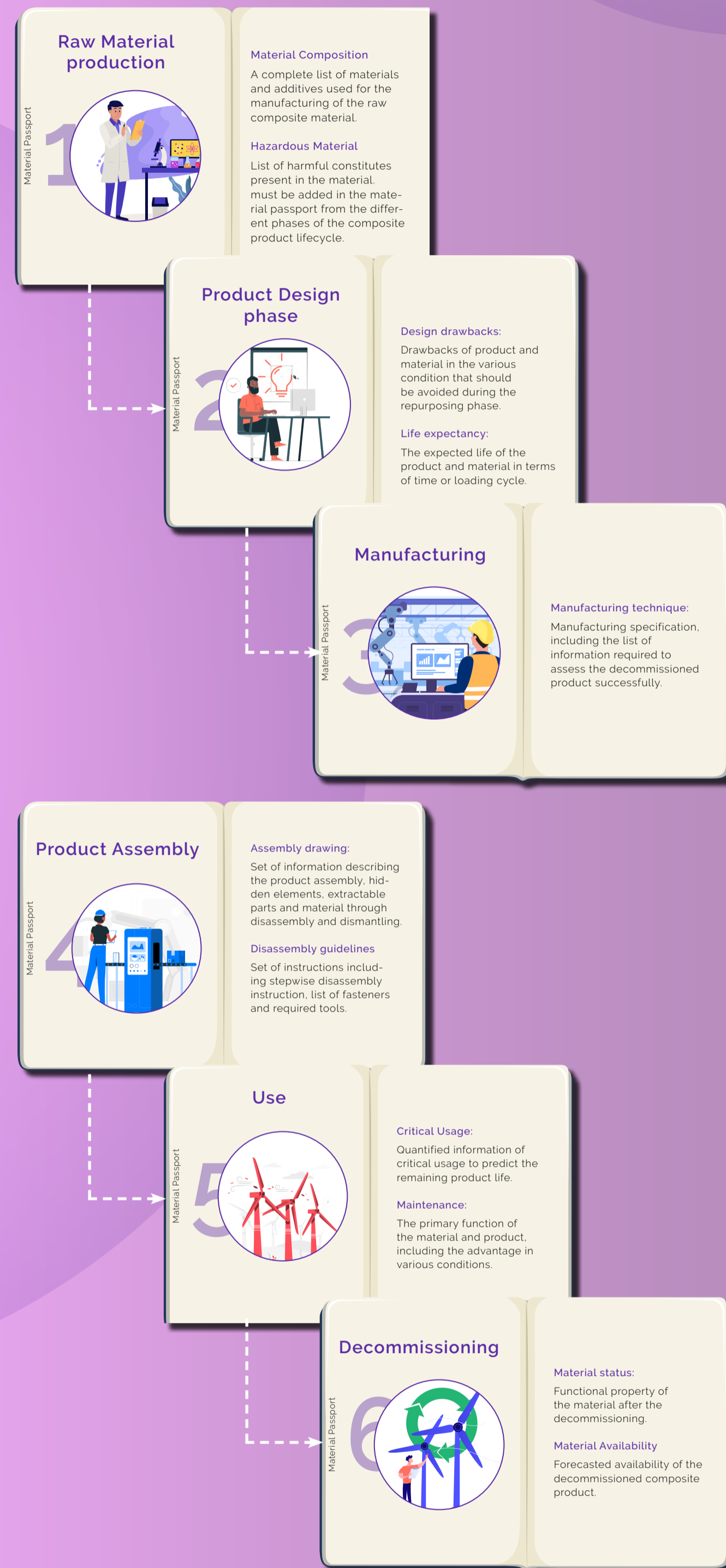


Material passport

Prerequisite information from the initial life



Design for Repurposing A Composite Product

Guiding the industrial designer to repurpose composite products

Life is still beautiful after retirement.

Composite material has a longer life than its products. The constant development of products, composite material premature decommissioning, where composite material still can serve an additional life. The project aims to utilise this lost value through repurposing.

Formulating the guideline with the experience

During the project, the aircraft galley, made from GF Nomex honeycomb, was dismantled repurposed into a bicycle cart to develop the PLM framework and guidelines for repurposing.

Getting on-board with the co-creation session

The final guidelines are the result of evaluation from the co-creation session involving industrial designers and several stakeholders from the composite industry.

Best is definitely out of this waste !!

Using the decommissioned composite material, which has a negative value at the end of the lifecycle, the existing products can take advantage of this material to extend the material life without using the new resources.

