

Headquarters U.S. Air Force

Integrity - Service - Excellence

Keynote Address



2009 AF Corrosion Conference

Mr. Michael Aimone
AF/A4/7
25 Mar 09

U.S. AIR FORCE



U.S. AIR FORCE

Topics

- **Emerging Contaminants**

- **Corrosion Control - Facilities**



Emerging Contaminants

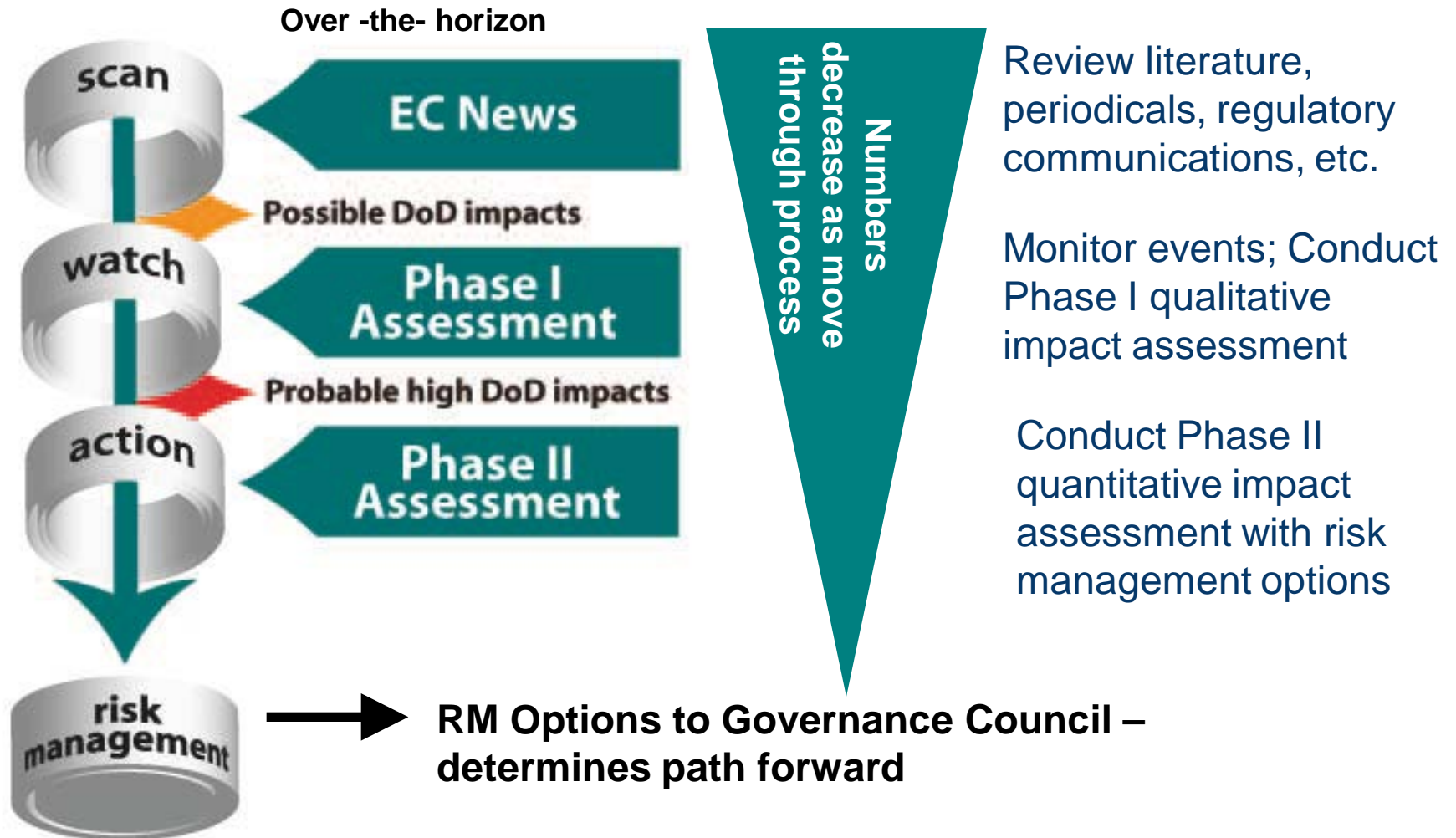
U.S. AIR FORCE

- **Emerging Contaminants:**
 - **Chemicals and materials**
 - **Threat to human health and environment**
 - **Essentially no standard**
 - **Can adversely affect people; assets, mission and resources**
- **OSD Efforts on EC (Governance Council)**
 - **Drives toward proactive, consensus approach**
 - **Invest time and effort up front**
 - **Prevent costly recovery or negative health impact later**
 - **Goal: sound science to drive decisions**
 - **DoD speaks with one voice to regulators**



