

Connie Sham Head of Audit





ISO 14001:2015

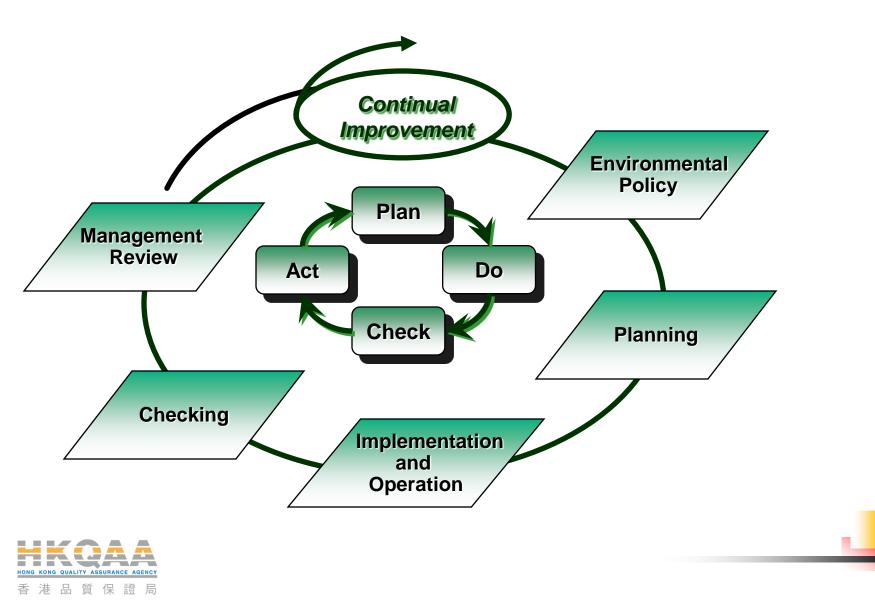
- ISO 14001:2015 was released on 15 September 2015 with 3 year transition period
- Critical Changes:
 - 1. New Management System Structure
 - 2. Understand Organizational Context
 - 3. Management Leadership and Commitments
 - 4. Environmental Commitments
 - 5. Life cycle consideration of environmental aspects
 - 6. Compliance obligation
 - 7. Risk and Opportunities
 - 8. Documented Information
 - 9. Supply Chain Management Process approach instead of procedure

1 - EMS Structure





ISO14001:2004 Process Model



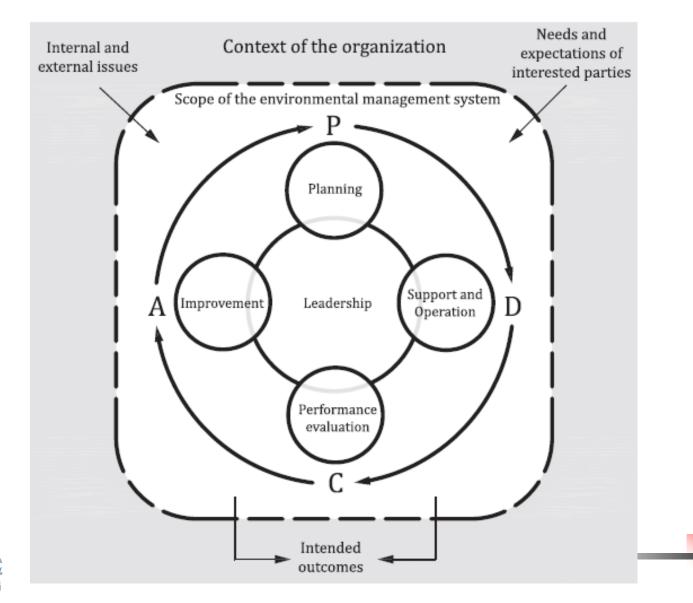
ISO Annex SL High Level Structure

- 1. Scope
- 2. Normative references
- 3. Terms and definitions
- 4. Context of the organization
 - Understanding the organization and its context
 - Needs and expectations of interested parties
 - Determining the scope
 - Management System
- 5. Leadership
 - Leadership and commitment
 - Policy
 - Roles, responsibility and authority
- 6. Planning
 - Actions to address risks & opportunities
 - Objectives and plans to achieve them

