

STRENGTH THROUGH (STRUCTURAL) GEOMETRY

Prof. Dr. Philippe Block

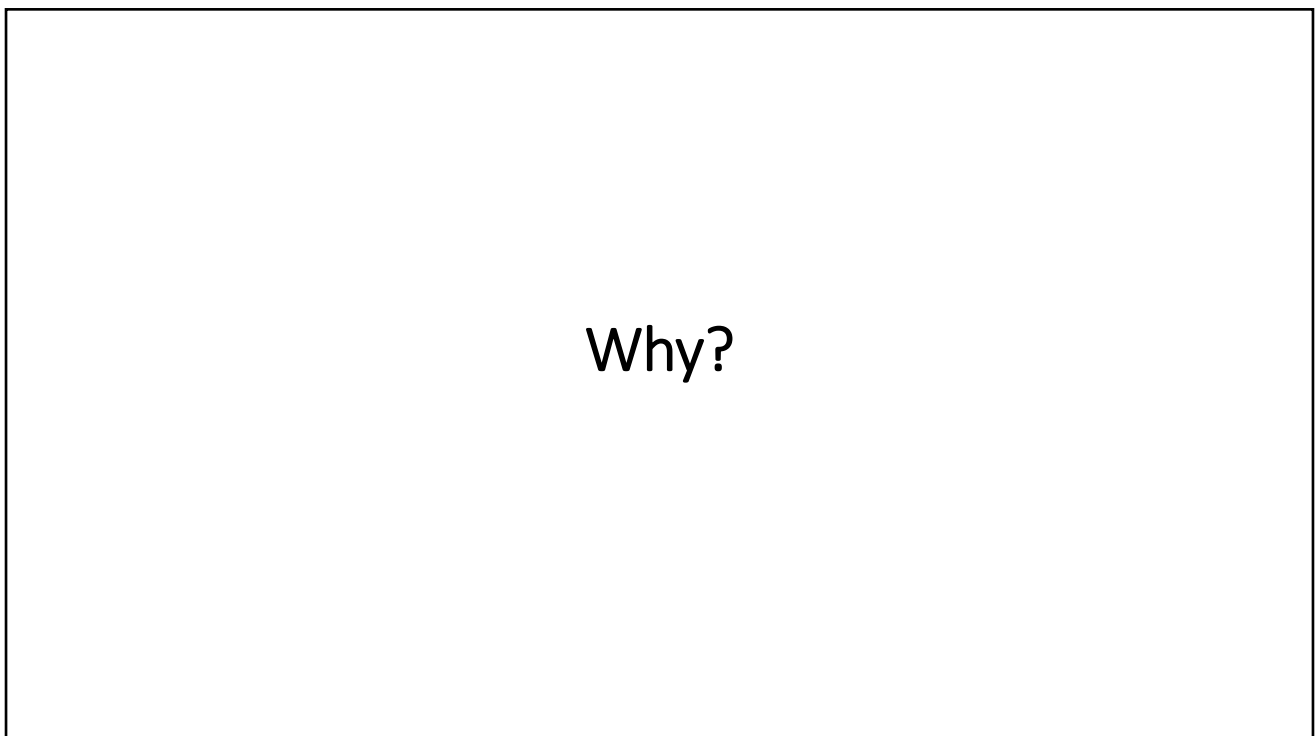
ETH Zürich | Institute of Technology in Architecture | Block Research Group

National Centre of Competence in Research (NCCR) Digital Fabrication

ETH zürich **BRG**

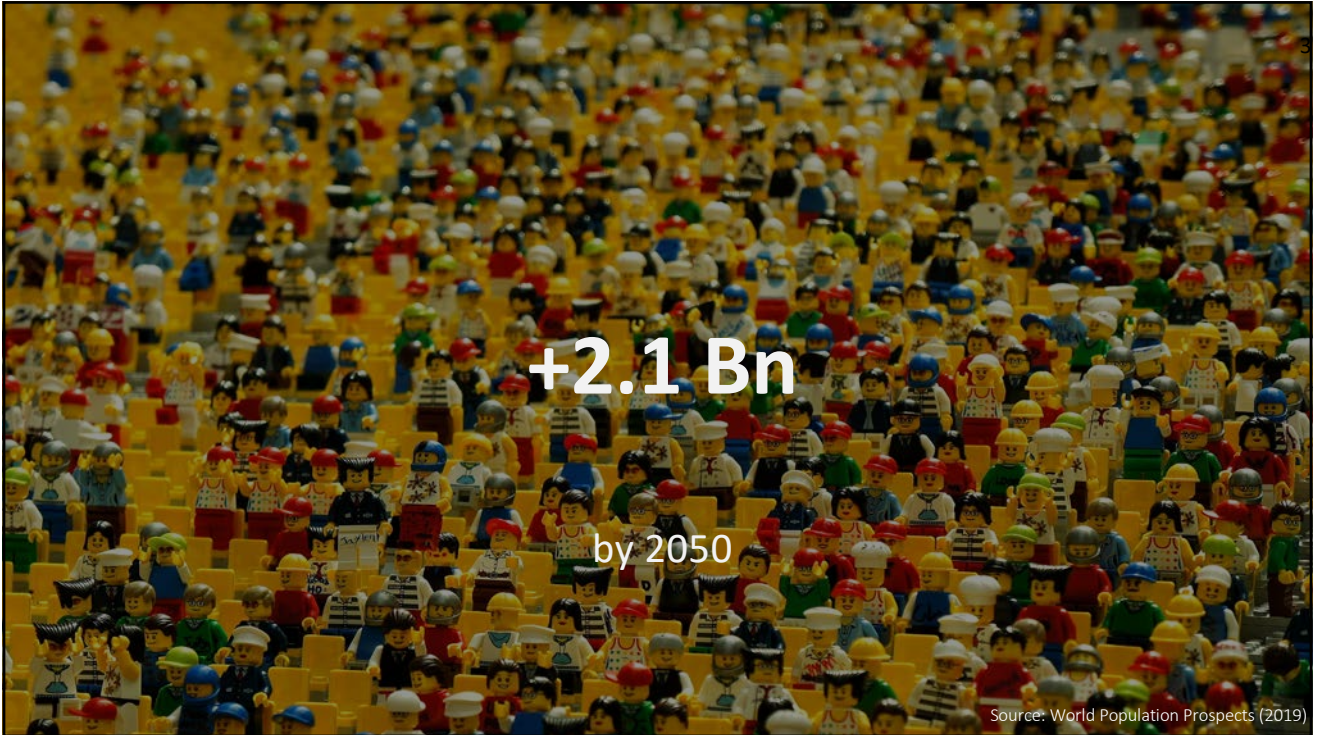


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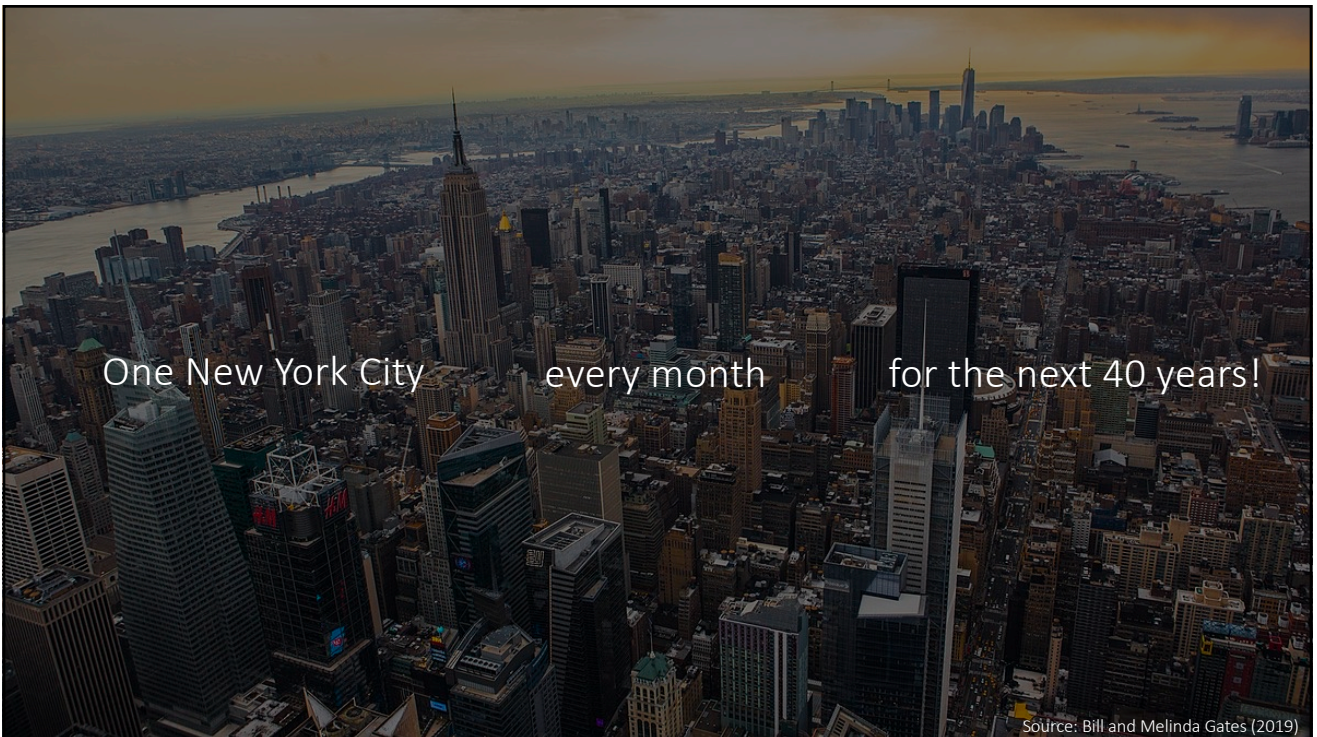


Why?

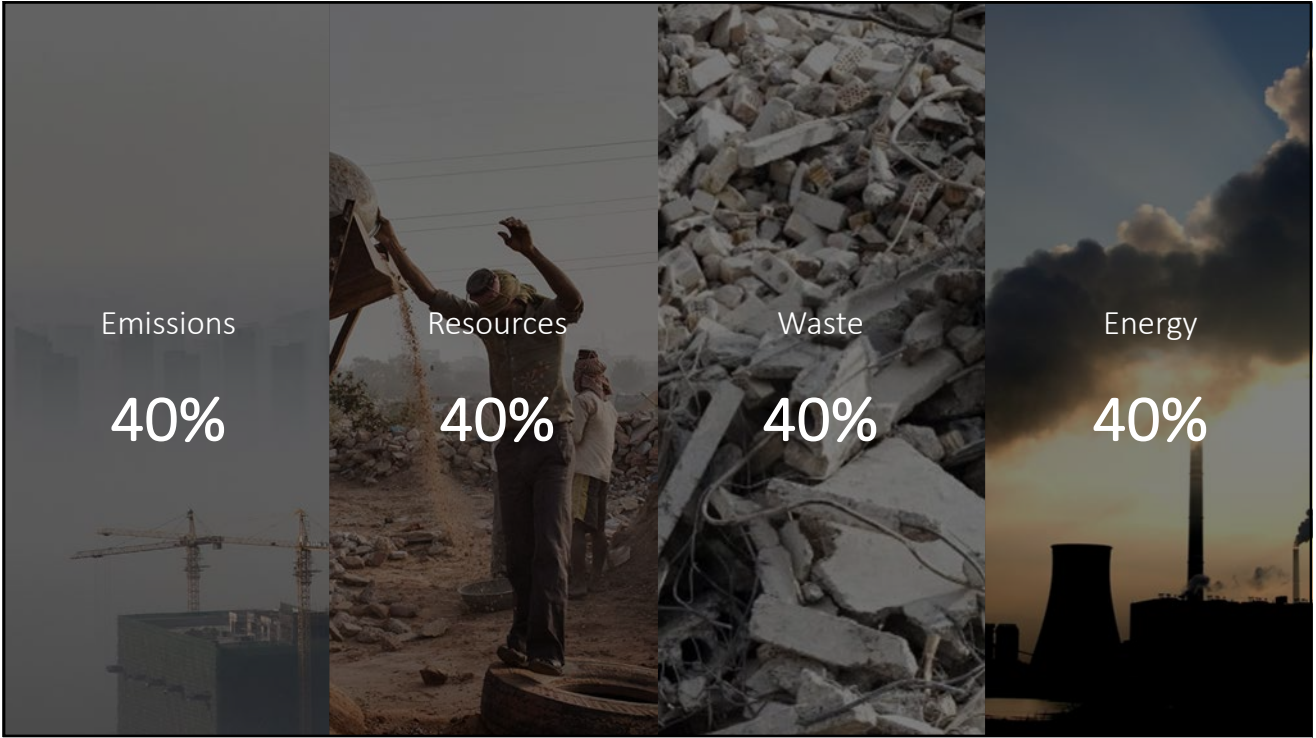
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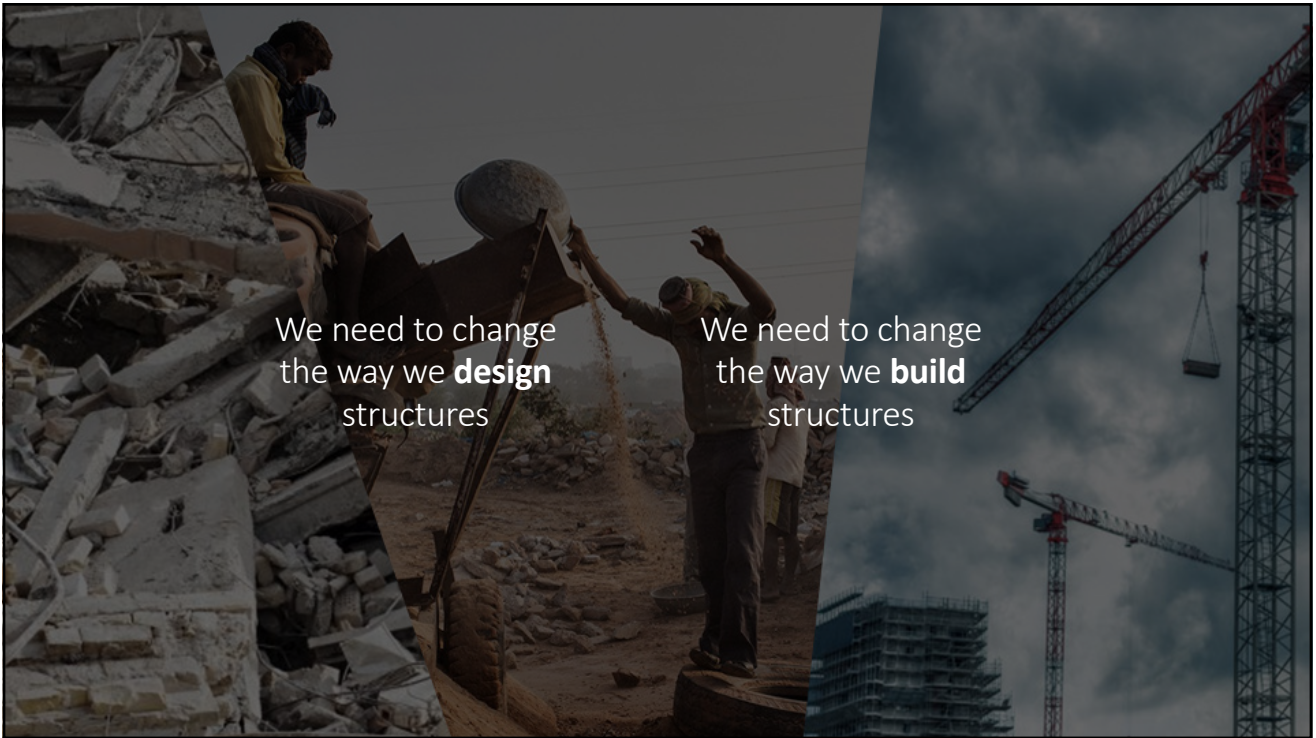
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Mapungubwe

