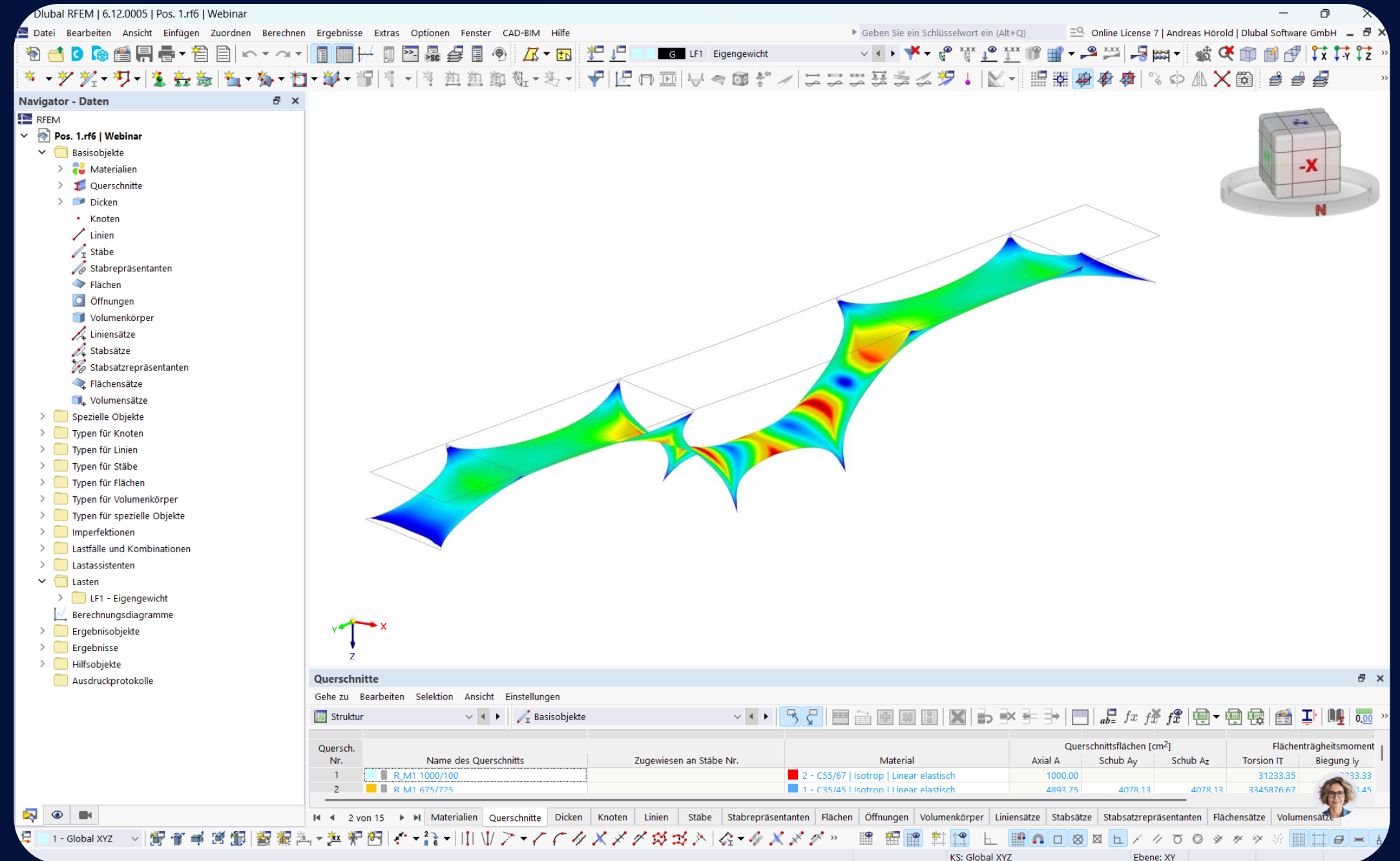


Webinar

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Example of Form-Finding in Solid Construction

