

Productivity under pressure

Hosted by Luciana Lightman CEng MICE
Guest speaker: Andrew Kitley

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Today’s webinar

WHAT WE WILL COVER

01 Pressure on engineering teams and workflows

02 Where digital tools and AI can add value

03 Practical construction examples with Andrew

04 Limitations, risks and potential failure points

05 Safety, quality, governance and compliance

WHAT YOU WILL TAKE AWAY

- Recognise current uses in engineering practice
- Identify realistic productivity opportunities
- Challenge and verify AI generated outputs
- Apply competence, judgement and accountability
- Integrate tools without compromising safety or quality

Your host and guest speaker



Luciana Lightman

CEng MICE

Technical Leader
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Author
Temporary Works Made Safe and Simple



Andrew Kitley

Managing Director and Co Founder, Kitall

More than 20 years in construction, temporary works and engineering

Developing AI workflows for tenders, RAMS and construction teams

Why engineering teams are under pressure

Limited capacity

Competing deadlines leave less time for detailed review.

More information

Teams must navigate changing drawings, specifications and records.

Repetitive administration

Searching, comparing and drafting can consume valuable engineering time.

The productivity test

Does the tool save total effort while maintaining the required quality?

Where digital tools can add value

INFORMATION

Managing growing volumes of data, documents and technical requirements

PRODUCTIVITY

Automating repetitive tasks and improving efficiency and consistency

DECISIONS

Supporting analysis and decisions while keeping judgement human

The value depends on the problem, the quality of the information and the controls around use.

Responsible use: safety, quality and compliance

Before using an AI generated output, check:

- Is the purpose clear and is the tool approved for this use?
- Can a competent person understand and verify the output?
- Are data, confidentiality, document control and traceability protected?
- What are the limitations, risks and possible failure points?
- Who approves the decision and remains professionally accountable?

Build compliance and competent review into the workflow from the start.

Conversation with Andrew

Which construction problems pushed you to start building AI workflows?

What did the early versions get wrong or fail to understand?

Where has AI helped tender or RAMS review, and how did you assess the benefit?

Where should construction teams avoid relying on AI?

How do you use company documents, and how is confidential information protected?

What should a team check before trialling an AI workflow?

Engineering skills in an AI workplace

A QUESTION FOR ANDREW

As AI takes on more routine work, how can we ensure junior engineers still develop the understanding to challenge its outputs?

What would you change in how we train and mentor them?

What to take back to your team

- **An opportunity**

Choose a repetitive task with a clear purpose and reliable source information.

- **A verification method**

Trace important statements to their sources and challenge missing information.

- **Clear accountability**

Agree the competent reviewer and approval route before use.

- **Evidence before wider adoption**

Trial the workflow and compare total effort, errors and rework.

Further resources

ICE Training

icetraining.co.uk
Explore relevant training and continuing professional development.

Your organisation

Approved tools, data policies and engineering assurance procedures.

Your project

Current source documents, requirements and the agreed approval route.

A useful CPD reflection

Which task could you trial, and how would you verify the result?

Thank you