Limpopo, South Africa, 2008

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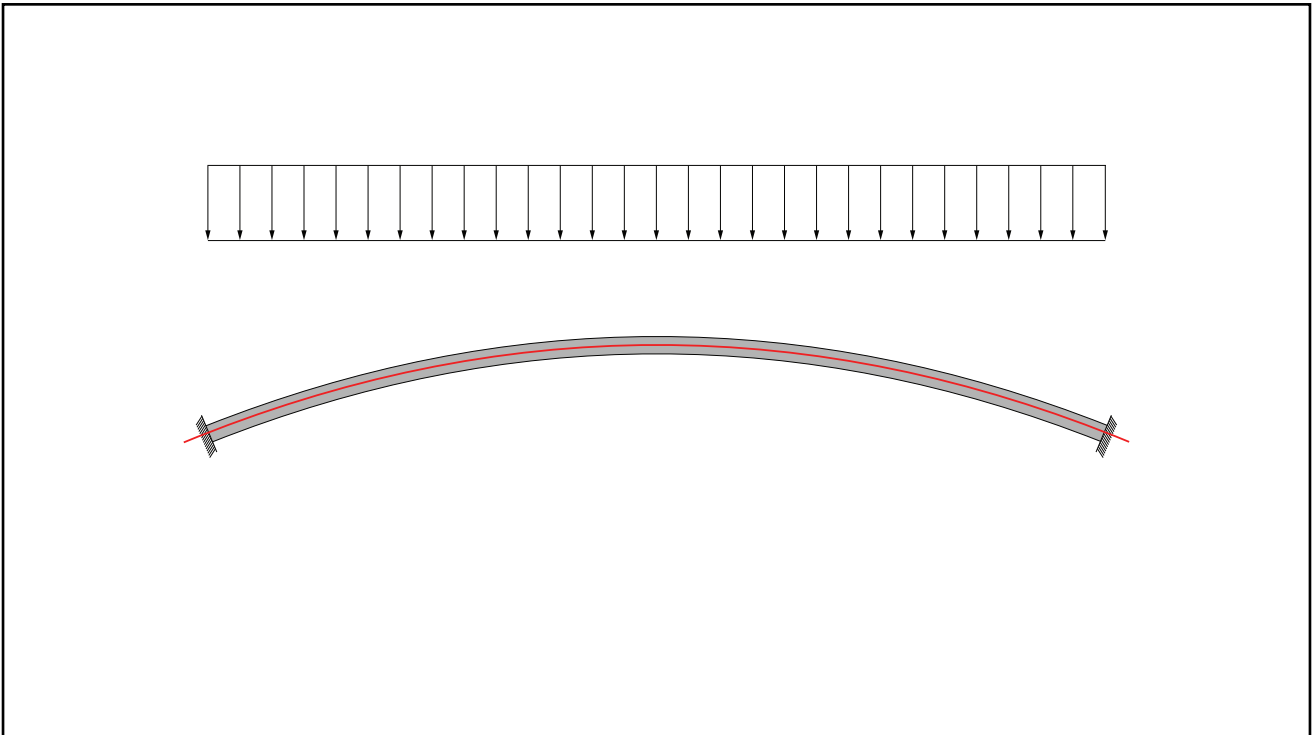
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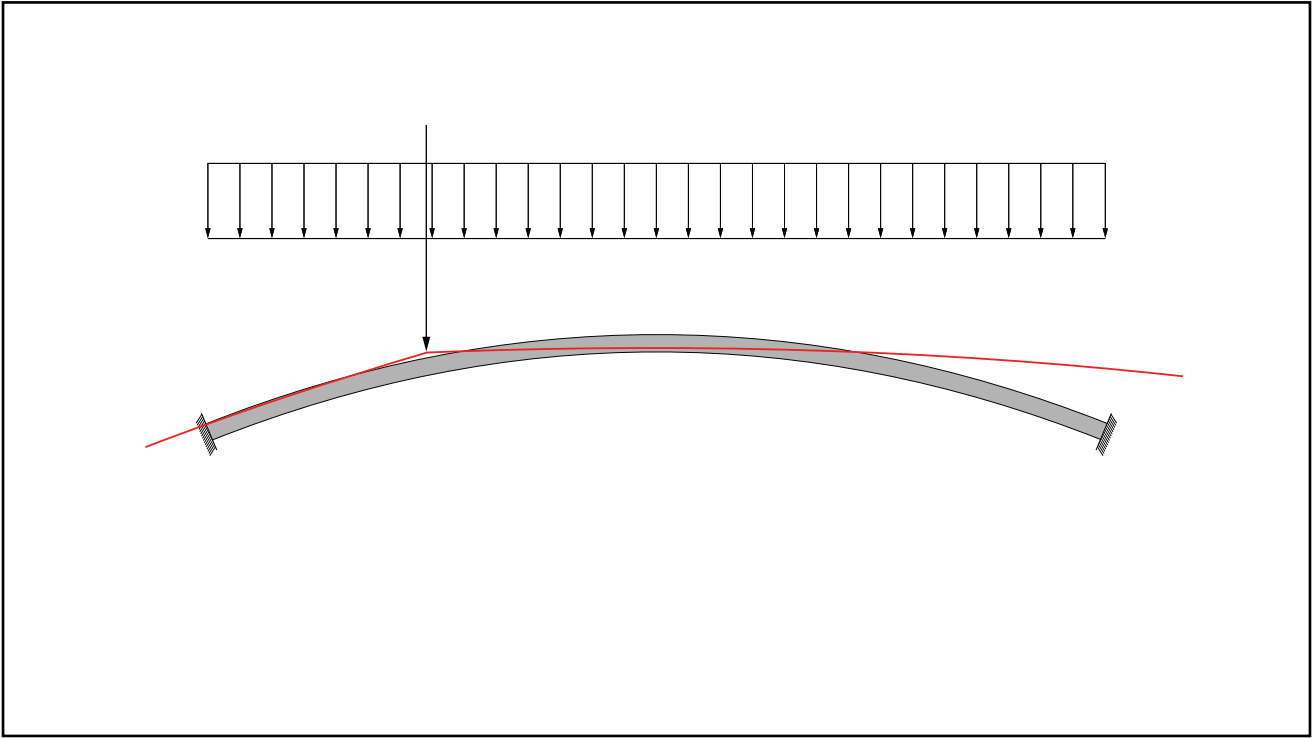
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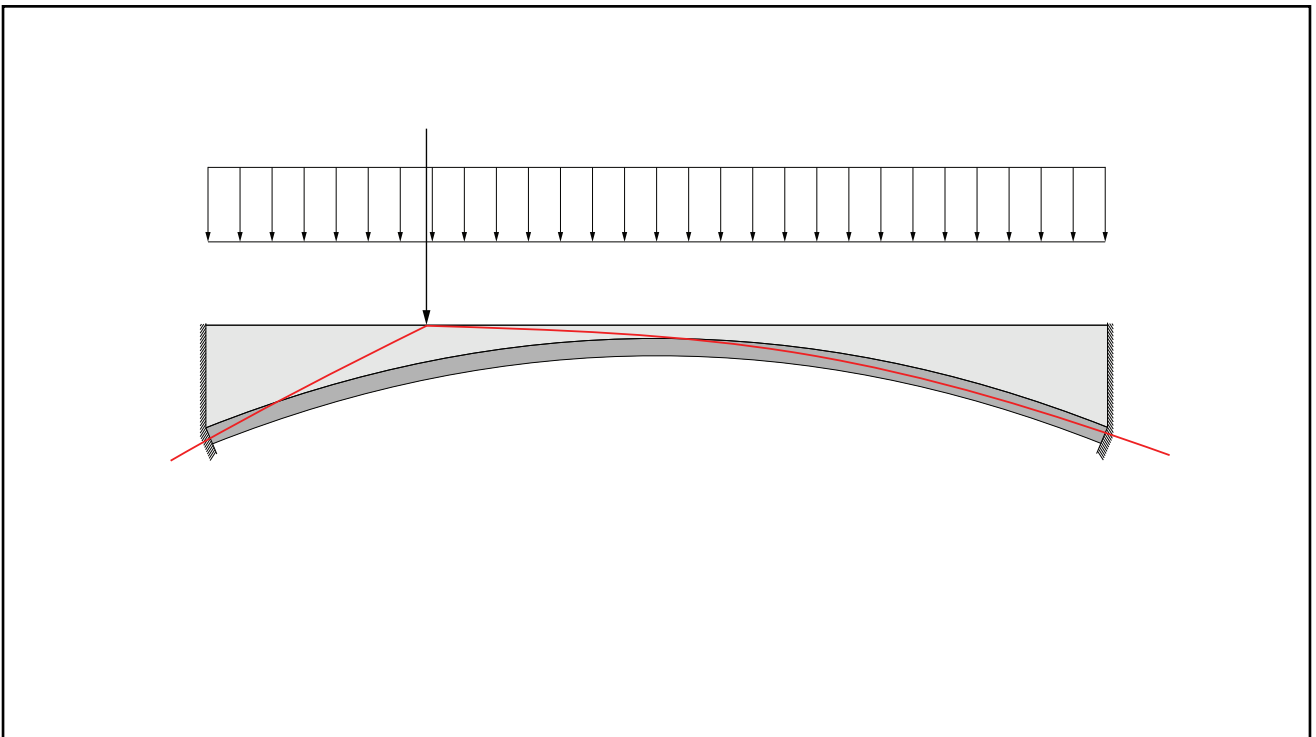
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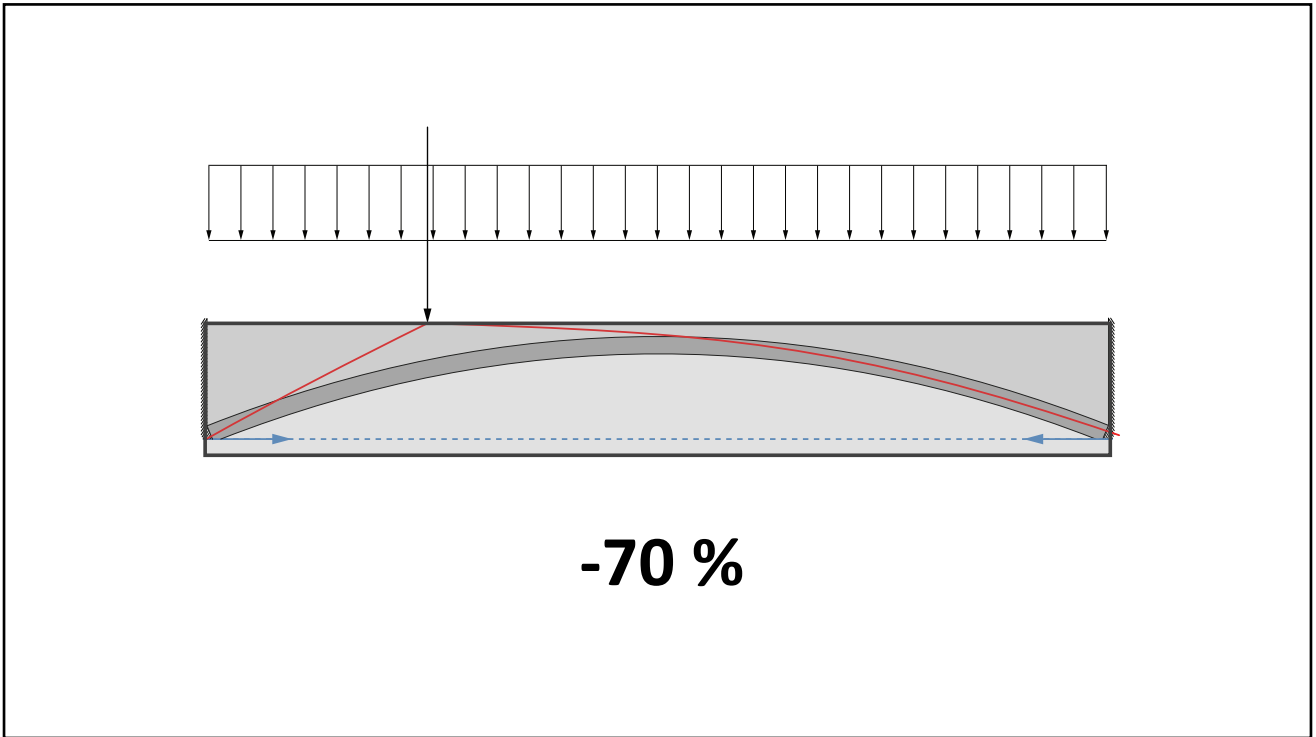
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ETH meets NYC

