Ad Hoc Expert Meeting on

Climate Change Adaptation for International Transport: Preparing for the Future

16 to 17 April 2019

A Framework for ‘Adaptation to climate change’

How new standards for climate change adaptation can address most (if not all) transport adaptation issues

Presentation by

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Themes

- Aim to pick up on others’ presentations
- Illustrate the framework in ISO 14090
- Demonstrate the multi-stranded, systemic approach embedded in this ISO
- Cover developments in the Standards’ arena

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ISO 14090 – What is it?

• **ISO 14090 Adaptation to climate change — Principles, requirements and guidelines**
  - International working group set up in 2016
    - Convenor – John Dora UK,
    - Co-convenor Liang Sun, China
    - Multidisciplinary experts

• **Timeline**
  - Currently at *Final Draft* stage
  - Publication *June/July 2019 (tbc…)*

ISO 14090 – What is it?

• **Utility and Scope:**
  - Covers ANY Organization
  - Applicable at ANY stage of adaptation
  - Permits CHOICE of e.g. assessments methods for climate change impacts
  - Flexible – approach is standardized BUT…
  - Enables tailored solutions, not ‘one size fits all’
  - Strong on *Capacity*
  - Strong on *Impact, risk and vulnerability*
  - Strong on *Monitoring, evaluation, learning and communicating*
ISO 14090 – What is it?

- Reference to INDCs, UN SDGs, National and Local Plans
- Fit into existing plans, policies, strategies etc. encouraged
- Choice and flexibility – tailor to your organization
- Use at ANY STAGE of the adaptation process no matter where you are now
- Learning, Feedback at ANY stage
- Strong on Leadership, Commitment
- Guidelines for all areas

Outline of ISO 14090

ISO 14090 – a “Framework”…

ISO 14090 is a High-Level Standard

- Drafted in ‘broad terms’ so permits ‘subservient’ Adaptation Standards to be drafted in more detail
- Choice, flexibility: determining what is important is up to the user
- Guidance on tools, adaptive capacity, systems thinking given – not detail!
- Enables tailored solutions, not ‘one size fits all’
- Recording and documenting fundamental. “The organization shall…
  - document the results of its assessment, including a description of any capability gaps”;
  - document the data and information sources used and the criteria used for their selection”;
  - document how the adaptation actions address the most critical climate impacts and opportunities”.. etc

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**Systems approach**

- Consider the boundaries of your system
- Establish what you can manage, and what needs collaboration
  - Supply chain?
  - Maintenance requirements?
  - Governance?
  - Finance?

**ISO 14090 – a “Framework”…**

- Other standards can help:
  - Example – ISO 14091 *Adaptation to climate change - Vulnerability, impacts and risk assessment*
  - ISO 14091 will follow ISO 14090 terminology BUT will go into much more detail than ISO 14090 can!
- Other standards planned:
  - Adaptation Pathways – BSI initiative
  - Assessing and reporting investments and financing activities related to climate change - ISO
- ALWAYS realise that owners, operators and users can choose to draft their own Standards following ISO 14090’s guidance…
Strategic thoughts

- ISO Strategy Task Force in dialogue with UNFCCC
- ISO Standards’ Strategy evolving
  - Mitigation, Adaptation – e.g. Paris Agreement Article 7
  - ISO drafting Guidelines for standards writers to help them consider climate change (CEN/ Cenelec in EU working on similar guidelines)
- Infrastructure CEN/ Cenelec standards under consideration
  - Eurocodes?
  - Big challenge eg: ‘what dataset do I use?’
- Standards’ users can aim higher!
  - Owners, operators, users can specify better resilience… what's not to like?
  - Design life – what’s that about? Why not an adaptive pathway approach?

In closing

- ISO 14090 provides principles, requirements and guidelines for adaptation to climate change, applicable to ANY organization
- ISO 14090 describes a high-level framework
  - Use at ANY STAGE of the adaptation process
  - Refers to NDCs, UN SDGs, National/ Local Plans (using existing plans, policies, strategies is encouraged – make it ‘routine’)
- ISO 14090 will enable solutions to most (maybe all?) issues relevant to transport adaptation
- Standards’ users can aim higher!
  - Owners, operators, users can specify better resilience… what's not to like?
  - Design life – adaptive approach?

ISO 14090 - Publication June/ July 2019