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Today with



**Dipl.-Ing. (FH)
Andreas Hörold**
Organizer

Marketing & Public Relations
Dlupal Software GmbH

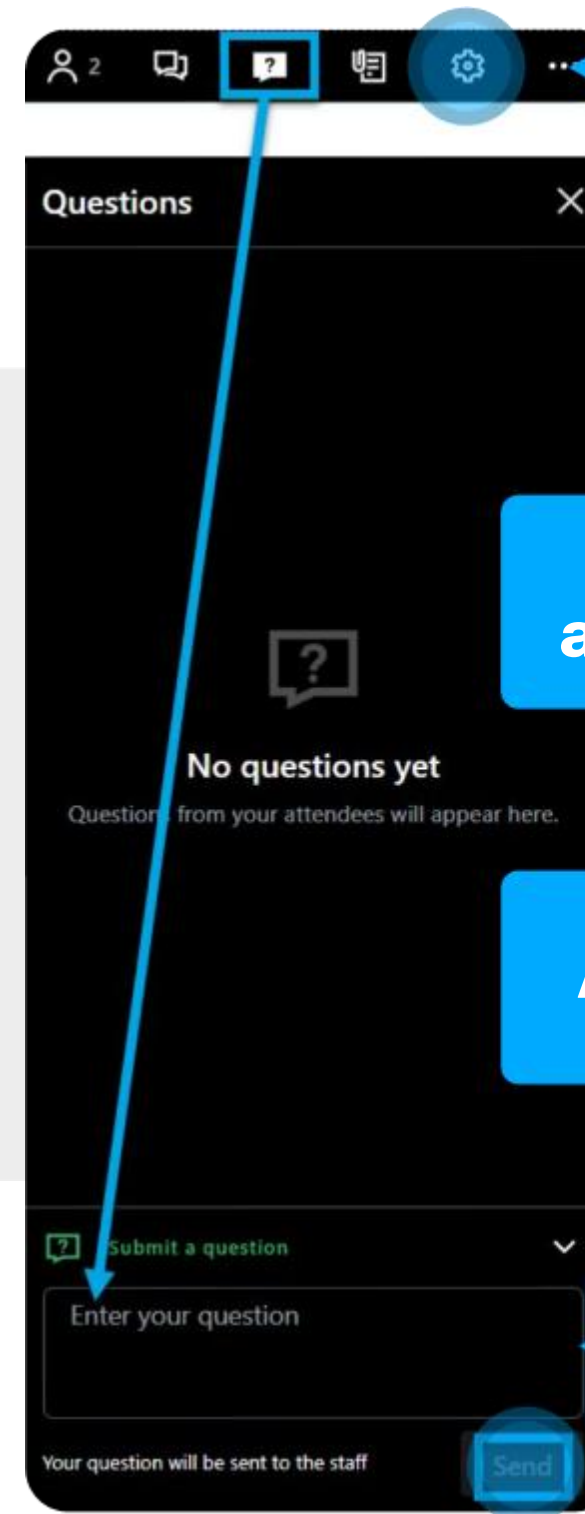


Hrvoje Petrovic
Co-Organizer

Product Engineering & Customer Support
Dlupal Software GmbH

Questions During the Presentation

1
