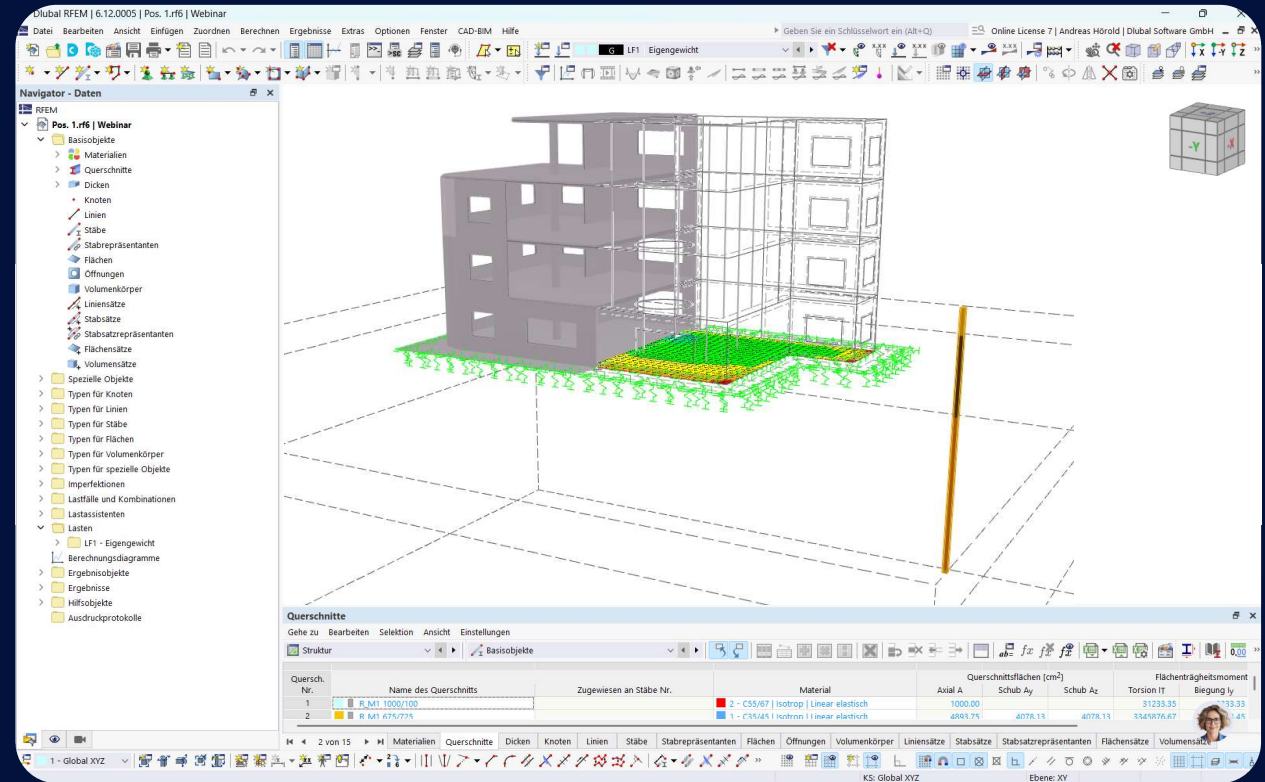


Webinar

DLUBAL

Soil-Structure Interaction in RFEM 6

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Today with



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

Marketing & Public Relations
Dlubal Software GmbH

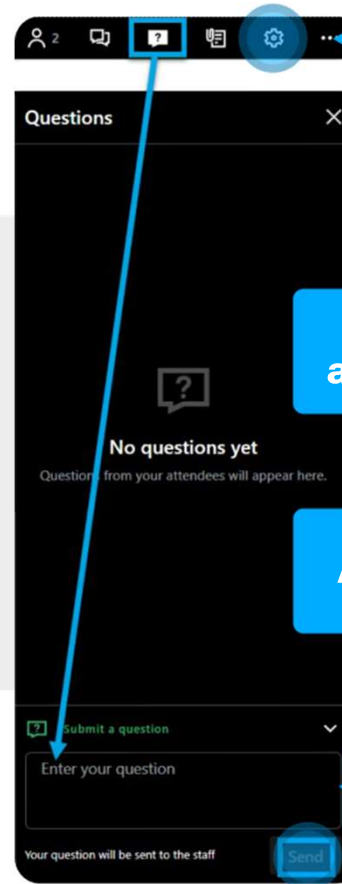


**Dipl.-Ing. Juliane
Stopper-Akdag**
