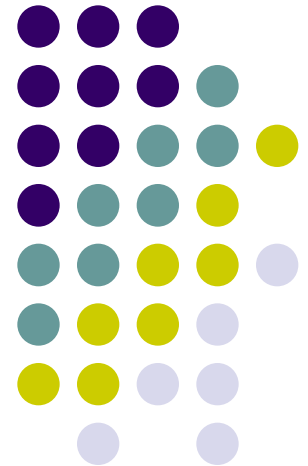


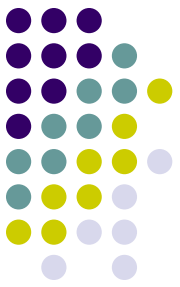
# Systematic Approaches to Managing Sustainability Risks - Latest News about ISO 31000, ISO 45001 and ISO 50001



**HKQAA Symposium 2018**

Dr Nigel H Croft

# First a word about the new ISO 9004:2018 standard.....



- “Quality of an organization - Guidance to achieve sustained success” (April 2018)
  - 100% positive ballot within ISO
- Definition of “Sustained Success”
  - Achievement of objectives over a period of time
    - emphasizes need for balance between economic-financial interests and social / ecological environment.
    - relates to an organization’s interested parties, such as customers, owners, people in the organization, providers, bankers, unions, partners or society.

# Taken from ISO 9004:2018.....



“Processes should operate together within a coherent management system. This includes:

- quality of products and services, including cost, quantity and delivery (e.g. ISO 9001);
- health, safety, security (e.g. ISO 45001, ISO/IEC 27001);
- environment, energy (e.g. ISO 14001, ISO 50001);
- social responsibility, anti-bribery, compliance (e.g. ISO 26000, ISO 37001, ISO 19600);
- business continuity, resilience (e.g. ISO 22301, ISO 22316)”.

# Risk

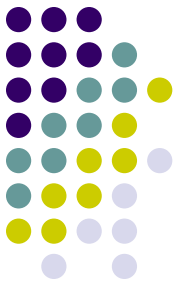
- “the potential of losing something of value, weighed against the potential to gain something of value” (Wikipedia).



“effect of uncertainty on objectives” (ISO 31000)

- Can be positive or negative
- Uncertainty is the state, even partial, of deficiency of information related to, understanding or knowledge of an event, its consequence, or likelihood

# Opportunity



- “a time or set of circumstances that makes it possible to do something” (Wikipedia)



# ISO 31000



- “Risk management – Principles and Guidelines”
- First published 2009; updated in 2018
  - Simplified and streamlined content
  - Principles of risk management revised and simplified
  - Emphasis on leadership by top management
  - Need for integration of risk management, starting with the governance of the organization;
  - Greater emphasis on the iterative nature of risk management (new experiences, knowledge and analysis)

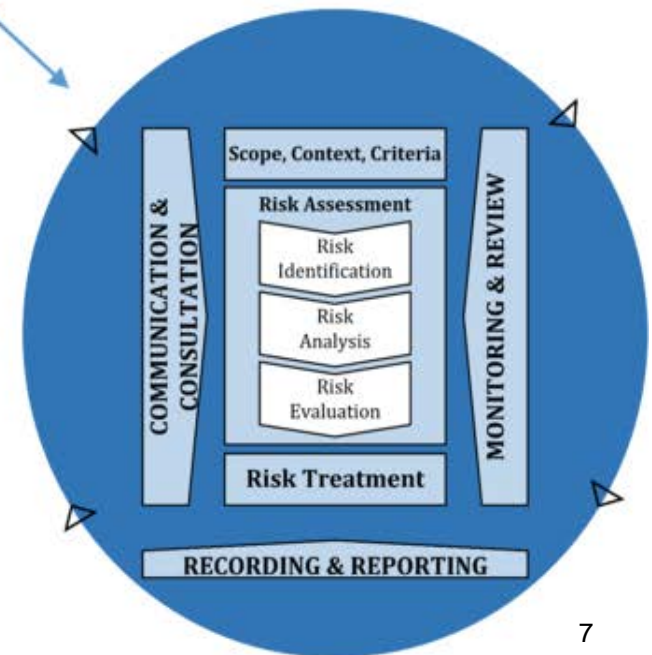
# Framework of ISO 31000:2018



Principles (clause 4)

