



# **“Walking the Talk”**

## **Implementing Environmental Management Systems at Federal Facilities**

**March 12, 2003**

# Overview

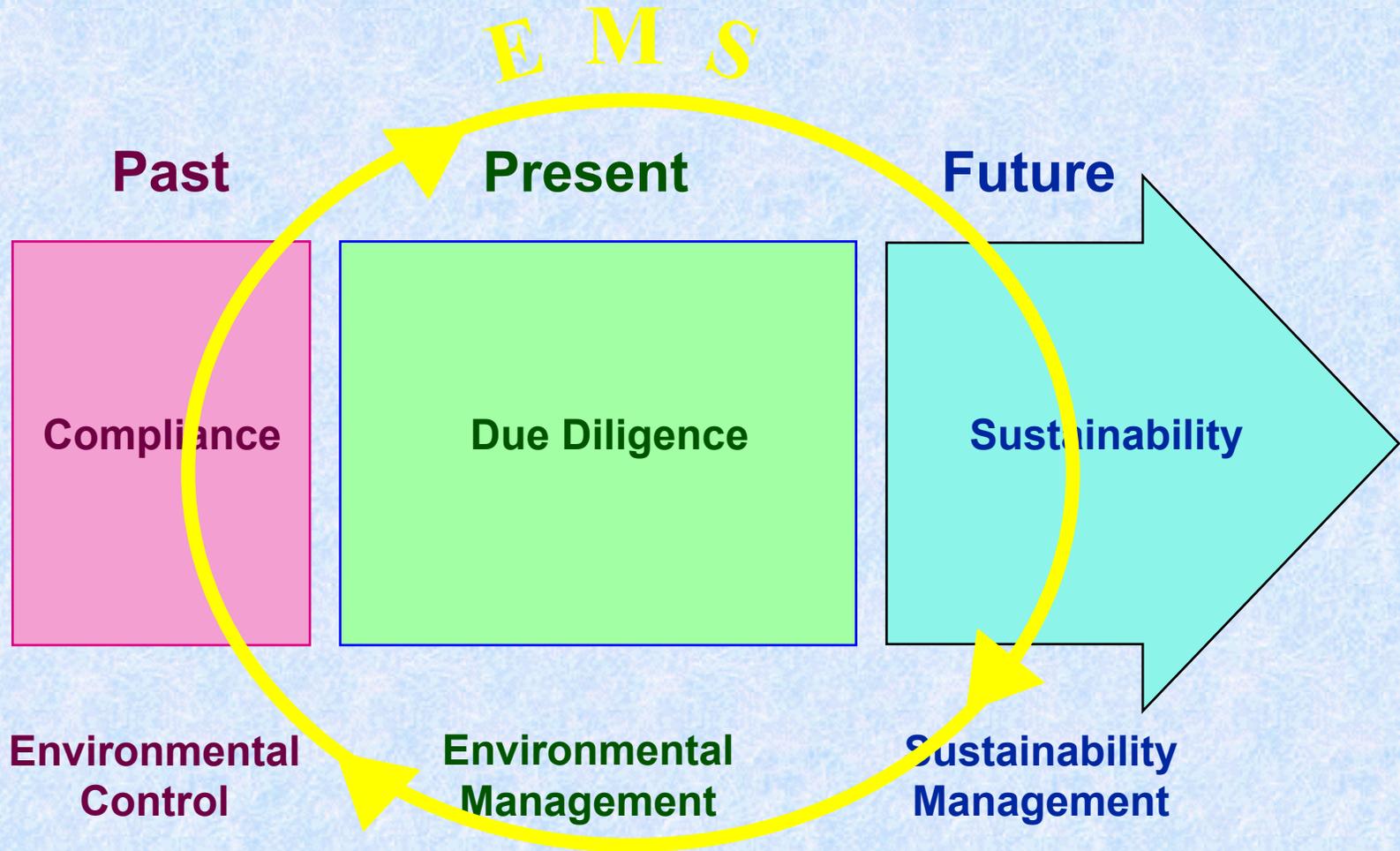
- What is an Environmental Management System (EMS)?
- What is ISO 14001?
- What is required of Federal Facilities with regard to EMS?

