

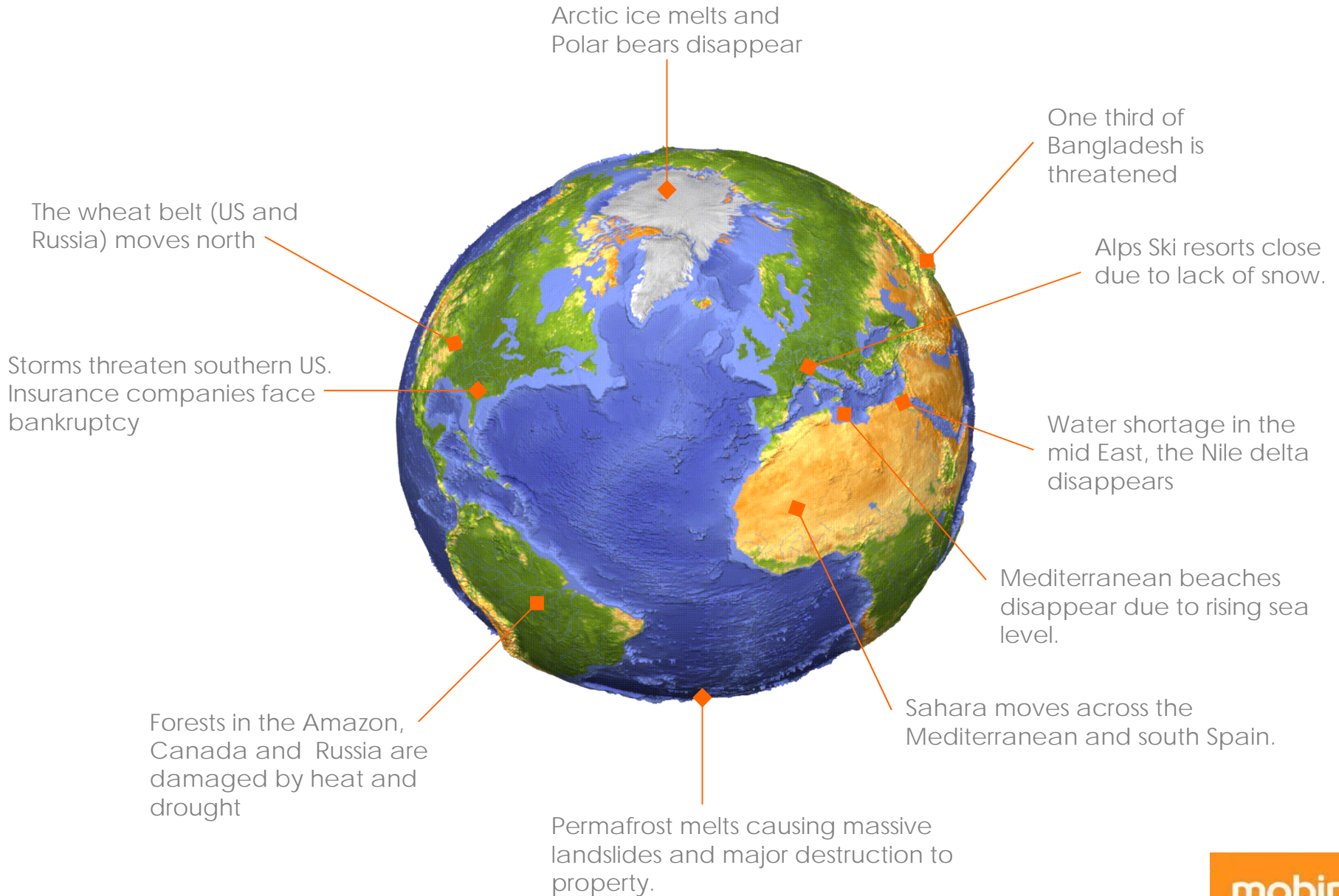
Environmental Management Systems in telecom companies

A case study

ITU Regional Conference
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mobinil

The world in 2050...Unless something is done



About Environmental Management Systems

An Environmental management System [the EMS] is a set of programs and processes aiming to reduce environmental impact and increase profits.

Why do we need it?

- Environmental regulations are getting stricter.
- Cutting waste and using natural resources more efficiently reduces costs and boosts profits.
- Financial institutions are taking closer look at the environmental risk of companies seeking credit or insurance.
- There is a growing interest in environmentally responsible companies
- The public is using its buying power to encourage businesses towards fulfilling environmental and social responsibilities.

What is the ISO?