New York City, NY, USA, 2015

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© Pixar

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© ReWall

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© Phillip Ross

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© Carlina Teteris

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Armadillo

Venice, Italy, 2016

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Photo: Iwan Baan

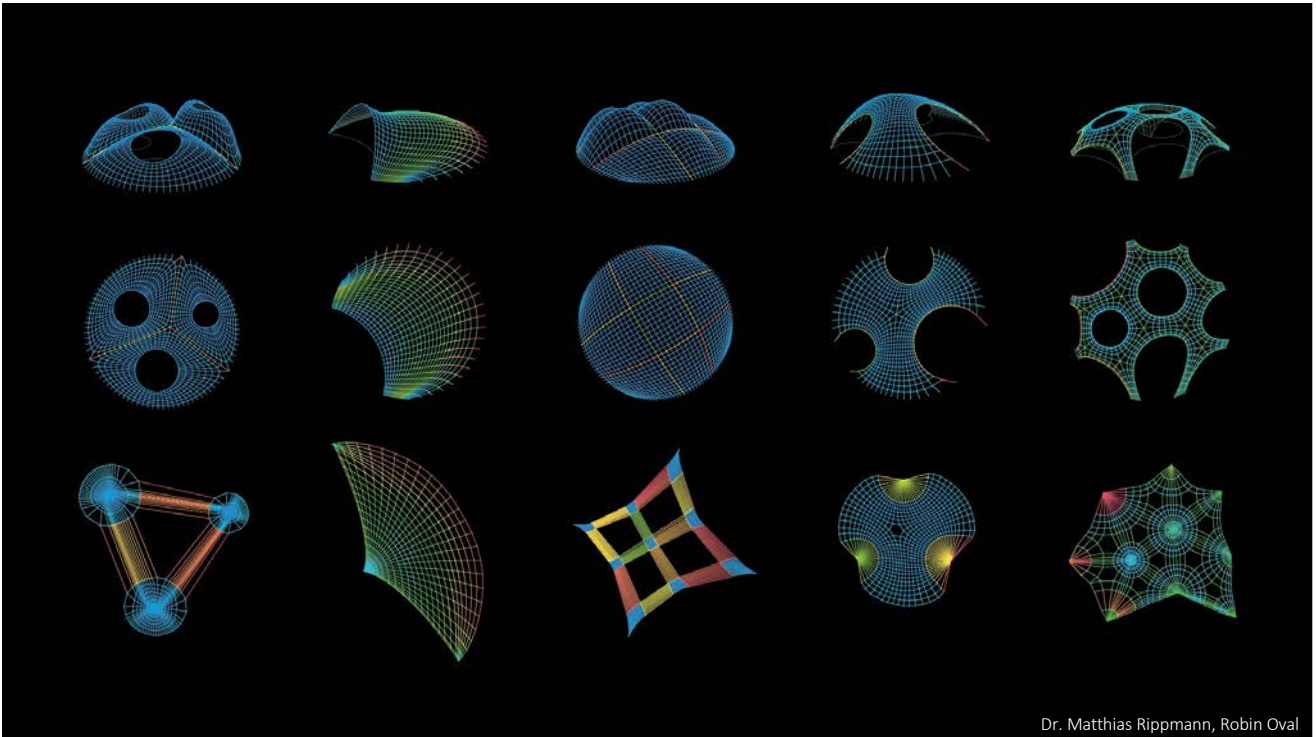
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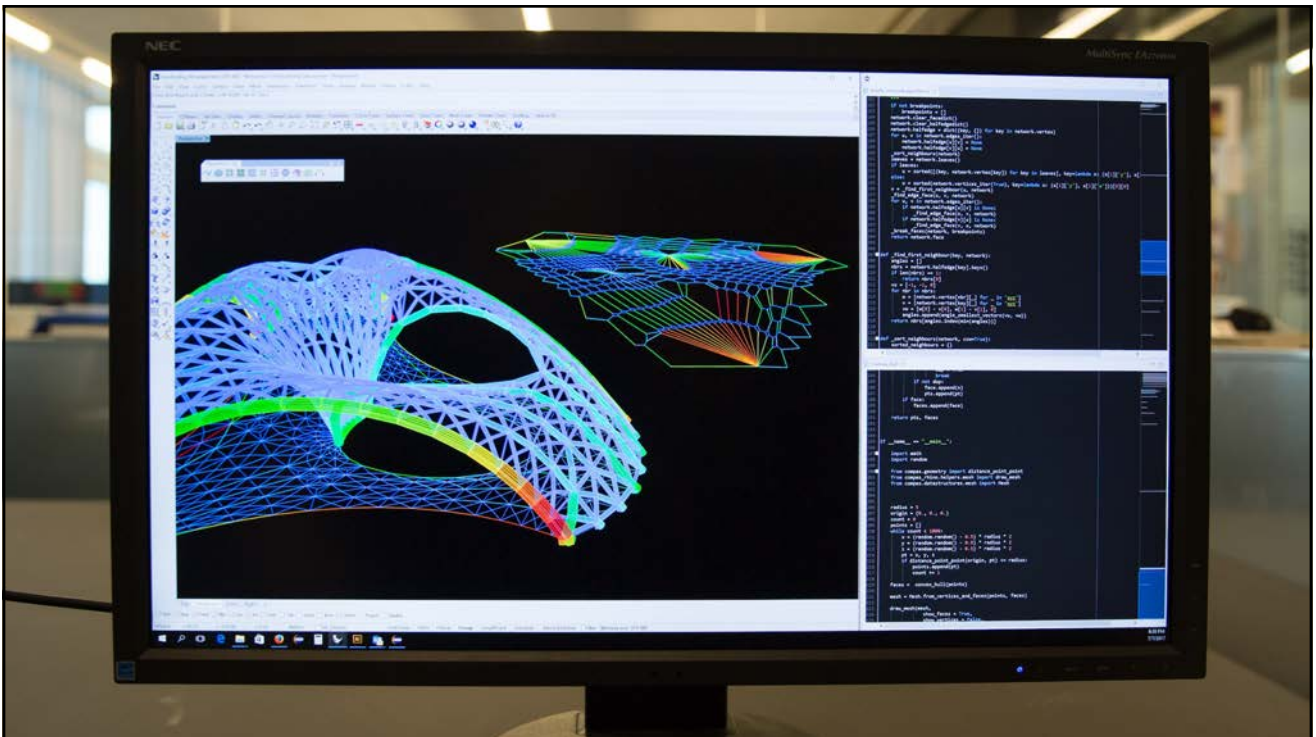
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Photo: Skender Ijazovic

