CASE STUDY • SUSTAINABILITY

Sustainable Packaging Design

By Jigna Shah Oza 🔹 18 Sep, 2019

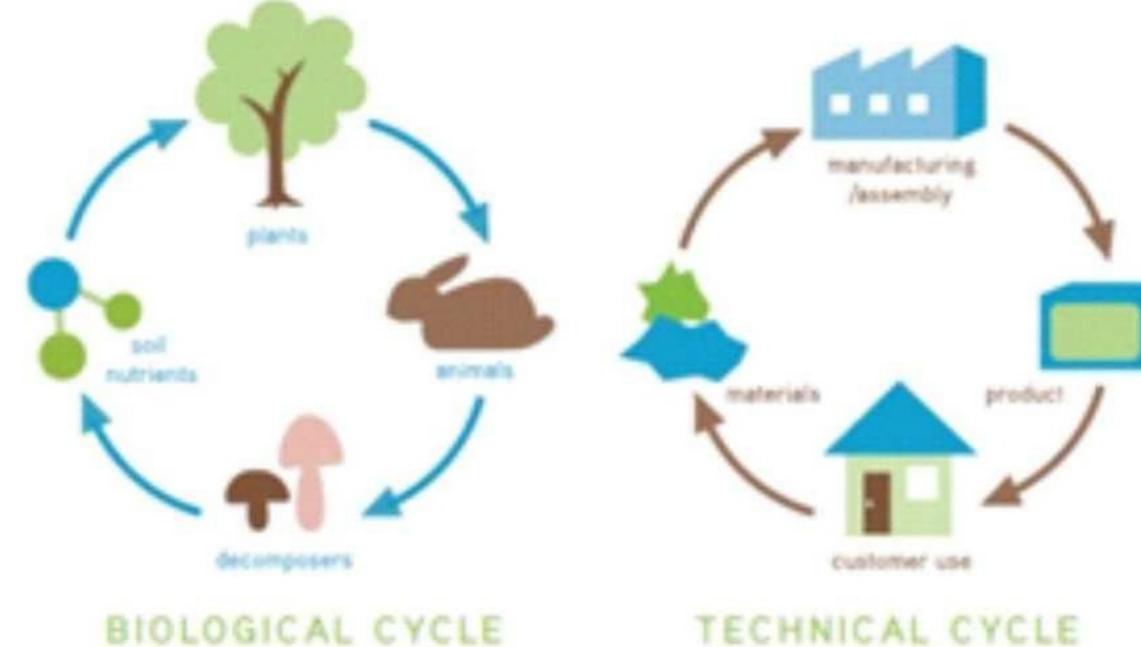
SIGN IN

Designers have shaped economic value in the world, but NOW is the need to add the Ecology Value. The reduce, reuse, and recycle mantra is not new but with increasing damage done by plastic harming the environment, it raises a red flag to think harder for GREEN solutions which heads towards becoming todays design trends.

Loads of companies are now pledging to use 100% reusable, recyclable or compostable packaging by 2025. Environmentally friendly design challenges the designer to come up with innovative solutions which probably existed before the plastic era. It helps both the producer and the consumer reduce their environmental impact. Designers have a responsibility of not only good looking but very importantly functionally good designs too. It's a clever way to increase the value of any product and the overall customer experience. By incorporating alternative uses into packaging designs, whether related to the product or not, brands can improve product interaction so that the experience is naturalistic and unobtrusive.

From a designer's perspective, a sustainable packaging design is something which exists constantly. It's not necessarily end state but a continuing process of improvement.

Making GREEN a reality begins with small steps. An entire system change can only happen when wide networks of people are conscious and make informed decisions. Designers are definitely interested in moving towards a fully sustainable future. It's time for designs that are creative, abundant, prosperous, and intelligent from the start. Like the earth's nutrient cycles, the flow of materials eliminate the concept of waste. (cradle-to-cradle rather than cradle-to-grave.) Materials used are conceived as nutrients (that can be safely returned to soil through a degradation process) and designed to circulate safely and productively.



## Case Study:

San Francisco Airport (SFO) is going to be the FIRST triple zero airport in the world!

San Francisco Airport (SFO) initiated the concept of ZERO WASTE by 2021, and well on their access to accomplishing their goals. SFO has undoubtedly done their preparation, and after analyzing the data, they are now advancing genuine solutions. It involves bottled water that is made out of 100% recyclable/reusable packaging material such as aluminium and glass, which are part of a closed-loop recycling system and also leaching free material. Aluminium and glass have so many advantages over plastic in terms of quality rather than recycling.

So, PATHWATER thinks concerning the people and environmental health, which not only provides travellers with purified water in an aluminium bottle but also promotes sustainability efforts to a whole new level. The company giving a water bottle that is genuinely affordable, durable, and REUSABLE - an experience no other bottled water has focused on.



### Sustainability often goes hand in hand with cost reductions if it is implemented at the design stage to reduce packaging size and material use.

key

design

So how does one go about it?