Co-Organizer

Product Engineering & Customer Support
Dlubal Software GmbH

Questions During the Presentation

1
**Webinar Control
Panel Desktop**



**Adjust
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Ask question

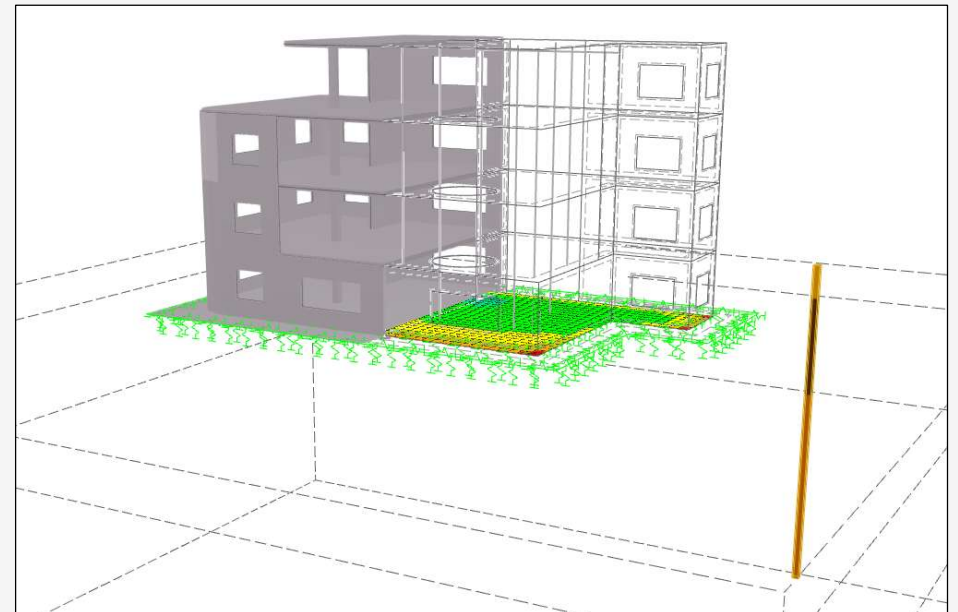
or **2**
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Content

