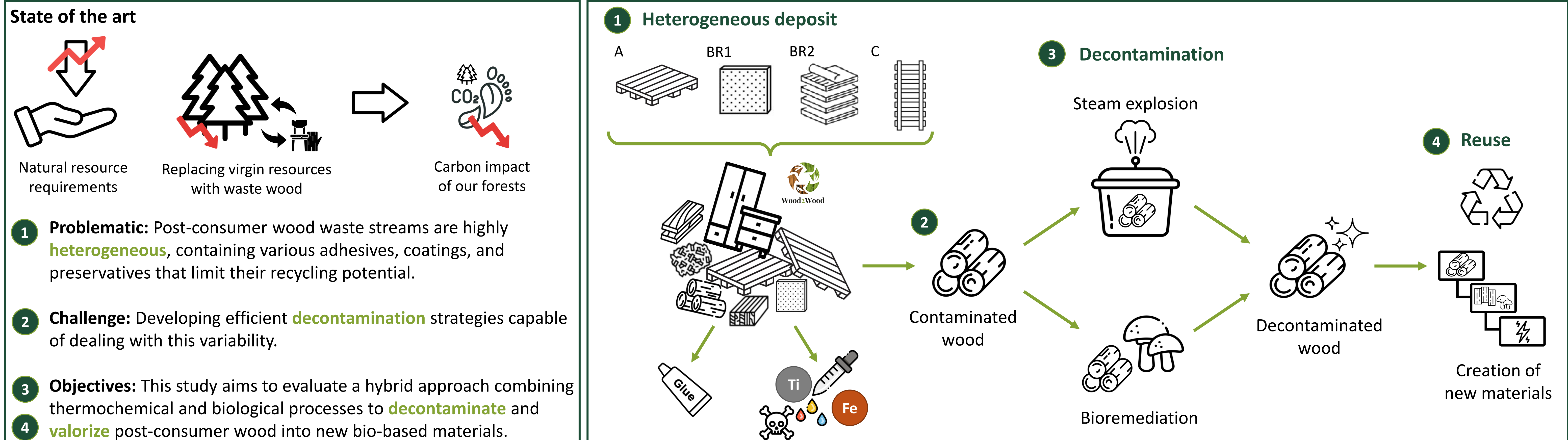
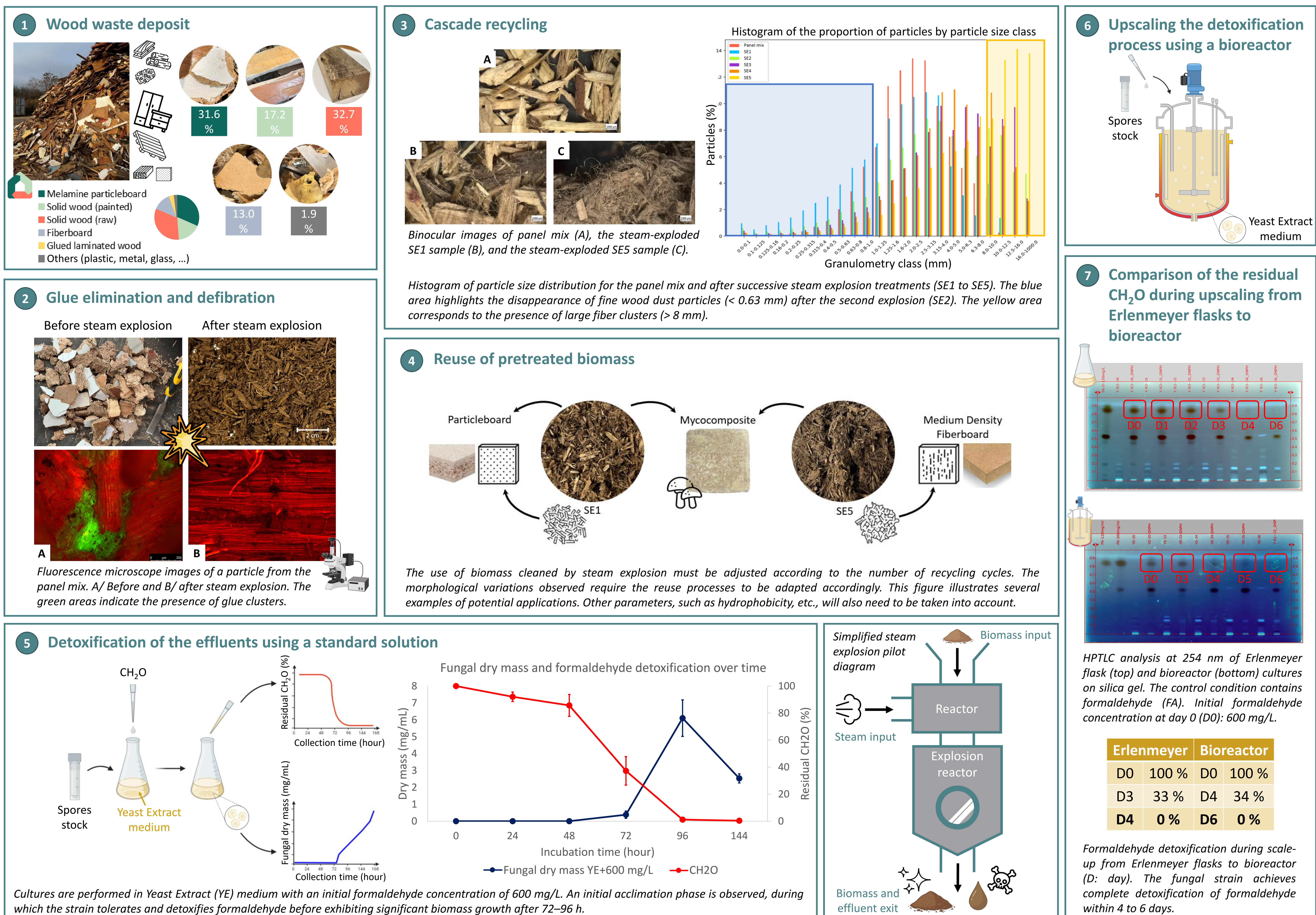


Context and objective



Results



Conclusion & perspectives

The **steam explosion** process removes up to **80 %** of the **glue**. **Formaldehyde** decontamination reaches up to **77 %** within **72 hours** of incubation.

- Optimization of the fungal growth in the steam explosion effluents
- Optimization of the fungal growth on steam exploded wood waste
- Characterize the properties of the fibers after several explosions

References

- S. Troilo, A. Besserer, C. Rose, S. Saker, L. Soufflet, and N. Brosse, "Urea-Formaldehyde Resin Removal in Medium-Density Fiberboards by Steam Explosion: Developing Nondestructive Analytical Tools," *ACS Sustainable Chem. Eng.*, vol. 11, no. 9, pp. 3603–3610, Mar. 2023, doi: [10.1021/acssuschemeng.2c05686](https://doi.org/10.1021/acssuschemeng.2c05686).
- K. Aguilar, L. Figel, S. Saker, L. Soufflet, N. Brosse, and A. Besserer, "Steam Explosion: A Booster for Fungal Growth in a Myco-composite," *ACS Sustainable Chem. Eng.*, vol. 12, no. 31, pp. 11650–11659, Aug. 2024, doi: [10.1021/acssuschemeng.4c03099](https://doi.org/10.1021/acssuschemeng.4c03099).

Thanks



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