Keep working to reduce packaging material within the limits allowed by its purpose. And if, as with some

initiatives, you start a new product line with reduced packaging and therefore reduced product shelf-life, loudly communicate it to customers and continue to help them understand the reasoning behind the changes to make sure that the net benefits outweigh the drawbacks. Life cycle thinking, as always, helps. As mentioned, achieving a sustainable packaging goal is a challenging and a complex process. In order to

reach this goal, tools and procedures should be considered to ensure that the production process is moving forward to achieve this goal. The following is a thought process that can be worked upon to arrive at a solution to a given product packaging

objective	question	of strategies
technical performance	does the package protect the product?	balance need with over-engineering consider the whole packaging system design for probable scenarios not worst car research new technologies
\$ cost	is the design cost- effective?	align cost with target market use materials & energy efficiently amortize cost over life cycle
appearance	does the design communicate effectively?	rethink assumptions design for communication weigh consquences
regulatory compliance	does the design meet or exceed regulations?	design to meet applicable regulations comply with any labeling requirements anticipate regulatory changes
optimize resources	does the design optimize materials and energy?	practice source reduction use recycled content design for transport
responsible sourcing	has the material been produced and delivered responsibly?	design with environmental best practice design with fair labor and trade practices design with virgin renewable materials for sustainably managed sources
material health	are all materials healthy for people and the environment?	know the chemistry of the materials in your package know the potential health and environmental impacts over the life cycle of the package.
resource recovery	where will the materials go after use?	design for reuse design for recycling design for composting
Sustainable Pa	ckaging in I	ndia

examples

## could contribute to realising this dream and taking a global lead. While designers shall work hard with this objective, there is a need for a complete eco-system. Materials, suppliers, manufacturers, applicators, economics, etc have all to go hand-in-hand to create an eco-system that makes it viable for product

companies to quickly switch to sustainable packaging. There is a demand among a small but growing segment of environmentally-conscious consumers. As a result, the market has more options of paper, jute, cloth and even plant-based packaging. In June, Pepsico India announced that the packaging for its snack products, Lays and Kurkure, will be made from 100% compostable, plant-based material before the end of this year. Coca-Cola, meanwhile, is focusing on recycling.

Our government and honourable Prime Minister have taken a thought lead in this area and we as designers

There are new age entrepreneurs who are taking this up as an opportunity to ride on the wave. From bags to cutlery to packaging, alternatives are being generated, albeit at lower volumes and obviously higher costs. There is a lot of action on the ground, still at the nascent stage that will take time and support from the government for it to become a full thriving industry. India and China being large markets with a very aware middle class consuming audience and a government

that is banning plastics in state after state, shall make them world leaders in consumption of sustainable packaging. Also, if the industry quickly warms up to this, we could also be world leaders in supplying to the world. In Sum

Sustainable packaging doesn't have to be an expensive or inefficient option for your business. As this

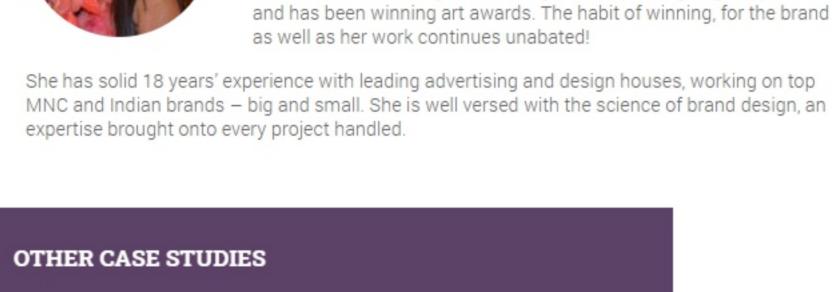
## increasingly becomes an expectation on behalf of consumers, you can not only do your part for the planet but create a key selling point for your brand. As a sector which is only going to grow in the coming years, more exciting innovations await!

Sustainable packaging is an ongoing process and requires frequent evaluation and development in order to utilize new methods and tools for better output. While the tools we have so far are still developing, they can help designers to ensure better understanding to the package design process and if it meets with an adopted sustainable strategy. It's a journey. But a very exciting one! There will be challenges but so is every design job. Are we ready? No.

Let's not forget, it's our implicit duty to give our next generation an earth that's sustainable for them to enjoy! Resources https://www.noissue.co/blog/the-top-3-packaging-trends-for-2019

https://packhelp.com/sustainable-packaging/ https://www.trendhunter.com/slideshow/functional-packaging https://blog.matthews.com.au/4-essential-factors-consider-product-packaging/ https://greenblue.org > work > sustainable-packaging-coalition

as well as her work continues unabated!



INNOVATIVE

SOLUTIONS

ABOUT THE AUTHOR

Jigna Shah Oza

But so is no one else! So let's take this as an opportunity for our country to lead.

Jigna is an Indian graphic designer, art educator and award winning professional. Educated at Mumbai's premier design college, Sophia's, she also teaches design at ISDI. Jigna started designing early in life and has been winning art awards. The habit of winning, for the brand

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Seven Packaging Design Trends

To Look Forward To In 2020

Sustainability Sustainability has been a prime

trend in 2019 and the coming year will not be

different. One of the main aspects this trend will

focus on will be companies making packaging ...

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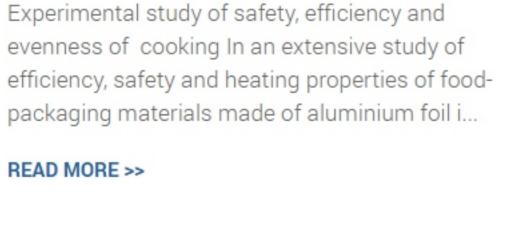
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Before

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After

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