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Photo: Anna Maragkoudaki

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Striatus

Venice, Italy, 2021

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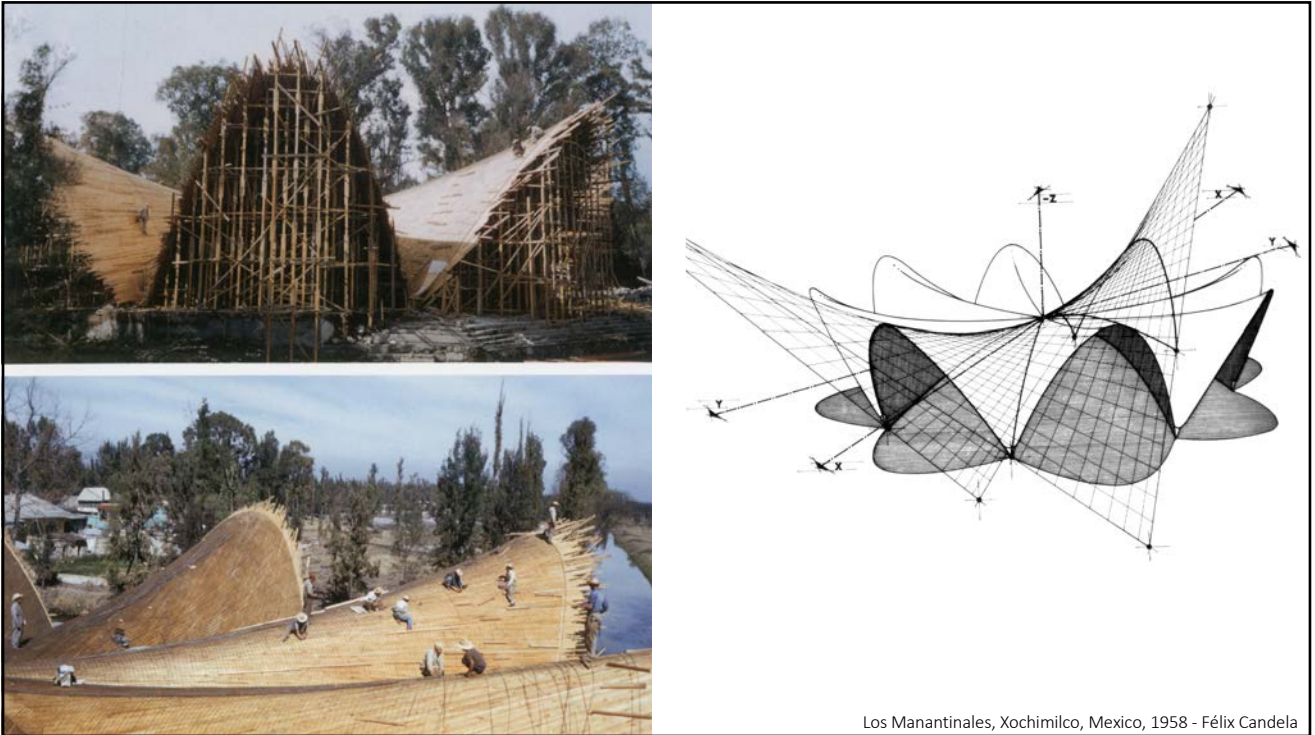
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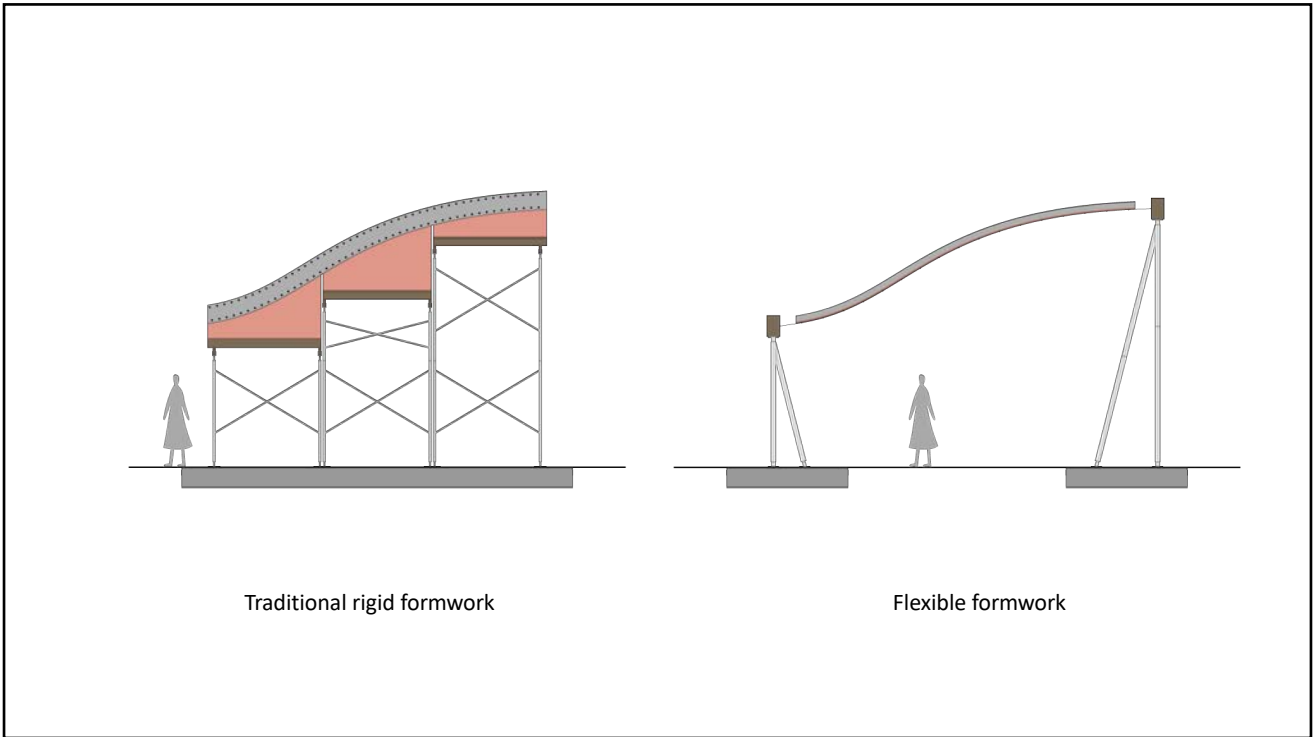
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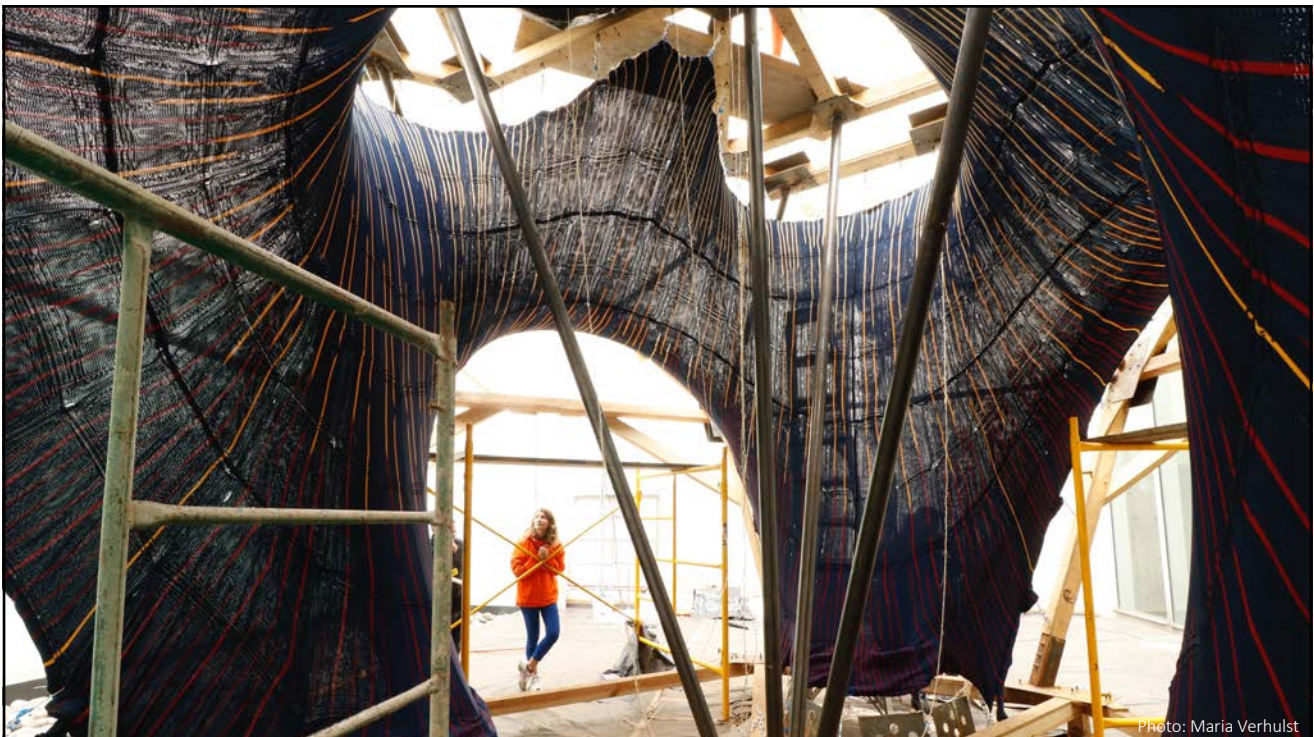
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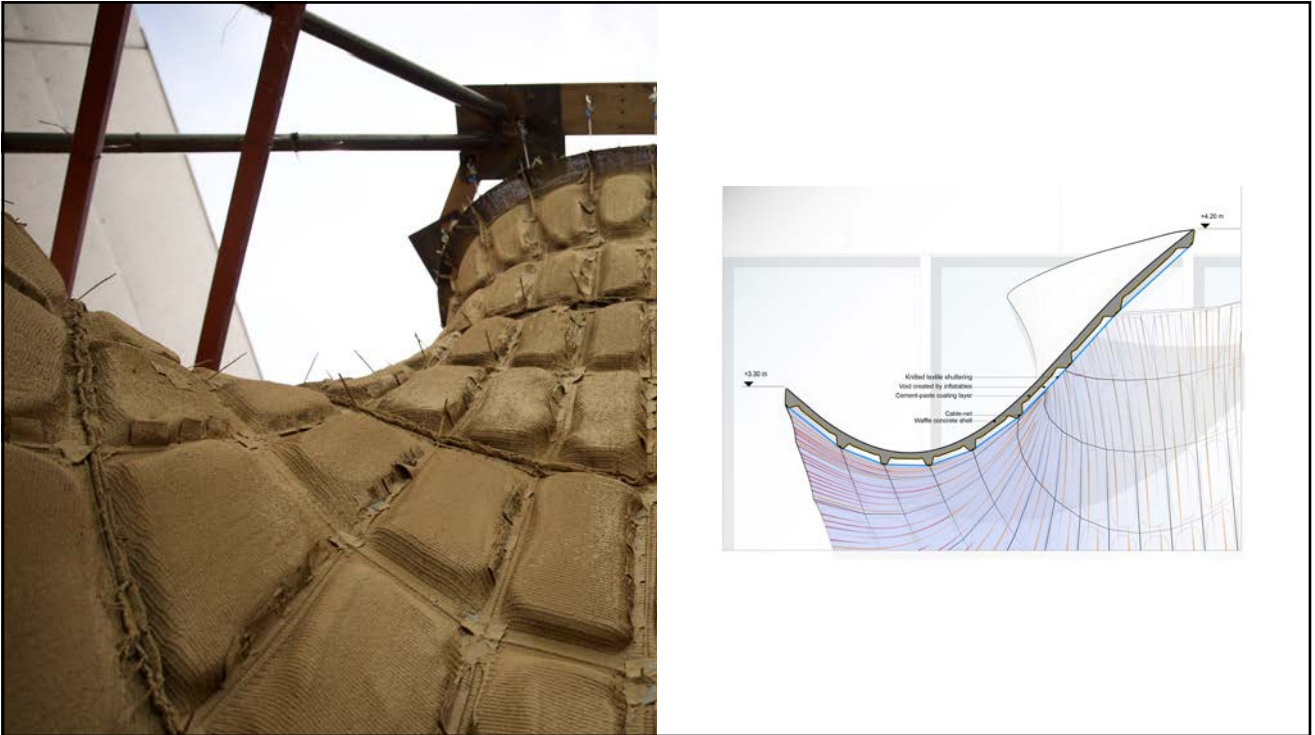
Photo: Mariana Popescu

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Photo: Mariana Popescu

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HiLo

Dübendorf, Switzerland, 2021

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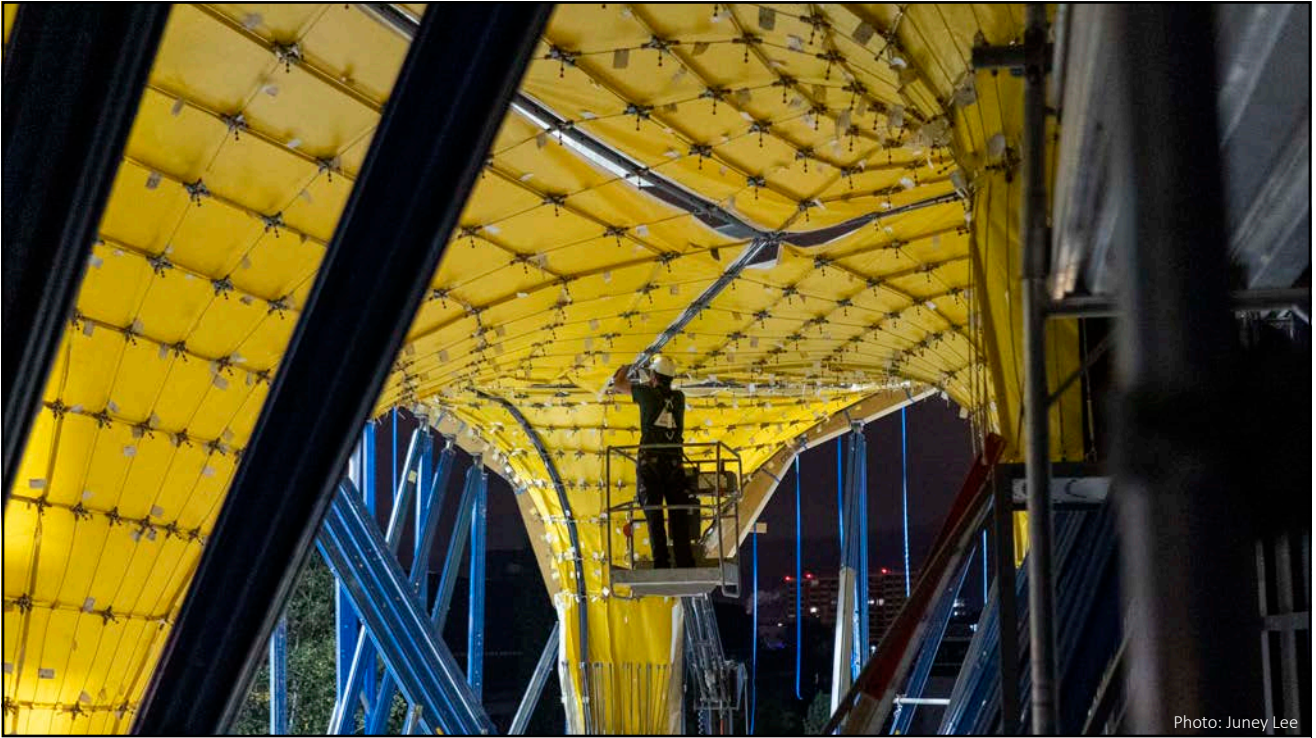


