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What is BREEAM?

- Building Research Establishment's Environmental Assessment Method
- Assesses 9 areas of environmental impact across the key building life cycle stages
- Includes capacity for innovative solutions not in standard clauses
- Contains voluntary & mandatory elements to build up an overall score
- One of the most widely used means of assessing and comparing the sustainability of buildings
- Running since 1990
- Operates throughout numerous countries via a network of national scheme



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What is I(E)D?

- Integrated (Energy) Design
- An approach that promotes early collaboration within the design team
- Builds on current best practice for partnership working
- Encourages exploration of multiple early design concepts
- Embeds scientific approach to validating & checking design goals
- Encourages 'soft landings' and post completion monitoring
- Currently being promoted across Europe as a means to deliver the Near Zero Energy Building's directive for 2019/20.





Do BREEAM & I(E)D currently conflict?



- No; I(E)D is an approach to collaborative design, whereas BREEAM is an assessment/comparison tool measuring the sustainability of buildings
- I(E)D calls for the setting of goals and the measuring of achievements against these, and BREEAM can provide the mechanism to do this



Does BREEAM currently specifically support I(E)D?

- No; not currently by the I(E)D name
- However, it includes provision for Accredited Professionals (APs) who are comparable to I(E)D Facilitators
- BREEAM also includes support for collaborative early design:

Explicitly in clauses MAN1 & ENE4...

...and implicitly in clauses MAN4, MAN5, HEA2, HEA3, ENE1, ENE2 and arguably many more.





How is BREEAM changing for the future?

- New Construction 2014 under development and planned for launch by the end of the year'
- Various BREEAM schemes under development including non-domestic refurbishment and infrastructure
- Core and local science base under review
- Capacity to include specific reference at this stage to I(E)D limited, if at all





How is BREEAM changing for the future?

- Longer term future of BREEAM is seen as automated & digital (likely to start well before 2017)
- Design team will collaborate using digital shared design files based in Building Information Models (BIMs)
- BIMs will provide raw data required to process BREEAM assessments
- Enhanced role for BREEAM
 Accredited Professionals envisaged to aid design team's progress





How might BREEAM & I(E)D develop together?

- Potential for I(E)D approach to be eligible for Innovation credits now
- In future, I(E)D could be specifically summarised & referenced in BREEAM Technical Manuals
- BREEAM APs could be defined as I(E)D Facilitators, and vice versa
- Credits could be awarded for checking multiple design concepts under MAN1 and/or ENE4





MaTrID Project: BREEAM & Integrated (Energy) Design

Any questions?

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