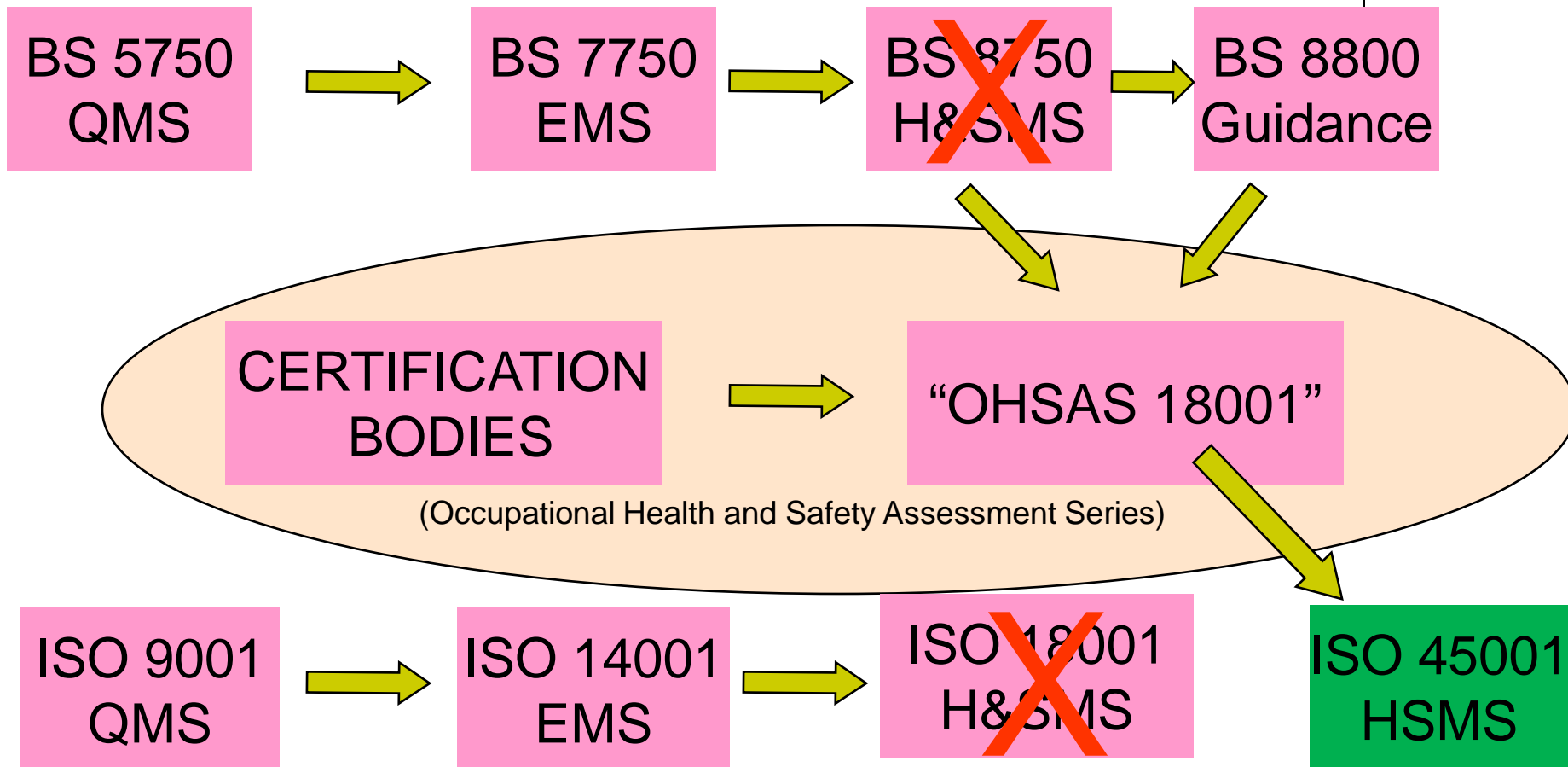
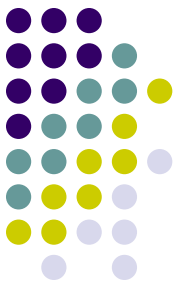


