From Sustainable Construction to Sustainable Procurement: The Past and Future of ISO's Sustainability Standards

HKQAA Symposium 2017

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UN 2030 Sustainable Development Goals









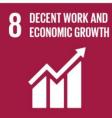






SUSTAINABLE CITIES

























In Nov 2015, World Leaders committed to 17 Global Goals to achieve 3 extraordinary things in the next 15 years.

End extreme poverty. Fight inequality & injustice. Fix climate change.

The Global Goals for sustainable development could get these things done. In all countries. For all people.

https://sustainabledevelopment .un.org/?menu=1300



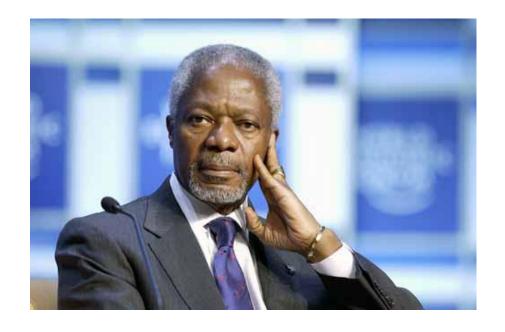
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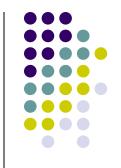


Nobel Peace Prize 2001

"ISO standards are crucial to sustainable development as they are key source of technological know how"

Kofi Annan, ISO General Assembly, sept. 2004

The role of Standards in the context of Sustainable Development Goals

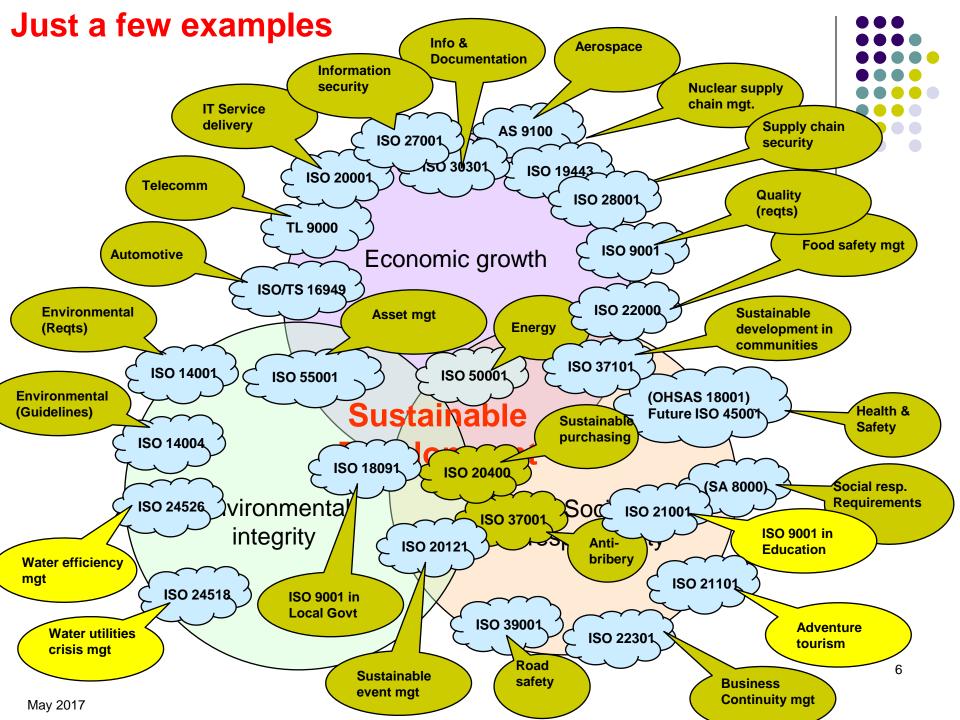




Joint UNIDO, IEC, ISO and ITU (World Standards Cooperation) brochure highlights

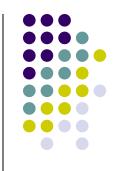
- Goals of Standards
- Development of standards
- How standards can support achieving the 2030 development agenda
- How international standards can support the implementation of specific SDGs

https://www.unido.org/fileadmin/user_media_upgrade/What_we_do/Topics/Quality_and_compliance/SDG_Standards___2_.pdf



Some standards and certification schemes. ISO 26000*, SA 8000, BSCI etc ISO 22000/ FSSC 22000 * NOT a Management System Standard, but can 2 ZERO HUNGER 3 GOOD HEALTH AND WELL-BEING 5 GENDER EQUALITY 4 QUALITY EDUCATION be implemented within a MS **#** ISO 50001 8 DECENT WORK AND ECONOMIC GROWTH 9 INDUSTRY, INNOVATION AND INFRASTRUCTURE 10 REDUCED INEQUALITIES ISO 9001 ISO 14046 Water Footpript ISO 37101 SUSTAINABLE CITIES AND COMMUNITIES RESPONSIBLE CONSUMPTION AND PRODUCTION Sustainable THE GLOBAL GOALS **OHSAS 18001** development of For Sustainable Development communities ISO 20400 ISO 14064 16 PEACE AND JUSTICE STRONG INSTITUTIONS 17 PARTNERSHA FOR THE GOALS 13 CLIMATE ACTION 14 LIFE BELOW WATER 15 LIFE ON LAND Sustainable **GHG** procurement ISO 14067 Carbon Footprint SO 21929 ISO 37001 **MSC FSC** Sustainability ISO 14001 Anti-bribery indicators in construction (C) Nigel H Croft 2017 - All rights reserved May 2017 7

Some of the standards in the ISO 50000 series



- ISO 50001 Energy management systems -- Requirements with guidance for use
- 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



Sustainable construction.....

	Environmental aspects	Economic aspects	Social aspects
Methodological basics	ISO 15392: General principles ISOTR 21932: Terminology		
	ISO 21929-1: Sustainability Indicators - Part 1 - Framework for the development of indicators and a core set of indicators for buildings ISO/TS 21929-2: Sustainability Indicators - Part 2 - Framework for the development of indicators for civil engineering works		
Framework for methods of assessment of the sustainable performance of construction works - Part 2 – Civil engineering works (to be defined)			
Building Products	ISO 21930: Environmental declaration of building products		

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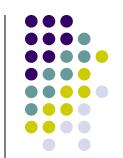
Integrating the ISO 26000 core concepts into purchasing



Social responsibility: Fcore subjects



ISO 20400 Guidance on Sustainable Procurement



"procurement that has the most positive environmental, social and economic impacts possible over the entire life cycle"

Based on ISO 26000 – Social Responsibility Guidance

- 1) Scope 2) Normative References
- 3) Terms and Definitions

4) Fundamentals

(Concepts; principles; core subjects & drivers)

5) Policy & Strategy

(Commitment; accountability; alignment; policies & implementation)

6) Enablers

(Governance; enabling people; identifying & engaging Stakeholders; setting principles; measuring & improving performance)

7) Procurement Process

(Building on existing process; planning; building sustainability into specs; selecting suppliers; managing contracts; learning)

Conclusions



- ISO has a whole range of standards to support sustain able development:
 - Quality
 - Environment
 - Health & Safety
 - Energy
 - Corporate responsibility
 - Sustainable construction
 - Sustainable purchasing
 - Etc
- Use the standards wisely, and they can help to promote HK's sustainability initiatives

THANK YOU!



