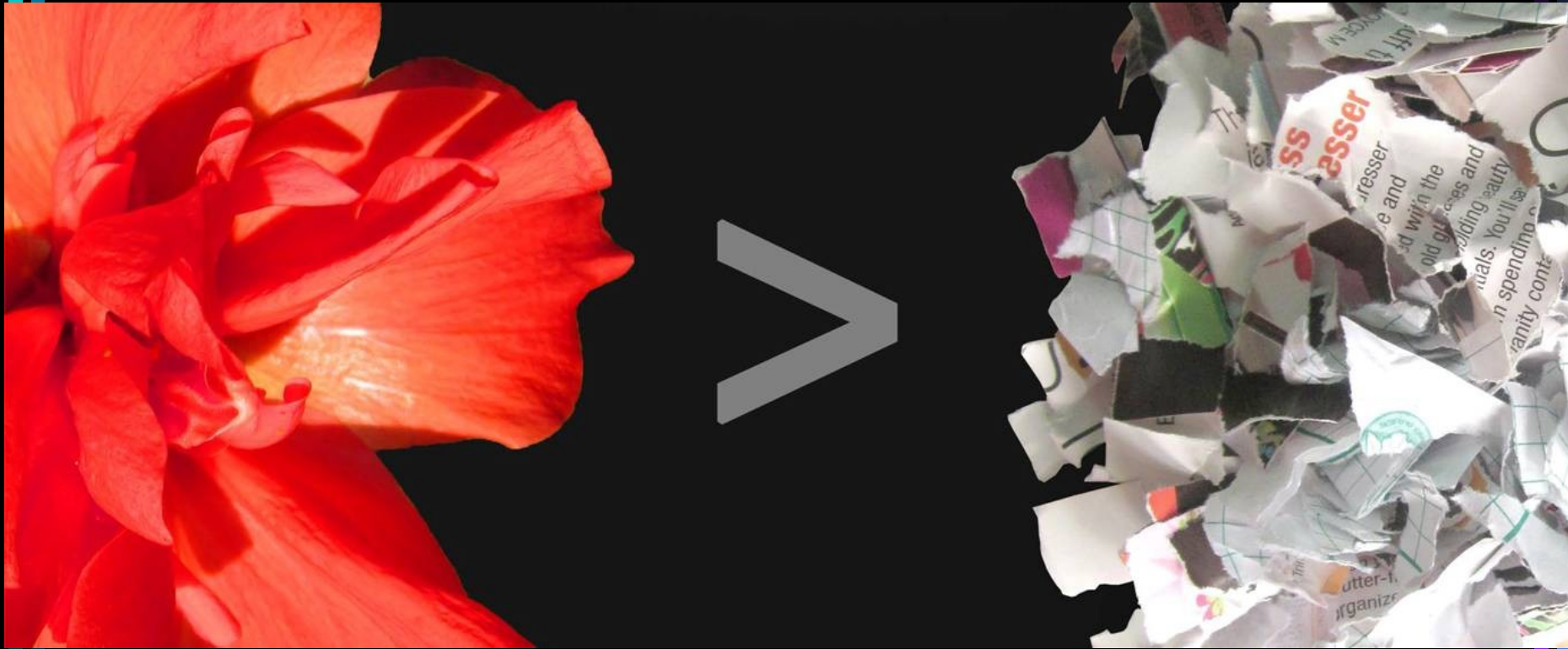


# ISO 14000



PARVIKA SINGHAL  
101103071

# Definition



ISO 14000

**ISO 14000** is a family of standards related to **environmental management** that exists to help organizations

- Minimize operations: negatively affect the environment
- Comply with applicable laws, regulations, and other environmentally oriented requirements
- Continually improve in the above.



ISO 14000

- ISO 14000 is similar to ISO 9000 quality management
- The requirements of ISO 14000 are an integral part of the European Union's Eco-Management and Audit Scheme (EMAS)

# What is ISO 14000?

**ISO 14012**  
Qualification criteria  
for environmental  
auditors.

**ISO 14011**  
Audit  
procedures.

**ISO 14010**  
General  
Principles for  
environmental  
auditing.

**ISO 14004**  
Guidelines  
on EMS principles,  
Systems and  
supporting  
techniques.

**ISO 14001**  
Is the defining  
specification  
For EMS's

**ISO 14001**  
Environmental  
Management Systems -  
Specifications with  
guidance for use.

**ISO 14000 is a Series of standards from the International Organization of Standards which provides guidance for an Environmental Management System**

