

The Office of Infrastructure Protection

National Protection and Programs Directorate
Department of Homeland Security

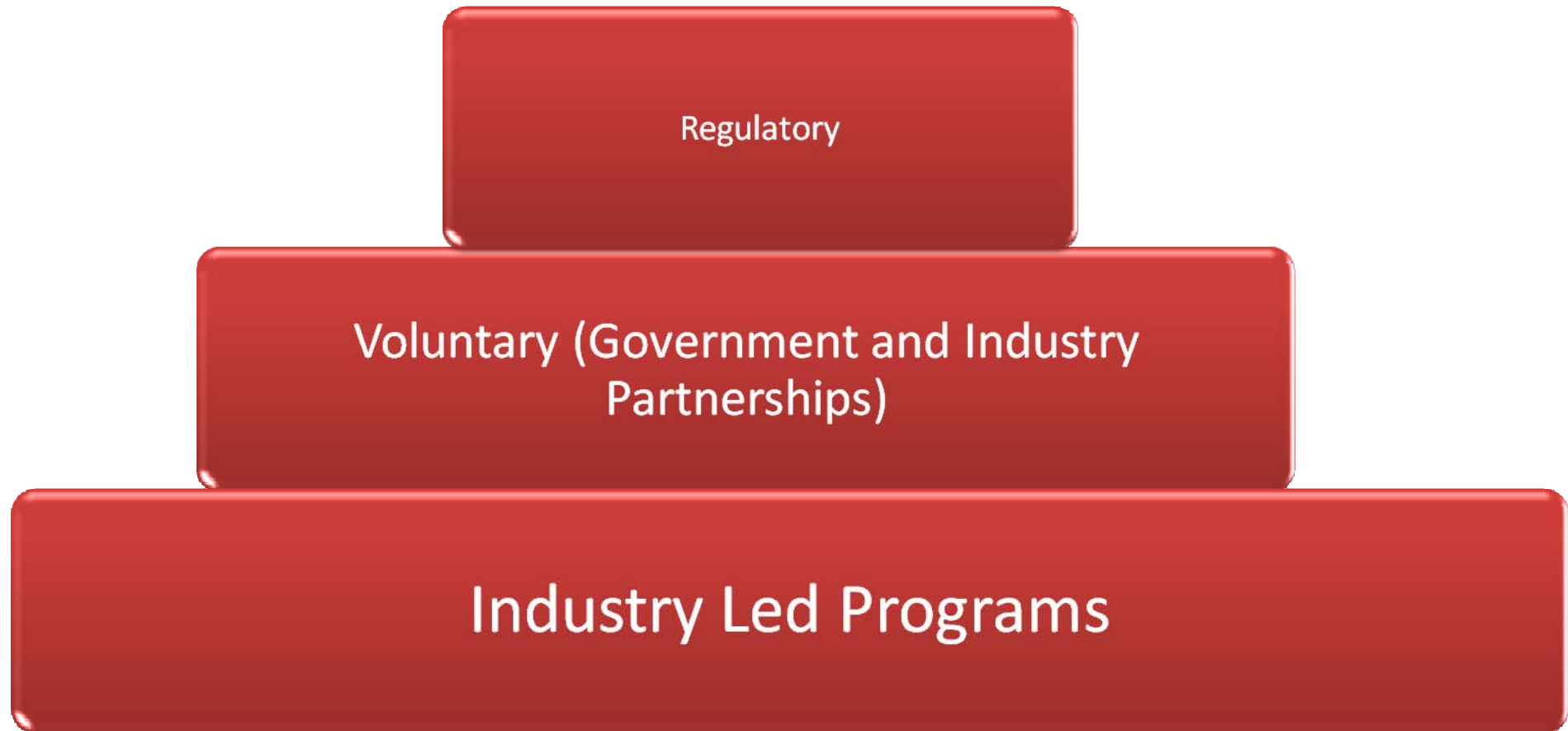
Organisation for the Prohibition of Chemical Weapons

