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About the challenge owner

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Archwey is the sustainable materials engineering group, dedicated to ensuring + circularity, eradicating plastic pollution, and protecting life. We are on a mission + to reshape the world's building blocks and believe that the best moment to change the way we use materials was 25 years ago. The last best moment is now. We essentially aim to rid the world of virgin plastics – full stop – this goal will be achieved through its GRS-certified plastic solution BLUEWAVE®: a thermoplastic material made from 100% upcycled ocean-bound plastic, marine plastic and + recycled post-plastic, collected predominantly from four of the most polluted rivers on earth.

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+	+	+	Challenge description + + + + + + + + + + + + + + + + + + +
+	+	+	The overall goal is to eradicate the use of virgin plastics! For this specific project + + +
+	+	+	(BLUEWAVE®) plastics which eventually would translate to a well-designed and + + +
+	+	+	thought through circular value-chain based on ocean bound plastics. In other + + +
+	+	+	words, identifying every aspect within the process of a circular value chain. + + + + + + + + + + + + + + + + + + +
+	+	+	This means students would on the one hand be working on aspects such as + + + +
+	+	+	matching the material properties of the plastic to the application of the product, + +
+	+	+	for the product itself. And/or an environmental impact report to showcase the + + +
+	+	+	potential benefits the product offers compared to its competition. It essentially + + +
+	+	+	entails a lot of different aspects of designing a new innovative sustainable broduct and its surrounding value chain. The students will have the freedom and the students will have the students will have the freedom and the students will have the students will have the freedom and the students will have the students wil
+	+	+	flexibility to, with our guidance, research what is most relevant and where their $+$ $+$ $+$
+	+	+	interests lay. Students could potentially look at some of Archwey's own products
+	+	+	
+	+	+	Another direction this project could potentially take is modelling an application + + +
+	+	+	or script which filters products where ocean bound plastics could potentially be a good application for: + + + + + + + + + + + + + + + + + + +
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+	+	+	Some general things to think about are:
+	+	+	 How, do you ensure that ocean + bound-plastic can properly be + +
+	+	+	+ + utilized while continuously + + + +
+	+	+	maintaining its value by being + + circular? + + + + + + + +
+	+	+	+ -+ Which stakeholders are needed to + + + +
+	+	+	make it a success?
+	+	+	- Is there need for any certification? + -+ What is the eventual environmental+
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