# What is an EMS

EMSs are **systems** used by organizations to know and measure the **environmental impact of any or all operations**

- All operations impact the environment
- Impacts can be positive or negative
- Impacts to air, water, land, flora, fauna, etc.
- Consumption of natural resources (energy, land use, purchased supplies & equipment)

# Trend for Management of Environmental Issues

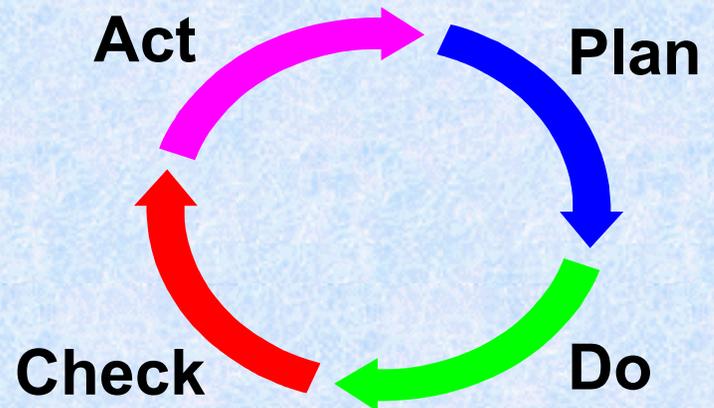


# About the EMS

The EMS provides a **routine annual process** for dealing with environmental concerns.

## A continual cycle of:

- planning,
- implementing,
- reviewing
- improving



an organization's actions to improve its compliance and minimize its environmental "footprint"

# Benefits of EMSs

- Increased employee involvement and integration with operations
- Operational improvements
- Cost savings; reduced liability
- System reveals problem before crisis
- Reactive → Proactive organization—moving environmental work into line operations

# About the EMS ...

In addition to managing environmental issues, an EMS can be used to manage other issues typically ignored in day-to-day operations.

- Sustainability
  - Equity
  - Community Well Being
  - Employee Well Being
- Quality
- Health & Safety