September 13, 2011



Homeland
Security

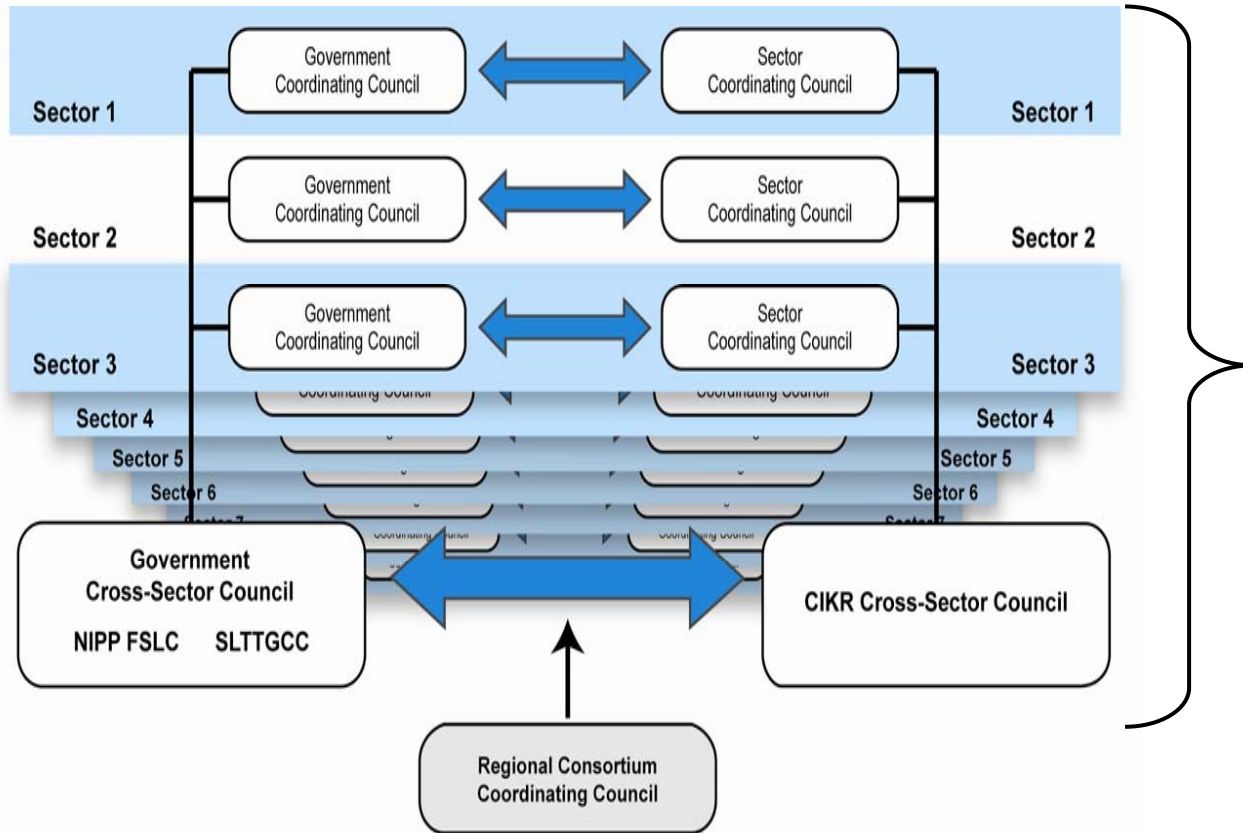
Overall Landscape



National Infrastructure Protection Plan

- A comprehensive and unifying framework for the Government and private sector to improve protection and resilience of critical infrastructure.
- All-hazards approach.
- Provides a unifying framework for 18 unique sectors, ranging from asset-focused to system- and network-focused.
- Coordinates efforts of Federal partners; owners and operators; and State, local, tribal and territorial governments.
- Outlines roles and responsibilities.
- Describes the information-sharing environment and communications.