EC "Scan-Watch-Action" Process

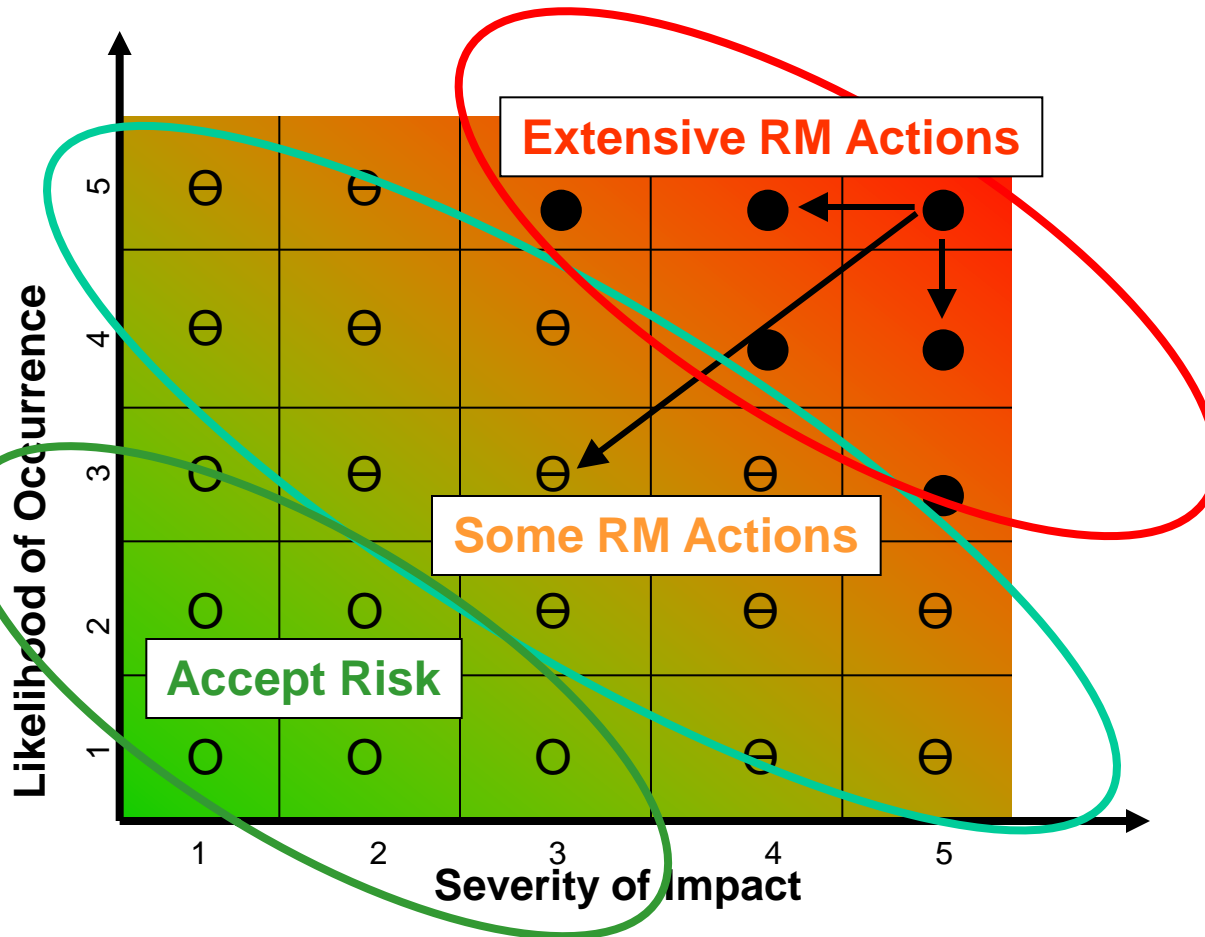
U.S. AIR FORCE





U.S. AIR FORCE

Developing Risk Management Options



RM Options

- Fill tox science gaps
- RDT&E
- Material substitution
- Process changes
- Regulatory engagement
- Stockpile material
- Exposure assessment & monitoring
- Personal Protective Equipment (PPE)
- Acquisition changes
- Benchmark with industry
- Risk communication
- Training



What EC-GC Does

U.S. AIR FORCE

- **Enables enterprise-wide consensus on emerging contaminant risks**
 - **Members provides advice, implement, and/or make investment decisions on risk management options for ECs on the action list.**
- **Elevates new ECs with high risk to action list**
- **Establishes working groups as needed to address enterprise EC issues**
- **Encourages SME participation in impact assessments...they are only as good as the input**



Current DoD Emerging Contaminant Interests

U.S. AIR FORCE

DoD Action List

- **Perchlorate**
- **Royal Demolition eXplosive (RDX)**
- **Trichloroethylene (TCE)**
- **Hexavalent Chromium**
- **Naphthalene**
- **Beryllium**
- **Sulfur Hexafluoride (SF6)**

DoD Watch List

- ✓ Tungsten
- ✓ Tetrachloroethylene (PCE)
- ✓ Dioxins
- ✓ 1,4-Dioxane
- Nanomaterials
- ✓ Perfluorooctyl sulfonate (PFOS)
- ✓ Di-nitrotoluenes (DNT)
- ✓ Lead (Added 3-07)
- ✓ Nickel (Added 3-07)
- Cerium (Added 7-07)
- Cobalt (Added 7-07)
- Cadmium (Added 12-07)
- Manganese (Added 12-07)
- ✓ Perfluorooctanoic acid (PFOA) (Downgraded from Action List 9/08)

✓ = Phase I Impact assessments completed



Corrosion Control - Facilities

U.S. AIR FORCE

- **Revising Civil Engineer AFI 32-1054, Corrosion Control (CC)**
 - **Incorporates Corrosion DoDI changes**
- **Ensuring Asset Management program includes CC**
- **Coordinating w/DESC's centralized program for Fuels Facilities**
 - **Pipeline integrity testing, tank inspections, cathodic protection**
- **Revising Tri-Service Corrosion Planning Guidebook**
 - **Make program/project manager friendly**
- **Hiring New Facilities Corrosion Subject Matter Expert at AFCESA**





U.S. AIR FORCE

Questions?

Integrity - Service - Excellence