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WORKSHOP 2022

FMOP WebApp: Characterization of Press Sleeves

2022-06-24

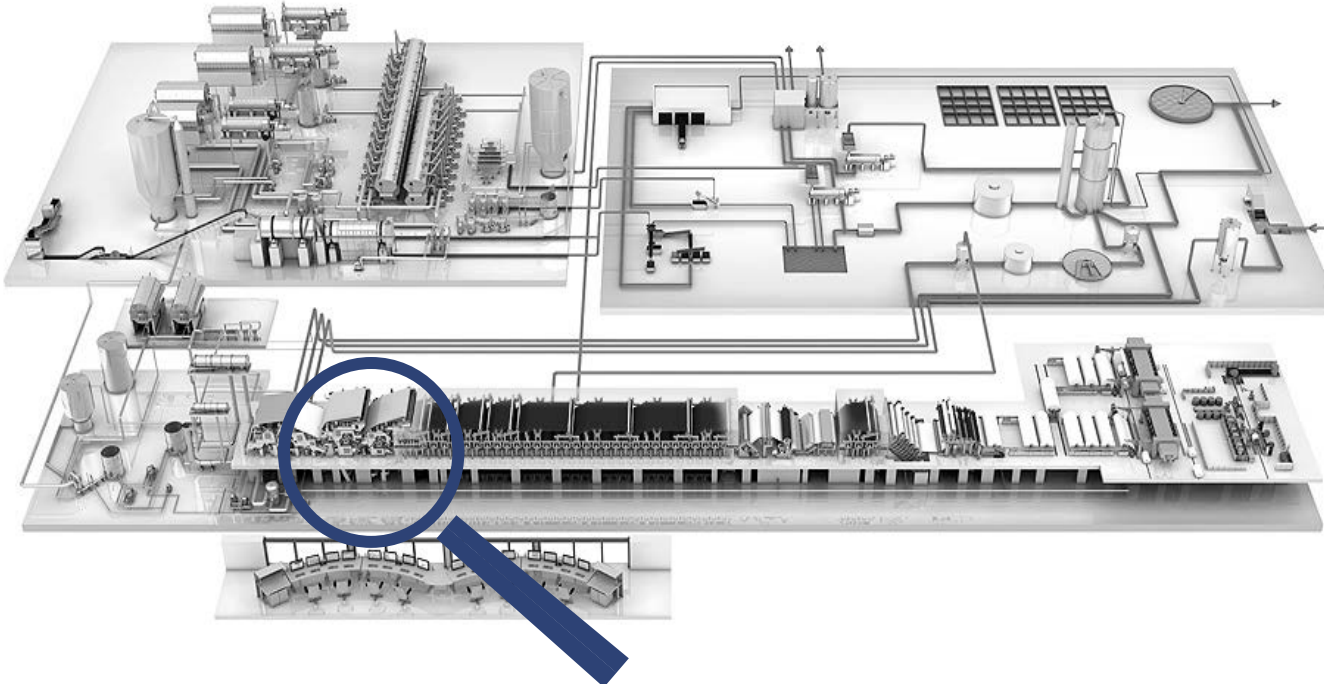
Timo Frick, Dr. Siegfried Graser, Dr. Bettina Grashof

