

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

John Dora

Independent International Adaptation Consultant

A Framework for 'Adaptation to climate change'

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

UNCTAD Ad-hoc Expert Meeting on
Climate Change Adaptation for International Transport: Preparing for the Future

Geneva April 2019

John Dora,
Independent Consultant,
Convenor, ISO/TC207/SC7/WG9



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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? ³

- **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...)*

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ISO 14090 – What is it? ⁴

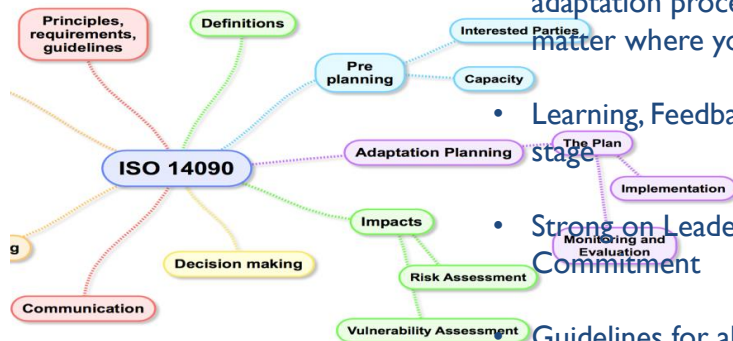
- **Utility and Scope:**
 - ✓ Covers ANY Organization
 - ✓ Applicable at ANY stage of adaptation
 - ✓ Permits CHOICE of e.g. assessments methods for climate change impacts
 - ✓ Flexible – approach is standardized BUT...
 - ✓ Enables tailored solutions, not 'one size fits all'
 - ✓ Strong on *Capacity*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

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ISO 14090 – What is it?

- Reference to INDCs, UN SDGs, National' 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

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ISO 14090 – a “Framework”...

ISO 14090 is a High-Level Standard

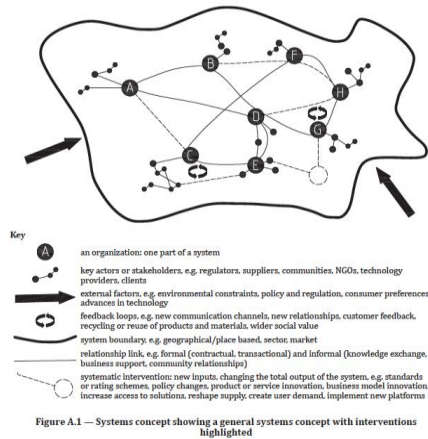
- ◆ Drafted in ‘broad terms’ so permits ‘subservient’ Adaptation Standards to be drafted in more detail
- ◆ Choice, flexibility: determining what is important is up to the user
- ◆ Guidance on tools, adaptive capacity, systems thinking given – not detail!
- ◆ Enables tailored solutions, not ‘one size 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?



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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...

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Strategic thoughts

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- ◆ 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?

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In closing

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- ◆ 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

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