- 7. Support
 - Resources
 - Competence
 - Awareness
 - Communication
 - Documented information
- 8. Operation
 - Operational planning and control
- 9. Performance evaluation
 - Monitoring, measurement, analysis & evaluation
 - Internal audit
 - Management review
- 10. Improvement
 - Non conformity and corrective action
 - Continual Improvement



P-D-C-A Approach – ISO 14001:2015





2 - Understand Organizational Context





To understand the context means to define the external and internal factors that the organizations must consider when managing risks





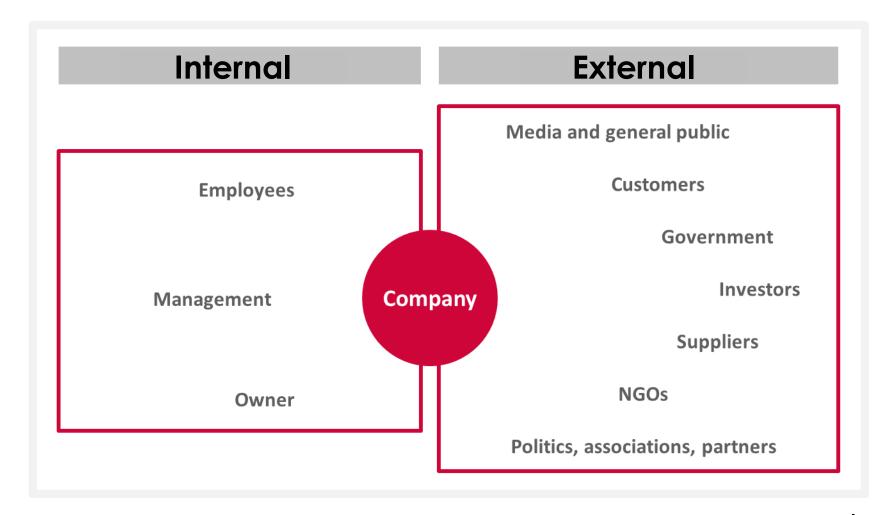
Internal and External Issues

Environmental Conditions (that can either affecting the organization purpose or are affected by the organization's environmental aspects)	 Climate Air quality Water quality Land use Contamination Natural resources availability Biodiversity
External Issues	 Cultural Social Political Legal & regulatory Financial Technological Economic Natural and competitive circumstances
Internal Characteristics	 Activities, products and services, strategic direction Culture Capability (People, Knowledge, Processes, Systems)



Political Pessee Constant Con				
Political	Economical	Social		
 Attention from politicians of sourcing raw materials Activism and increased political awareness in developing countries - fair trade practices Monitor political stability within the country Starbucks operates 	 Ongoing global economic recession is the prime external economic driver for Starbucks Rising labor and operational costs Inflationary environment and falling profitability Local currency exchange rates Taxation level 	 Consumer preferences -"green" and "ethical " consumers Changing family patterns in USA and Europe -baby boomer generation is retiring. Spending by older consumers will decrease Changing work patterns Changes in lifestyles of population The level of education of the population in local markets Changing values among population - expand consumer base to include lower and middle-income tiers 		
Technological	Environmental	Legal		
 app based discount coupons introduced Wi-Fi capabilities in its outlets Emergence of innovative technology Biotechnological developments Developments in agriculture 	 Environmental rules and regulations Environmental disasters in countries which produce coffee beans Global warming and other environmental issues in a global level 	 introduction of caffeine production and consumption related policies and regulations by health authorities Introduction of stricter customs and trade regulations Licensing regulations related to the industry 		

Understanding Needs and Expectations





Example of Context & Expectations

Context	lssues	Impacts
External - Environmental condition	Water Scarcity	The lack of water in the region is an operational constraint - reducing output
	Use of water	Intensive use of water resulting damage of sensitive habitats and deprive local communities of water use
	Climate change	Climate change will result in greater water scarcity, with increased pressure on the organization to take action
Internal	Culture	The company has the technological expertise to minimize water consumption in production, but does not have the business culture to appreciate that this is an effective solution
Needs and expectations of interested parties)		NGOs are campaigning against the company due to the environmental impacts of its operations, investors are highly concerned and the reduced revenue resulting from production lost



