



Implementing digital precision in the real world

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ABSTRACT

The construction industry is responsible for 40 to 50% of global greenhouse gas emissions and contributes significantly to the rapid depletion of our natural resources. By 2030, over 80 billion m² of new building space will have to be built or rebuilt worldwide to accommodate the expected population growth. These simple facts make one thing very clear: we have to start building differently and we have to start now.

Advances in computational structural design and digital fabrication provide exciting new opportunities to significantly reduce the amount of material needed to construct our built environment, to use alternative and more sustainable materials, and to produce less waste in the process.

This presentation will not only highlight some of the new tools, systems and technologies, but also discuss the often overlooked challenges involved in implementing digital precision solutions in the real world.



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