J.M. Voith SE & Co. KG

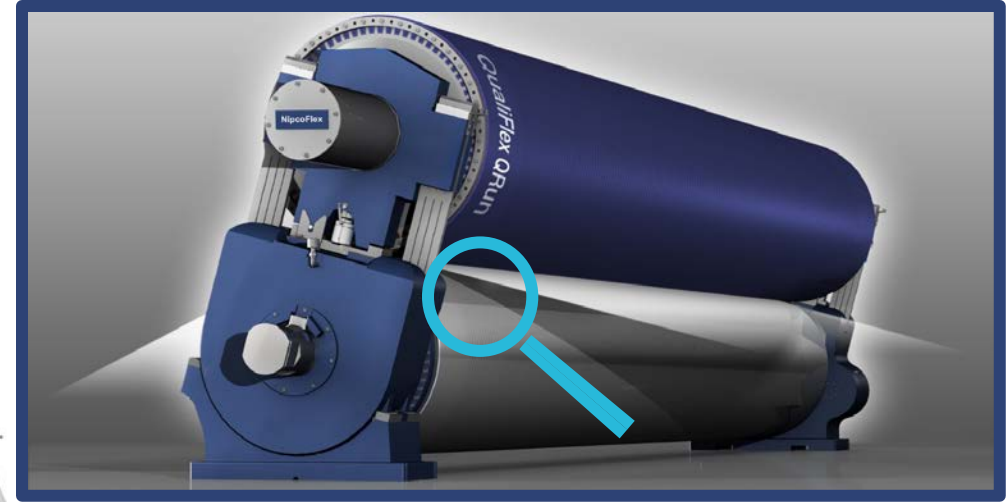
VOITH

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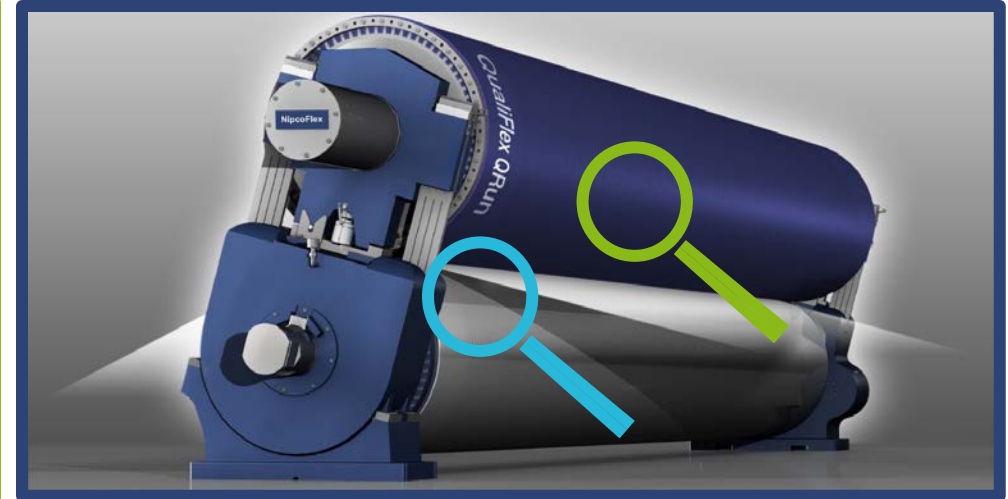
Papermachine Press Section: Nipcoflex® Press



Voith Papermachine



Nipcoflex Press: Qualiflex® Belts



Qualiflex Belt: Supporting Product Developments with Simulation

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Qualiflex Belt: Supporting Product Developments with Simulation

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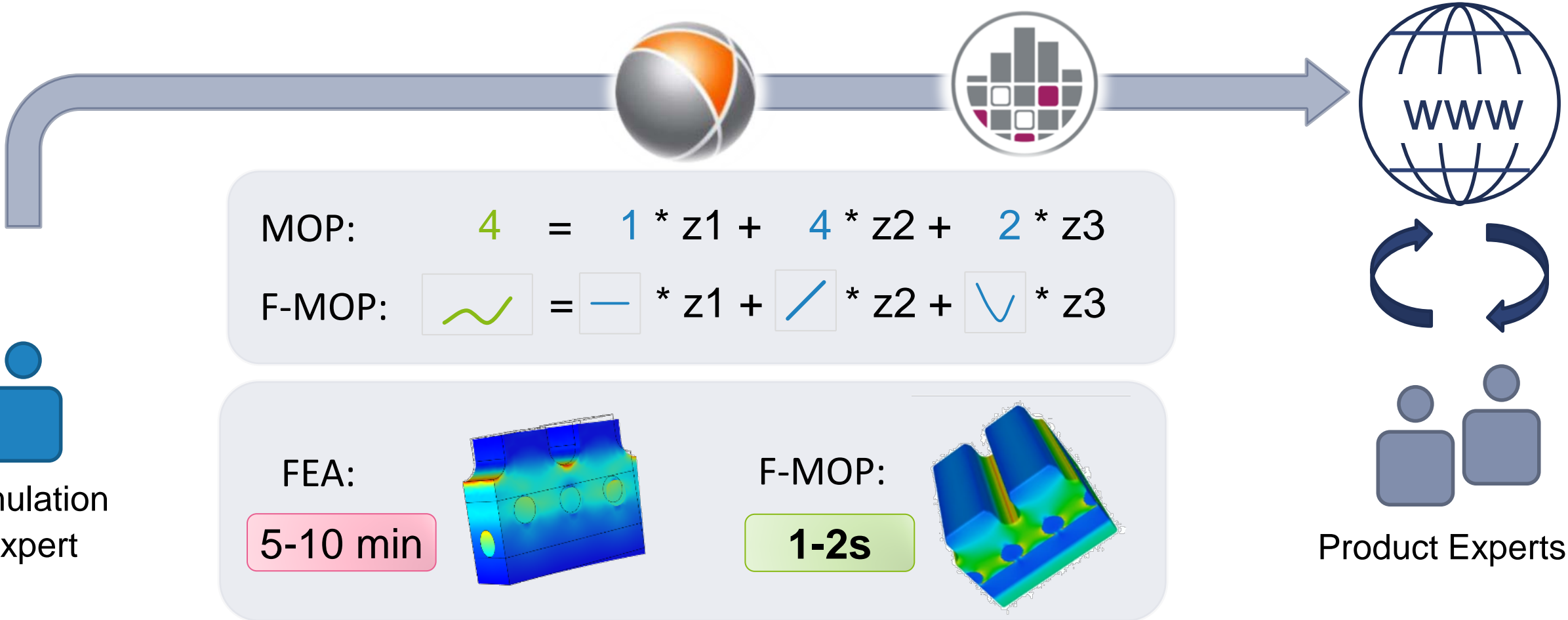


Simulation
Expert

Product Experts

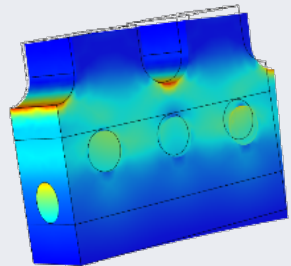
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Field Meta Modelling: Approach & Application

