

FDE 418
FOOD QUALITY CONTROL
LESSON-6

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ISO 14001

An environmental management system

✓ *Purpose:*

- ✓ To improve organizations ' environmental performance

✓ *Why the processors use ISO 14001?*

- ✓ to **minimize harmful effects** on the environment caused by its activities
- ✓ to conform to applicable **regulatory requirements**
- ✓ to achieve continual improvement of its **environmental performance**

ISO 14001

An environmental management system

✓ *Advantages:*

- ✓ More efficient use of resources
- ✓ Reduction of waste
- ✓ Gaining a competitive advantage and the trust of stakeholders

✓ *Who is ISO 14001 for?*

- ✓ for organizations of all types and sizes
- ✓ private, not-for-profit or governmental

ISO 14001

An environmental management system

- ✓ Helps organizations identify, manage, monitor and control their environmental issues in a holistic manner
- ✓ Like other ISO management systems, it uses a *High-Level Structure*
 - ✓ This means it can be integrated easily into any existing ISO management system



ISO 14001

An environmental management system



✓ It requires that an organization considers all environmental issues relevant to its operations such as;

- ❖ air pollution
- ❖ water and sewage issues
- ❖ waste management
- ❖ soil contamination
- ❖ climate change mitigation and adaptation
- ❖ resource use and efficiency

ISO 14001:2015

An environmental management system

- ✓ ISO 14001 has recently been revised.
- ✓ The key improvements:
 - increased prominence of environmental management within the organization's strategic planning processes
 - greater input from leadership
 - a stronger commitment to proactive initiatives that boost environmental performance
- ✓ It allows for easier integration into other management systems

ISO 14001

An environmental management system

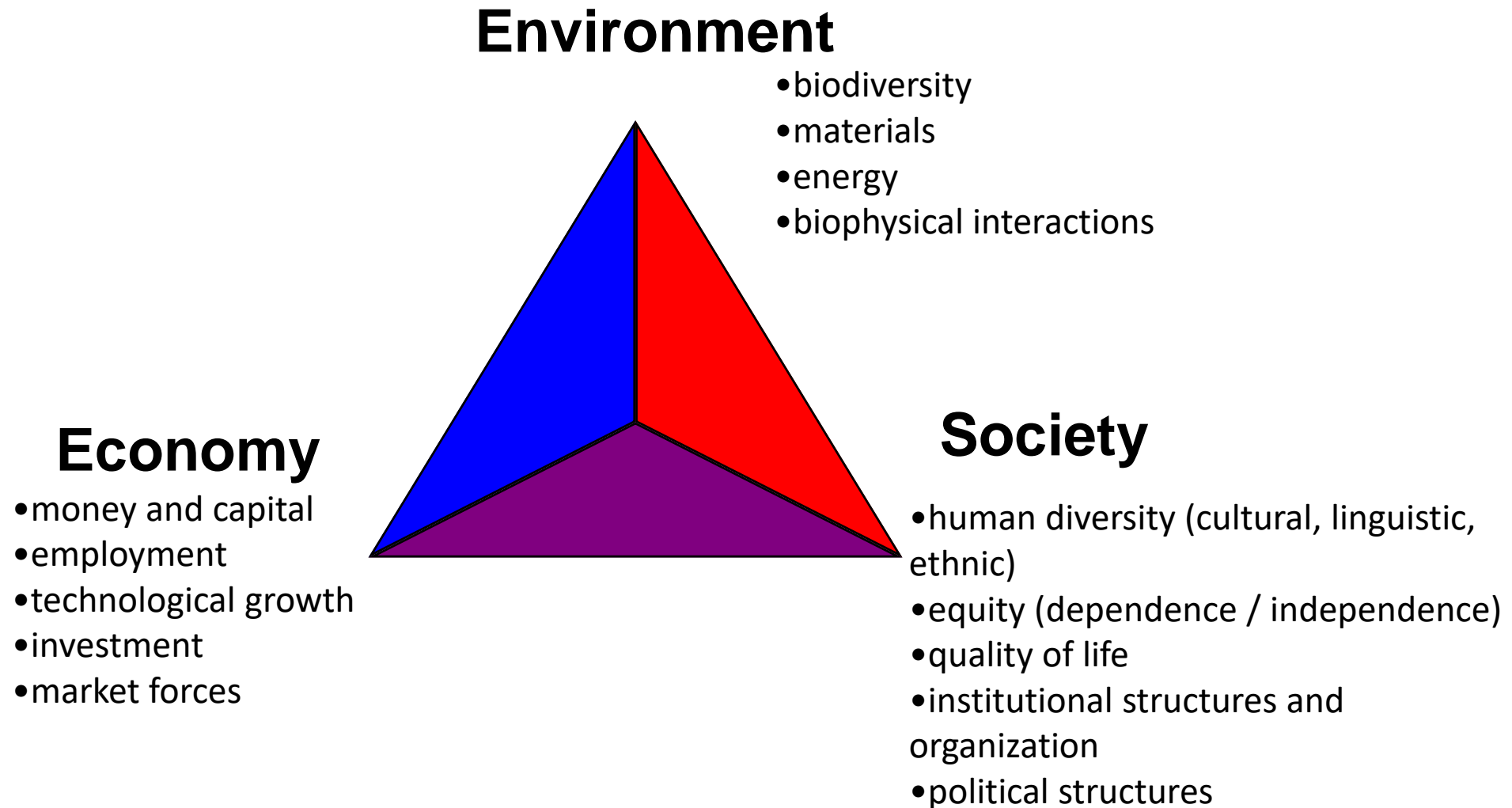
- ✓ **Environmental policy:**
- ✓ **Sustainable development:**

