

## SUSTAINABILITY CHECK

### Design considerations

Does it need to be made?  
Could it be a service instead?  
Can it be designed to be zero waste?  
Are the technical and biological components separate or easy to separate?  
What are the core functionalities, and can these be provided in a different way?  
Can the physical form help to promote behaviour change by the customer?

### Material extraction or recapture considerations

What materials are going into it?  
Does it have to be new materials or can recycled be used?  
What else could it be made of?  
Is there a plan for recapture of this resources?  
Are the biological and/or technical nutrients easily separated to not contaminate the flows?  
How can materials be infinitely recycled or instantly biodegraded?  
How can you ensure materials and the right fit for the technical requirements?

### Manufacture considerations

Who is making it and how are you maintaining ethical working conditions?  
Is it made for remanufacturing or reuse?  
What can be done with factory rejections and manufacturing waste?  
Can it be recaptured and recycled with ease?  
Are the components easy to separate and identify?  
How durable does it need to be?  
Can it be recycled and repaired easily?  
If it is recyclable, is there a market for the material?

### Packaging + transport considerations

Can it be lighter? Recycled? Universal?  
Can the packaging add value beyond product protection and marketing?  
What is being communicated on the packaging and how can this make change?  
Can it be made more closely to the customer?  
Can it be picked up or bulk packed?  
Does it even need to be packaged at all?  
What is the best practice transportation?

### Use considerations

Can it be shared, leased. Borrowed or rented?  
What else can it be used for? How many times? 2nd, 3rd life designs?  
What else can the components be used for?  
Is it easy to put back into the system?  
Can it be repaired?  
How can it activate the customer to behave differently?  
What are the alternative use cases for the functional unit delivery?

### Recapture considerations

What system can it be digested back into?  
Technical or biological and how?  
What are existing facilities that will be easily available?  
How can it be repaired and resold?  
How can it be remanufactured, and where?  
Impact of distance?  
How much can be recovered?  
What is the contamination tolerance?  
What is the market value of the recaptured material?