

WEAVING A GREEN FUTURE UNTANGLING PLANT FIBRE DAMPING BEHAVIOUR

FANNY PELISSON PhD STUDENT AT FEMTO-ST

ANR-22-CE51-0001





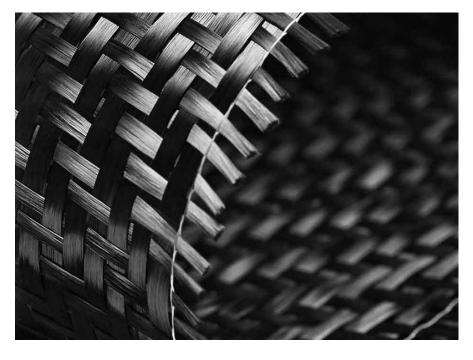


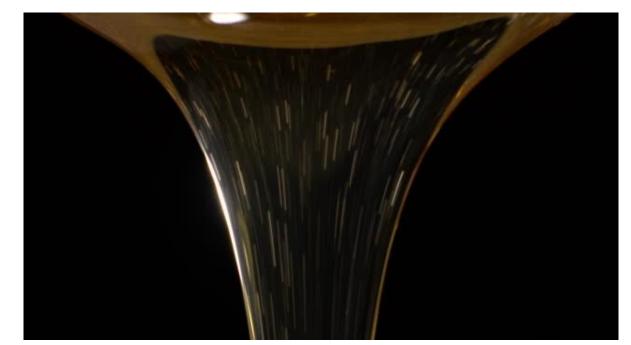




2023 33

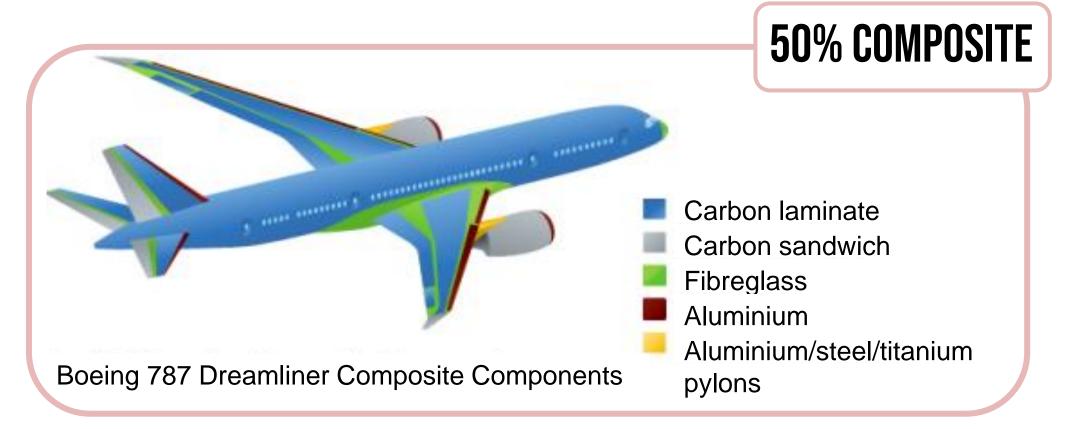
COMPOSITES: GROWING IN EVERY LAYERS





FIBRES