Understanding of Issues

Organizational Context: Internal Issues and External Issues including Environmental Condition

> Interested Parties: Needs and Expectations

> > Use EMS as a tool to address these issues



3 - Management Leadership and Commitments





LEADERSHIP

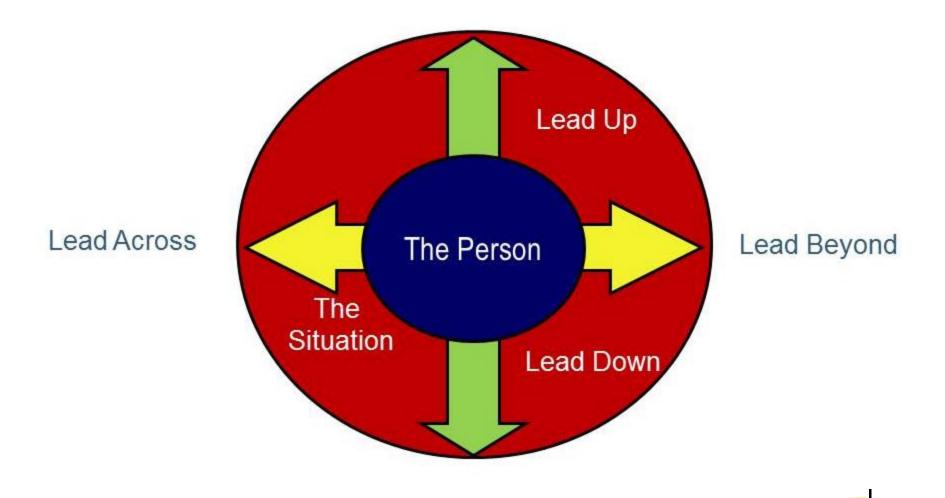
Leadership is action, not position

-Donald H. McGannon



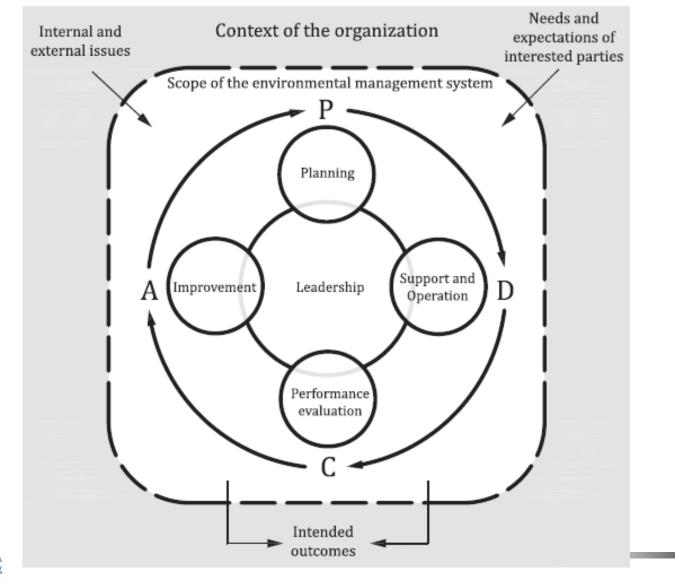


The Dimensions of Leadership





ISO 14001:2015 and Leadership





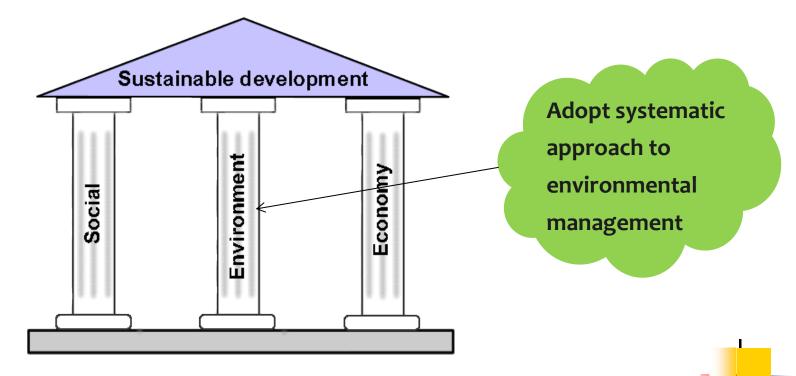
4 - Environmental Commitments





Concept of Sustainable Development

 Implementing environmental management systems with an aim to contribute to the 'environmental pillar' of sustainable development