1 Soil-structure interaction via advanced half-space method

2 Layered soil for concrete foundations

3 Outlook



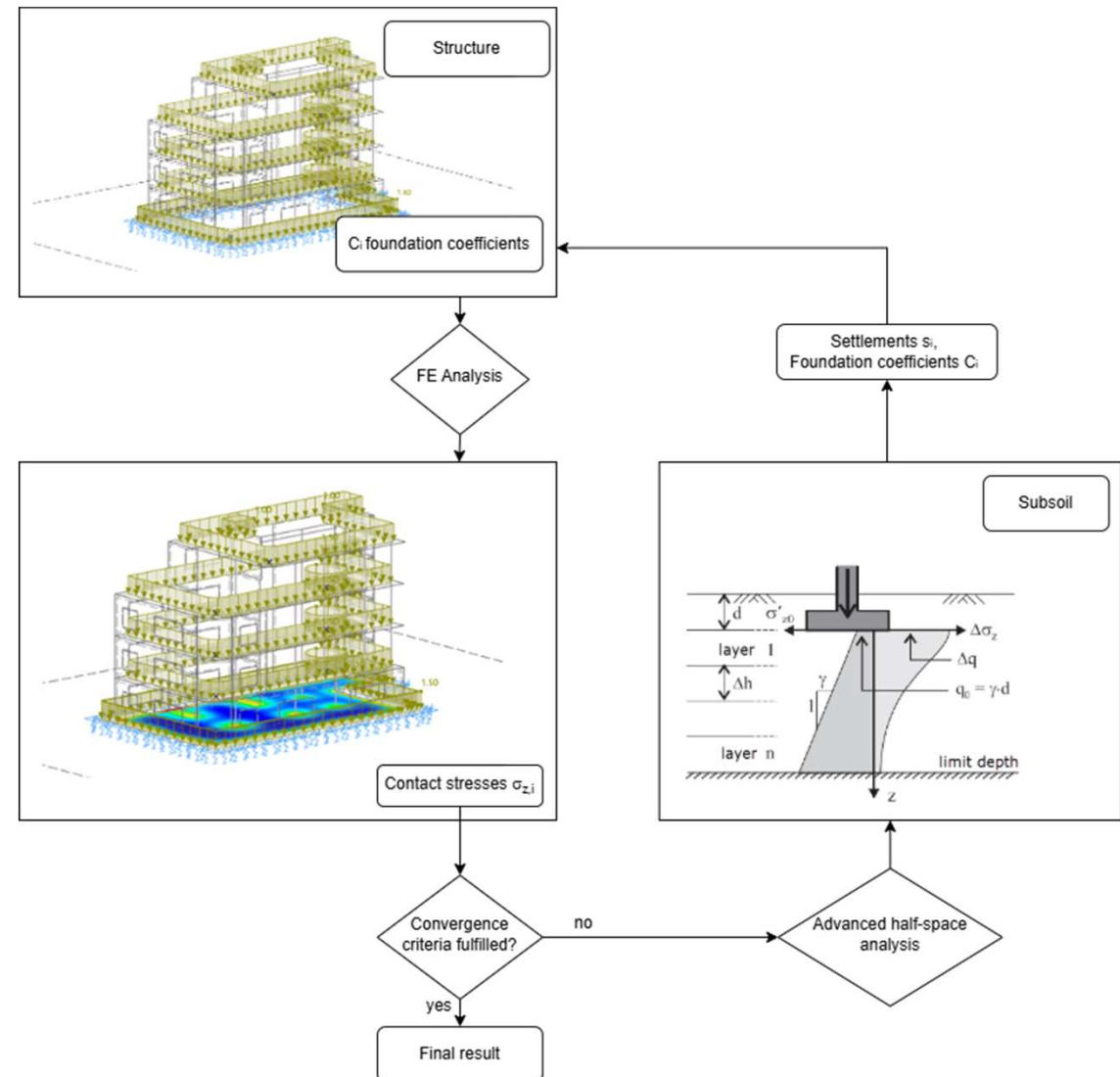
1. Advanced half-space method

Soil-structure interaction via generated spring stiffnesses

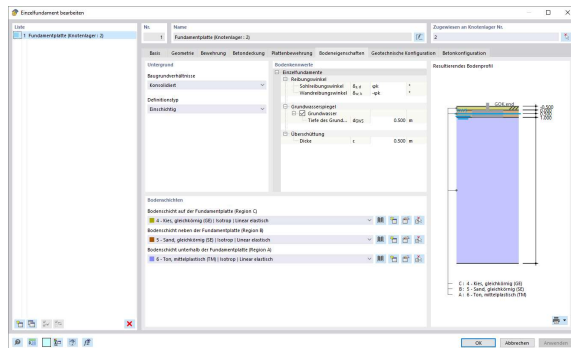
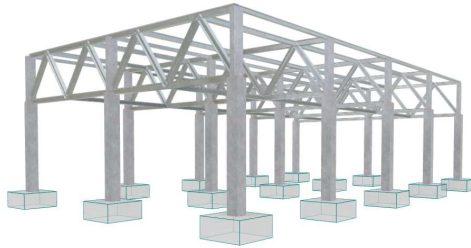
- Soil properties (layers, material)
- Load and foundation geometry

Method

- Stress integration layer wise
- Determination of the settlement components $s_{n,i}$ of each layer n as a result of load $\sigma_{z,i}$ and constrained modulus $E_{s,n}$
- Calculation of total settlement s_i and C_i parameters

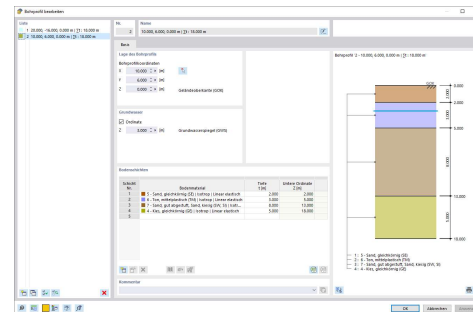
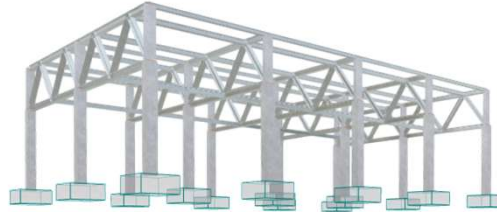