Framework (clause 5)



Process (clause 6)

# “The long and tortuous path to ISO 45001”



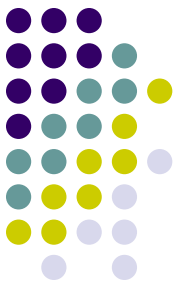


# Key features of ISO 45001



- Aim is to help organizations minimize the risk of harm to all those working on its behalf (defined as “workers” within the standard)
- Provides a platform for continual improvement in occupational health and safety performance
- Integrates OH&S within an organization’s overall business management system
- Key focus is to enhance clarity and compatibility (of the current OHSAS 18001 standard) with other management system standards.

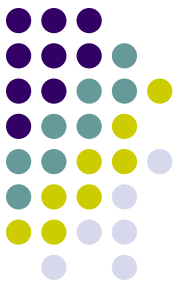




# Key features of ISO 45001

- Enhancing leadership involvement and worker participation in the management system
- Need for top management to demonstrate leadership and to be held accountable for OH&S management
- Alignment of the OH&S policy and objectives with the strategic direction of the organization
- Simplified language, common structure and terms
- Risk-based thinking for the management system, as well as for analysis of hazards



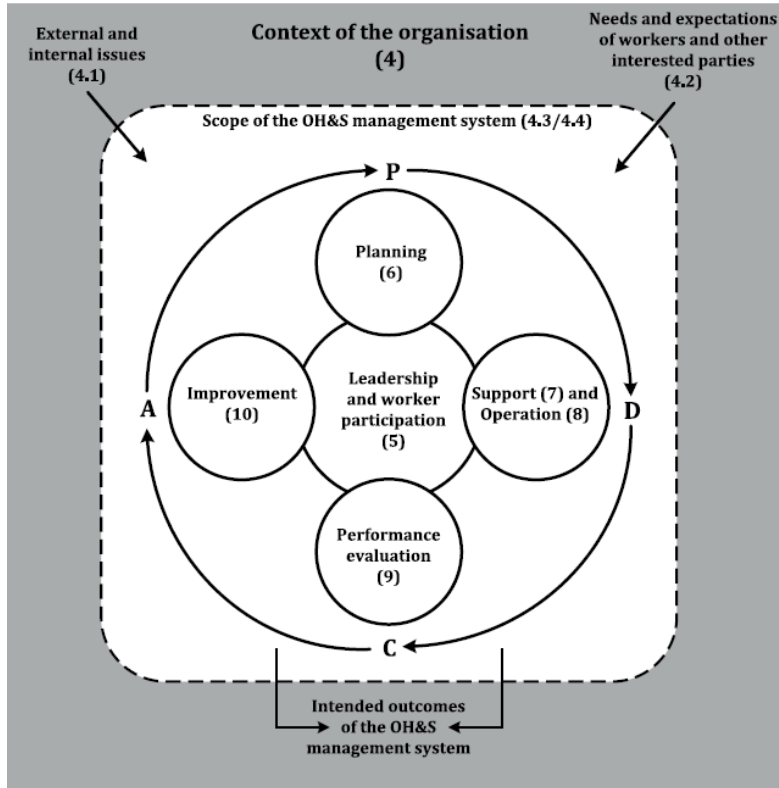
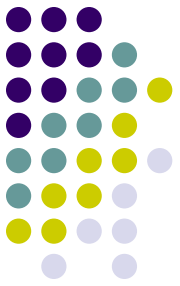


