

CONCEPT Mockups utilizing upcycled materials refer to the use of waste or discarded materials to create a model or prototype of a product. Rapid prototyping involves quickly creating and testing prototypes to evaluate its design, functionality, and user experience. By using upcycled materials, designers and engineers can create prototypes rapidly and cost-effectively, identify design flaws, while also reducing waste and environmental impact.

BACKGROUND

The history of mockups utilizing upcycled materials is relatively recent but has gained significant attention in recent years due to the increasing focus on sustainable and environmentally friendly product development. As digital design tools and 3D printing became more accessible and affordable, rapid prototyping has become more prevalent in product development. By combining upcycling with rapid prototyping, designers and engineers can create prototypes quickly and cost-effectively while also promoting sustainability. This approach has the potential to revolutionize product development by reducing waste and environmental impact while accelerating innovation.

REAL WORLD CONNECTIONS

One example of mockups utilizing upcycled materials is the use of discarded plastic bottles to create prototypes of products such as furniture or home decor. In Indonesia, a group of designers created a line of furniture made entirely from upcycled plastic bottles. They used a rapid prototyping approach to create 3D models of the furniture designs, and then used the models to guide the creation of physical mockups made from the plastic bottles. This allowed them to quickly iterate and refine their designs, while also reducing waste by repurposing the plastic bottles. The resulting furniture line not only has a unique and innovative look, but it also promotes sustainability.