Sustainable Development

- ✓ The most popular definition of sustainable development is from the World Commission on Environment and Development, or the "Brundtland" Commission, in 1987:

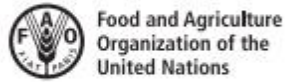
❖ ***"development that meets the needs of the present without compromising the ability of future generations to meet their own needs."***

Elements of sustainability



- World Commission on Environment and Development, 1987

Sustainable consumption and production in food and agriculture



SUSTAINABLE



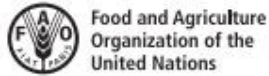
SYSTEMS

PROGRAMME



- ✓ a consumer-driven, holistic concept
- ✓ integrated implementation of sustainable patterns of food consumption and production, respecting the carrying capacities of natural ecosystems
- ✓ requires consideration of all the aspects and phases in the life of a product, from production to consumption

Sustainable consumption and production in food and agriculture



SUSTAINABLE FOOD SYSTEMS PROGRAMME



- ✓ related to;
 - ✓ sustainable lifestyles, sustainable diets, food losses and food waste management and recycling, voluntary sustainability standards, and environmentally friendly behaviours and methods
- ✓ **Purpose:** *to minimize adverse impacts on the environment and do not jeopardize the needs of present and future generations*

Accreditation (ISO/IEC 17025)

- ✓ ISO/IEC 17025 contains the criteria necessary for a laboratory to implement in order for it to perform its test work effectively
- ✓ Accreditation is independent and formal recognition of the competence a laboratory to perform specific tests etc.
- ✓ The criteria that a laboratory must comply with to be internationally acceptable is ISO/IEC 17025

Accreditation

- ✓ The trusting mechanism between accreditation bodies is constructed on the multi lateral agreements at the international and regional accreditation body organisations such as
 - ✓ IAF (International Accreditation Forum)
 - ✓ ILAC (International Laboratory Accreditation Cooperation)
 - ✓ EA (European Cooperation for Accreditation)

Accreditation

- ✓ TÜRKAK (Türk Akreditasyon Kurumu-Turkish Accreditation Agency)
- ✓ TÜRKAK started to provide accreditation services in 2001 and became a signatory of MLA (Multilateral Agreement) with EA for all the available accreditation schemes at 2008
- ✓ Currently TÜRKAK is a full member of EA, IAF and ILAC
- ✓ TS EN ISO/IEC 17025 Standard is taken as the basis for laboratory accreditation purposes

Social Responsibility

The concept of social responsibility

- ✓ The notion or concept which contains the obligations of the company's to groups formed in the society, other than shareholders and also those prescribed by law and unions
- ✓ The two sides of this definition are:
 - ✓ the obligation must be **voluntarily** accepted (so the behavior influenced by enforcement forces of law or trade union is not voluntary)
 - ✓ the obligation is something broader, meaning it extends beyond the traditional duty to the shareholders, to other groups in society such as consumers, employees, suppliers and neighboring communities

The 7 Principles of Social Responsibility

- *Accountability:*
- *Transparency:*
- *Ethical behaviour:*
 - *Stakeholder:*
 - *Rule of law:*
- *International norms:*
 - *Human rights:*

Social Accountability SA8000 Standard

- ✓ SA8000 is a global social accountability standard for decent working conditions, developed and overseen by Social Accountability International (SAI)
- ✓ SA8000 is based on the **UN Universal Declaration of the Human Rights, Convention on the Rights of the Child** and various **International Labor Organizations (ILO)** conventions

Social accountability 8000 standard

- ✓ Include definitions in the following areas:
 - Child Labor
 - Forced and compulsory labor
 - Health and Safety
 - Freedom of association and right to collective bargaining
 - Disciplinary Practices
 - Discrimination
 - Work Program
 - Remuneration
 - Management systems

SA8000:2014 and Social Fingerprint®

- ✓ SA8000:2014 is the latest version of the SA8000 Standard
- ✓ The SA8000:2014 certification process now includes ***Social Fingerprint***®

SA8000:2014 and Social Fingerprint®

- ✓ Social Fingerprint is a set of tools that help organizations *measure and improve* their management systems for social performance

- ✓ Social Fingerprint :
 - 10 process-based categories
 - 5 maturity levels