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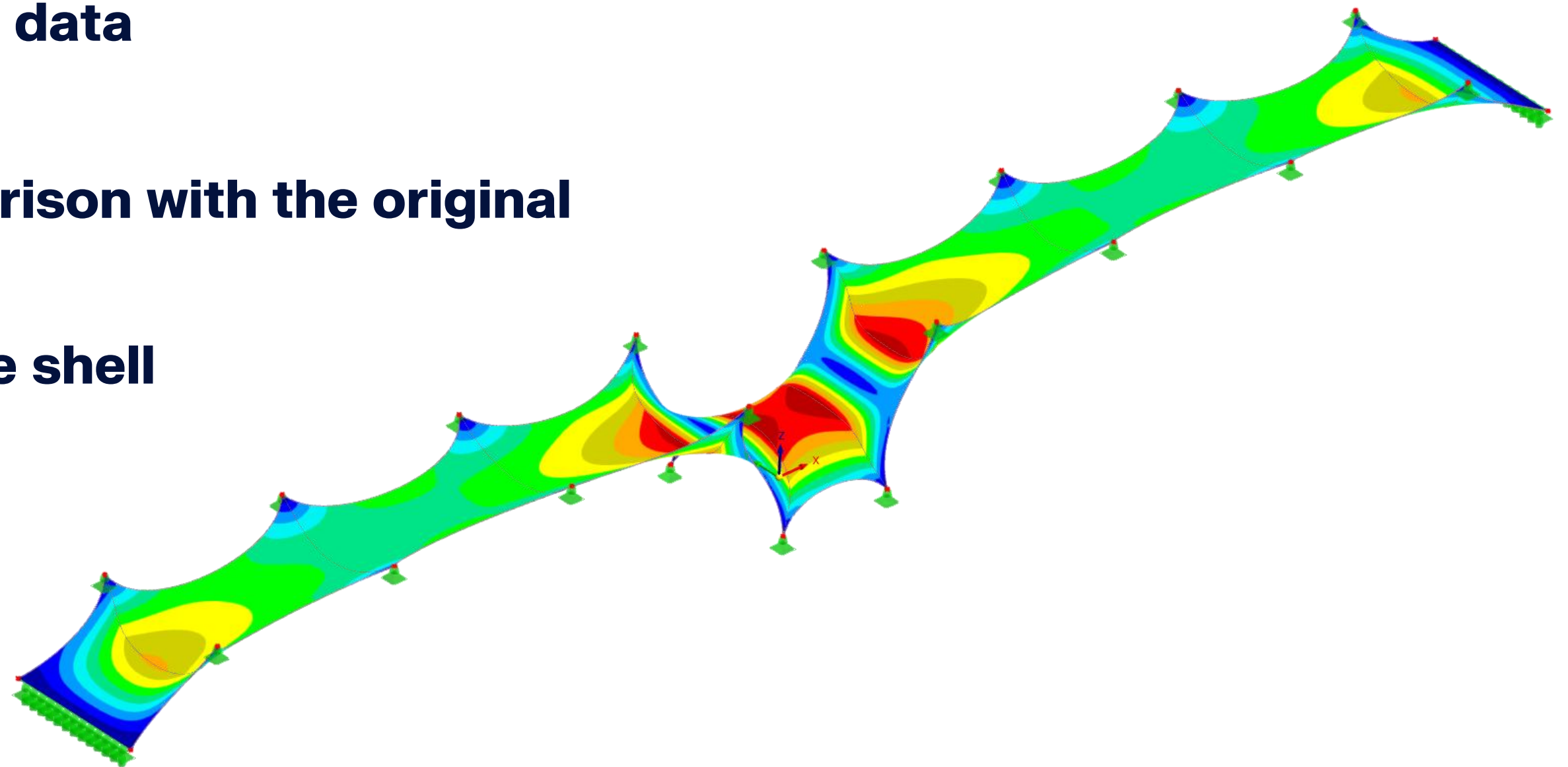
Ask question

or **2**

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Contents

- 1 Description of the existing structure
- 2 Preparation of the input data
- 3 Formfinding and comparison with the original
- 4 Creation of a stress-free shell
- 5 Statical analysis
- 6 Summary