# Key features of ISO 45001

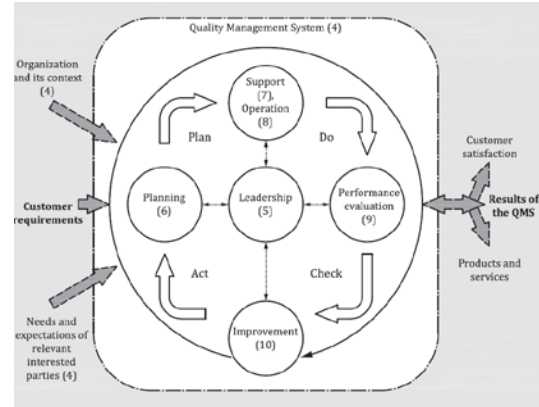
- Need to prevent ill-health (including mental ill-health), as well as injuries
- Need to recognize that the causes of ill-health and injuries can be through
  - immediate impacts (e.g. accidents or epidemics)
  - longer term impacts (such as repeated exposure to radiation or carcinogenic chemicals, or to a constantly stressful working environment)
- Worker participation in the identification of hazards and risks and the development and operation of the OH&S management system



# Clause interactions – looks familiar??



**ISO 45001**

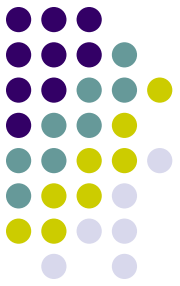


**ISO 9001:2015**



**ISO 14001:2015**

# Next steps for ISO 45001



- Certified organizations will have a 3-year “migration” period after publication (for existing OHSAS 18001 certificates)
- Planning is more complex than for ISO 9001 or ISO 14001:
  - OHSAS 18001 is not an ISO standard.
  - Some countries have adopted OHSAS 18001 as a national Standard
  - Not all Accreditation Bodies offer accreditation to OHSAS 18001
  - Some countries have incorporated OHSAS 18001 into their legal requirements.
- Because ISO 45001 is considered as a “New” standard, IAF has determined that CBs are permitted to issue UNACCREDITED certificates, that have to be transitioned to accredited certs once the ABs are ready.

# Some of the standards in the ISO 50000 series



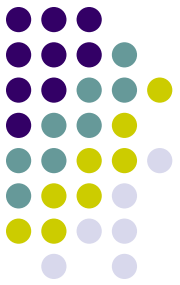
- **ISO 50001** Energy management systems -- Requirements with guidance for use (Published 2011; currently under revision)
- **ISO 50002** Energy audits -- Requirements with guidance for use
- **ISO 50003** Requirements for bodies providing audit and certification
- **ISO 50004** Guidance for implementation, maintenance and improvement of an energy management system
- **ISO 50006** Measuring energy performance using energy baselines (EnB) and energy performance indicators (EnPI) -- General principles and guidance

