Icam de Nantes, GeM–Centrale de Nantes

GdR MBS
MATÉRIAUX de CONSTRUCTION BIOSOURCÉS

- Membres de l'équipe:
  - **Mahfoud TAHLAITI,** Mustapha Nouri, Frédéric Grondin, Alex Lejeau, Eric Le Gal Lasalle, Sylvain Kerdudou.

- Matériaux :
  - Bio-composite à base des fibres de naturelle

Références :

Nouri, M., Griballah, I., Tahlaiti, M., Grondin, F., and Beaugrand, J. (2019). Plant Extraction and Physicochemical Characterizations of Untreated and Pretreated Diss Fibers (Ampelodesmos mauritanicus). Journal of Natural Fibers 0, 1–11

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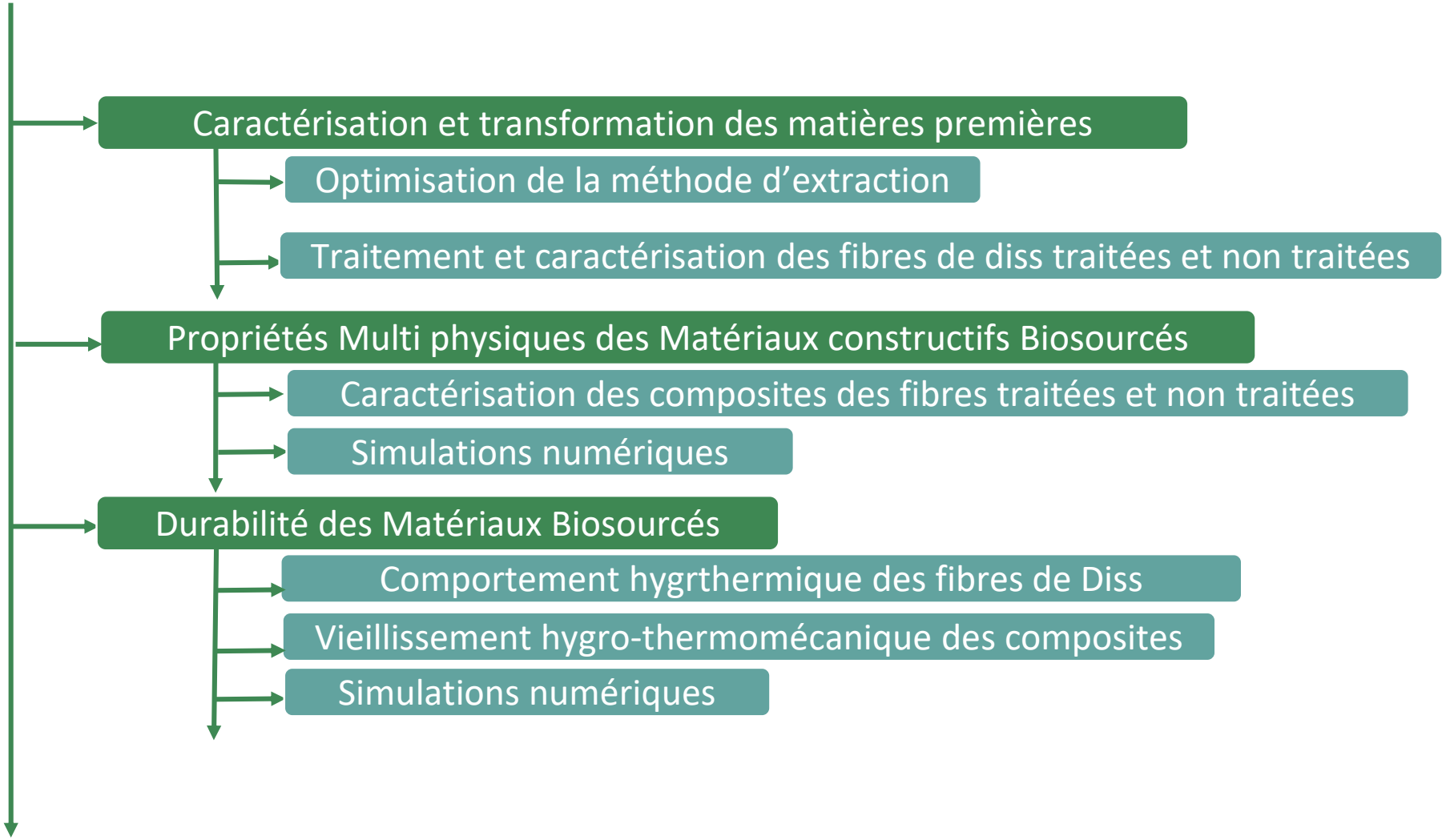
Thématiques de recherche :