The International Organization for Standardization

1 ISO 9000 series [Quality]

2 ISO 14000 series [Environment]

- ISO 14001 is optional
- ISO 14001 is not a process of inspection in any way; it is a review of the performance of the organization's departments and their impact on the environment.
- ISO 14001 urges organizations to avoid and reduce negative environmental impacts.



Management Systems

Registration

- Formal registration of the organization's Environmental Management System [EMS] by an independent third party

“Certification body”

“Accreditation body”

- Greater assurance to clients and the public.
- Assesses and audits the organization's EMS to ensure compliance with the standard requirements.



Environmental Definitions

1. Aspects:

Elements of the organizational activities, products or services that can interact with the environment

- Emissions to air
- Releases to water
- Land contamination
- Waste treatment
- Use of natural resources
- Use of raw materials

2. Impacts:

Any change to environment; whether adverse or beneficial that results from organizational activities [aspects]

3. Performance:

Measurable results of the EMS, reflecting control on its aspects and based on environmental policy, objectives and targets.

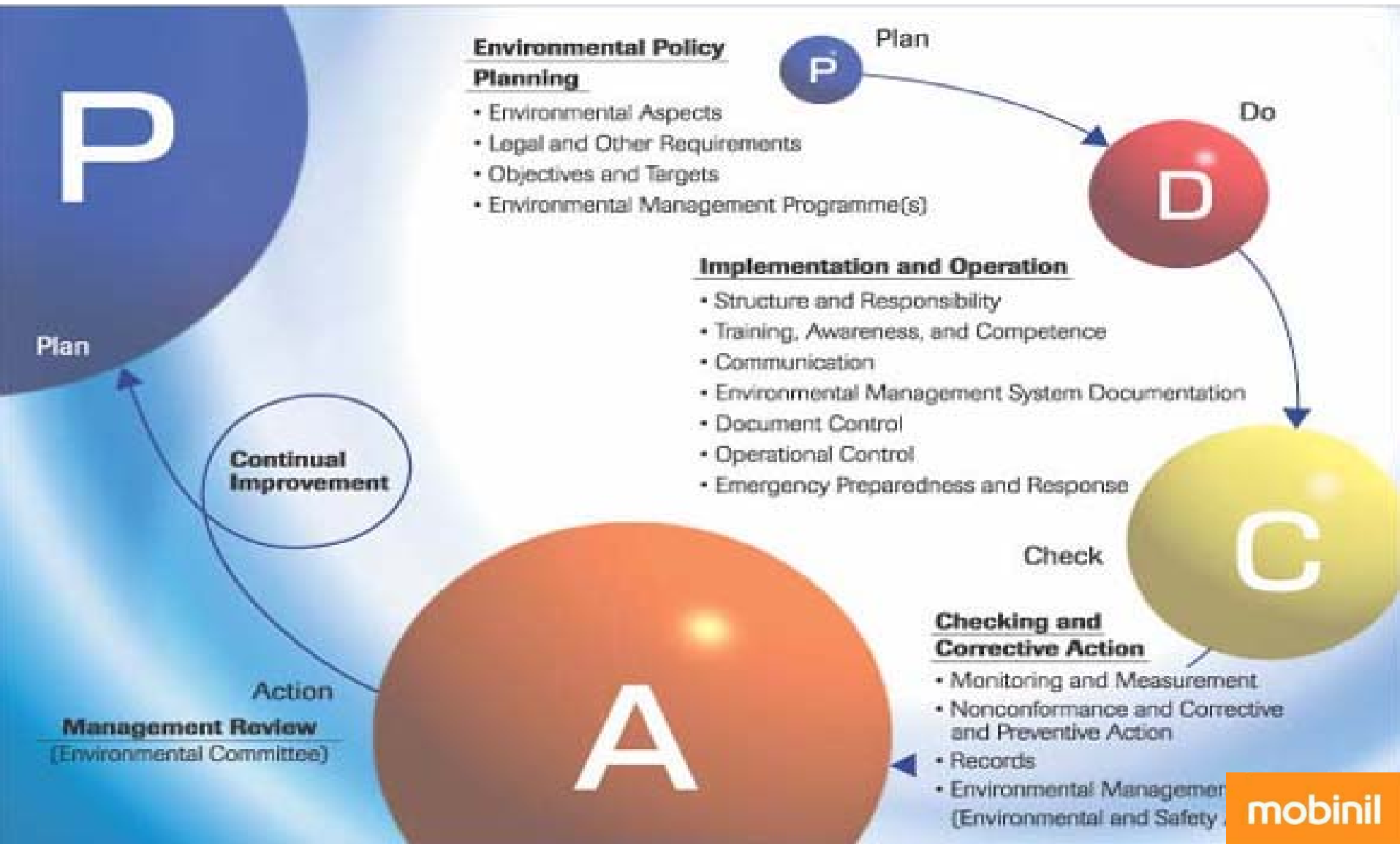
4. Objectives

Overall long term goals that arise from the environmental policy.