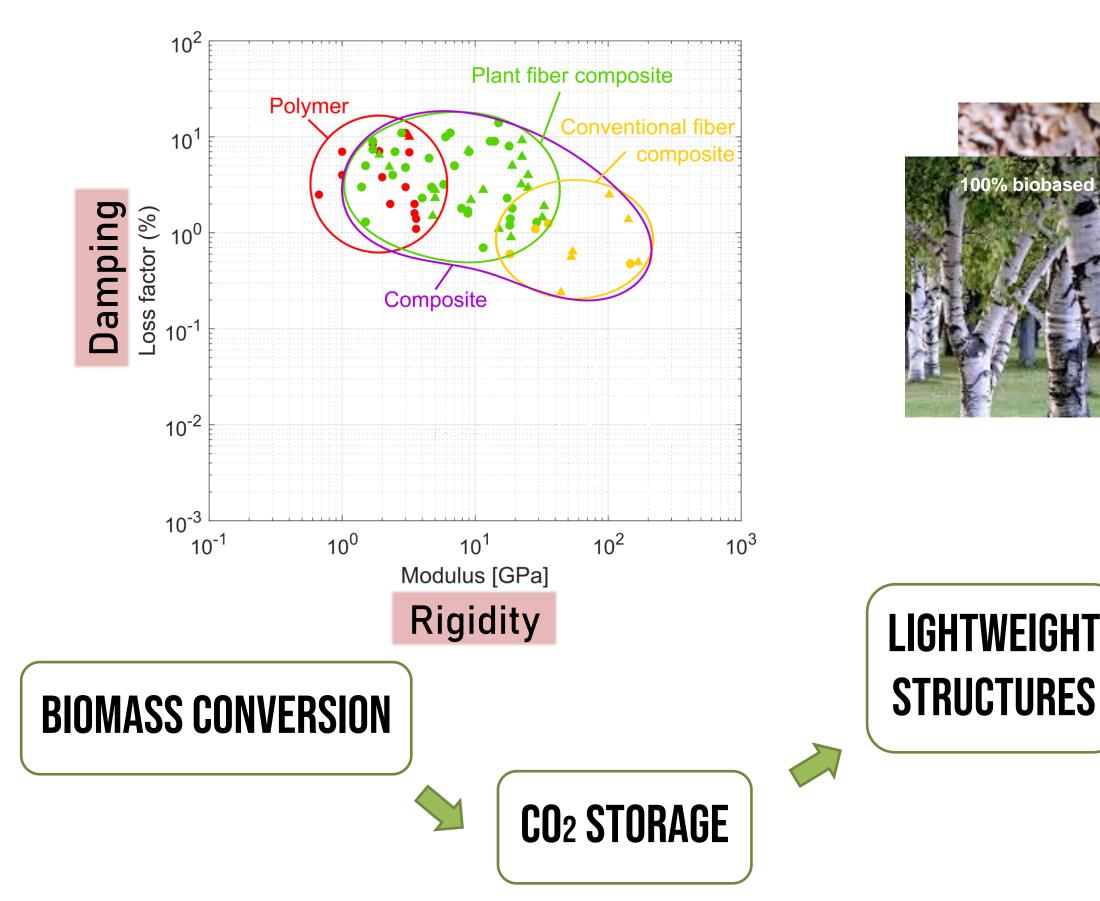


COMPOSITE

50 - 70% COMPOSITE



VIBRATION BEHAVIOUR OF COMPOSITES





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LIGHTWEIGHT

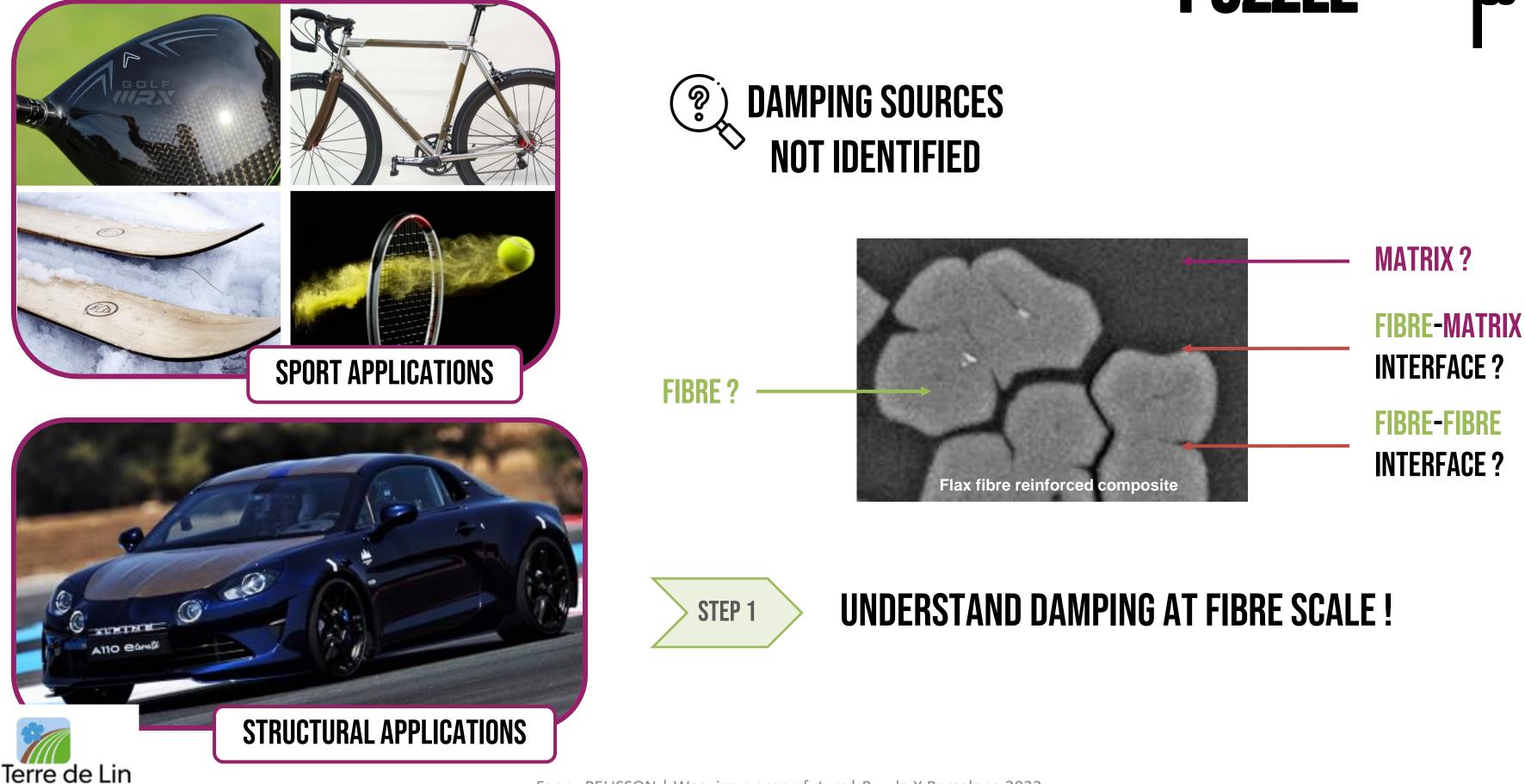






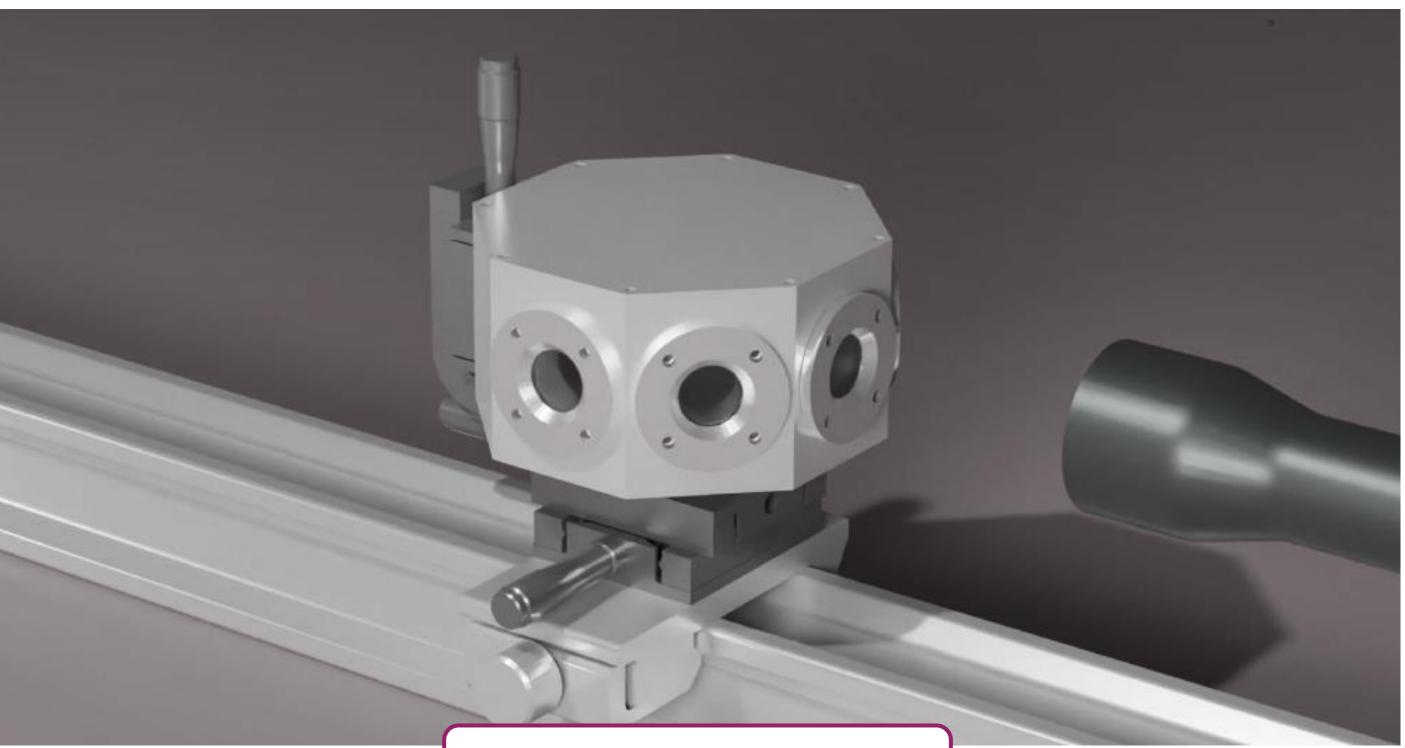


PLANT-FIBRE REINFORCED COMPOSITES





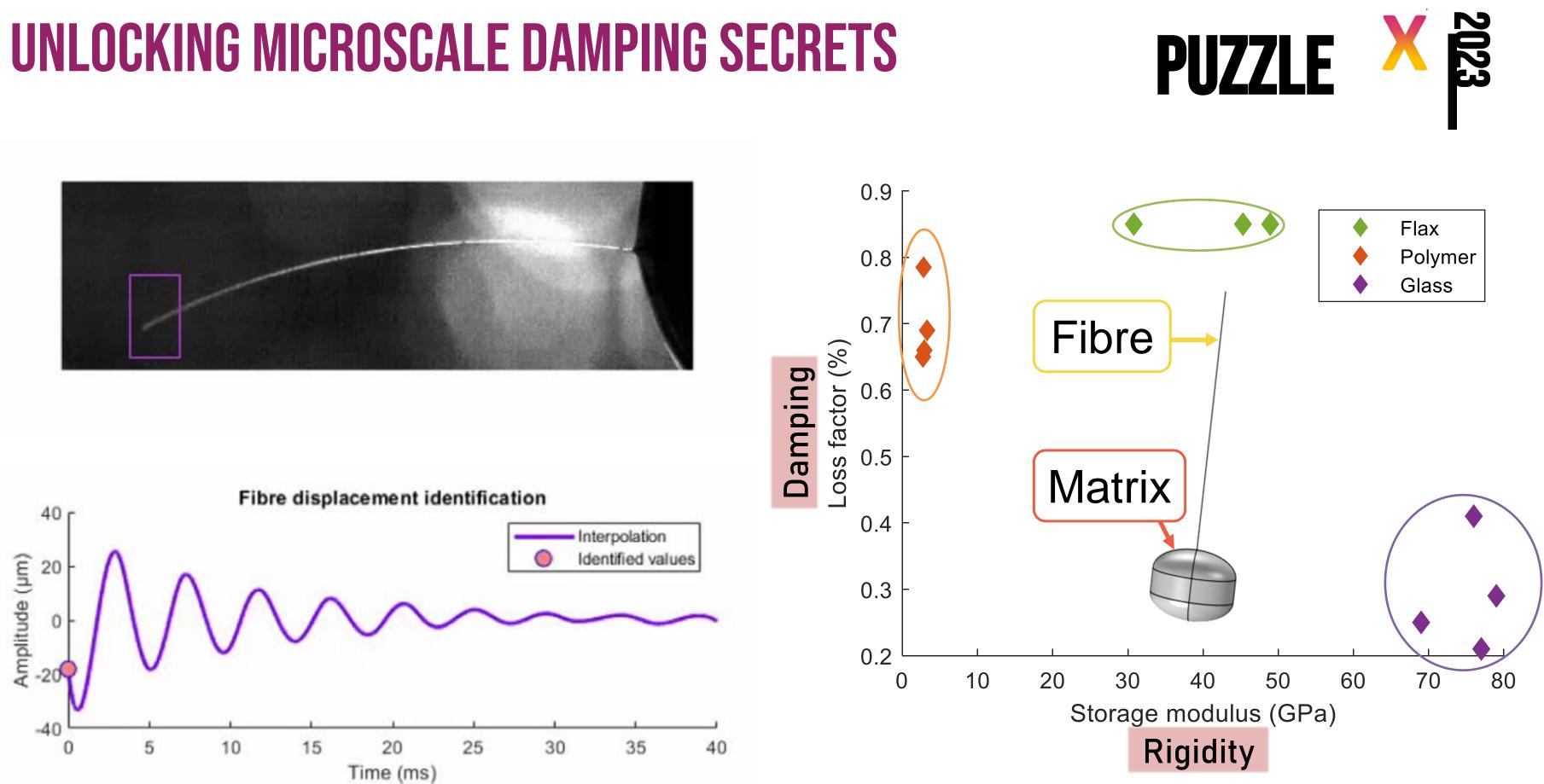