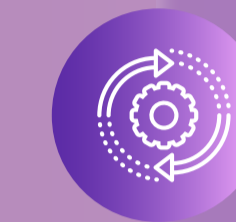


Repurposing guidelines

Set of information to scale up the repurposing.



Develop: Prepare the product



Transition: Prepare for Repurposing.

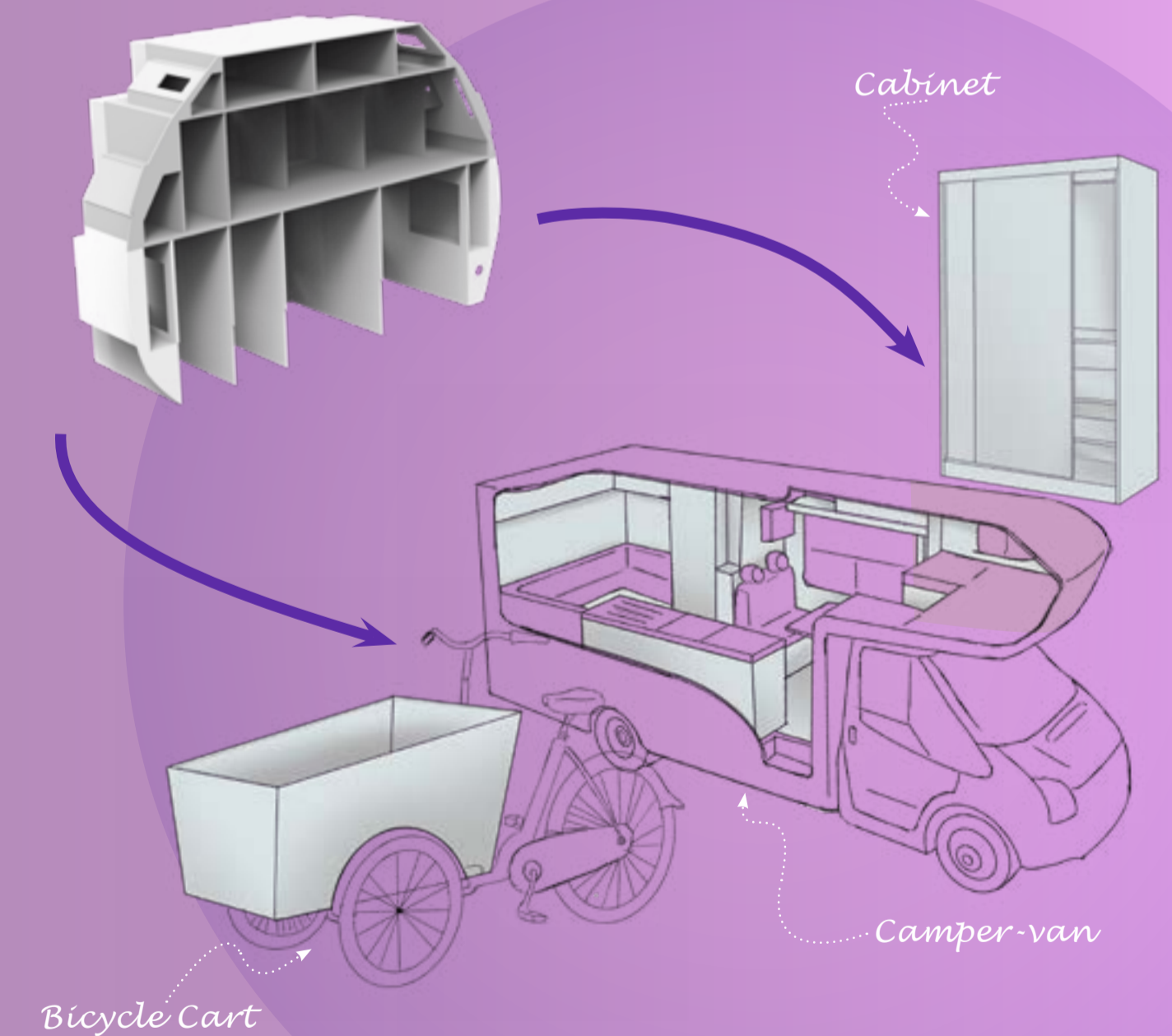


Repurpose: Choose the right repurposing application.



System: A Holistic Approach towards circularity

Aircraft Galley



Parshva Mehta
Design for Repurposing of Composite Products
23-07-2021
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