Environmental Commitments

- From "pollution prevention" to "environmental protection"
 - Environmental protection includes:
 - pollution prevention,
 - sustainable use of resources,
 - climate change mitigation and adaptation
 - conservation of ecosystem
- Emphasize EMS intended outcome:
 - Enhancement of environmental performance
 - Fulfillment of compliance obligation

Achievement of environmental objectives

5 - Life Cycle Consideration of Environmental Aspects





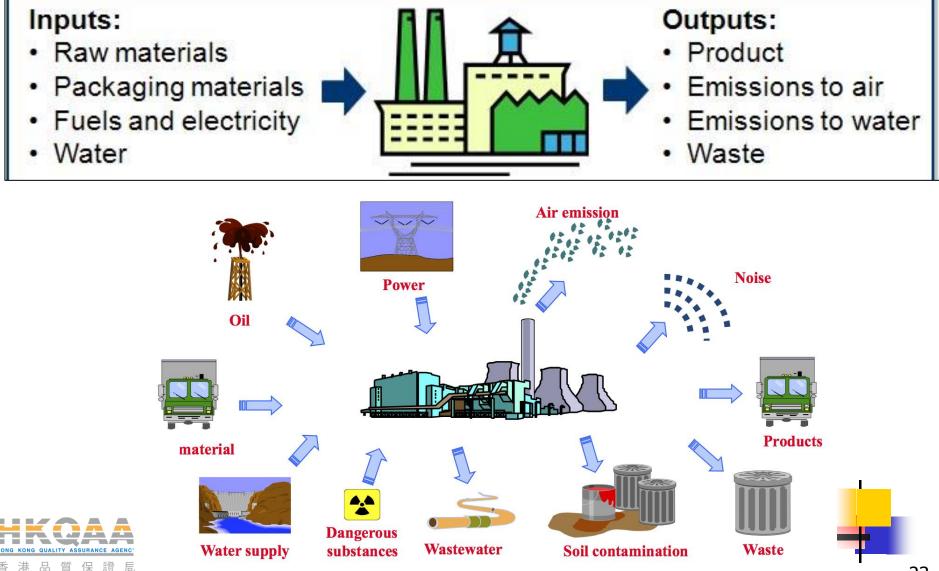
Environmental aspects are the building blocks of the EMS!!





