

# ISO 14001:2015 Transition Presentation

Presented by Fredric Leung



ISO 14001:2015



Accredited Certification Int'l Ltd.





**ACI**

**Accredited Certification  
International Limited**  
國際認可認證有限公司

*Y*

**OUR TRUSTWORTHY PARTNER**  
*in Certification & Assessment,  
Professional & Customized Services,  
Management Training Programmes*  
您的可靠夥伴 · 認證和評估 ·  
專業和客戶需求服務 · 管理培訓項目

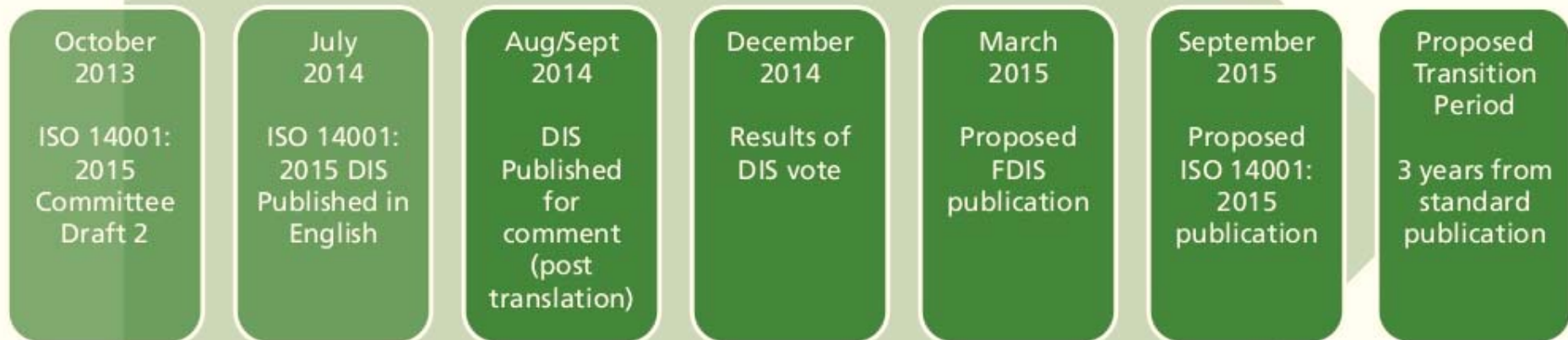
# ISO Technical Committees TC 207



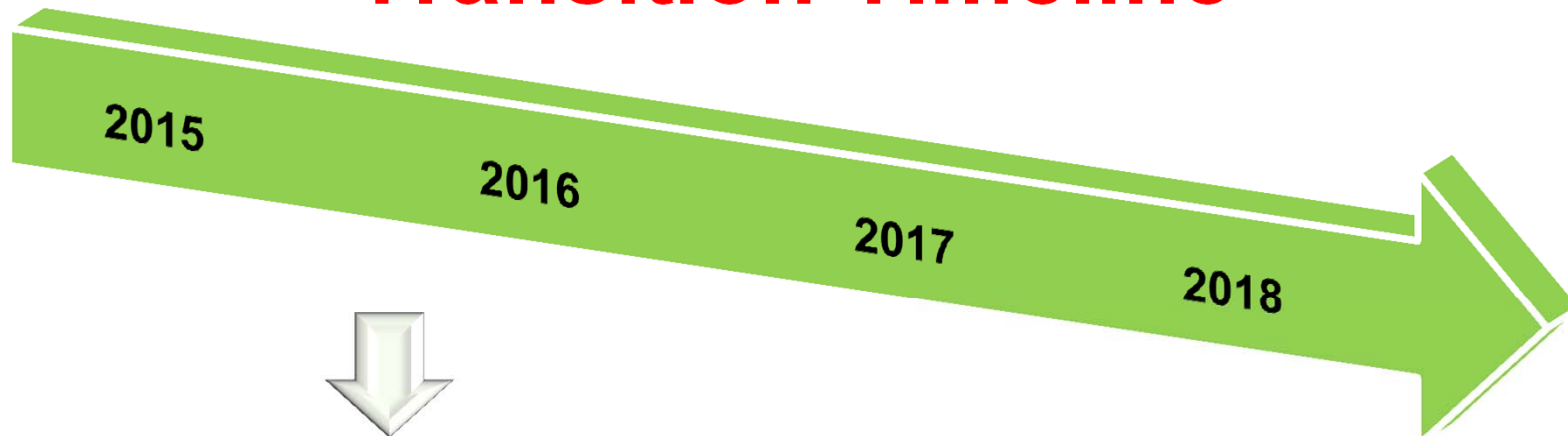
- “ISO” = International Organization for Standardization
- Standards development work is done by Technical Committees comprising experts nominated by their national standards body or liaison organization.
- “TC 207” = Technical Committee Number 207 for Environmental Management
- “TC 207/SC 1” is the subcommittee responsible for ISO 14001
- The TC for environmental management will have close cooperation with ISO / TC 176 in the field of environmental systems and audits.