Sector Partnership Model

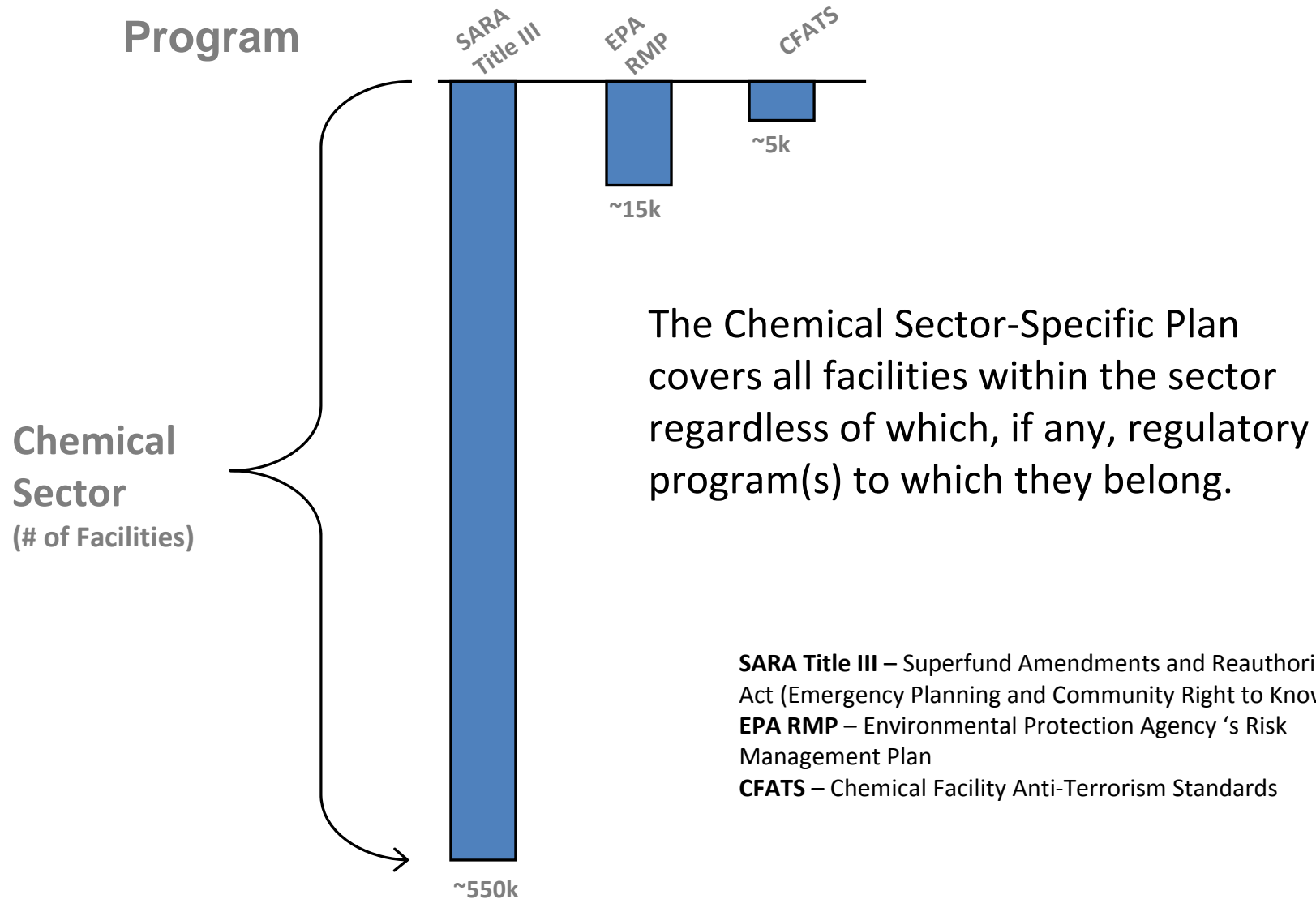


Council functions include comprehensive planning, methodology development, risk assessment, protective programs and resilience strategies, incident management, training, exercises, and identification of research and Ddevelopment requirements

Sector-Specific Agency

- The Sector Specific Agency (SSA) is the primary Federal entity responsible for coordinating the unified effort to protect against and mitigate the effects of risks to critical infrastructure within that sector.
- Work closely with government at all levels and with private sector partners to:
 - Develop protective security programs and resilience strategies;
 - Strengthen partnerships and improve information sharing;
 - Promote education, outreach, and training; and
 - Maintain awareness and communicate with critical infrastructure partners and senior leadership during an incident.
- The Department of Homeland Security (DHS) is the SSA for the Chemical Sector