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• Caractérisation et transformation des matières premières

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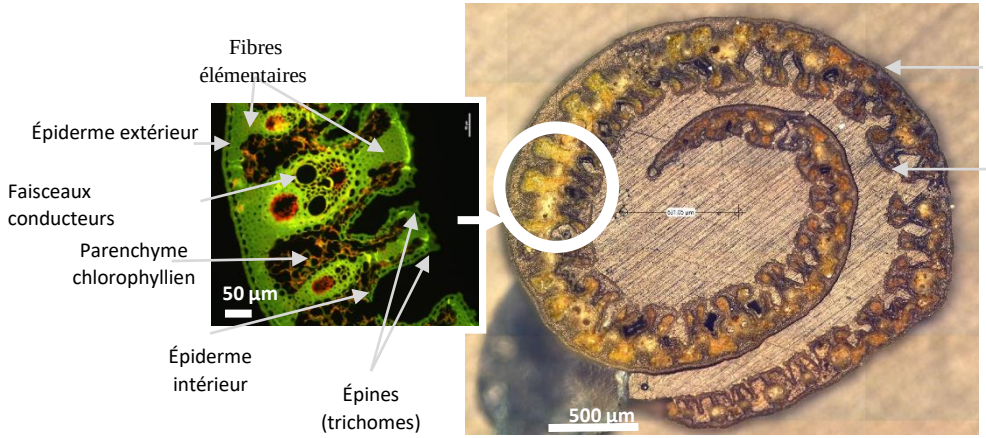

