

ISO Standards on ECODesign and management systems

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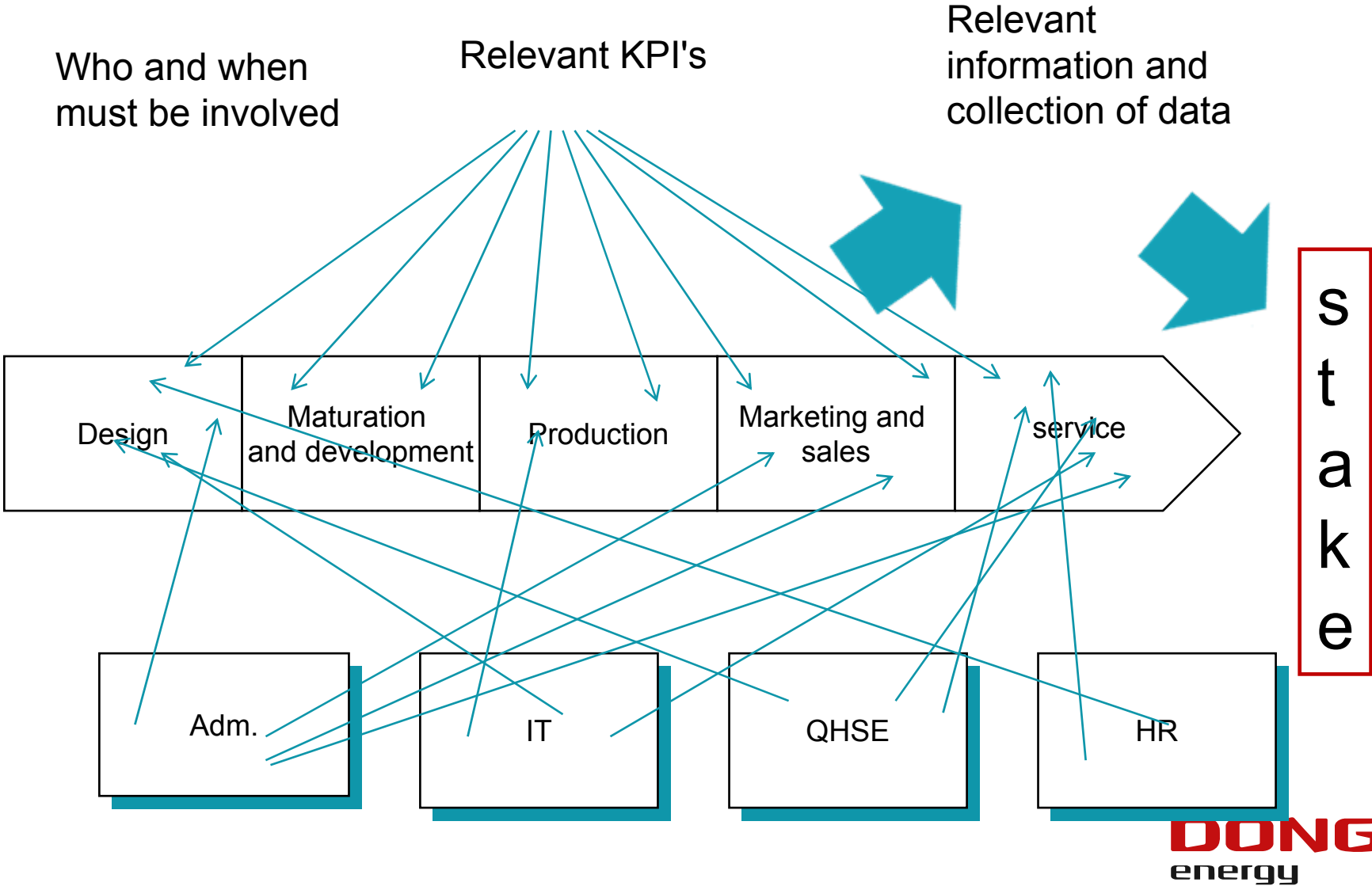
Content of the presentation

- ISO Standards related to ECOdesign and management
- Process management and management system
- ECOdesign according to ISO/TR 14062
- ECOdesign according to ISO 14006