Chemical Sector Size



Chemical Sector Coordinating Councils

Government	Private Sector
Department of Commerce Department of Defense Department of Energy Department of Health and Human Services Department of Homeland Security Department of Justice Department of Labor Department of Transportation Environmental Protection Agency Department of State Office of the Director of National Intelligence Chemical Safety Board State, Local, Tribal and Territorial Government Coordinating Council Liaisons	Agricultural Retailers Association American Chemistry Council American Coatings Association Chemical Producers & Distributors Association Compressed Gas Association CropLife America Institute of Makers of Explosives International Institute of Ammonia Refrigeration International Liquid Terminals Association National Association of Chemical Distributors National Petrochemical & Refiners Association Society of Chemical Manufacturers and Affiliates The Chlorine Institute The Fertilizer Institute

Chemical Sector Programs

▪ Information Sharing

▪ **Annual Chemical Sector Security Summit** – The Chemical SSA and the Sector Coordinating Council co-host an annual summit with workshops, presentations, and discussions on subjects of interest to the private sector. Topics for the event include: CFATS implementation, multi-agency harmonization, inspections process, local security resources, cybersecurity, transportation security, theft and diversion, personnel surety, and research and development activities.

▪ **Monthly suspicious activity calls** – The SSA sponsors a monthly unclassified teleconference where DHS briefs current physical and cyber threat information including suspicious activity reporting, overseas activity, and cyber vulnerabilities.

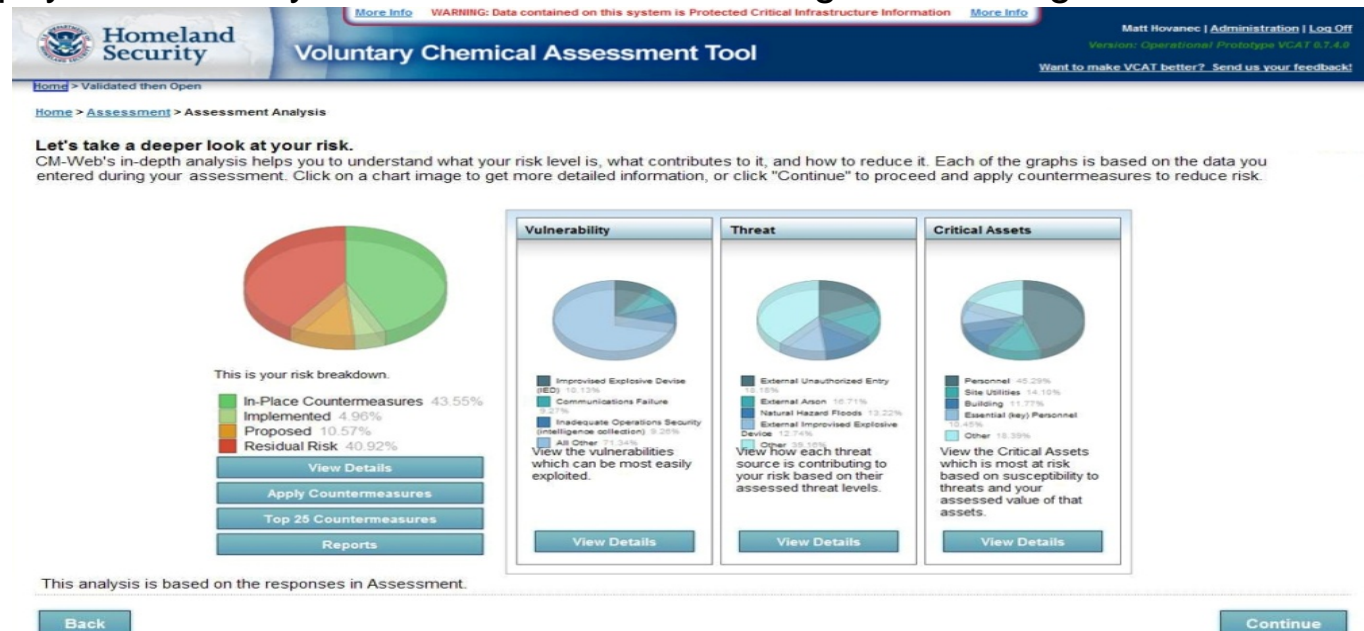
Chemical Sector Programs (cont.)