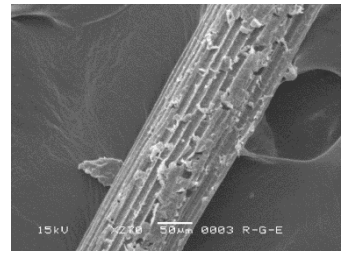

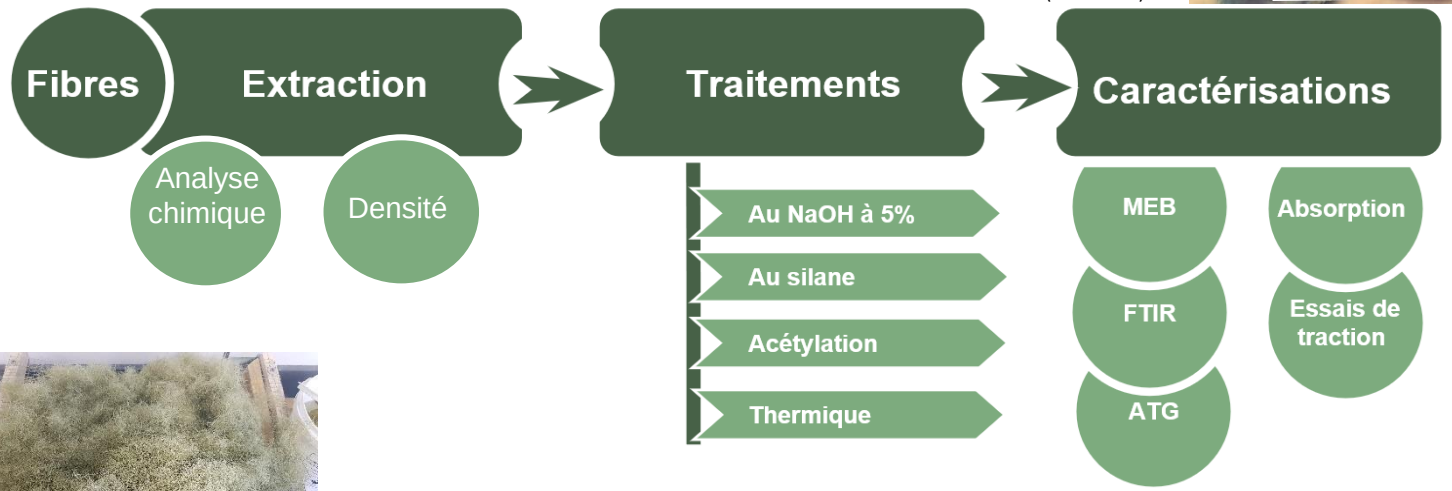

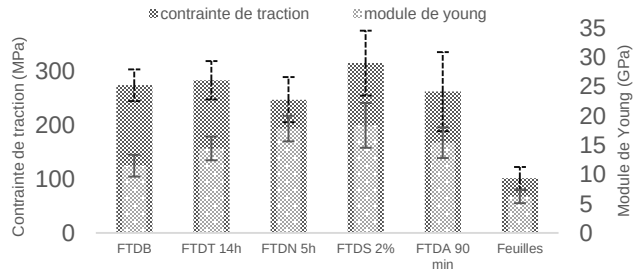

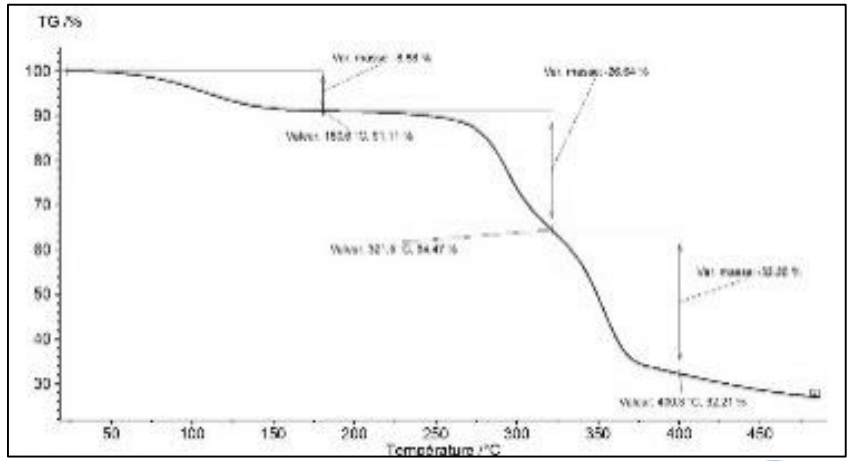

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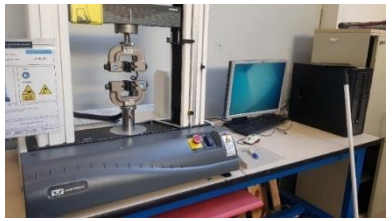
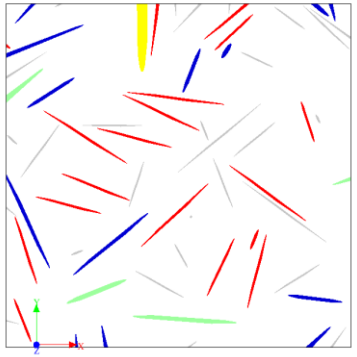
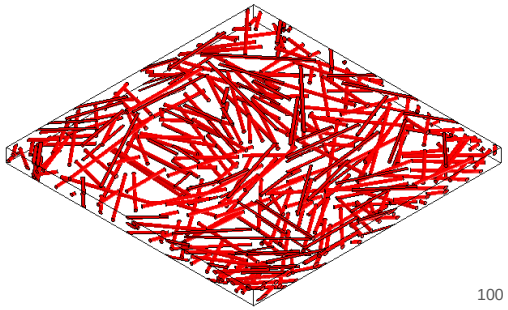
Composite (Diss/Polypropylène)



