Introducing PAS 2080: Carbon Management in Infrastructure
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Agenda

• What problem does PAS2080 address?
• What are the parts of PAS2080?
• How can PAS2080 add value to your organisation?
What problem does PAS2080 address?
UK Context

- Infrastructure is responsible for 53% of the UKs GHG emissions
- Of which 30% is directly related to the construction, operation and maintenance of assets, and
- 70% is attributed to users use of infrastructure
- This is set against a target of reducing emissions by 80% by 2050
The Infrastructure Carbon Review

The Treasury’s Infrastructure Carbon Review (2013) set out the case that cutting carbon, cuts cost. It unlocks innovation. It increases efficiency. And it contributes to climate change mitigation.

The ICR is the sister document of the Infrastructure Cost Review, and highlights the key role of cutting carbon in unlocking further cost reductions.
Recognising the ingredients of carbon reduction

Low carbon solutions in projects and programmes of work
- Technologies, materials, design practices, programme rationalisation
- Revising technical specifications

Carbon reduction

Processes & tools

Technical

Behavioural

Culture and competence
- Leadership
- Challenge
- Ownership
- Training

Embedding processes & tools in business as usual
- Embedding in investment process
- Assigning gate deliverables
- Identifying responsible people
PAS2080

To deliver the benefits the whole value chain should be aligned and consistent in their approach. PAS2080 provides the framework for a carbon management process.
The PAS is focused on four key parts of the value chain:

Each of these members has shared and own responsibilities in PAS2080.

The biggest benefits come from working together.
What are the parts of PAS 2080?
The PAS is structured around Work Stages of Infrastructure Delivery.

At the earliest stages exists the greatest chance to reduce carbon and cost. The approach taken to managing carbon, and the people involved may be different as delivery progresses.

'Build nothing' 'Build less' 'Build clever' 'Build efficiently'
PAS2080 includes all emissions under the control of an organization. This includes the capital carbon and operational carbon.

For certain infrastructure there may be further emissions e.g. modal shift which can be influenced at certain times.
The process

To get carbon reduction a process is needed

The dark blue boxes represent clauses in PAS2080. These set requirements which give the greatest chance for carbon reductions.

This is supported by robust governance and leadership which allows the space to challenge
Practitioners

Within an organization, there are many roles that must contribute to deliver carbon reductions.

The main message is about giving the people the freedom to work together, challenge and innovate.

This is key to making carbon reduction part of normal delivery.

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<tr>
<th>Practitioner</th>
<th>Responsibilities</th>
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<tr>
<td>Leadership Team</td>
<td>Understand the carbon objectives of asset owner/managers and ensure own</td>
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<td>organizational targets are aligned.</td>
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<td>Promote a carbon reduction culture through the organization, instigate</td>
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<td>appropriate training and implement best practice approaches to realise low</td>
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<td>carbon objectives.</td>
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<td>Ensure carbon management principles are integrated into delivery systems.</td>
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<td>Procurement Manager</td>
<td>Ensure that low carbon selection criteria are aligned with those of the asset</td>
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<td>owner/manager, and are embedded in procurement processes and are</td>
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<td>communicated clearly to suppliers.</td>
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<tr>
<td>Construction Manager</td>
<td>Employ low carbon construction techniques/products/materials, challenge</td>
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<td>design decisions, as required, to deliver low carbon outcomes.</td>
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<td>Quantify, monitor and report emissions during construction.</td>
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What does this mean for you?

- What can you offer your clients?
- How can you reduce carbon and cost in your projects and programs of work?
A summary of the requirements is presented in Annex B of PAS2080.
Thank you

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VOLVO