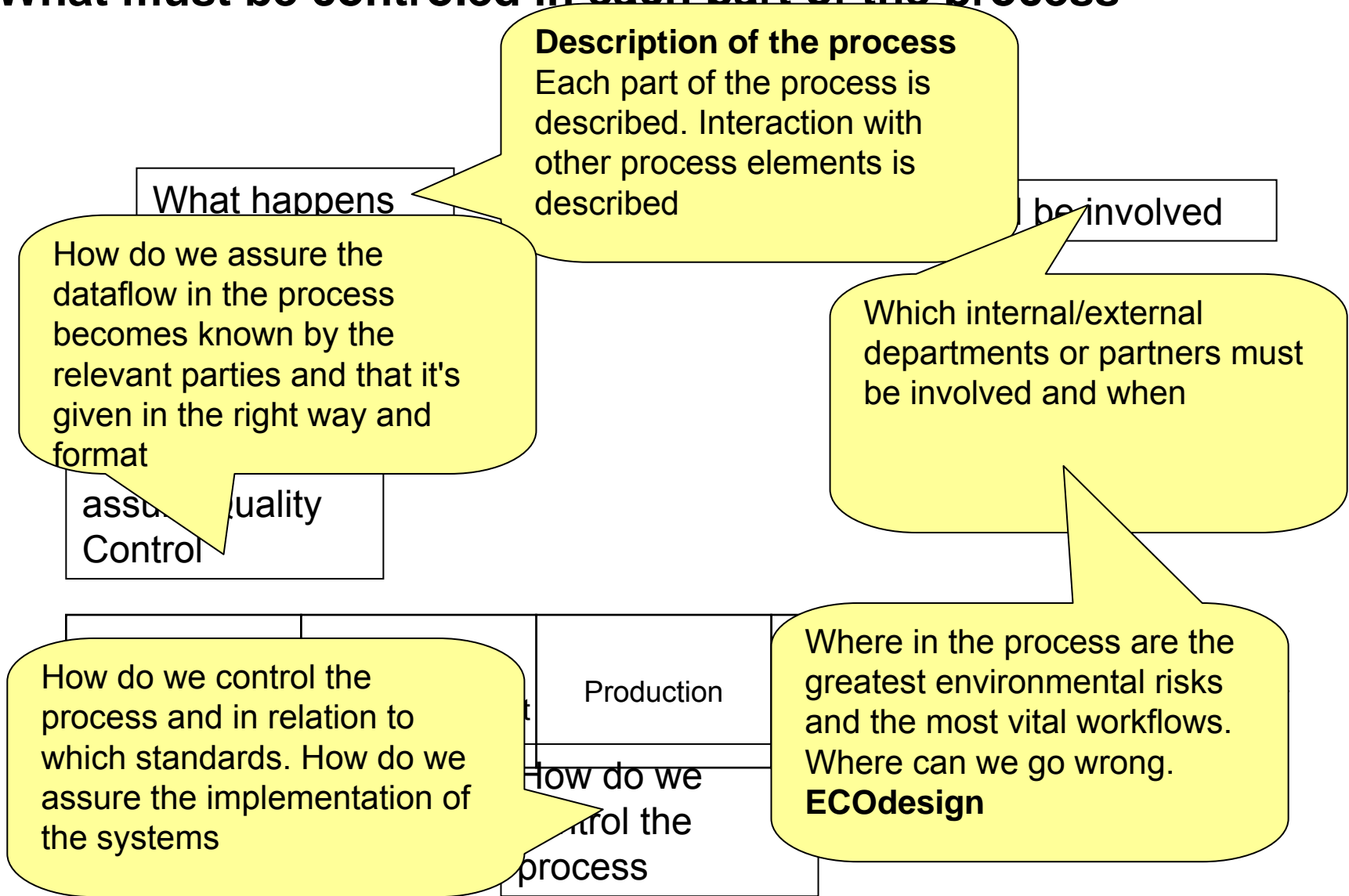
ISO Standards related to ECOdesign and management

- **ISO 14001: 2004** Environmental management systems - Requirements with guidance for use
 - **ISO/TR 14062: 2002** Environmental management - Integrating environmental aspects into product design and development
 - **ISO 14040: 2006** Environmental management – Life cycle assessment - Principles and framework
 - **ISO 9001: 2008** Quality management systems – Requirements
 - **IEC 62430** Environmentally Conscious Design for electrical and electronic products and systems
- New upcoming standard: ISO 14006** Environmental management systems – Guidance on ECOdesign

The process, involvement and KPI's



What must be controlled in each part of the process



ECODesign WHY

- Positive effect on the environment
- Takes into account the whole life cycle
- Provides a better environmental performance of the product plus it saves costs
- Thus, avoiding waste will not only save cost for the disposal but also reduce procuring cost
- Future-orientedness of the enterprise
 - actively assuming responsibility
 - targeted motivation of staff
 - improving corporate image
 - building up confidence and credibility in stakeholders
 - achieving better ratings for the enterprise (e.g. Dow Jones Sustainability Group Index)
 - achieving environment awards and Eco-Labeling
 - complying with new product requirements (e.g.: WEEE and EuP as part of the Integrated Product Policy, IPP-Concept of the EU)

...And

- Innovative products
 - finding innovative products through multidisciplinary work method
 - improving product quality
 - optimum adaptation of product to customer needs
 - optimizing functionality of product
 - realizing new opportunities on the market through environmentally sound high quality products
 - opening up new consumer segments
- Environmental Performance
 - avoiding potential damage to the environment and to corporate image
 - reduction of material and energy input
 - avoiding waste, emissions or toxicity
 - meeting consumers' demand for environmentally friendly products
 - complying with environmental standards
 - complying with legal rules and regulations
 - ensuring workplace safety in the enterprise

ECODesign according to ISO 14062:2002

- This Technical Report describes concepts and current practices relating to the integration of environmental aspects into product design and development, where “product” is understood to cover both goods and services.
- This Technical Report is applicable to the development of sector-specific documents.
- It is not applicable as a specification for certification and registration purposes.
- Especially developed for designers and developers.