# History



ISO 14000

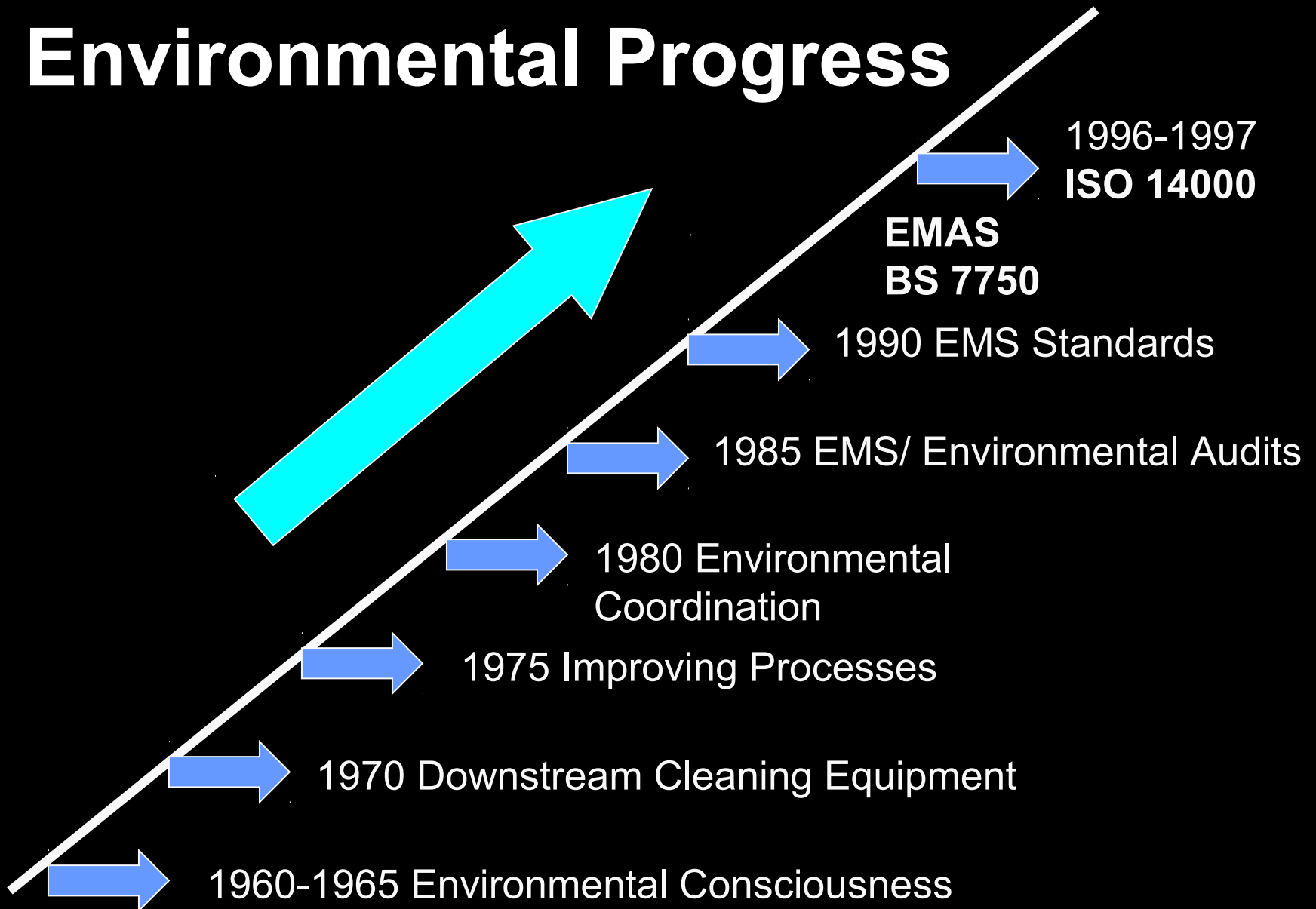
- Evolved in the early nineties
- 1972:UN organized a Conference
- United Nations Environment Program (UNEP) was launched
- Establishment of the World Commission on Environment and Development & adoption of the Montreal Protocol and Basel Convention



ISO 14000

- In 1992, Earth Summit was held
- Same year, BSI Group published the environmental management systems standard, BS 7750
- ISO 14000 series in 1996, by the International Organization for Standardization
- 2,23, 149 organizations in 159 countries and economies

# Environmental Progress





ISO 14000

# What is EMS?

An environmental management system (EMS) is a management structure that allows an organization to assess and control the environmental impact of its activities, products or services.