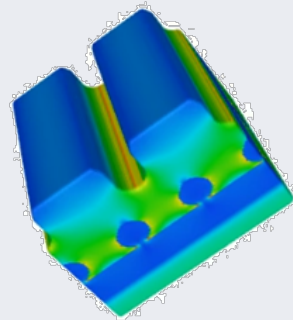



Simulation
Expert

FEA:
5-10 min

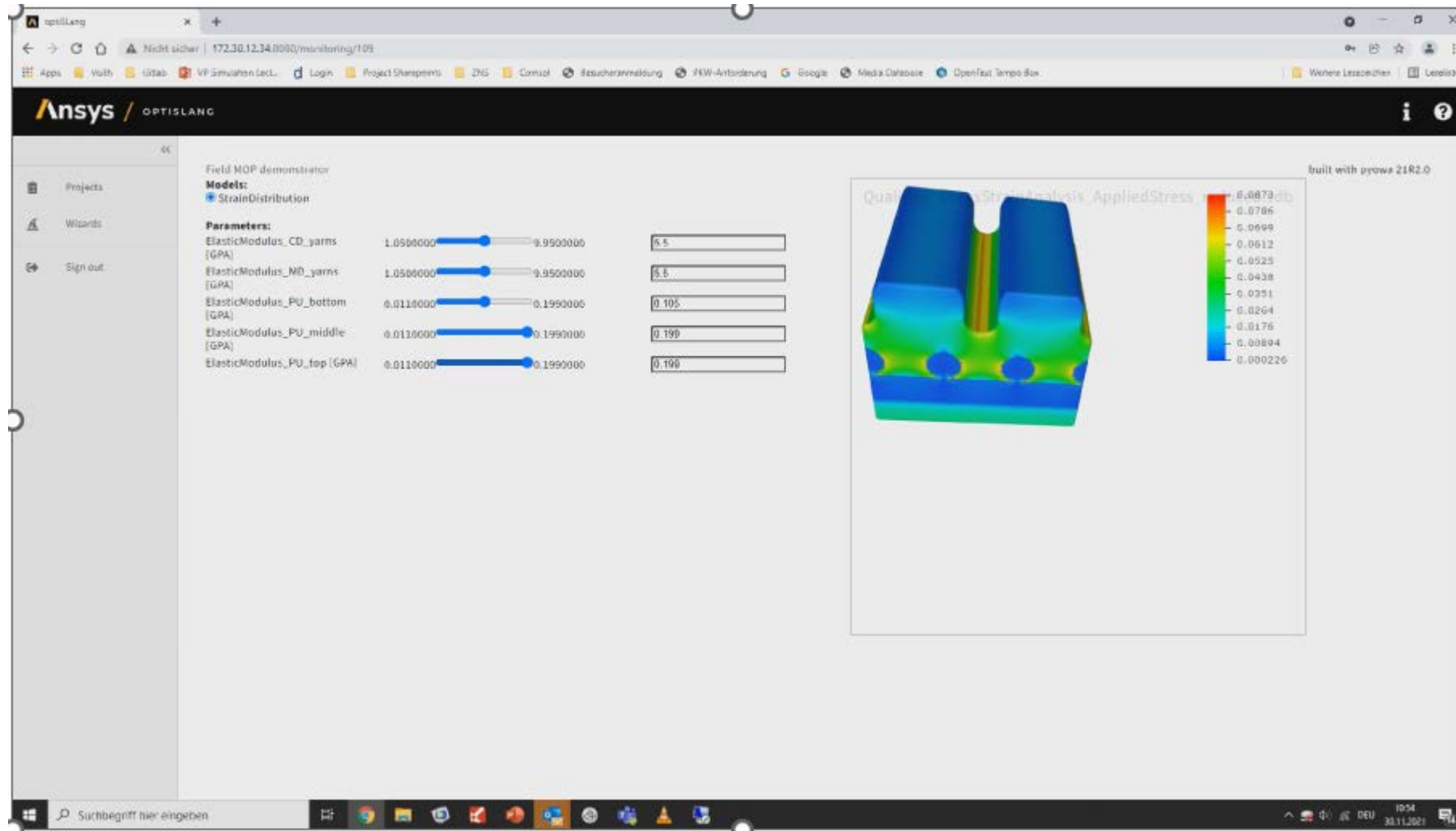


F-MOP:
1-2s




Product Experts

F-MOP - Web App: User Experience



Pilot Project Qualiflex: Summary & Evaluation

We can:

- Increase deep understanding (playing around with sliders)
 - Reduce misinterpretation (simulation-customer interface)
 - Reduce postprocessing time for long-term projects
- Make modeling and simulation more valuable

Challenges:

- Geometrical deviations to reference mesh limited
- Procedure is currently complex and vulnerable to errors
- Functionality and properties of Web Viewer extremely limited

It is great to just play around with designs and materials by myself. This tool could save a lot of time in early project stages

Juanhao Zou
(R&D Manager
QualiFlex)

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