

## Why Waste Waste? UBQ's technology converts household waste into a bio-based, recyclable, sustainable material

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One thing we know for sure is that where there are people, there is waste. Everything we do creates waste. And with so many of us, the amount of waste we generate is growing at an alarming rate. Two billion tons of municipal solid waste are produced annually, responsible for +8% of global GHG emissions, and this number is expected to double by 2050.

What if there was a way to put all this waste to good use?

UBQ Materials has developed an advanced conversion technology, patenting bio-based raw material made of residual household waste. A revolutionary way to divert waste from landfills and transform it into an effective, climate-positive substitute for wood, concrete, and durable plastics.

During this process, the organic trash that comprises 70-80% of UBQ's feedstock is broken down to its particulate constructs - lignin, cellulose, fibers, and sugars - and then reassembled and bound together into a matrix. The mixed plastics that constitute the remaining 20-30% melt and bond into the matrix to create a novel composite thermoplastic material, defined by Quantis as 'the most climate-positive thermoplastic material currently on the market'.

The name UBQ stands for ubiquitous. The problem of waste is ubiquitous and the solutions therefore need to be as well. Through robust partnerships and hundreds of development trials completed over the last several years, UBQ has been proven fit for use in the production of durable plastic products, spanning everything from trash cans to shopping carts, retail hangers, shipping pallets, pipes, car parts and even bricks.

We believe a future exists in which linear consumption models are replaced with circular economy, landfills are considered obsolete, and waste is no longer wasted.