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SCHATZMAYR WELP SA Thomas

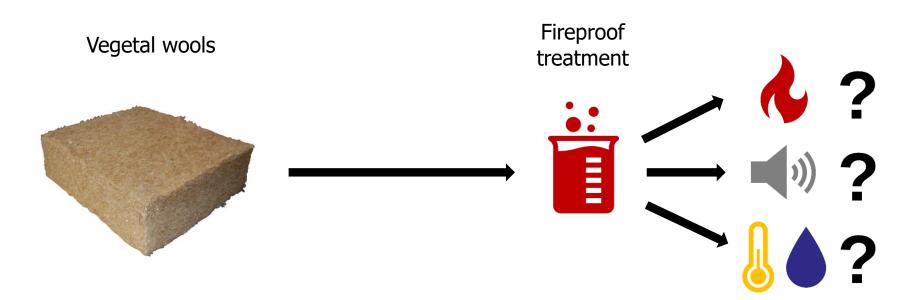
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Optimized vegetal wools for indoor comfort: coupling fire treatment with acoustic and hygrothermal performances

ETELOR



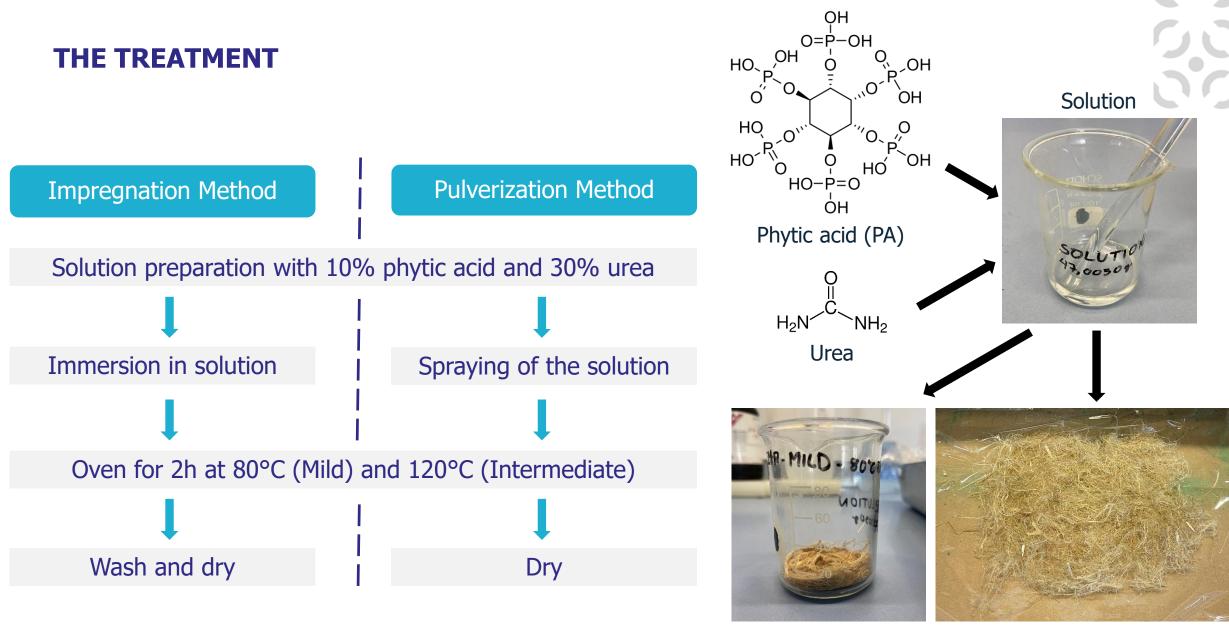
CONTEXT AND OBJECTIVES



- 🕺 Sustainable wall insulator 💋
- Multifunctional properties
 - X Acoustic absorption
 - Thermal insulation
 - X Hygroscopic nature
- **X** Low fire resistance

- The treatment needs to be viable at large scale
- ☆ Will the fireproof treatment affect the microstructure of the fibers?
- ✗ Will it impact the acoustical and hygrothermal performance of the vegetal wools?



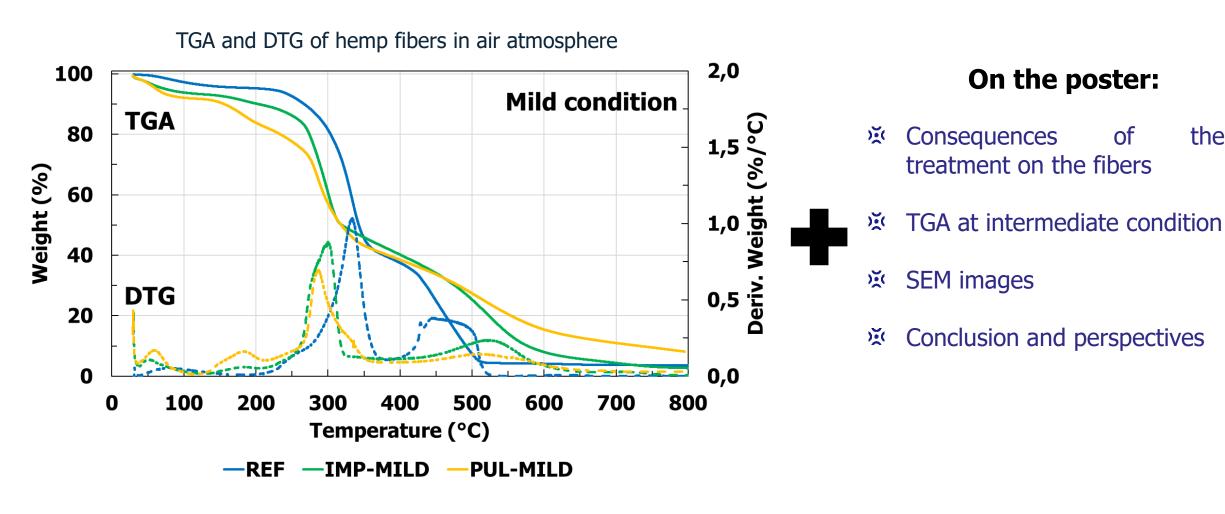


Impregnation

Pulverization



RESULTS





the



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