# EMS & Continuous Improvement

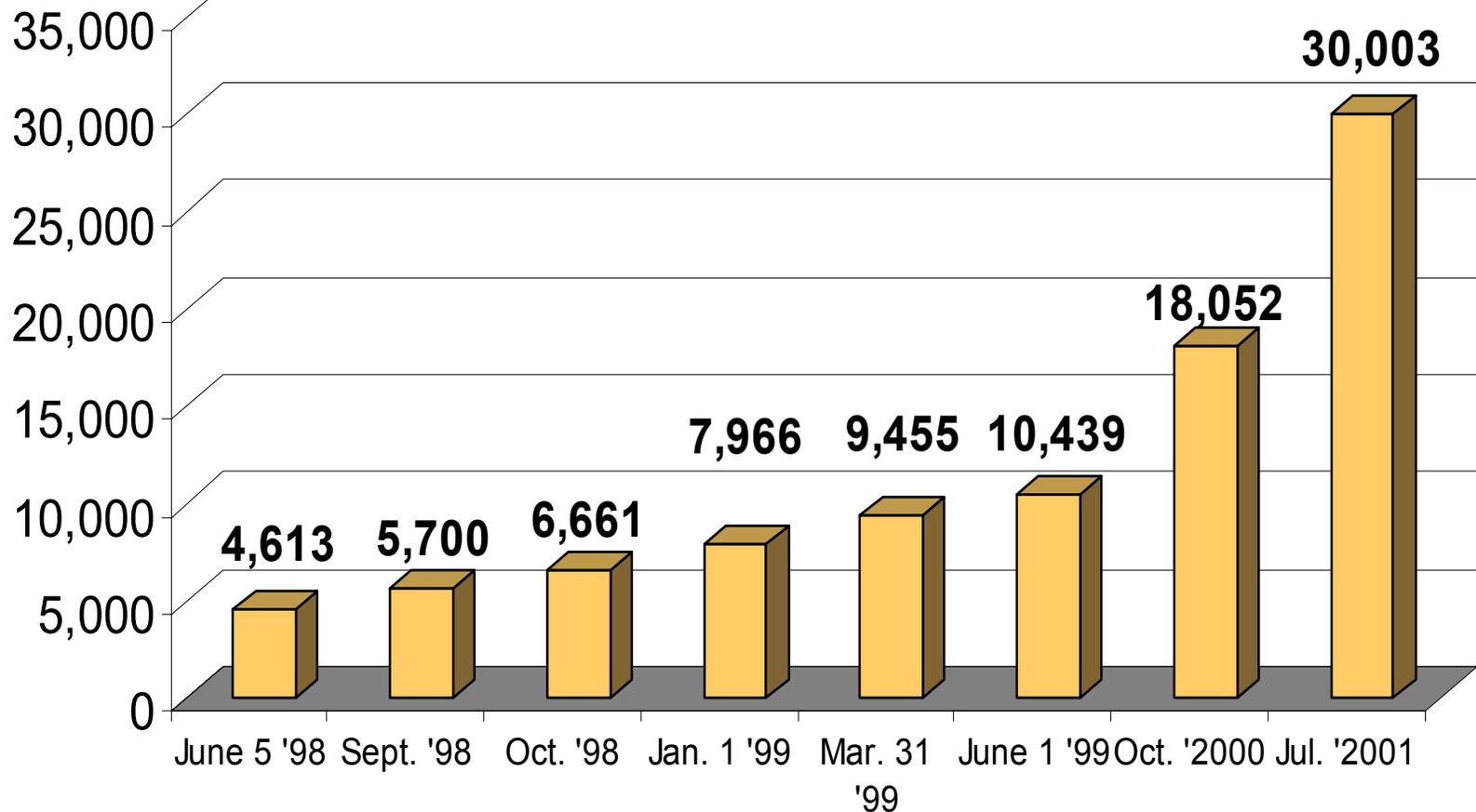


# What is ISO 14001?

- A model for implementing an EMS
- An auditable standard for an EMS
- A framework for continuous improvement of environmental performance, control and regulatory compliance
- An internationally-recognized certification



# Number of Companies Registered to ISO 14001 - Worldwide

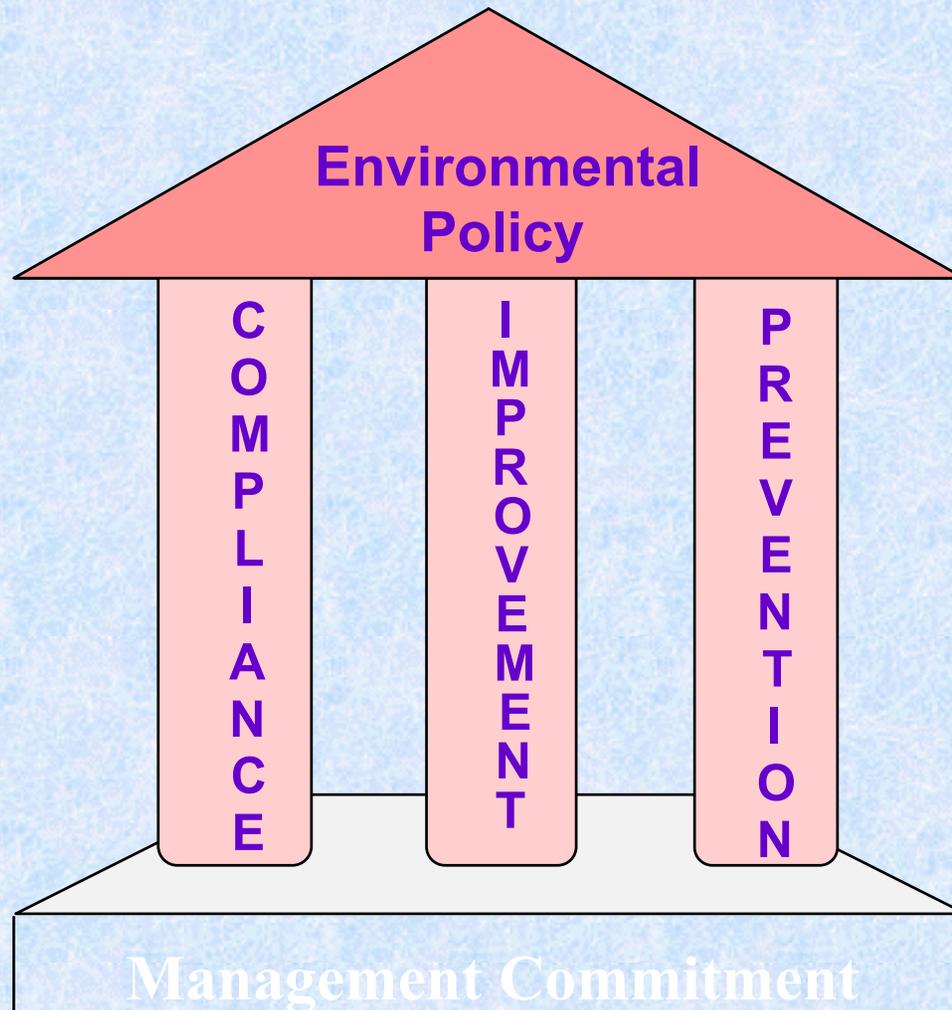


Source: [www.ISO14001.com](http://www.ISO14001.com).

