design thinking & innovation

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Publisher / Editor-in-Chief Idris Mootee Managing Editor Esther Rogers Editor Caroline Leung Special Feature Editor

Editor
Carolina Leung
Special Feature Editor
Robert Botton, Will Novosedlik
Art Director / Design
Sali Tabacchi, Nico.
Special Feature Design
Niklé Shih
Niklé Shih
James Alai
Marina Andreazi
Koly Bell
Dir. Hyen Brotman
Cheeren Cheere

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DESIGN

In their new book The Upcycle, authors Michael Braungart and William McDonough (of the influential Cradle to Cradle: Remaking the Way We Make Things) suggest: "Human beings don't have a pollution problem; they have a design problem. If humans were to devise products, tools, furniture, homes, factories, and cities more intelligently from the start, they wouldn't even need to think in terms of waste, or contamination, or scarcity. Good design would allow for abundance, endless reuse, and pleasure.

Design-related decisions are happening every-where on a daily basis, impacting "sustainable development" or provisioning for the needs of future generations of life on earth. Sustainability future generations of life on earth. Sustainability and design are intimately linked, Quite simply, our future is designed. The term "design" is here used to refer to practices applied to the making of products, services, as well as business and innovation strategy – all of which inform sustainability. How can design support more sustainability. How can design support more sustainability.

susamabethy. How can design support more sustainable development?

Sustainability can be thought of as the property of continuance; that is, what is sustainable can be continued into the future. Sustainability is commonly considered in relation to three linked components: The economy, society, and the environment. For sustainable development, it is imperative that we think about value in not solely economic or financial terms, but also in relation to natural capital (the biosphere and earth's resources), social capital (the norms and networks that enable collective action), and human capital (the sum total of knowledge, experience, intellectual property, and labor available to

society). The purely economic capital so many as inhabitants of the earth, think about value.

Michael Porter and Mark R. Kramer talk about

Michael Porter and Mark R. Kramer talk about creating shared value, referring to business models that integrate societal improvements into economic value creation. For example, Nestlé worked closely with the farmers of the Moga Milko Ibictic in India, investing in local infrastructure and transferring world-class technology to build a competitive milki supply chain that simultaneously generated social benefits through improved healthcare, better education, and economic development. This value reset requires a paradigm shift, requiring systemic level transformation collectively enacted by governments, business, and everyday citizens alike.

Economic profitability is a powerful motiv-

enacted by governments, ousness, and every-day citizens allies is a powerful motiv-ation for change, and lucky for the planet, sustainability can be profitable. A 2013 report from MIT Sloar Management Review and the Boston Consulting Group report the number of firms that profiled from sustainability initiatives climbed to 37%, up 23% from the previous year, demonstrating that transforming business models is likely to lead to increased profils. Sustainability is finally getting on the radar of the C-suite beyond their CSR strategies and a growing number of companies today are moving from the design and creation of "things" to the design and delivery of "services." The service sector has become the major contributor of the worldwide economy, accounting for

service sector has become the major continution of the worldwide economy, accounting for 73% of the UK's GDP, 70.5% of GDP in Europe, and 64% of GDP worldwide. This shift to a service economy supports sustainable development, as services generally rely on less natural capital and more human capital than



THE THREE COMPONENTS OF SUSTAINABILITY



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products. With services, value is fundamentally derived and determined in use rather than through ownership, resulting in less stuff and usage of fewer resources. Pay per use type business models such as Zipcar and Airbnb are rising, supporting the sharing economy. Service innovation supports sustainable Service innovation supports sustainable development as it helps firms to think about creating value rather than creating products, leading to the establishment of new business models and more sustainable offerings.

The circular economy is a fairly new economic framework that supports sustainable offerings.

merclucial ecolonity is a rainy new recomming framework that supports australiaaction of the proper and the support australia and expensive property and the 4) systems thinking with its ability to under-stand how things influence one another within a whole. Systems thinking (and the circular economy) view problems as parts of an overall system. The circular economy privileges indirect causality, context, and relationships between components, and focuses on the cyclical rather than linear cause and effect. It brings a profitable economic model with a

radical value reset. Informed by cradle-to-cradle and systems thinking, the circular economy suggests that what you take you must put back. It seeks to rebuild capital, whether financial, manufactured, human, social, or natural. In a circular economy, the materials that sit within the

global economy that currently flow off the end of the conveyer belt can go back in; for example, designing a car for remanufacture, disassembly, and for de-componentization. Within this model, designing long-lasting goods to be restorative will keep products and components in use for longer, whilst ensuring that biological materials can re-enter the biosphere at the end of their life, safeguarding soil productify. Ultimately, the circular economy could decouple economic growth from resource consumption. From different financing of those products and materials to different business models, this approach brings different business models, this approach brings

different business models, this approach brings a valuable economic framework that is compatible with sustainable design for our future. The service economy, the notion of shared value, and the circular economy all resonate with design thinking, being human-centered, aspirational, visual, and collaborative. Firstly, design thinking can facilitate a rethinking of the value chain. Being human-centered and nisight-driven, design thinking can help firms to think about customer value and reimagine the value chain with empathy. Organizations can now create through multiple perspectives, urge supporting firms and governments to consider shared value, and identify opportunities and shared value, and identify opportunities and shared value, and identify opportunities and collaborations between diverse global stake-holders. Beyond the traditional product life cycle, in what other ways could offerings and business models manifest and evolve? Design for service, prioritize shared value, and further the circular economy: These are only a few ways in which designers can be part of the sustainable solution, rather than continue to contribute to the problem. ////

Jax Wechsler is a numan-centered de practitioner at Sticky Design Studio, ar also teaches UX and design. She is ba Sydney, Australia.