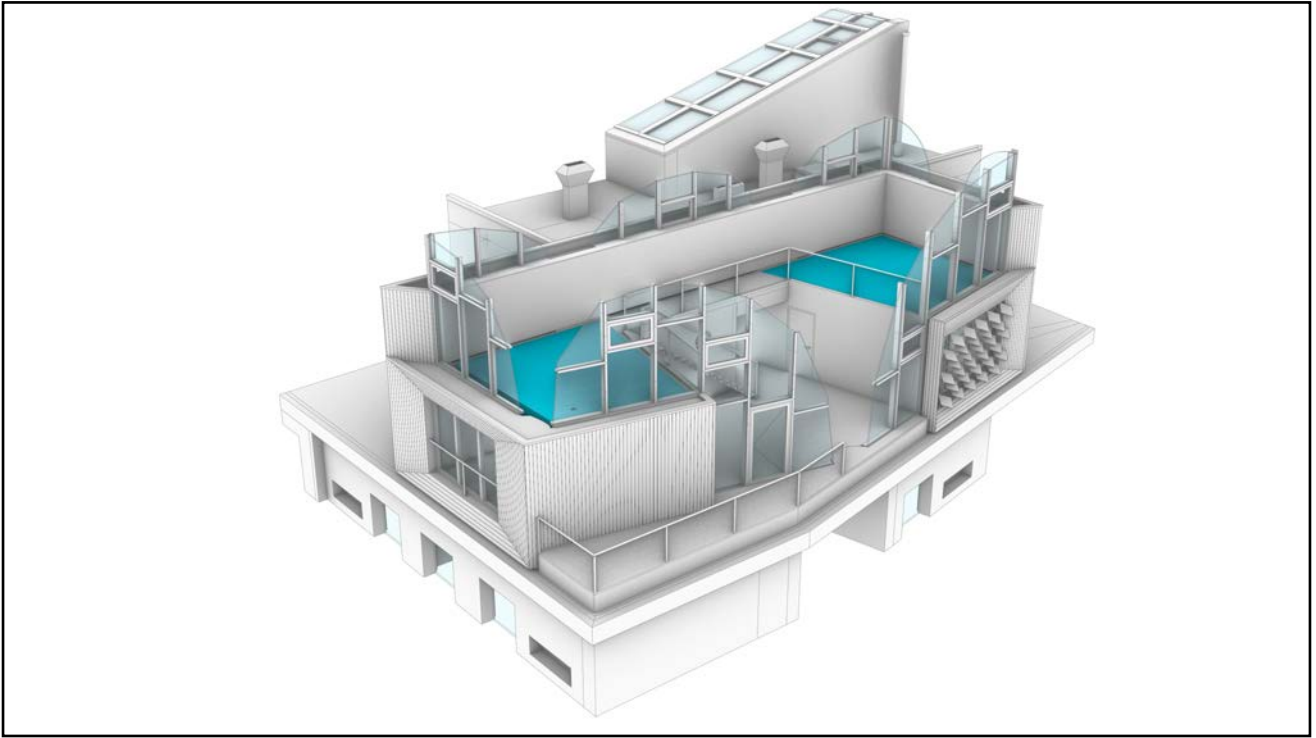
Photo: Juney Lee

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Photo: Stefan Liniger

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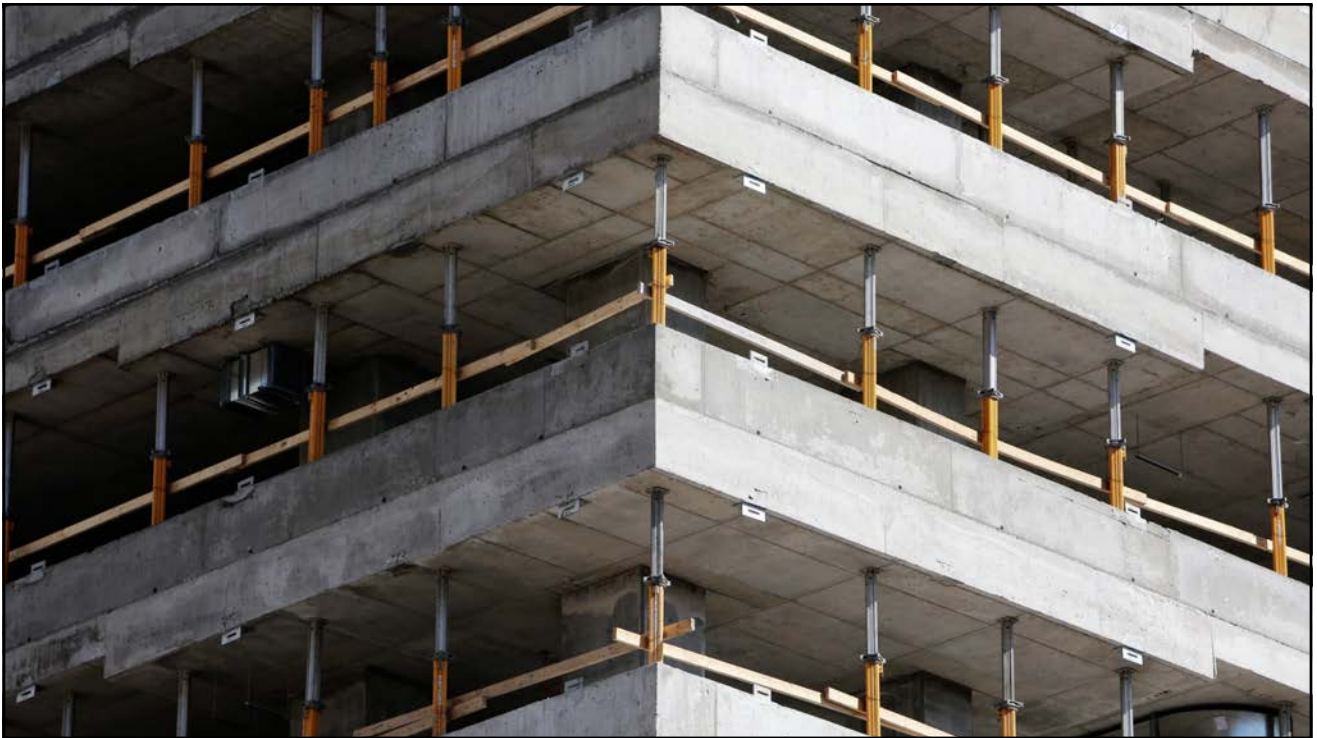
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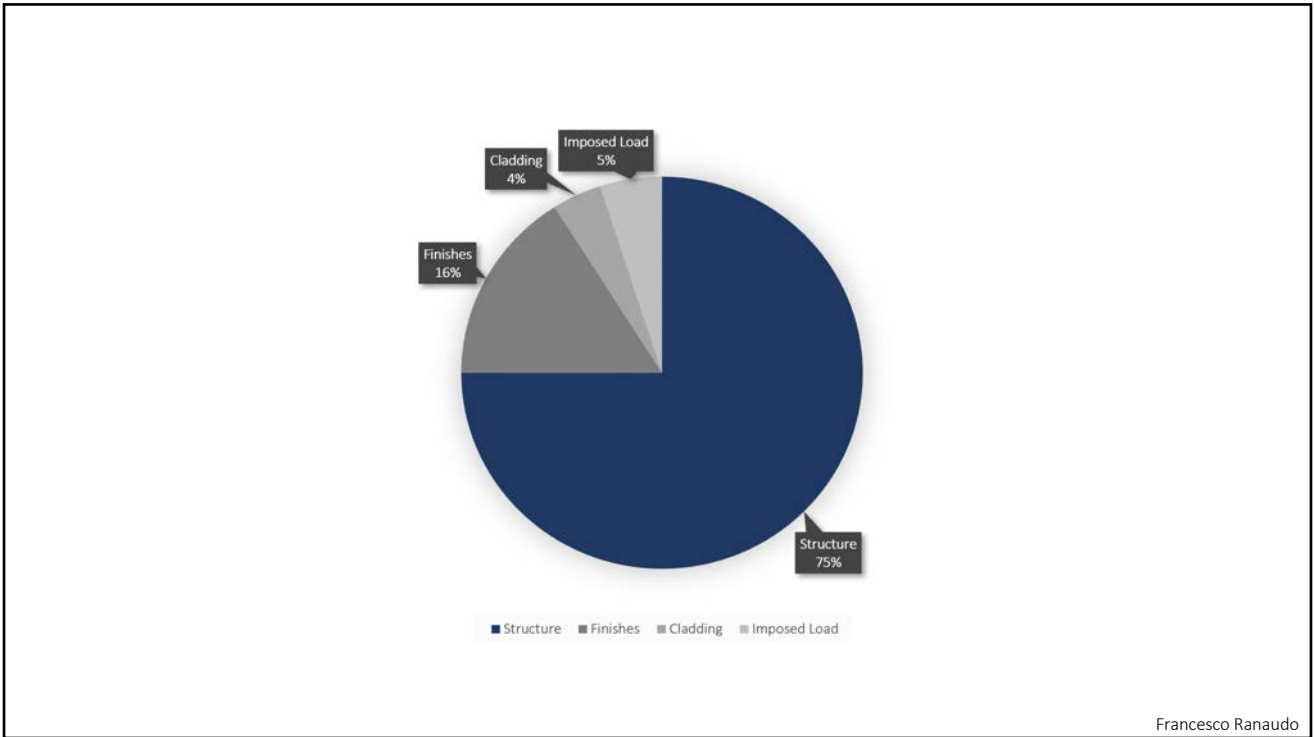
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Impact

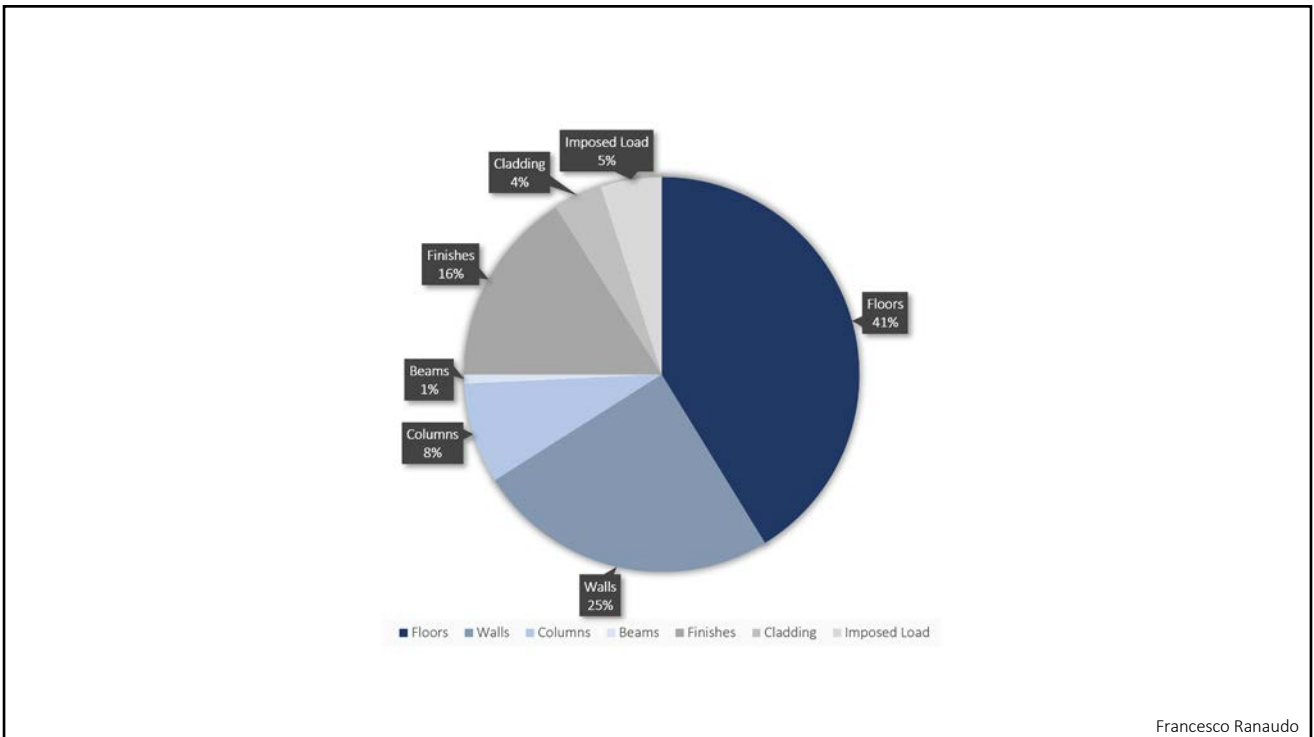
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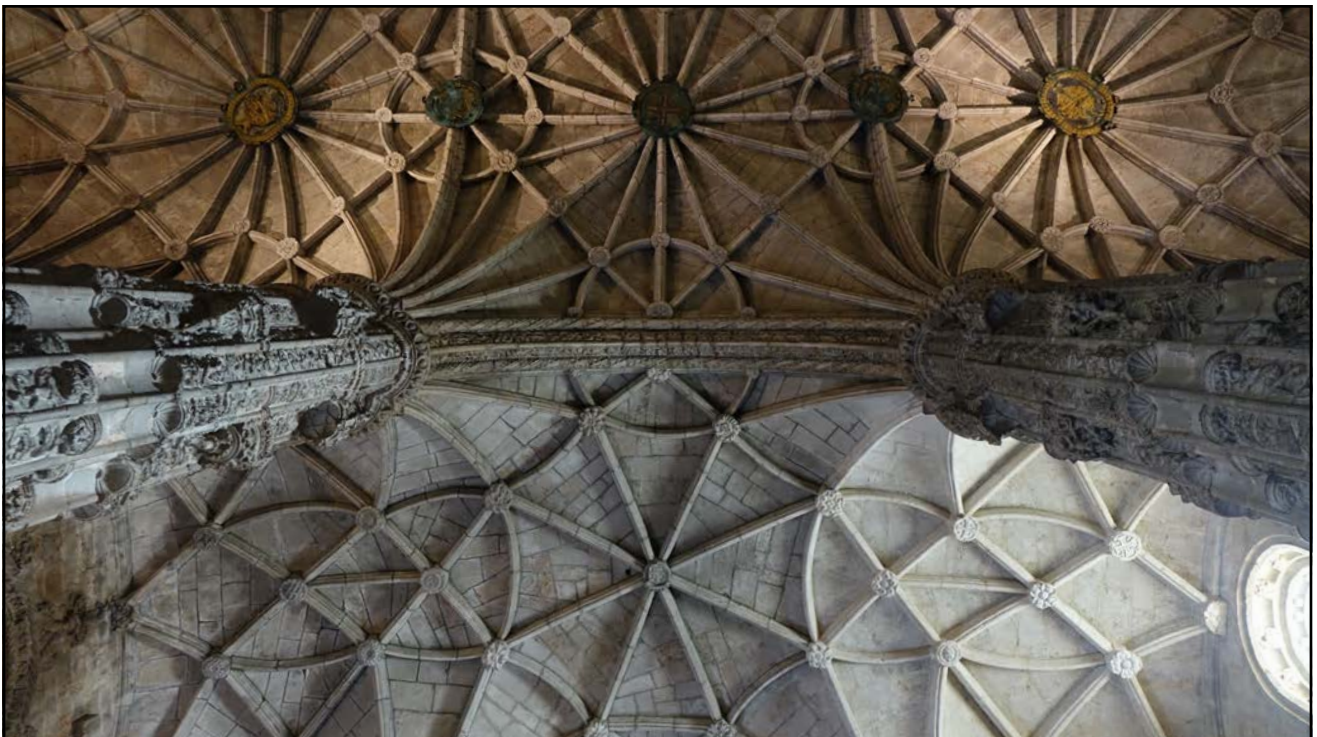