- **Information Sharing**
 - **Biannual classified briefing** – The SSA sponsors a classified briefing for cleared industry representatives twice a year. The intelligence community provides briefings on both physical and cyber threats, as well as other topics of interest for chemical supply chain professionals.
 - **Security Awareness Guide** – to assist owner and operators in their efforts to improve security at their chemical facility and to provide information on the security threat presented by explosive devices and cyber vulnerabilities.
 - **Chemical Sector Training Resources Guide** – The guide contains a list of free or low-cost training, Web-based classes, seminars, and documents that are routinely available through DHS.
 - **Homeland Security Information Network** – HSIN-Chemical Sector is the primary information-sharing platform for the Chemical Sector. The sector does not have an Information Sharing Analysis Center.

Chemical Sector Programs (cont.)

■ Voluntary Chemical Assessment Tool

- Developed to provide the means for owners and operators of non-tiered facilities to identify their current risk level.
- The Web-based tool facilitates a cost-benefit analysis allowing users to select best combination of physical security countermeasures and mitigation strategies to reduce overall risk.



Chemical Sector Programs (cont.)

■ Training

- **Web-Based Chemical Security Awareness Training** – An interactive tool available free to chemical facilities nationwide to increase security awareness. The training is designed for all facility employees, not just those who have security responsibilities.
- **Security seminar and exercise series with state chemical industry councils** – A collaborative effort between various state chemical industry councils aimed at fostering communication between facilities and their local emergency response teams by encouraging representatives to share their insight, knowledge, and experiences during a facilitated tabletop exercise

Chemical Sector Programs (cont.)

■ Exercises

- **Cyberstorm III** – Congressionally-mandated exercises that examine the Nation's cybersecurity preparedness and response capabilities.
- **Infrastructure Protection Sector-Specific TTX Exercise Program (IP-SSTEP)** – Provides National Level Exercise 09 materials to owners and operators to hold their own tabletop exercises.
 - Exercises developed with the purpose of creating an opportunity for public and private critical infrastructure stakeholders and their public safety partners to address gaps, threats, issues, and concerns identified in previous exercises and their after-action processes affecting the Chemical Sector.
 - Allows participants the opportunity to gain an understanding of issues faced prior to, during, and after a terrorist threat/attack and the coordination with other stakeholders, both public and private, regarding their facility.

Chemical Sector Programs (cont.)

■ **Cybersecurity**

- **Industrial Control Systems Joint Working Group (ICSJWG)** – Forum for 18 sectors to discuss and address cybersecurity issues impacting industrial control systems.
 - DHS and the private sector developed the *Roadmap to Secure Control Systems in the Chemical Sector*, published in September 2009. The Roadmap proposes a comprehensive plan, which includes goals and milestones for improving the security, reliability, and functionality of industrial control systems over the next 10 years.
 - Currently forming an implementation working group.
- **Cybersecurity Evaluation Tool (CSET)** - SSA promotes the DHS developed CSET and in the past facilitated four technical assistance sessions.

Chemical Sector Programs (cont.)

- **Research and Development**

- **Integrated Project Team (IPT)** - Involved in two Capstone IPTs : Chemical/Biological and Infrastructure Protection. SSA Co-Chairs the Chemical Sub-IPT with the Science and Technology Directorate and Office of Health Affairs. Three thrust areas for Chemical-Sub IPT: chemical analysis; chemical detection; and chemical response and recovery.
- **SCC R&D Working Group** – Formed in 2009. Priorities are: studying toxicity; tracking toxic chemicals during transport; mitigating chemical releases; developing effective decontamination methods; and reducing the explosive potential of certain chemicals. SCC has ranked current projects and has been briefed on all projects.

- **International Activities**

- **Strategy** - The SSA has developed an international strategy with the mission to develop and foster partnerships with the international community in order to promote a global culture of protection and resilience in the Chemical Sector.

Chemical SSA Contact Information

- Web site: www.dhs.gov/chem-voluntary-resources
 - Email: ChemicalSector@dhs.gov



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For more information visit:

www.dhs.gov/criticalinfrastructure

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