# ISO 14001:2015 Timeline



# ISO 14001:2015 Certification Transition Timeline



**September 2015**  
Published International  
Standard

**September 2015 start of 3 years transition period  
to September 2018**

- Certifications to ISO 14001:2004 will no longer be valid after September 2018

**A**ccreditation  
**C**ustomer Care  
**I**ntegrity



# Development of ISO14001

- 1992 – BS7750
- 1996 – ISO14001:1996 (1<sup>st</sup> issue)
- 2004 – ISO14001:2004 (2<sup>nd</sup> issue)
- 2015 – ISO14001:2015 (3<sup>rd</sup> issue)



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

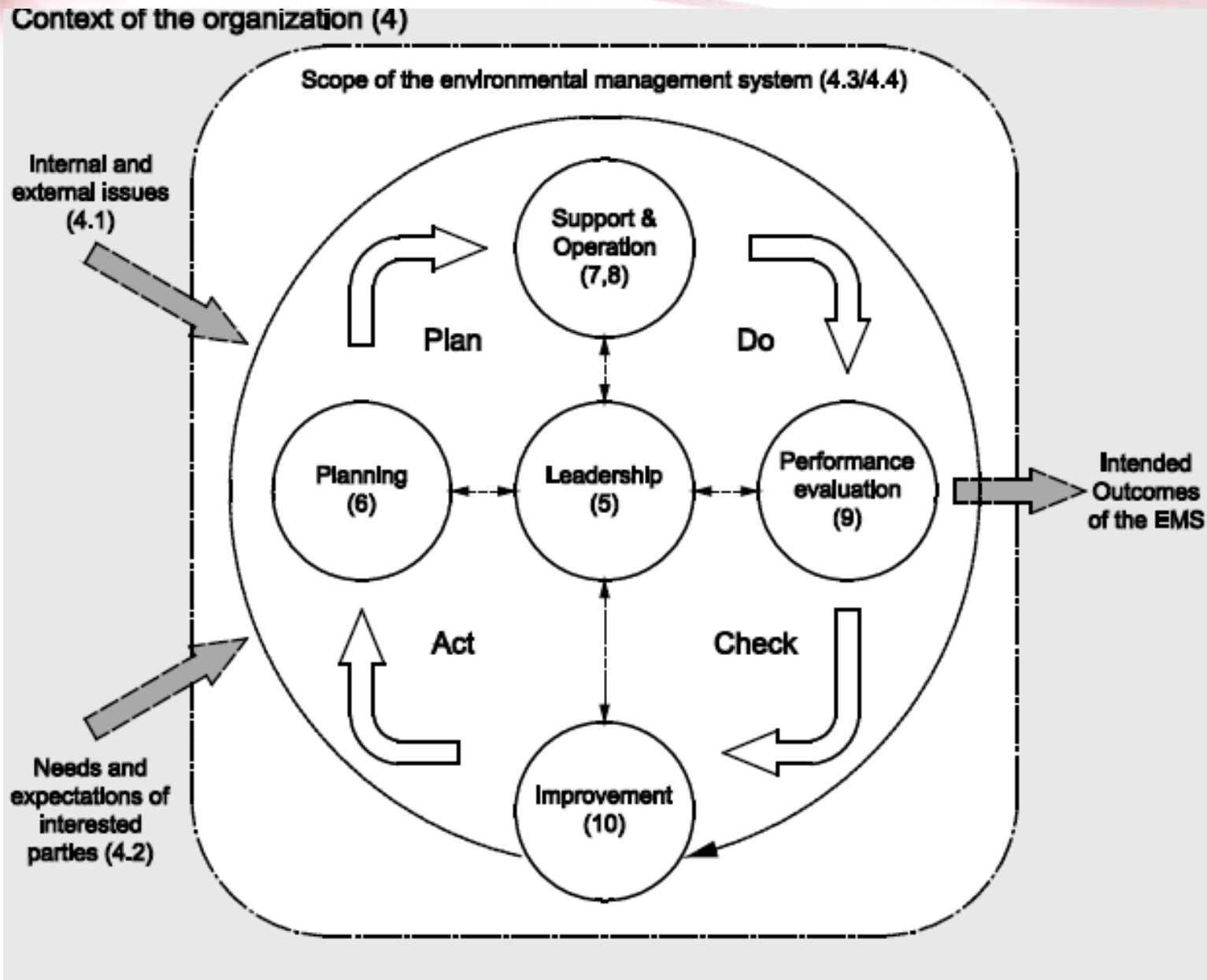
# Core concepts of new standard

- Process approach
- Plan-Do-Check-Act cycle
- Risk-based thinking



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

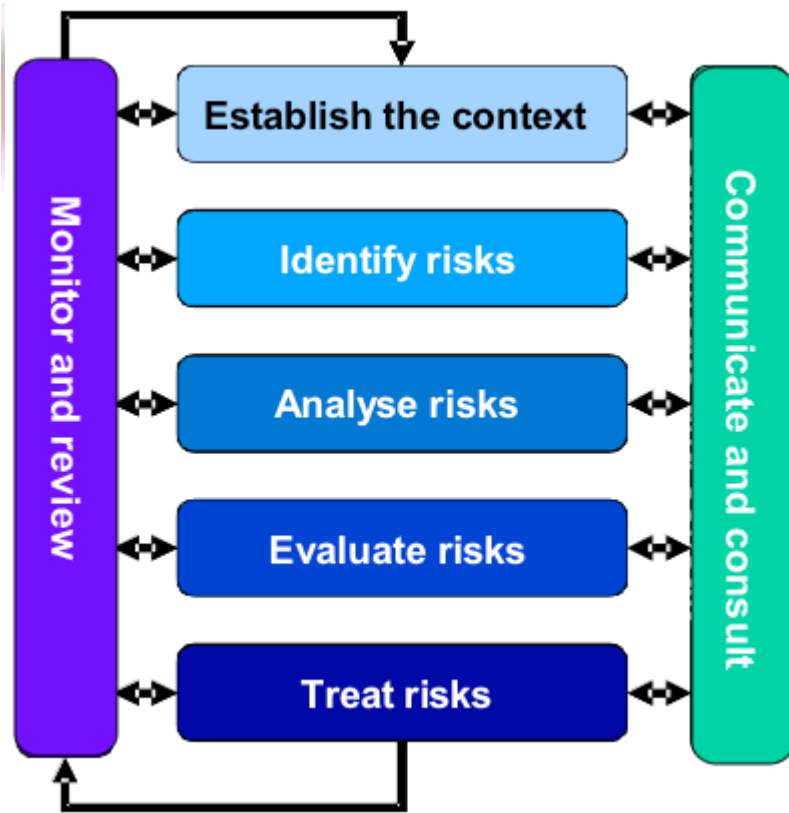
# Process approach / PDCA cycle



Note: Numbers in brackets refer to the clauses in this International Standard.

