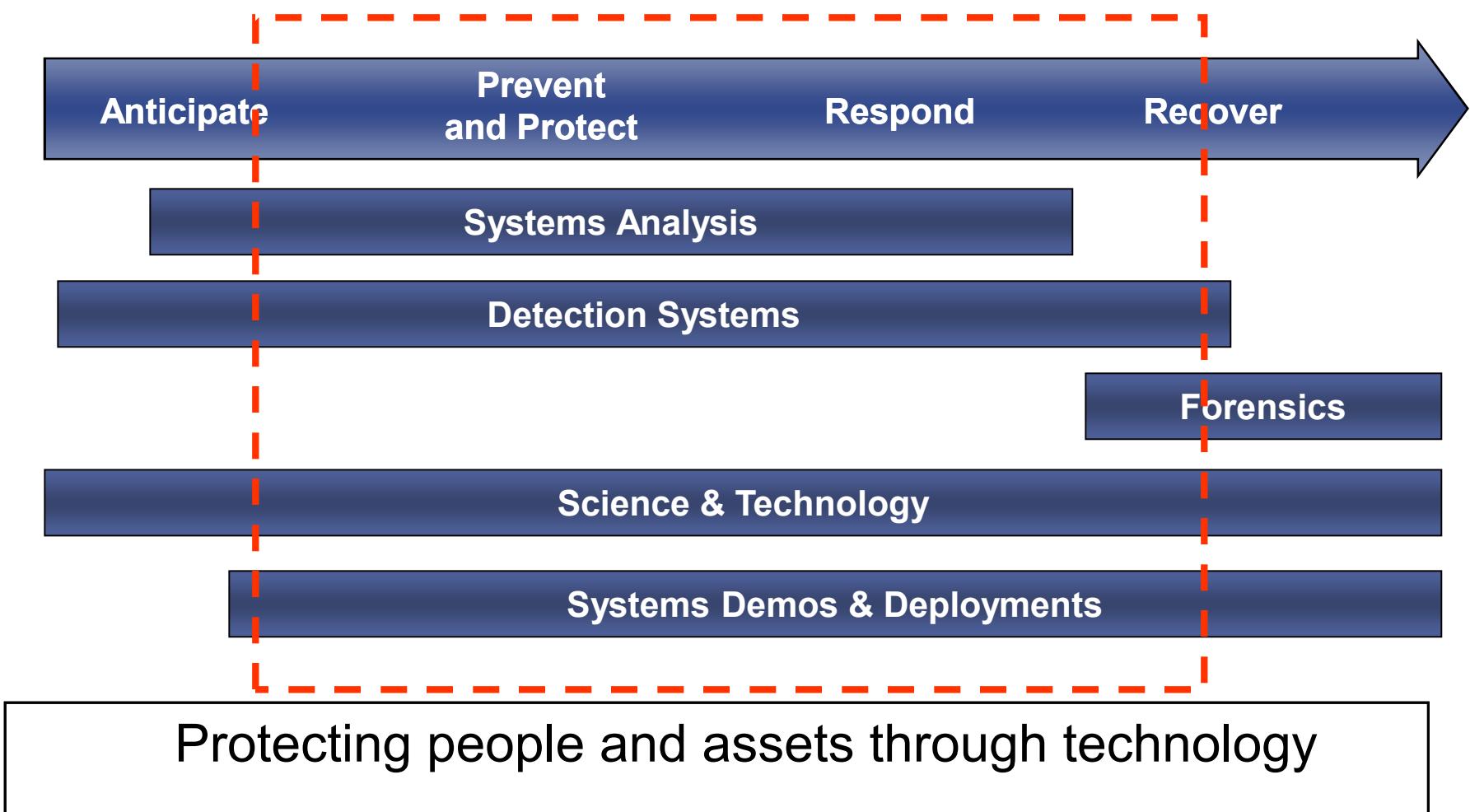


Venue Assessments and Protection

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

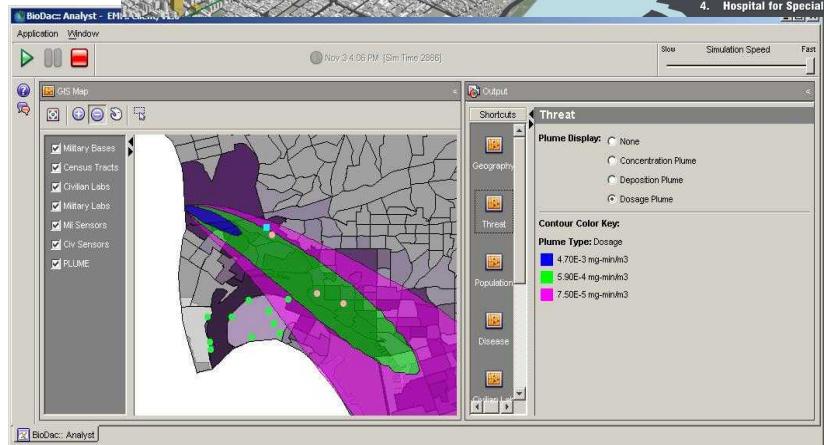
Assessing the Venue; Gathering Data

- 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

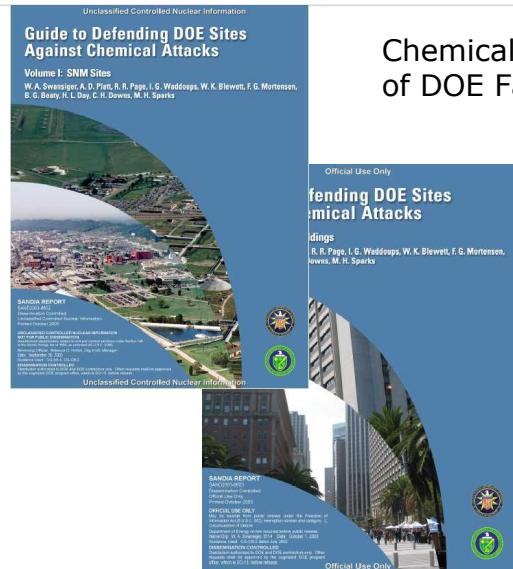
- Reports from past assessments
- Weapons of Mass Destruction Decision Analysis Center (WMD DAC)
- Reference Scenarios
- Risk analysis
- NISAC (National...)
- Dispersion modeling



Deploying Solutions Leverage previous investments



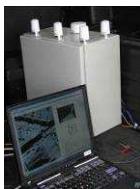
PROACT and PROTECT – Chem/Bio
Protection of Airports and Subways



Chemical Defense
of DOE Facilities



RDCDS –
Deployable
Chem
Detection



Chem Restoration with
other National Lab
consortium



Liquid-Phase μ ChemLab
rapid, reliable
identification of potential
bioagent hazards

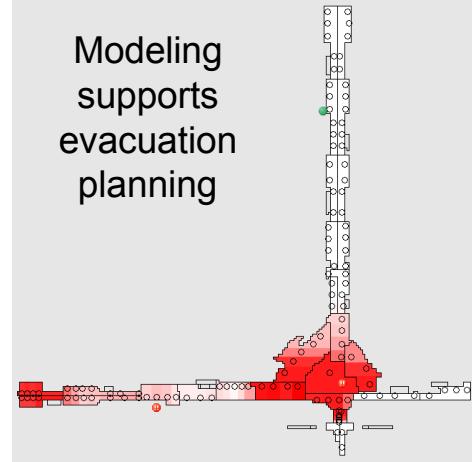


Explosives Detection Portal

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