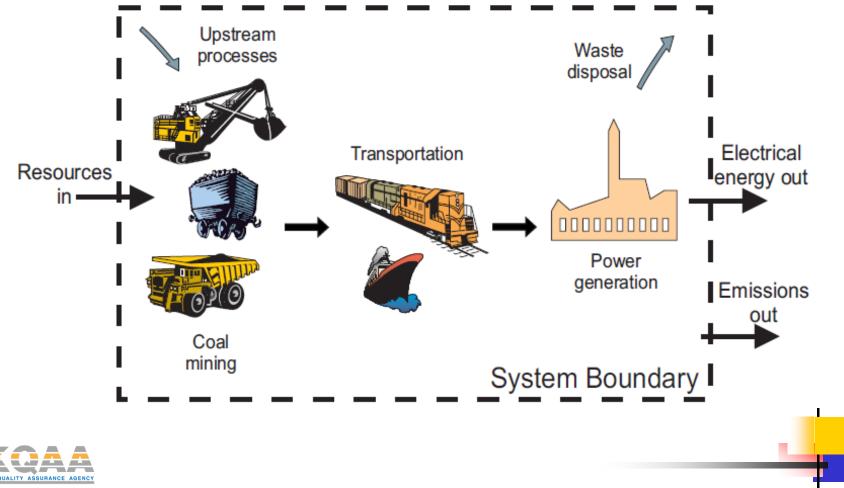


Aspects Identification Process input & output

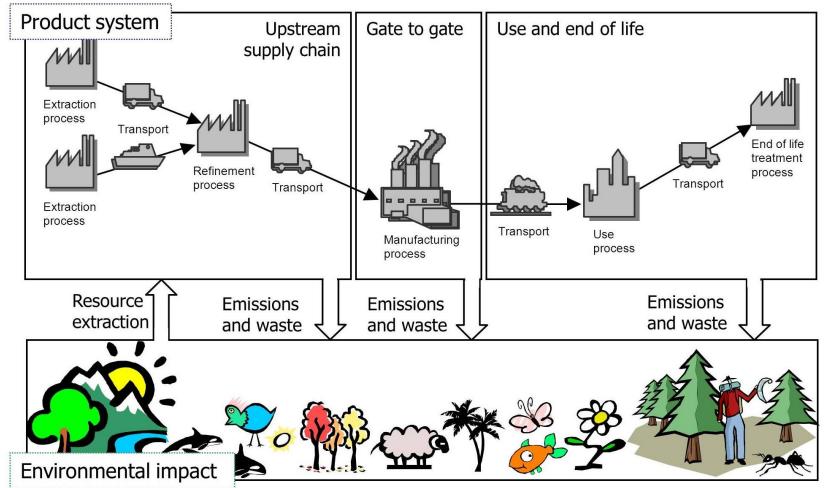


Life Cycle Perspective

Incorporate life-cycle consideration

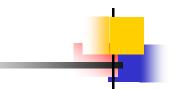


香港品質保證局



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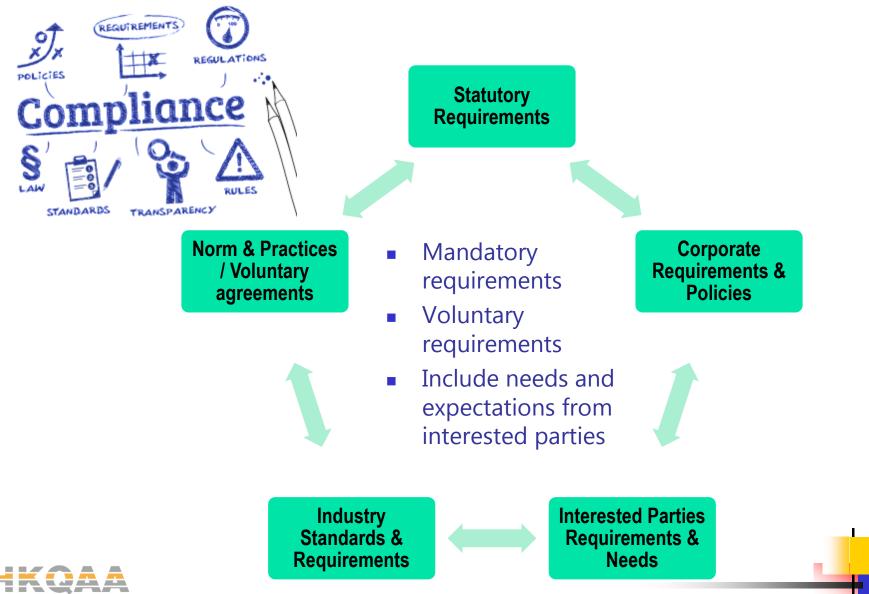