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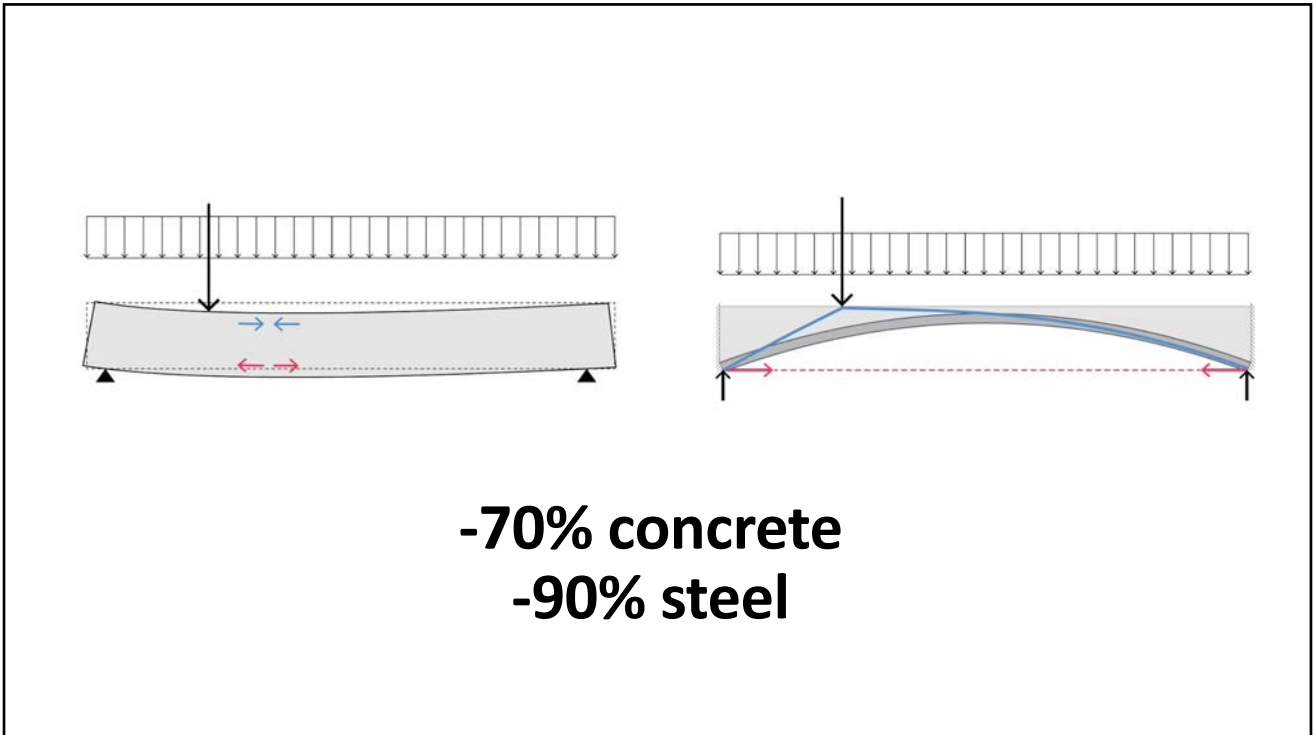