The content of the standard describes a range of considerations:

- Top management considerations (ex. vision and policy, objectives and targets , environmental impacts of products a.o.)
- General Considerations (ex. early integration, product lifecycle a.o.)
- Functionality (ex. When developing products, there may be considerable value in thinking in terms of functionality (how well the product suits the purpose for which it is intended in terms of usability, useful lifetime, appearance, etc.) rather than in terms of a specific technical solution)

ISO14006 Environmental management systems – Guidance on ecodesign

- Background:
 - In February 2008 AENOR (Spain) submitted to ISO/TC 207/SC1 a NWIP.
 - ISO/TC 207/SC1 members approved the above proposal
 - ISO/TC 207/SC1/WG4 was approved and established in July 2008
- Meetings held
 - – Spain (September 2008)
 - – Malaysia (January 2009)
 - – UK – Convenors meeting (May 2009)
 - – Egypt (June 2009) – 25+ experts attended
- Where are we now:
 - ISO/CD 14006 was submitted in July (committee draft)
 - The standard is expected to be finished at July 10, 2011.
- Next Meeting:
 - Tokyo (30th November – 3rd December 2009)

What is the new standard covering?

- Management standard
- Guidance document
- Focused on a need
- Is compatible with ISO 14001
- Mandated by TC 207
- Horizontal e.g. covers all sectors and organisational sizes
- Covers products (including services)
- Provides a bridge with other standards ISO/TR 14062 and IEC 62430
- Enhances existing product aspects of 14001
- Supports incorporation of ecodesign within ISO 9001
- 'How to' guidance on incorporating ecodesign in environmental management systems

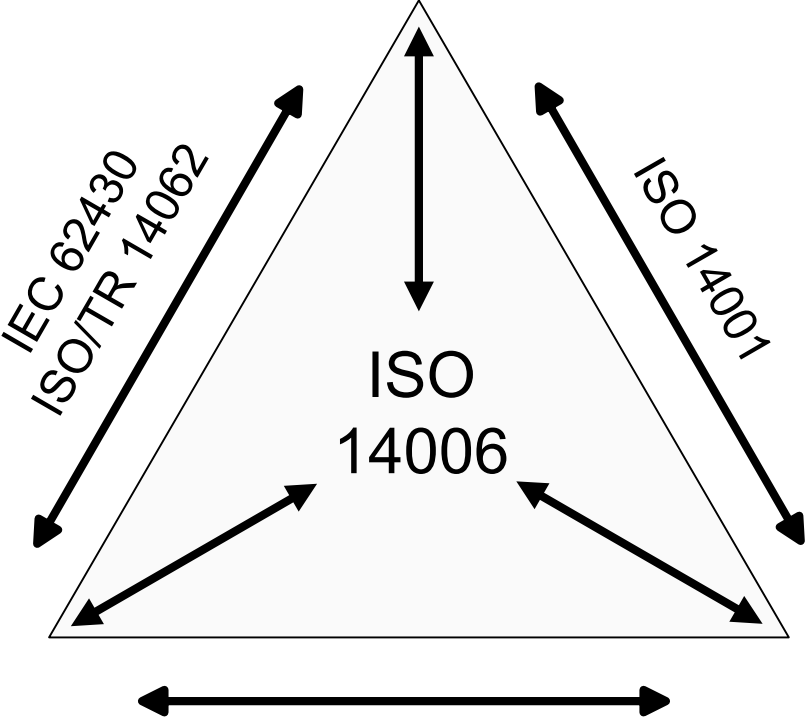
What does 14006 NOT cover

- NOT - New management system
- NOT - New requirements standard
- NOT - Intended for certification
- NOT - 'How to do' guidance on ecodesign for product designers and design engineers
- NOT - Design standard
- NOT - Sector specific

Content so far of 14006

- provide guidelines to assist organizations in establishing, documenting, implementing, maintaining and continually improving their management of ecodesign as part of an environmental management system.
- be incorporated into any environmental management system according to ISO 14001, but may be useful for other management systems. The guidelines are applicable to any organization regardless of its level of development, the nature of the activities undertaken or the location at which they occur.
- intended to be used by those responsible for the management system(s), designers and top management, but is primarily aimed at organizations that have implemented an environmental management system according to ISO 14001.

Intentions of the new standard



Environ