**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

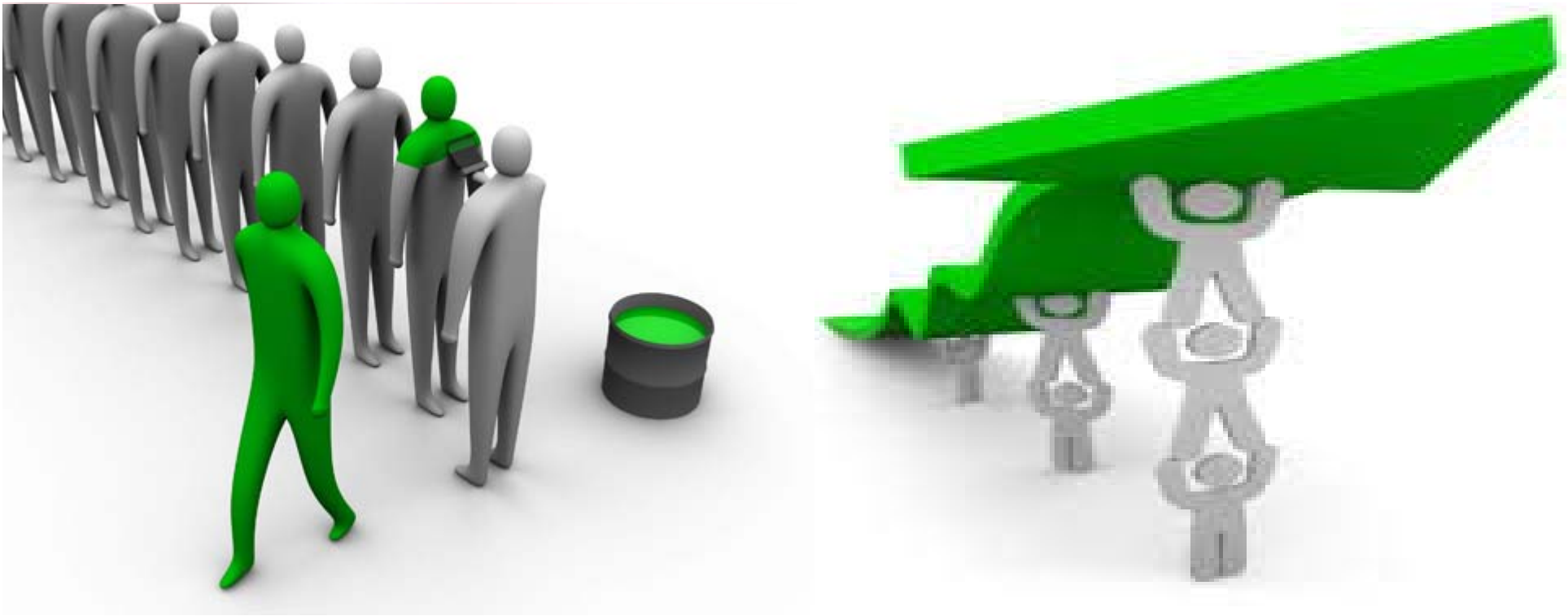




# Risk-based thinking



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity



# What are the changes?

**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

# High level structure