300 Bn m²

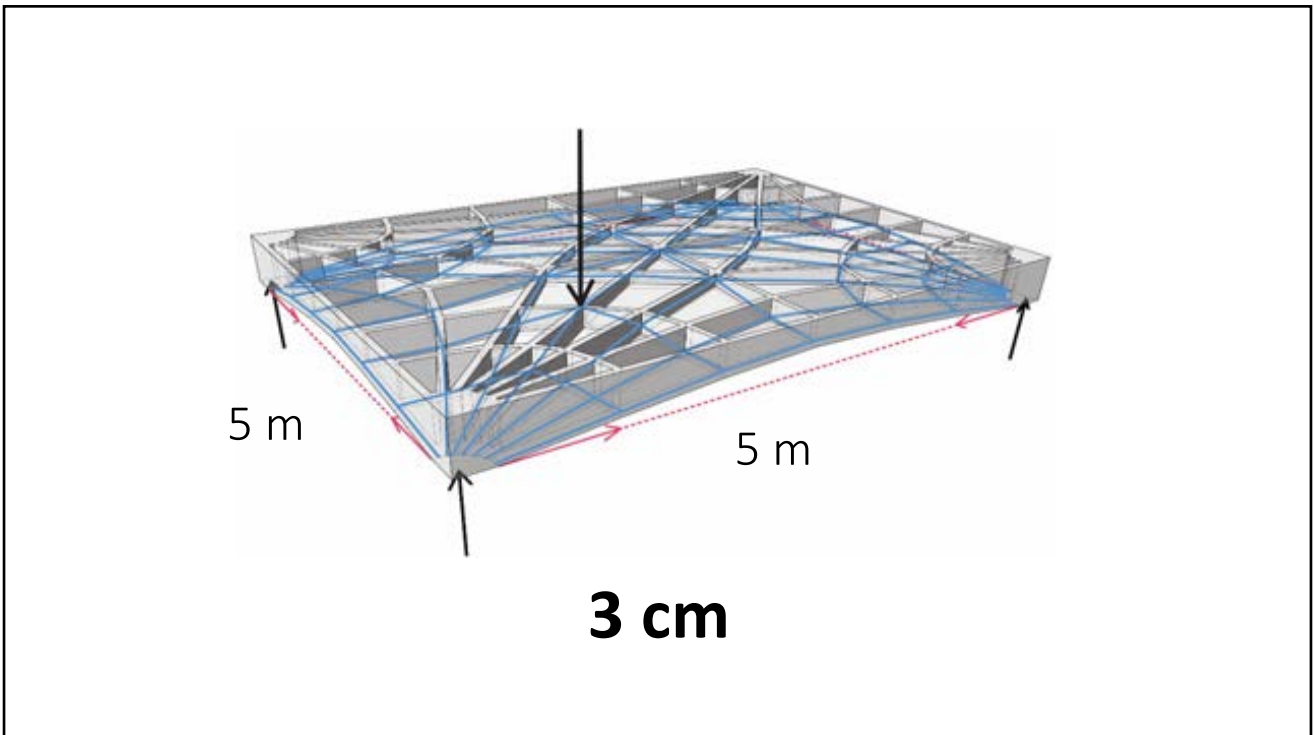
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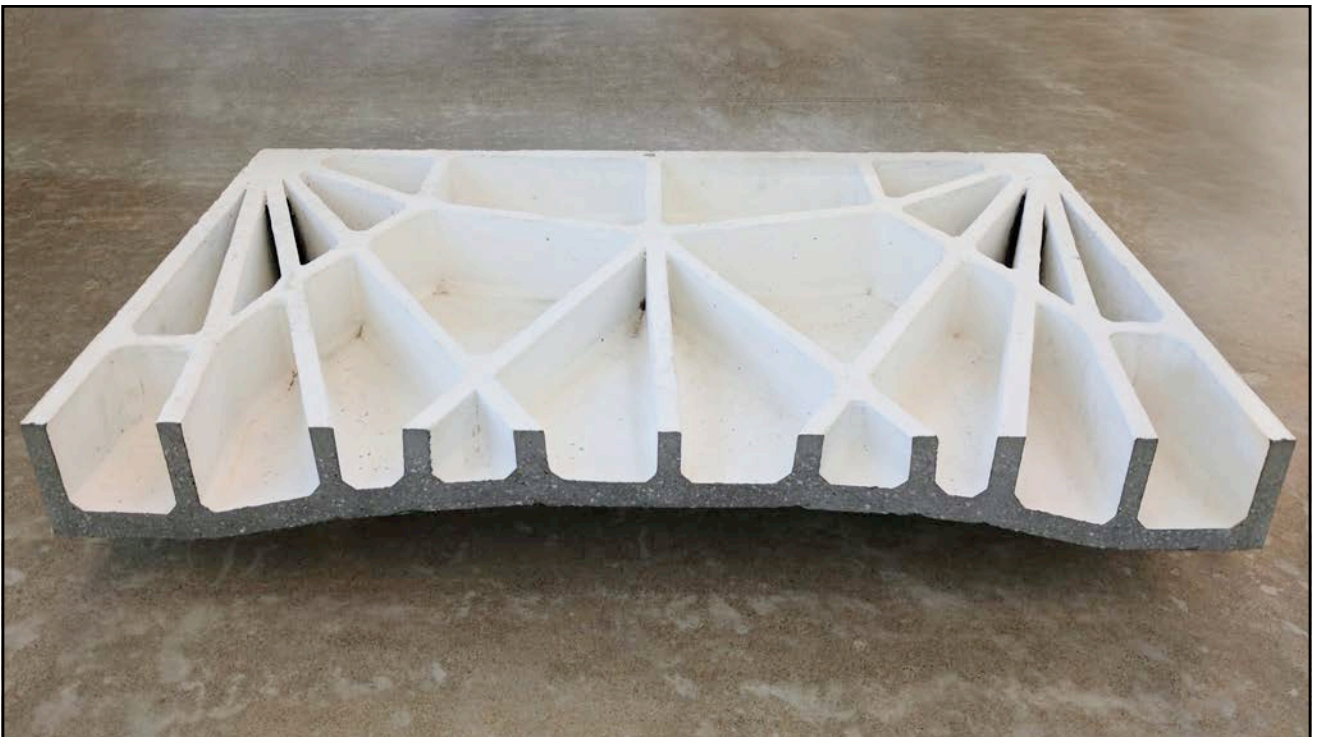
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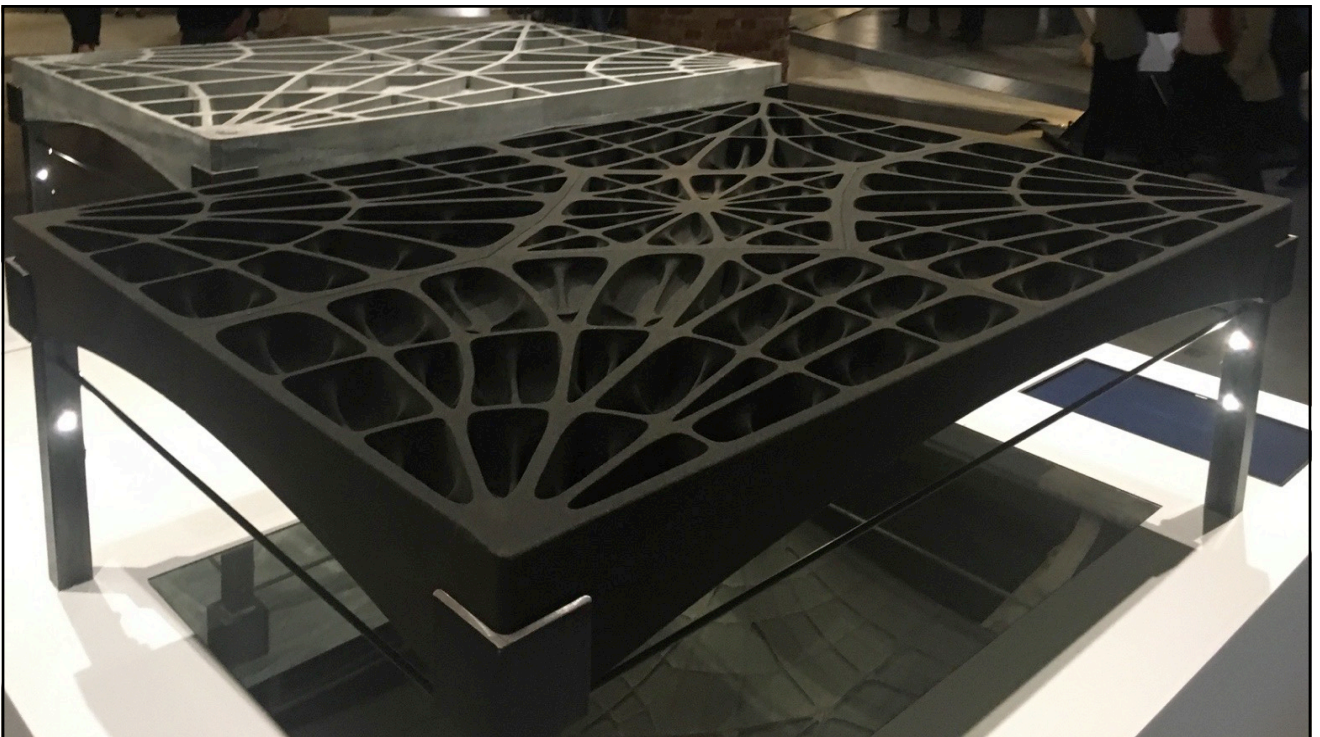
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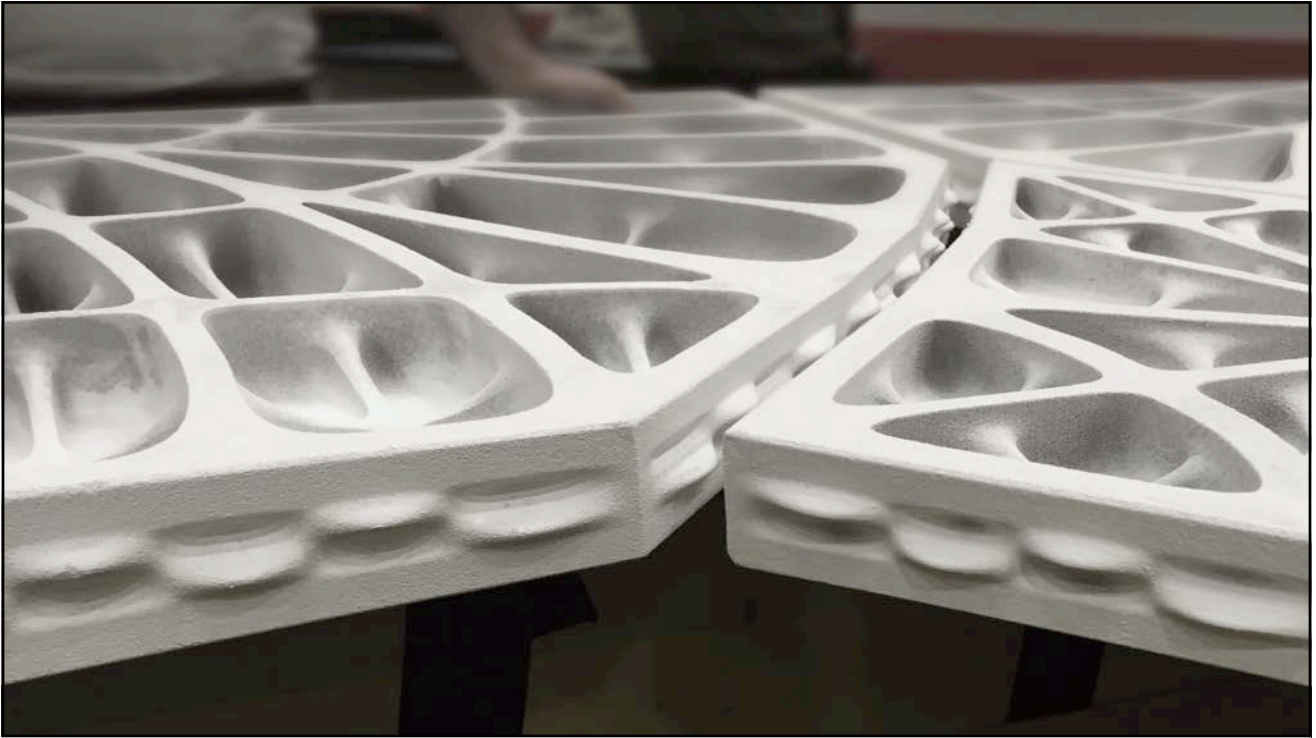
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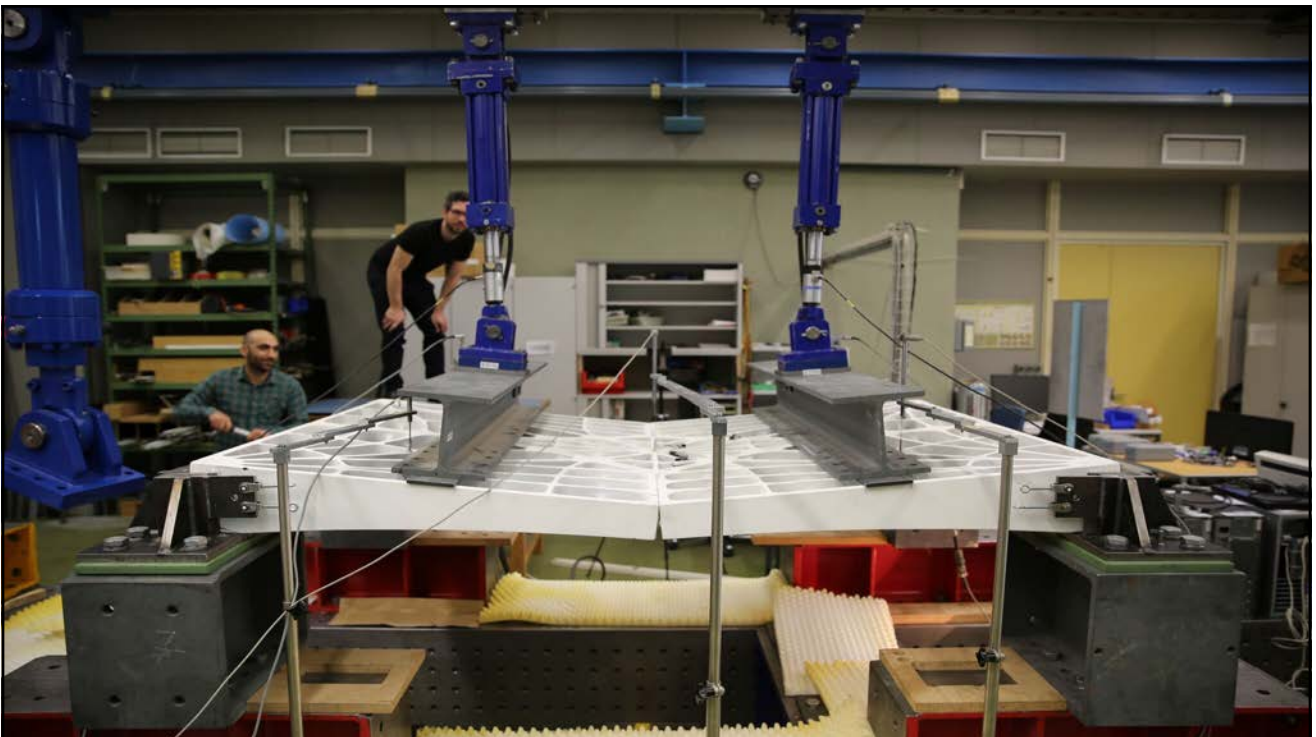
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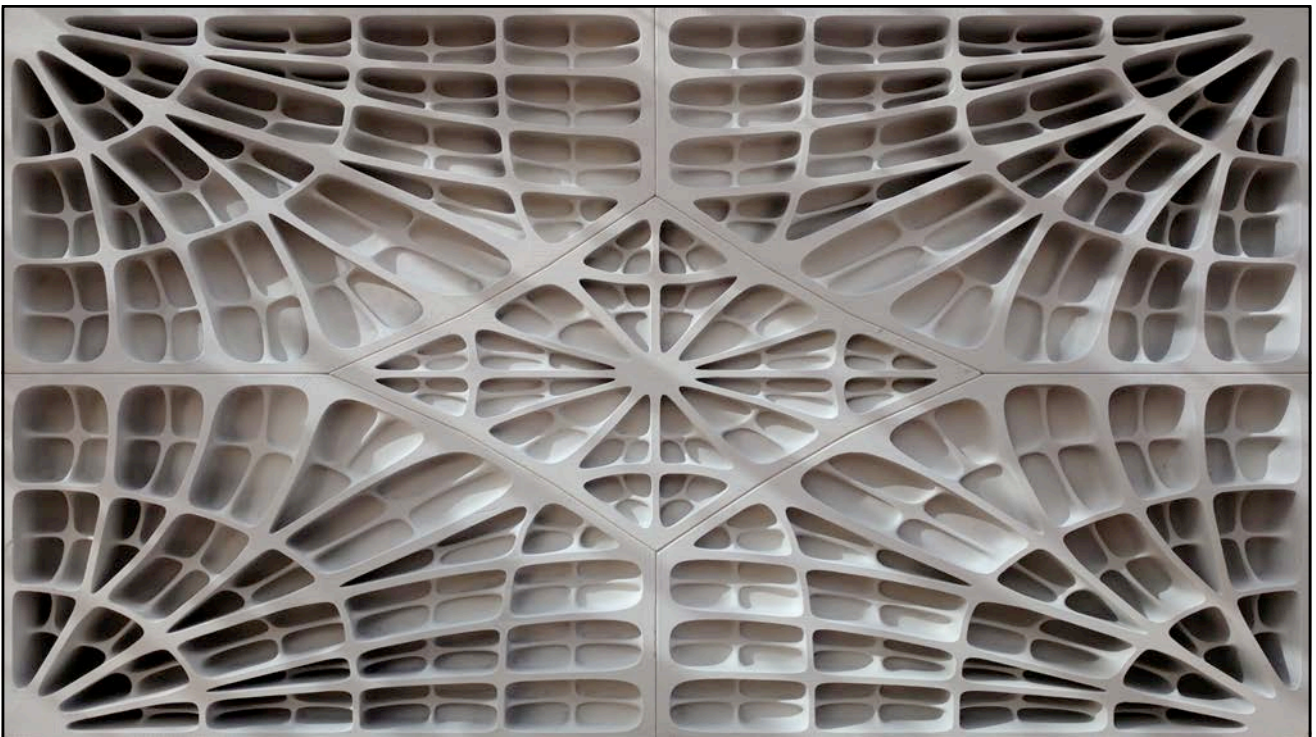
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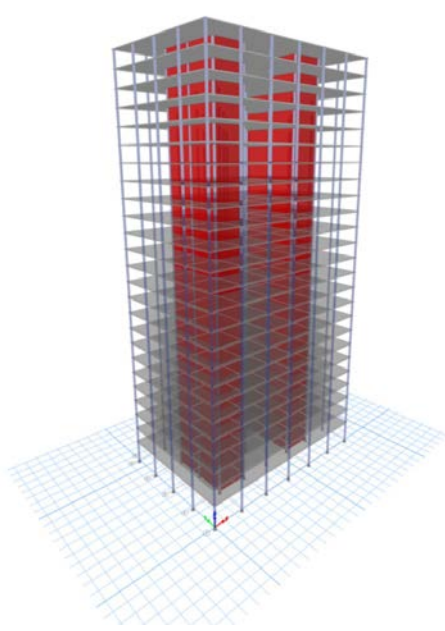
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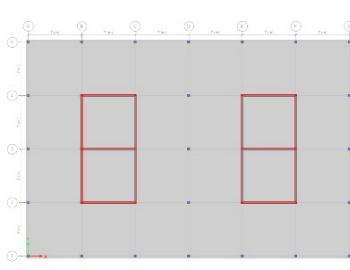
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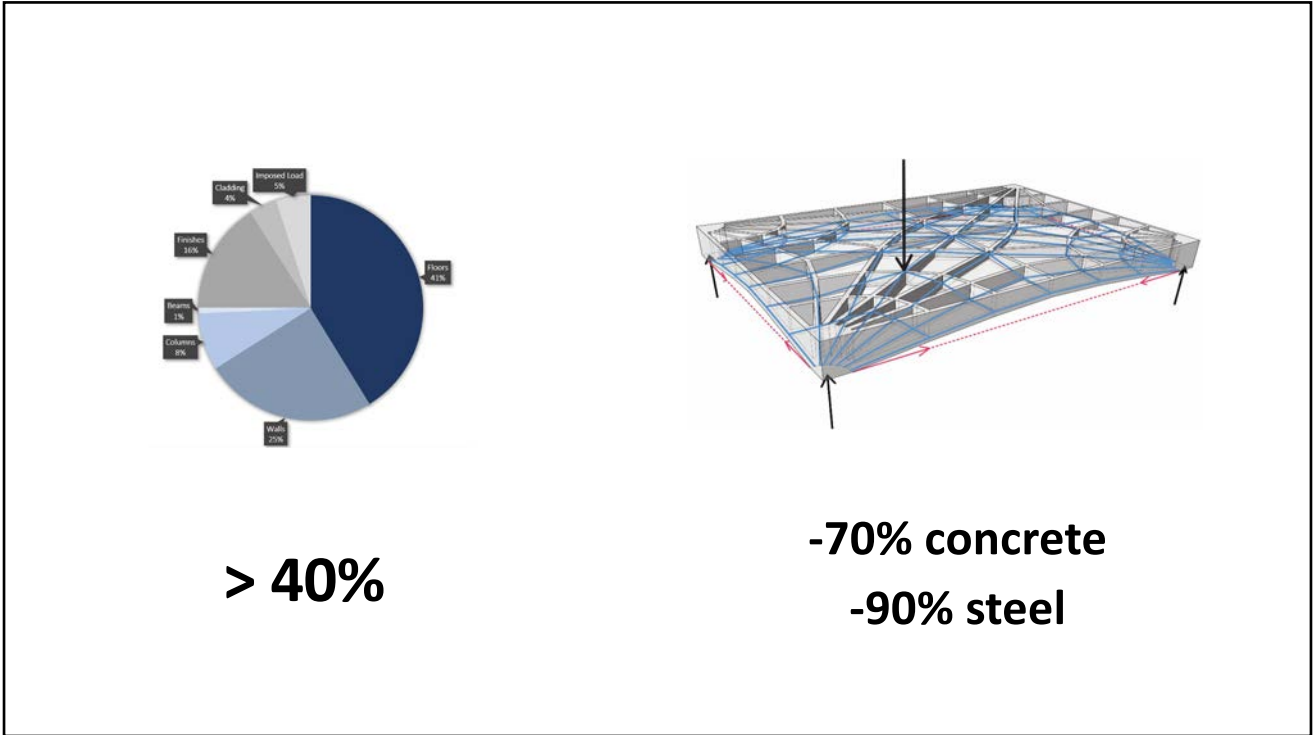


