

Engineered natural fibers for biocomposites

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Capax Biobased Development

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- Legal ID: Capax Environmental Services, Belgium
- SME, 5-10 employees
- Key research areas:
 - Biomass feedstocks (lignocellulosics)
 - E.g. enhanced natural fillers
 - Biobased materials
 - E.g. biocomposites
 - Circular design thinking



Project: Engineered natural fibers for biocomposites

- Challenges being solved:
 - Technical performance of natural fibre based composites
 - Manufacturing challenges
 - Degradation – e.g. fungal attack, staining, cracking,...
- Concept:
 - By enhancing natural fibres we improve technical and functional performance
 - Make composites 100% biobased and strive to outperform petro-based alternatives
- Targeted EU call:

Call ID	Topic	Deadline
DT-NMBP-19-2019	Advanced materials for additive manufacturing (IA)	23 January 2019



IMPACT of engineered natural fibers on composites

- Reduce environmental impact
- Reduce CO₂ emissions
- Increase recyclability
- Develop cradle2cradle strategies
- Reduce petro-based plastics
- Development of new applications



Partner search:

- Compounder
- Testing facilities
- Potential end users
- Designers





Thank you for your time!

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