## ISO Directives Part 1:2012 “Annex SL”

A new common format has been developed for use in all management system standards:

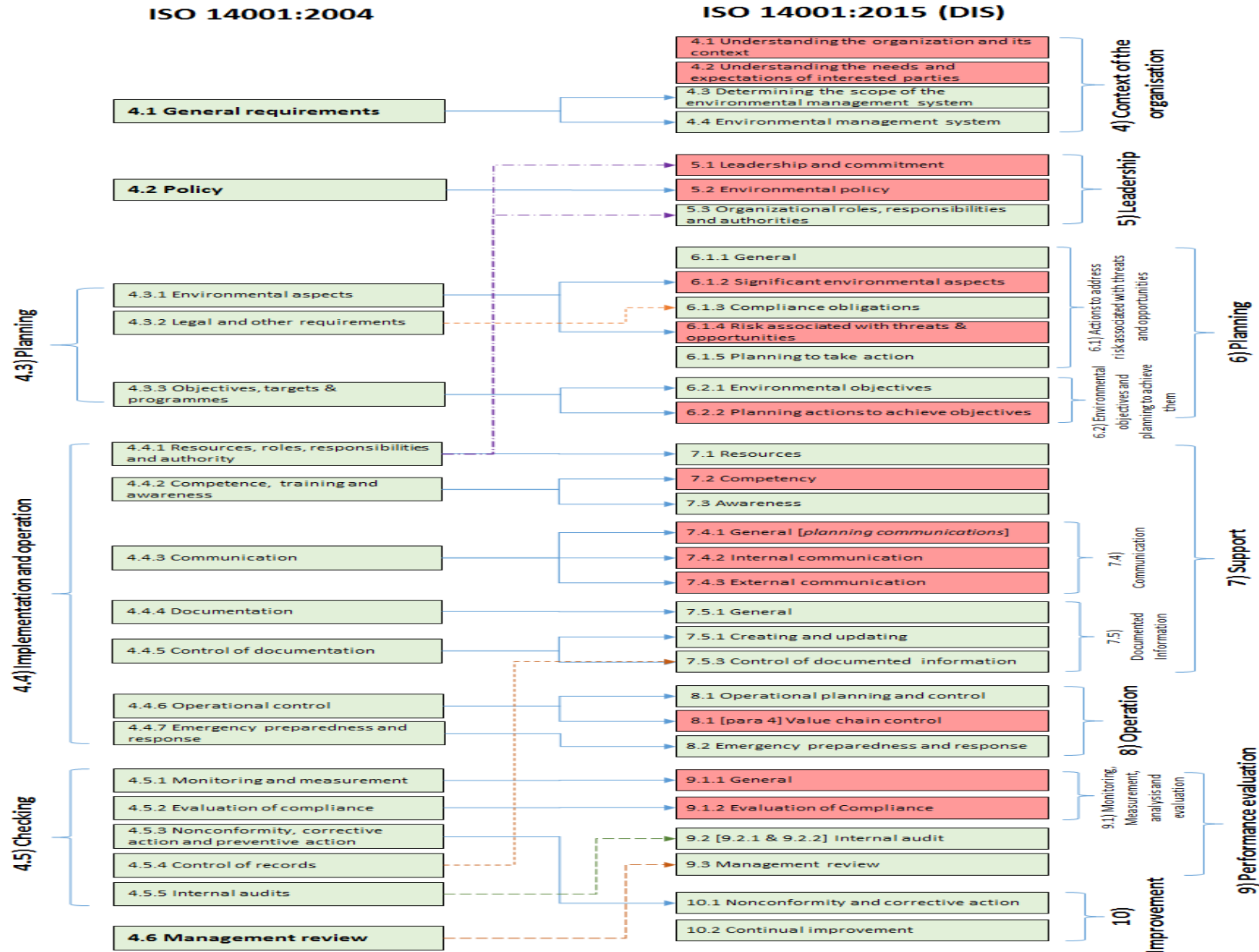
- *standardized core text and structure for multiple ISO management systems for integration*
- *standardized core definitions*