Caractérisation mécanique

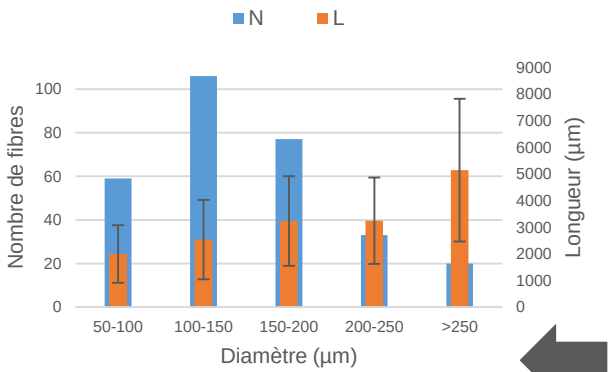


(2D)



(3D)

Modèle numérique



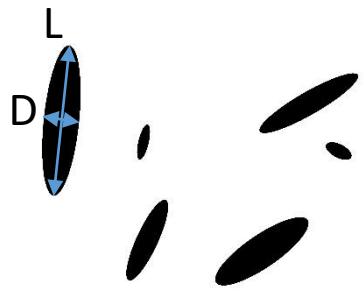
Distribution géométrique des fibres

Cliché microscopique

• Durabilité des Matériaux Biosourcés

A l'échelle de la fibre : Comportement hygrothermique des fibres de Diss

Cliché microscopique



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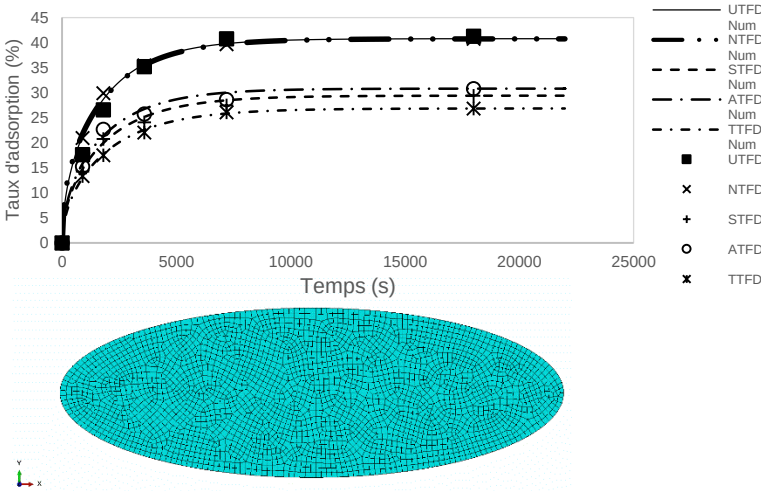
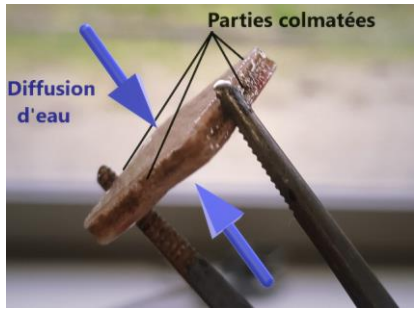
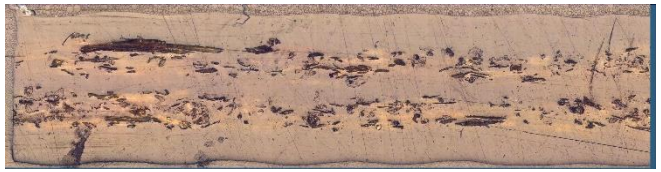


Modèle numérique et résultats expérimentaux

A l'échelle du composite : Comportement hygro-thermomécanique des composites (fibres de Diss / Polypropylène)





Cliché microscopique

Traitement d'image

Modèle numérique et résultats expérimentaux