2. Definition of soil layers for concrete foundations



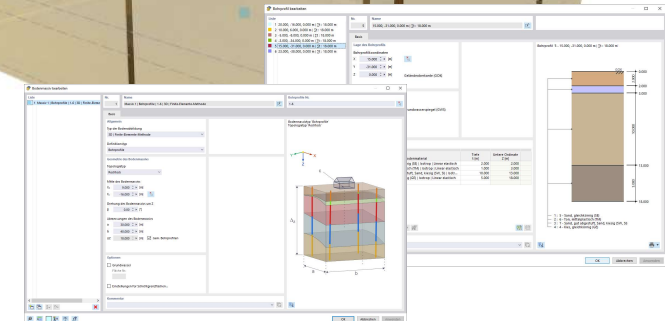
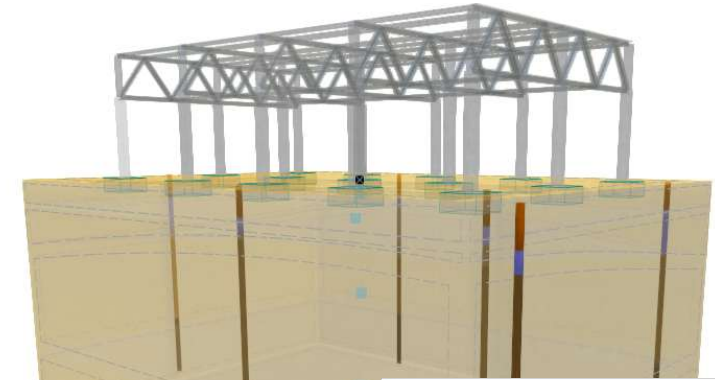
**Single-layered
(below foundation)**

Simple fast direct input



**Multi-layered
via Borehole**

Precise layer definition within
boreholes

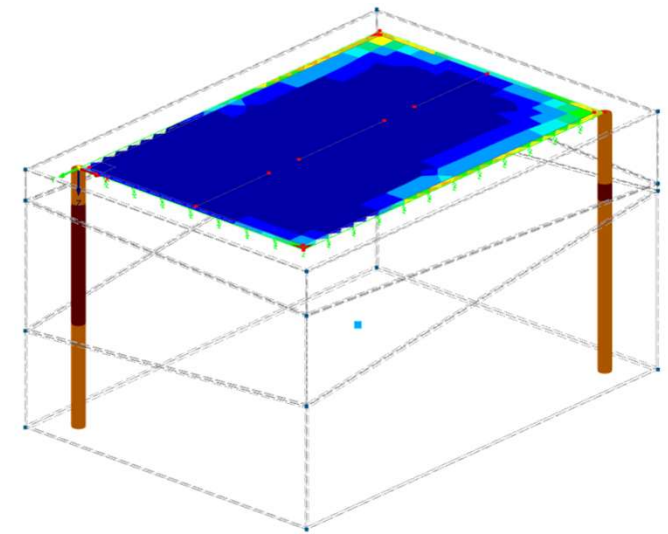
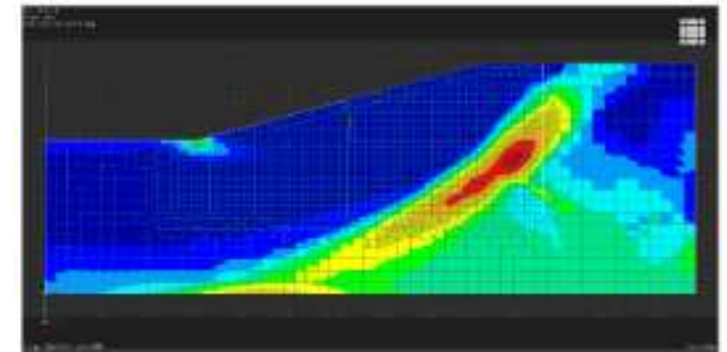
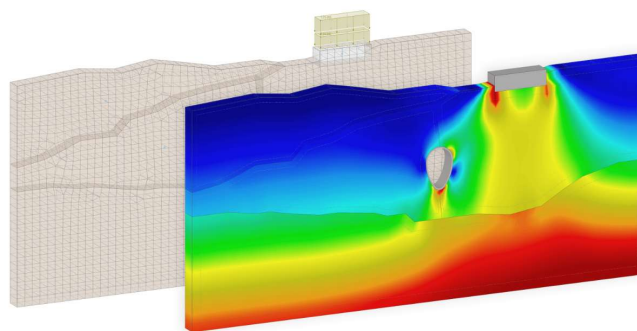
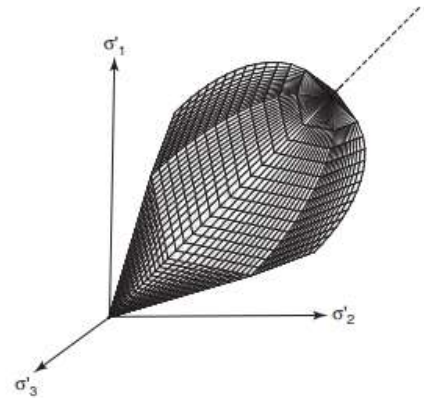


**Multi-layered
via Soil Massif**

Generation of specific soil stratigraphy for
each foundation

3. Outlook - Add-On Geotechnical Analysis

- Slope stability modelling using ϕ -c reduction
- Subgrade reaction method
- Material models for Finite Element Analysis
 - Cam Clay Model
 - Jointed Rock Modell



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