UNLOCKING MICROSCALE DAMPING SECRETS



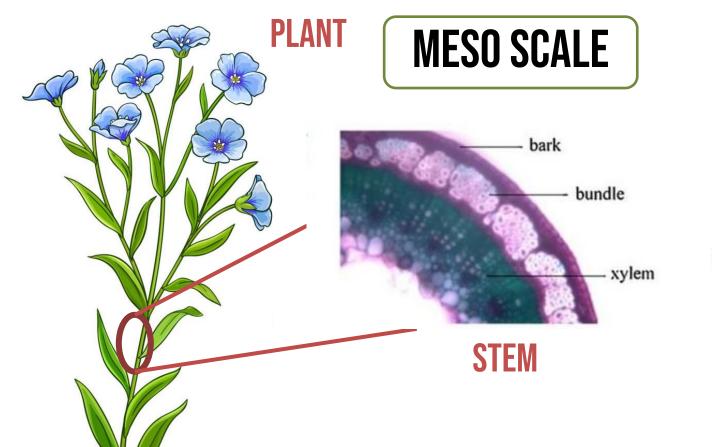
INNOVATIVE VIBRATION EXPERIMENT

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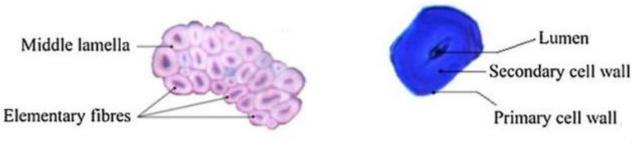




MICRO TO MACRO, TOWARDS A CARBON-FREE FUTURE



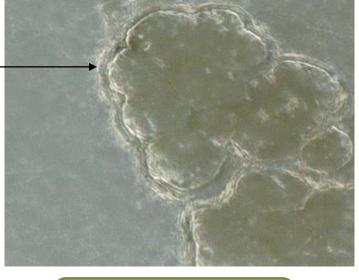




BUNDLES



INTERFACE FIBRE-MATRIX