The high level structure and common text is public information and can be found in Annex SL of the [www.iso.org/directives](http://www.iso.org/directives)



# ISO 14001:2004 Vs ISO 14001:2015



# Main changes



- An explicit requirement for risk-based thinking to support and improve the understanding and application of the process approach.
- Context of the organization must be understood
  - Increasing awareness of its relationship with the environment
  - Increased emphasis on interested parties

**A**ccreditation  
**C**ustomer Care  
**I**ntegrity



# Main changes

- Greater integration with strategic direction and business processes
- EMS planning enhanced
  - risks associated with threats and opportunities
  - preventive action replaced by risk
- Demonstrable EMS leadership from Top Management
- Processes more explicit
- Life cycle perspective
- Common term: 'Documented information'



# Structure of ISO 14001:2015

- 1 Scope
- 2 Normative references
- 3 Terms and definitions
- 4 Context of the organization
  - 4.1 Understanding the organization and its context
  - 4.2 Understanding the needs and expectations of interested parties
  - 4.3 Determining the scope of EMS (Boundary)
  - 4.4 Environmental management system
- 5 Leadership
  - 5.1 Leadership and commitment
  - 5.2 Environmental policy
  - 5.3 Organizational roles, responsibilities and authorities
- 6 Planning
  - 6.1 Actions to address risks associated with threats and opportunities
    - 6.1.1 General
    - 6.1.2 Significant environmental aspects (a life cycle perspective)
    - 6.1.3 Compliance obligations
    - 6.1.4 Risk associated with threats and opportunities
  - 6.2 Environmental objectives and planning to achieve them
- 7 Support
  - 7.1 Resources
  - 7.2 Competence
  - 7.3 Awareness
  - 7.4 Communication
  - 7.5 Documented information

# Structure of ISO 14001:2015

## 8 Operation

- 8.1 Operational planning and control
- 8.2 Emergency preparedness and response

## 9 Performance evaluation

- 9.1 Monitoring, measurement, analysis and evaluation
  - 9.1.1 General
  - 9.1.2 Evaluation of compliance
- 9.2 Internal audit
- 9.3 Management review

## 10 Improvement

- 10.1 Non-conformity and corrective action
- 10.2 Continual improvement

## 4. Context of the Organization

### 4.1 Understanding the organization and its context

The organization must determine external and internal issues relevant to its purpose and that affect its ability to achieve the intended outcome(s) of its EMS

Environmental Conditions: climate, air quality, land use, existing contamination, natural resource availability, biodiversity, etc.

# 4. Context of the Organization

## 4.1 Understanding the organization and its context

### External issues

- Culture
- Social
- Political
- Legal
- Regulatory
- Financial
- Technological
- Economic
- Natural
- Competitive context  
(International, national, regional or local)

### Internal issues

- Activities
- Products and services
- Strategic direction
- Culture
- People
- Knowledge
- Processes
- Systems



## 4. Context of the Organization

### 4.2 Understanding the needs and expectations of interested parties

The organization must determine

- Interested parties relevant to the EMS
- The relevant needs and expectations of these interested parties
- Which of these needs and expectations become compliance obligations

Interested parties may include:

- Direct customers
- End users
- Suppliers and partners
- Regulators
- Employees
- Owners/shareholders



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

## 5.1 Leadership and commitment

Top management shall demonstrate leadership and commitment ...by:

**Ensuring** (i.e. someone else can do it)

- the environmental policy and objectives are established and are compatible with the strategic direction and the context of the organization;
- the environmental policy is communicated within the organization, including persons doing work under the organization's control, and available to interested parties;
- integration of the EMS requirements into the organization's business processes;
- the resources needed for the EMS are available;
- the EMS achieves its intended results



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

# 5.1 Leadership and commitment

Top management shall demonstrate leadership and commitment ...by:

**Doing** (i.e. they must do it themselves)

- taking accountability of the effectiveness of the EMS;
- communicating the importance of effective environmental management and of conforming to the EMS requirements;
- directing and supporting persons to contribute to the effectiveness of the EMS;
- promoting continual improvement;
- supporting other relevant management roles to demonstrate their leadership as it applies to their areas of responsibility





## 6.1 Actions to address risks and opportunities

When planning the EMS, the organization shall consider the issues ... in 4.1 and the requirements ... in 4.2

6.1.2 Significant environmental aspects  
- considering a life cycle perspective

6.1.4 Risk associated with threats and opportunities  
- give assurance that the EMS can achieve its intended outcome(s)  
- prevent, or reduce, undesired effects, including potential for external environmental conditions to affect the organization  
- achieve continual improvement

## 8.1 Operational planning and control

- Explicit requirements for establishing criteria and implementing control of processes
- Now places greater emphasis on the concept of the 'life cycle perspective' that impacts the EMS.
- Looks at how organizations control changes and outsource specific processes
- Organisation will ensure that outsourced processes are controlled



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity

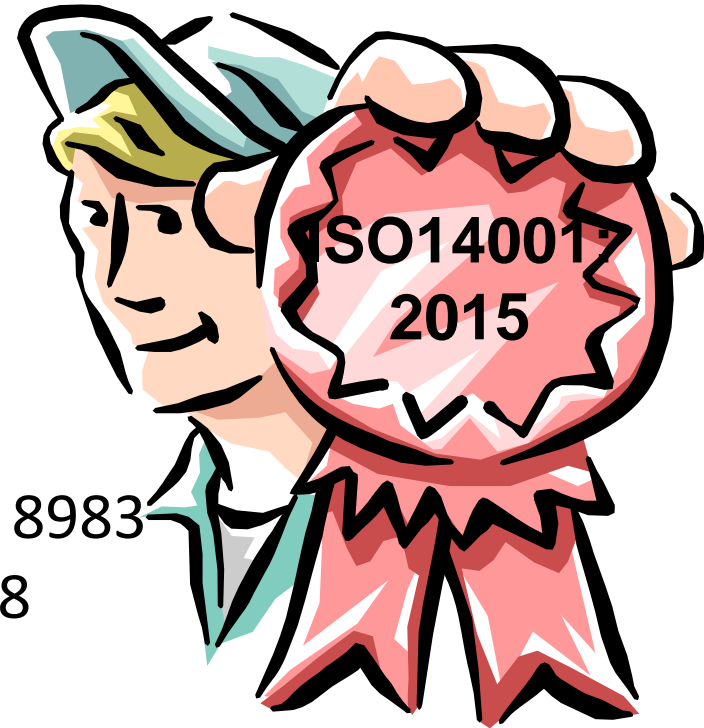


# 9.1 Monitoring, measurement, analysis and evaluation

- Organisation must determine:
  - what needs to be monitored and measured
  - methods for doing this along with analysis and evaluation
  - the criteria against which the organization will evaluate its environmental performance, using appropriate **indicators**
- Appropriate documentation as evidence of the above

- ISO is aligning its portfolio of management system standards
- ISO 14001 is undergoing a “major revision”
- At DIS stage at the moment – scheduled publication in Sep 2015
- Significant changes in structure and clause sequence
- Process Approach + PDCA + Risk-based thinking
- Some new requirements
- Start preparing for the transition NOW!

*Any Questions?  
Thank You!*



Training Dept:3977 8983

ACI Tel: 3977 8988

Fax:2806 1940

Training E-mail: [training@aci-limited.com](mailto:training@aci-limited.com)

ACI E-mail: [enquiry@aci-limited.com](mailto:enquiry@aci-limited.com)

[www.aci-limited.com](http://www.aci-limited.com)



**A**ccreditation  
**C**ustomer Care  
**I**ntegrity