The EMS model

A structure that based on the plan, do, check and act sequence that allows the organization to assess and control its environmental impact.



1. Environmental Policy

A written document that is signed by the CEO as a commitment to:

- Environmental protection
- Pollution prevention, waste reduction, sustainable use of natural resources, wise energy use and continual improvement.
- Compliance with laws and company policies.
- Risk reduction for employees and neighboring communities
- Continuous support to environmental organizations.
- Communicating policy to employees and the public.



2. Planning

These EMS components were identified during planning phase:

- Aspects, requirements and targets
- Organizational responsibilities
- Training, awareness and communication
- Document and operation control
- Monitoring, measurements, corrective action and non-conformance.
- Auditing, management review and records.



3. Implementation

The Programs...

1. Awareness

- Environmental awareness sessions.
- Supporting academic research
- Sponsoring scientific events.
- Periodic training to internal staff.
- Recognizing distinguished students.
- Publishing awareness material.

2. Environment Projects

- Office waste collection.
- Charging over the air [E-Charging]
- Using solar powered cells
- Micro and indoor cell deployment
- Corporate accounts CD bill.
- Recycling mobile phone batteries
- Using stub towers instead of masts
- Using artificial tree pylons.
- Using bio-degradable scratch cards.
- Recycling BTS batteries.

3. Radiation Control

- Site inspection program.
- Establishing Site Info System
- Cairo EMR measurement campaigns

4. Resolving Complaints

- Handling concerns or questions.
- Resolving environmental issues.

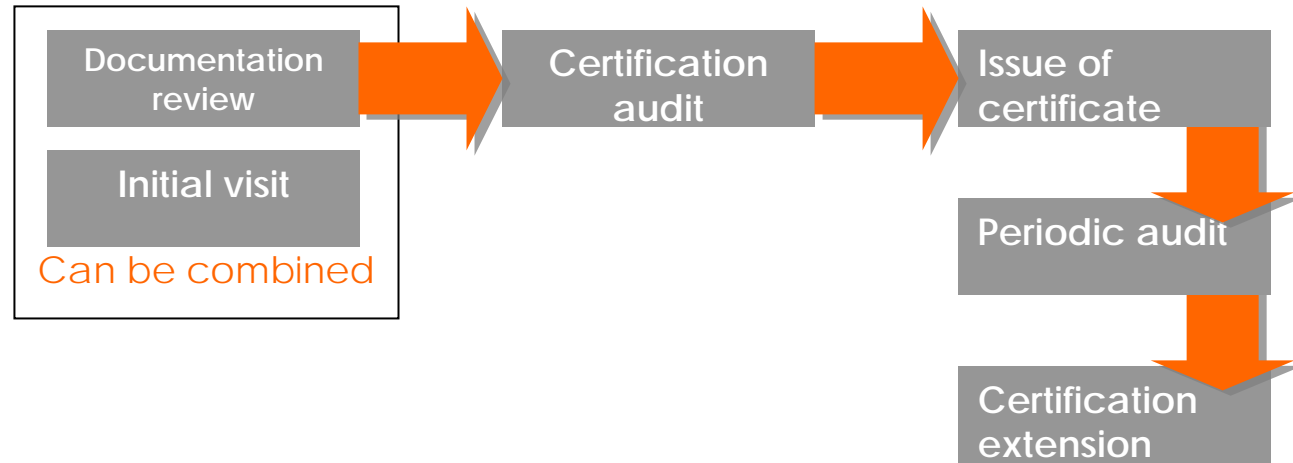
The Processes...

PROCEDURE NAME	NUMBER
Declaration of environmental policy	EP 010000
Environmental aspects procedure	EP 020000
Legal and other requirements procedure	EP 030000
Objectives and targets procedure	EP 040000
Declaration of company structure	EP 060000
Training procedure	EP 070000
Communication procedure	EP 080000
Document control procedure	EP 100000
Operation control procedure	EP 110000
Emergency preparedness and response	EP 140000
Monitoring and measurement procedure	EP 150000
Non-conformance and corrective actions	EP 170000
Record control procedure	EP 190000
Internal audits procedure	EP
Management review procedure	EP

4. Checking

Verifying that an EMS is effective is a yearly task.

Another comprehensive audit is done every three years....



5. Management Review

The certifier's report addresses the following points:

- Company walk-through and summary evaluation.
- Changes from last audit and approach
- EMS elements status and improvement recommendations

Thank You

Working Together For Better Environment.