NANOINDENTATION TEST

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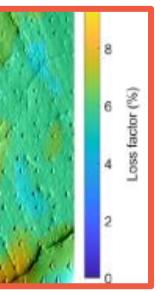


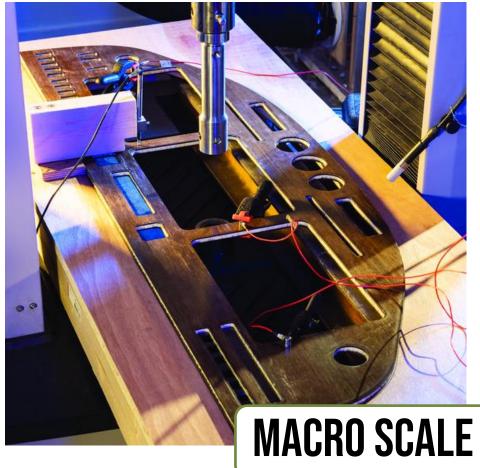


ELEMENTARY FIBRES



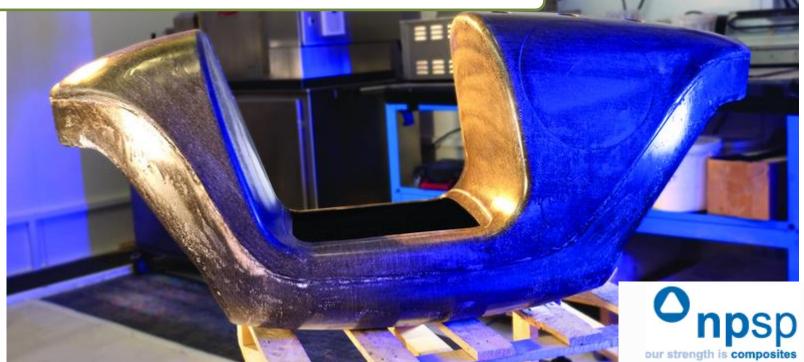
PLANE COCKPIT HEMP FIBRE REINFORCED COMPOSITE





CARBON-FREE FUTURE, APPLICATIONS FOR TOMORROW

SCOOTER FAIRING MADE OF HEMP FIBRE COMPOSITE



CAR HOOD/ROOF/INTERIOR MADE **OF FLAX FIBRE COMPOSITE**







SPEAKER FAIRING MADE OF HEMP FIBRE COMPOSITE

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CATAMARAN MADE OF 50% OF FLAX FIBRE



EXPONENTIAL FUTURES

THANK YOU

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EXPONENTIAL TECHNOLOGIES









2023