# New ISO 50001: 2018

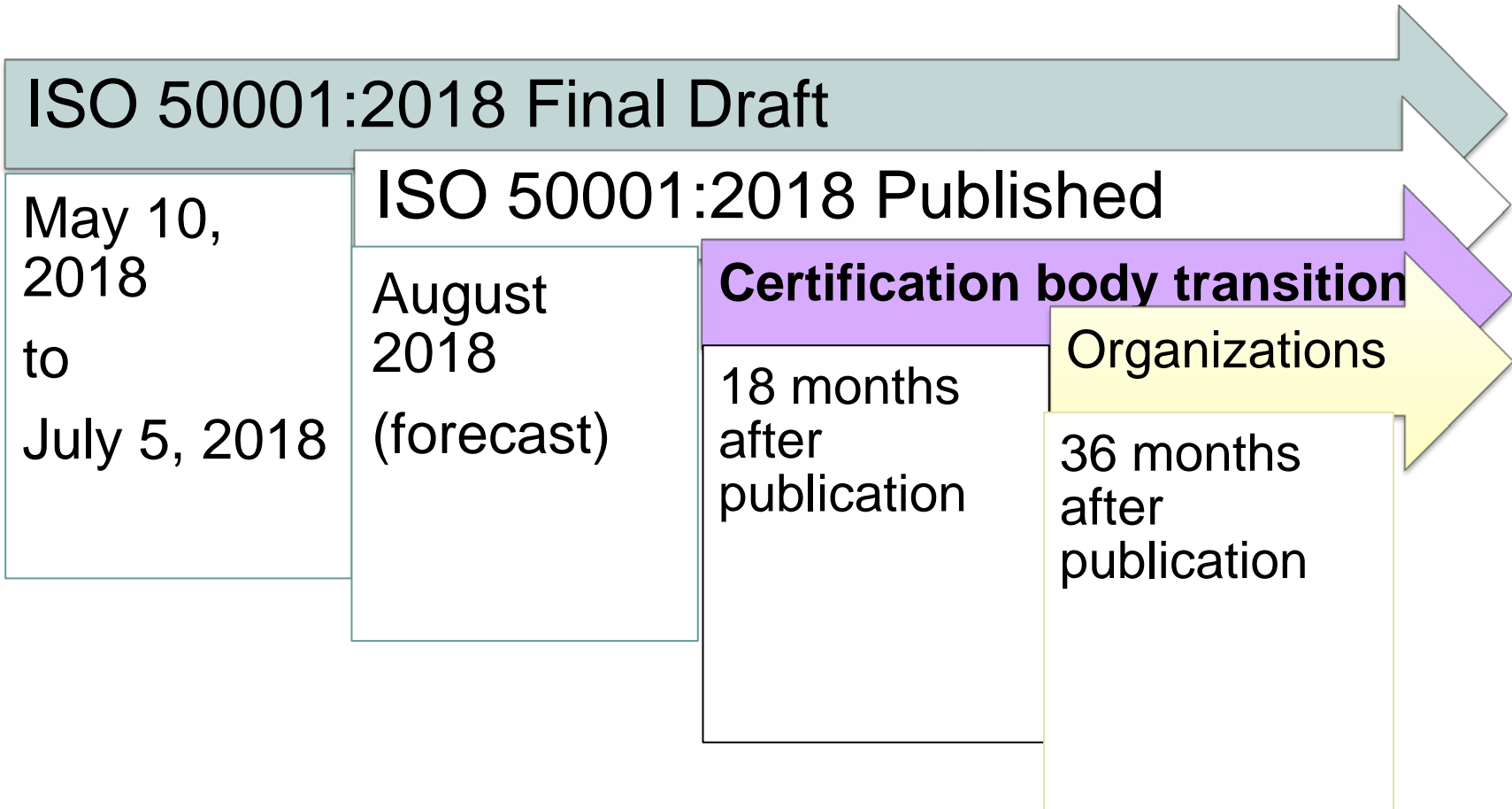


- Adopts ISO's High Level Structure (HLS)
- Supports integration with strategic management processes
- Clarification of language and organization
- Stronger emphasis on role of top management
- Terms and definitions updated
- Added new definitions, including energy performance improvement
- Clarifies that types of energy within the EnMS scope and boundaries cannot be excluded
- Clarifies energy review
- Adds details on the energy data collection plan (previously energy measurement plan)
- Normalizes EnPIs and associated energy baselines (EnBs)
- Clarifies EnPI and EnB text to improve understanding of these concepts





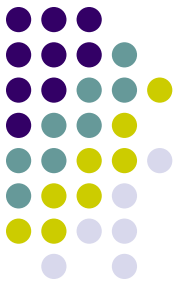
# ISO 50001 Revision Timeline



[Slide courtesy Dr D. Desai]



# Conclusions



- 2018 will see the publication of some new standards and revisions to existing standards within the ISO portfolio to support sustainable development:
  - ISO 9004 – Guidelines for sustained success of an organization
  - ISO 31000 – Guidelines for Risk Management
  - ISO 45001 – Requirements for health & Safety Management
  - ISO 50001 – Requirements for Energy management
- Use the standards wisely, and they can help to promote HK's sustainability initiatives

# THANK YOU!

[nhc@tcaglobal.org](mailto:nhc@tcaglobal.org)