6 - Compliance Obligation





Compliance Obligations



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Compliance Obligation



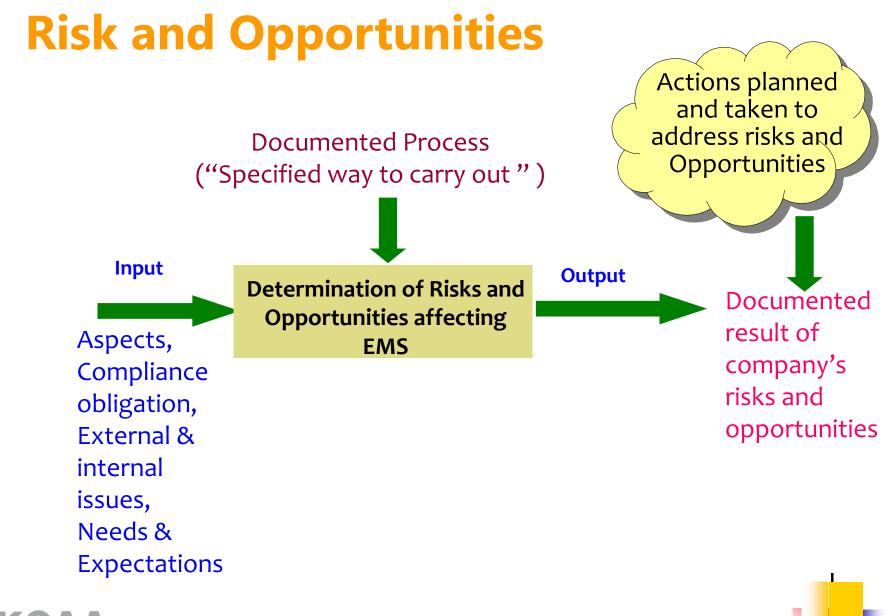




7- Risks and Opportunities









8 - Documented Information





Maintain Documented Information	Retain Documented Information as Evidence
Scope of EMS	Competence
Environmental Policy	Communication
Actions to address risks and opportunities •Risk & Opportunities •Process	Monitoring, measurement, analysis & evaluation
Environmental aspects •Aspects & impact •Criteria to determine significant environmental aspects •Significant environmental aspects	Evaluation of compliance
Compliance obligations	Internal audit programme & results
Environmental objectives	Management Review
Operational planning & control	Non conformity & corrective action
Emergency preparedness and response	

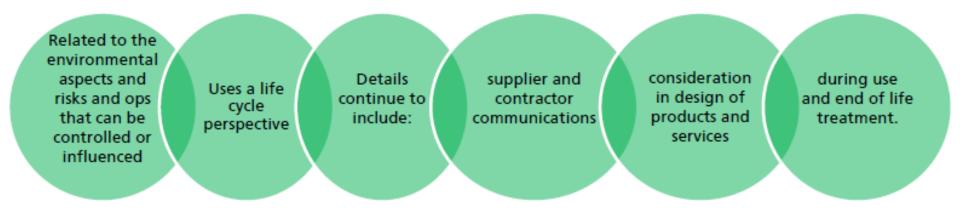


9 - Supply Chain Management





Supply Chain Management



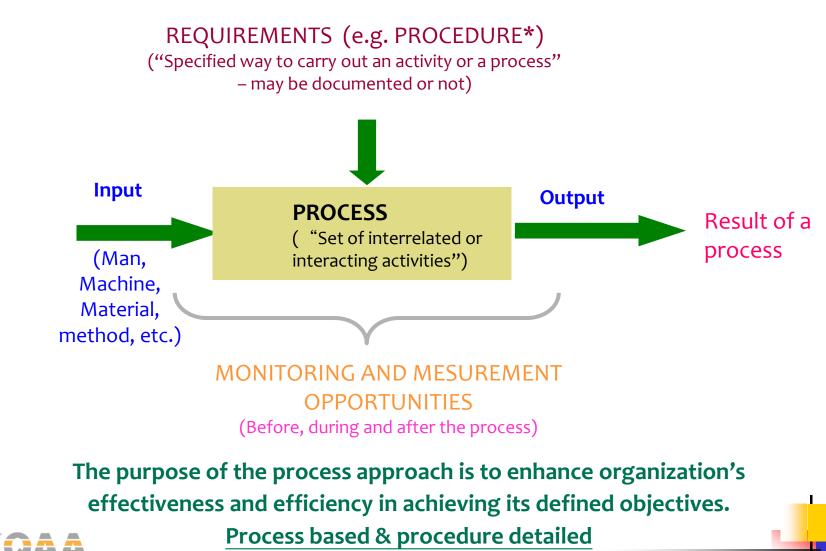


10 – Process approach instead of Procedures





From Procedure to Process





End