# ISO 14000



ISO 14000

- International Voluntary Standards for providing common framework for managing environmental issues
- Guiding Principles:
  - Better Environment Mgmt.
  - Flexible and applicable to all nations
  - Scientific
  - Practical & useful



ISO 14000

- ISO 14000 is Product and Process oriented
- Determines environmental impacts of products and services;  
establish, maintain and evaluate EMS
- ISO 14000 is Process NOT a Performance standard



ISO 14000

- ISO 14000 entails five aspects:

- Environmental Management System
- Environmental Auditing and related investigations
- Environmental Labels and Declarations
- Environmental Performance Evaluation
- Life Cycle Analysis & Terms and Definitions.

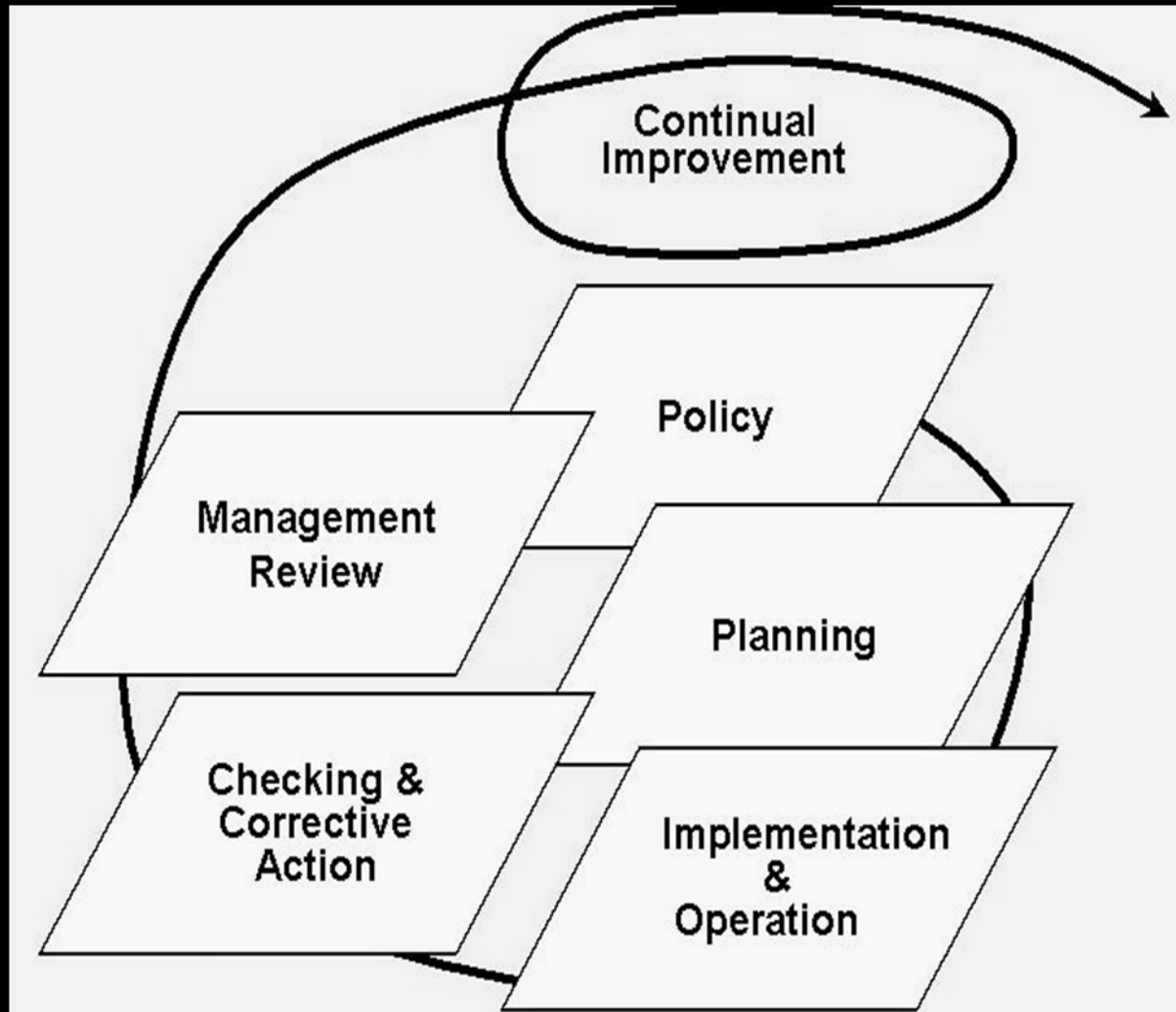
- ISO 14000 / EMAS / BS 7750 are all standards of implementation of EMS

# WHY ISO 14000?

- Reduces environmental liability
- Enhances public image and reputation
- Assures customers
- Satisfies investor criteria
- Meets your clients' registration requirements