# ISO 14001 Elements

- Environmental Policy
- Environmental Aspects
- Legal and Other Requirements
- Objectives & Targets
- Environmental Management Programs
- Structure and Responsibility
- Training: Awareness & Competence
- Communication
- EMS Documentation
- Document Control
- Operational Control
- Emergency Preparedness and Response
- Monitoring and Measurement
- Nonconformance & Corrective and Preventative Action
- Records
- EMS Audit
- Management Review

# Environmental Policy



# Planning

- Identify aspects and impacts from facility activities, products, and services
- Review legal requirements
- Set objectives and targets
- Establish formal EMS program



# Implementation

An effective EMS requires the development of support mechanisms necessary to achieve environmental policies, & objectives and targets, such mechanisms include:

- Structure and Responsibility
- Training Awareness and Competence
- Communication
- EMS Documentation
- Document Control
- Emergency Preparedness and Response



# Checking & Corrective Action

Procedures shall be established for monitoring the EMS and correcting deviations. These include:

- Monitoring and measurement
- Records
- Nonconformance and corrective and preventive actions
- EMS audits



# Management Review

*Top management must*

- Ensure EMS continues to be
  - suitable
  - adequate
  - effective
- Address possible changes to policy, objectives and other elements



# Executive Order 13148

“By December 31, 2005, each agency shall implement an environmental management system at all appropriate agency facilities.”

- Signed April 22, 2000
- Agency level EMS self assessment by October 2001
- Facility pilot EMS by April 2002
- EMS at all appropriate facilities by December 2005

# Suggested Resources

- Environmental Management Reviews (EMRs)
  - FREE consulting service for federal facilities
  - 3<sup>rd</sup> party review of systems at federal facilities with recommendations for improvements
  - 81% of recommendations undertaken by federal facilities
- Workshops on EMSs
  - Next one: San Francisco, CA May 7<sup>th</sup> & 8<sup>th</sup>, 2003

<http://www.epa.gov/fedsite/>

<http://www.epa.gov/ems>

<http://www.peercenter.net>

# Keys to Success

- Management commitment
- Set realistic objectives and targets
- Build on existing management systems
- Make it your system!
- Perseverance!

**Genius is 1% inspiration, and 99% perspiration.**

*Thomas Edison*

# An EMS....

- Is a **system** — not just an individual acting independently
- Is **more than compliance**; includes safety, energy, resource conservation, water, etc.
- Is a **process** — not just an event nor just a manual
- Requires environmental experts to operate outside their boxes and organizational units
- Requires true & long-term **commitment**

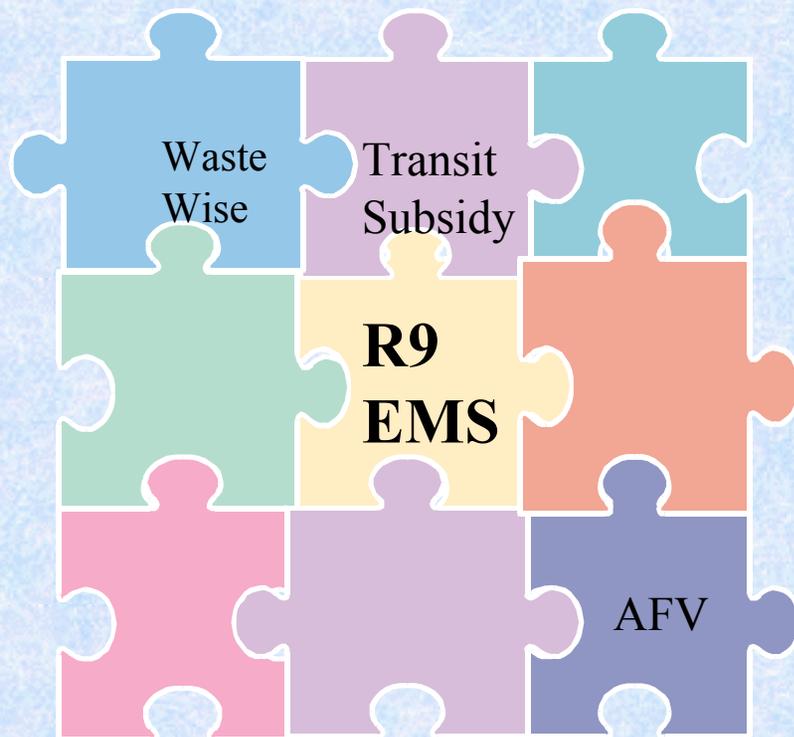
# Contact Information

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**EMS  
Implementation in  
Region 9**

# EPA, Region 9, already has parts of an EMS...



... together they will form the foundation which we will add to.

# Potential EPA Footprint

Furniture  
& fixtures

Supplies & Packaging  
equipment

Communication

Demonstration

**Product  
Aspects**

**Technology  
Aspects**

Landscaping

Cleaning  
Materials

Water

Energy

**Building  
Aspects**

**People  
Aspects**

Recycling

Transportation

Food  
waste

# EMS Timeline Overview

**Phase 1: Start Up**

**June - August 2002**

**Phase 2: Planning**  
**September 02 – February 03**

**Phase 3: Implementation**  
**March - September 2003**

**Phase 4: Check & Review**  
**September - October 2003**