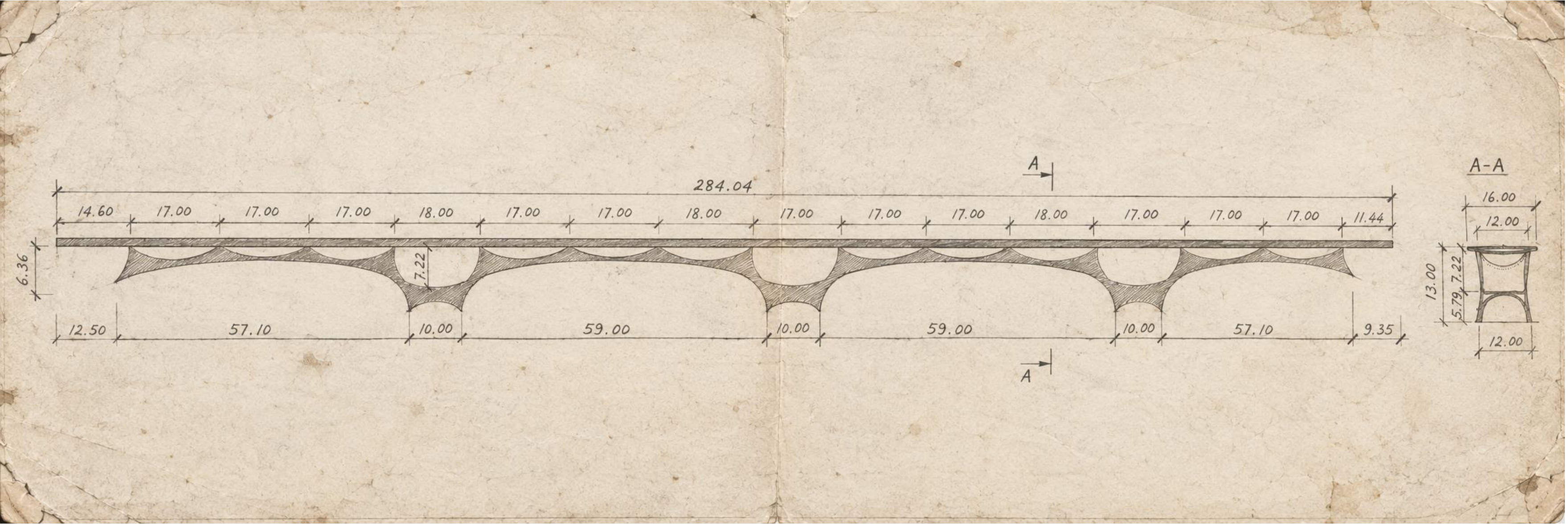


The existing structure

- Concrete bridge over the River Basento in Potenza, Italy
- Designed by Italian engineer Sergio Musmeci and built between 1971 and 1976
- Measurements: Length: approx. 300 m (four spans of 69,2 m each), Width of the superstructure: 16 m
- Substructure construction: Double-curved concrete shell with a thickness of 30 cm, increasing to approx. 1 m towards the shell edges
- Superstructure construction: Fish-bellied hollow beam with a height of approximately 1.3 metres, connected to the substructure at approximately 17-metre intervals.



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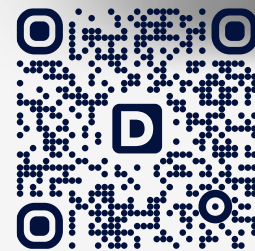
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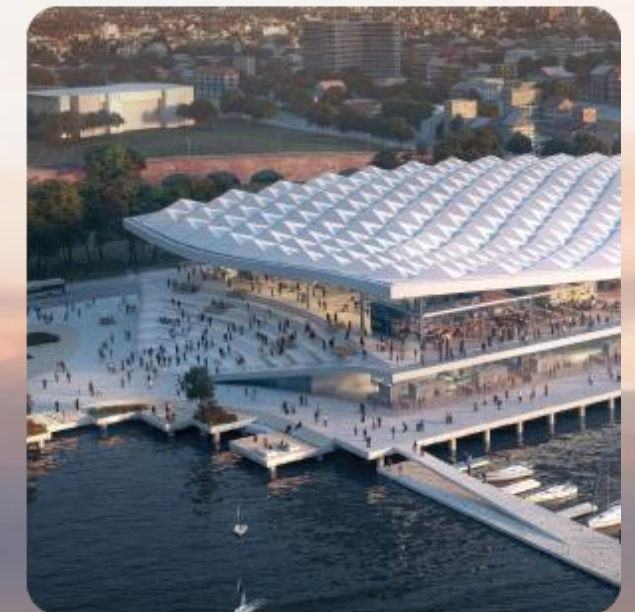


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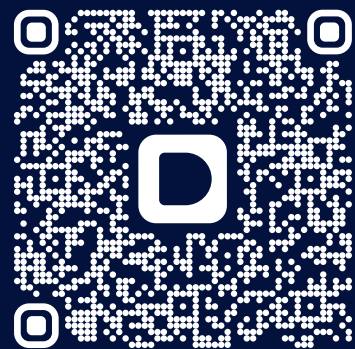
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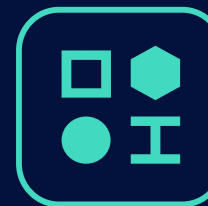
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