- Reduces your consumption of materials and energy
- Facilitates permits & authorizations
- Reduces the cost
- Improve industry-government relations

# Six key elements: ISO 14000

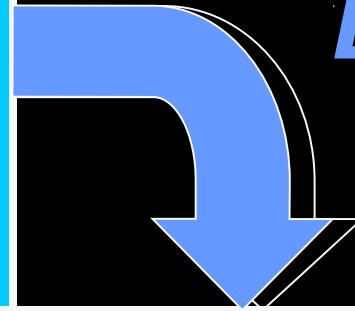


**Plan**



- Aspects/Impacts
- Legal Requirements
- Objectives/Targets

**Do**

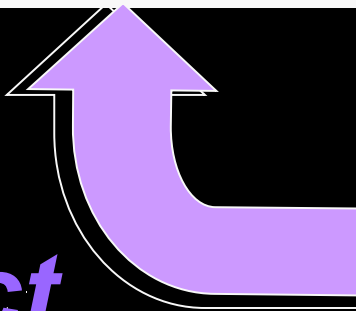


- Mngmnt. Review
- Evaluate
- Continually Improve

# Continual Improvement

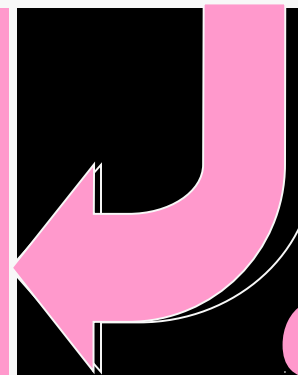
- Mngmnt. Structure
- Training/Awareness
- Communication
- Documentation
- Emergency Response

**Act**



- Monitor & Measure
- Corrective Action
- EMS Audit

**Check**





ISO 14000

# Environmental Aspects

**Energy Use**

**Releases**

An environmental “Aspect” is any element of an organization's activities, products, or services that can interact with the environment causing impact to the environment, whether adverse or beneficial.

**Hazardous  
Material**

**Bulk Storage of  
liquids or Gases**

**Resource Use**



ISO 14000

# Legal Requirements

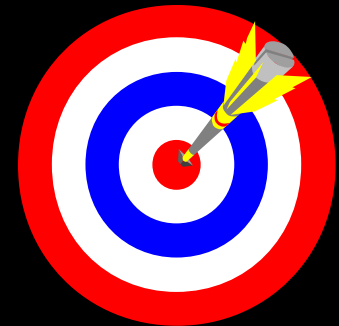
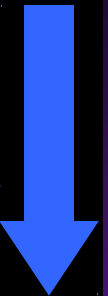
Legal drivers for compliance efforts. Established by Federal, State, or local laws and tracked by the Environmental Division to ensure we are in compliance.

# Environmental Objectives/Targets

□ An environmental "Objective" is an overall environmental goal, arising from the environmental policy, that an organization sets itself to achieve, and which is quantified where practicable.

□ An environmental "Target" is a detailed performance requirement, quantified where practicable, applicable to the organization or parts thereof, that arises from the environmental objectives and that needs to be set and met in order to achieve those objectives.

*We want  
To reduce  
Hazardous  
Material*



*20%  
Reduction  
By 2013*

# DO



ISO 14000

## **Management Structure**

Roles, responsibility and authorities are defined, documented, and communicated via directives NUWCDIVKPT5090 and KPT5090-17

## **Training/Awareness**

Establish procedures to make employees aware of the importance of environmental conformance with the requirements of the EMS, and their roles in achieving it



ISO 14000

## **Communication**

The organization shall establish and maintain procedures for internal communication between the various levels and functions of the organization and communication from external interested parties.

## **Documentation**

The organization shall establish and maintain information in paper or electronic form to describe the core elements of the EMS.

# CHECK



ISO 14000

## **Monitor & Measure**

Maintain documented procedures to monitor and measure the key characteristics of its operations and activities that can have a significant impact on the environment

## **Corrective Action**

Establish procedures for defining responsibility and authority for handling and investigating nonconformance



ISO 14000

# EMS Audit

Periodic EMS audits in order to determine whether or not the EMS conforms ISO 14000 and has been properly implemented and maintained

# ACT



ISO 14000

## **Management Review**

The organization's top management shall review the EMS to ensure its continuing suitability, adequacy, and effectiveness

## **Evaluate**

Evaluate the EMS to ensure suitability of operation

## **Continually Improve**

Consider continual improvement as part of its operation

Protecting the Environment is  
Everyone's Job,  
And So Is Maintaining the EMS!



**THANKS...**



**14000**