- Number of stories: 25
- Typical span: 7m
- Floor plate: 35m X 50m



Francesco Ranaudo

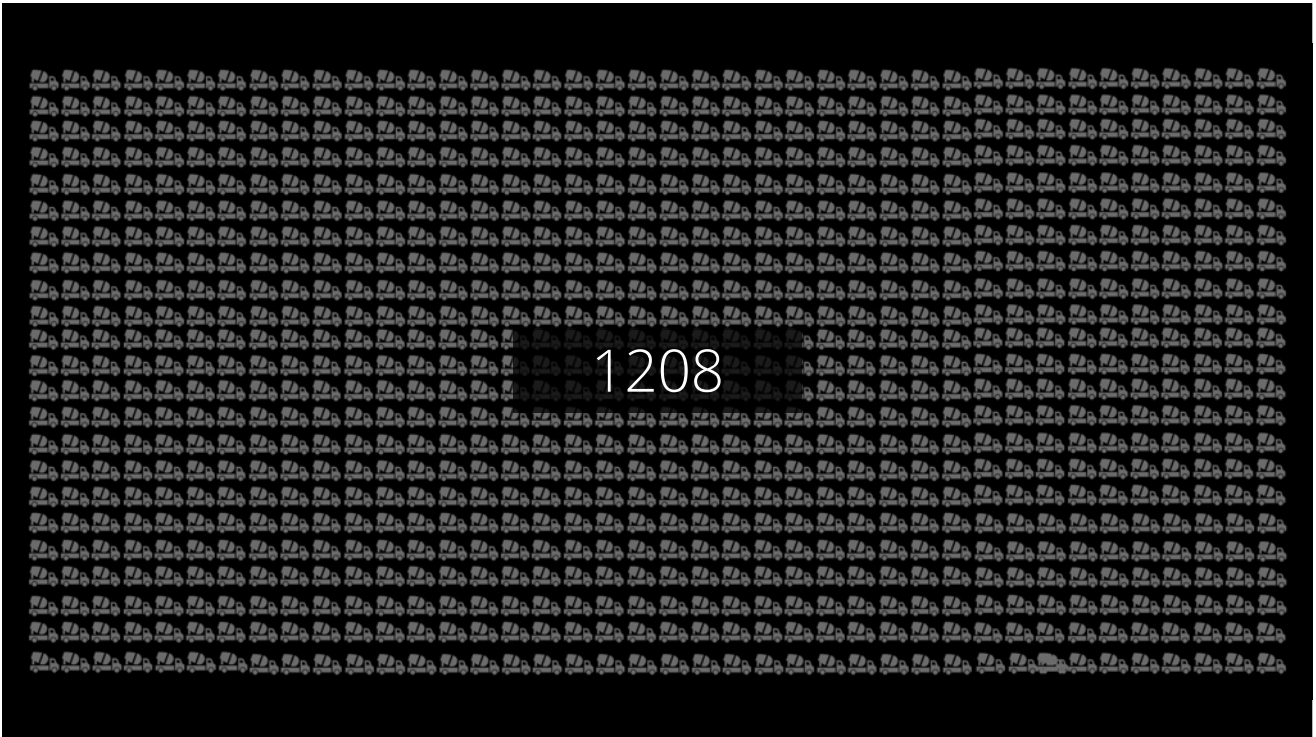
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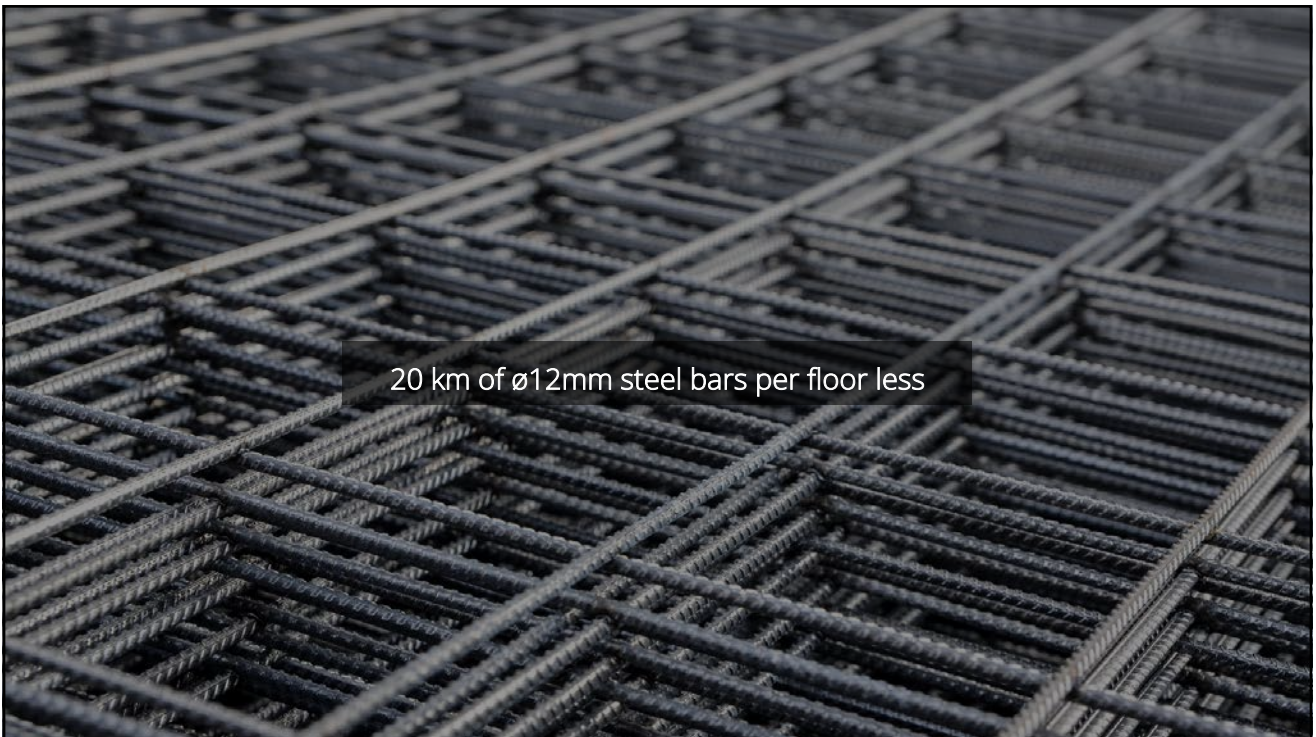
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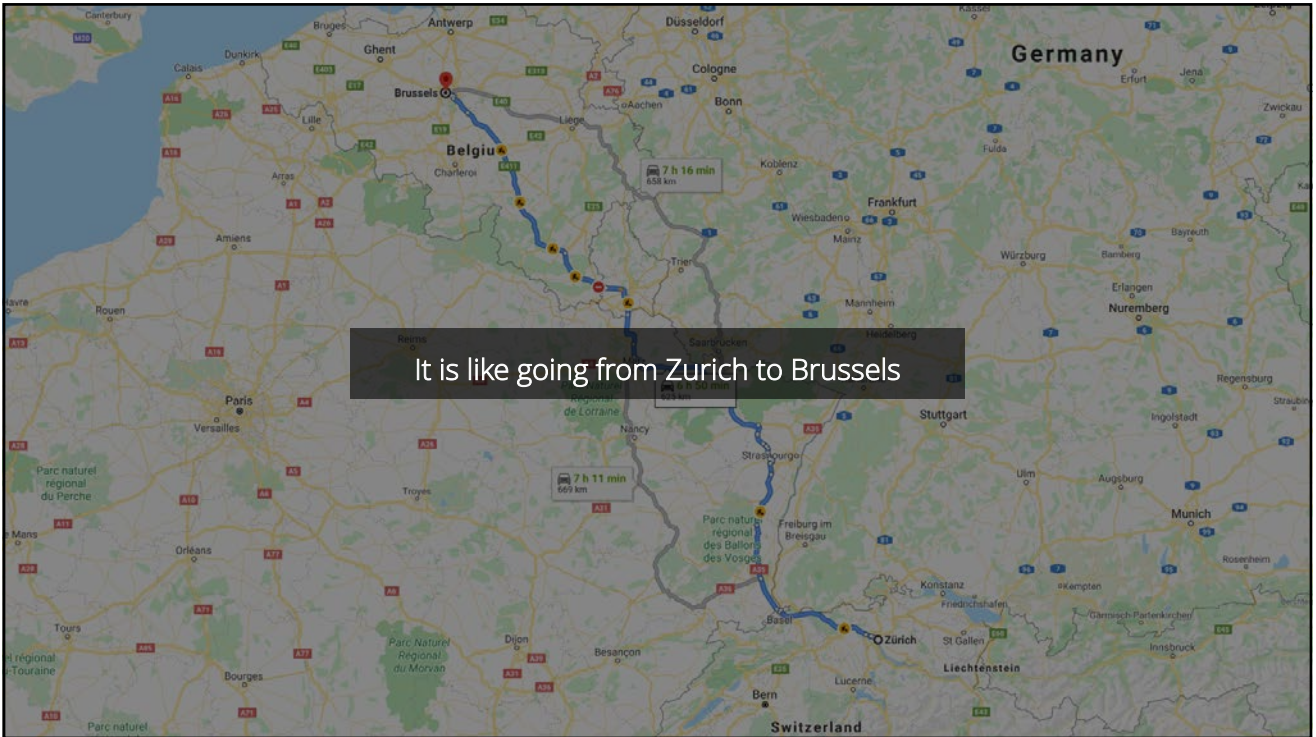
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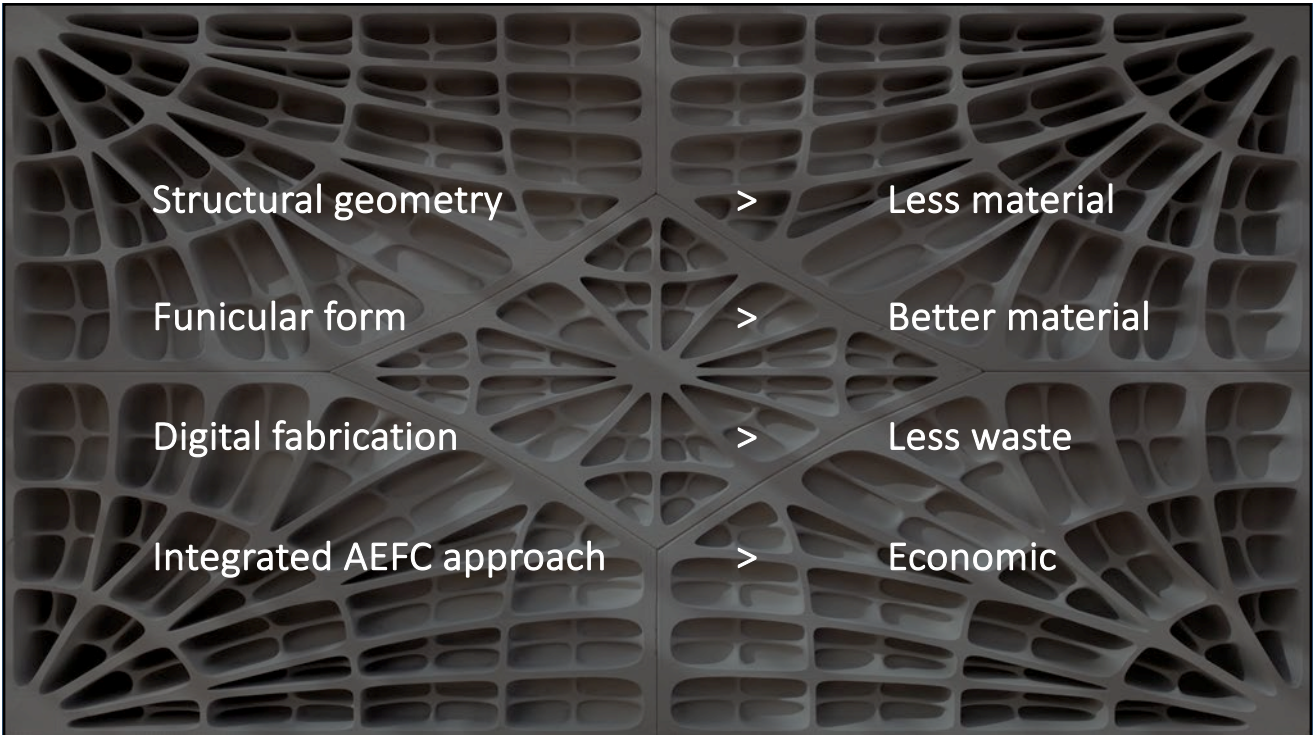
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