

Architecting the Regenerative Enterprise

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**Enterprise Architecture
Specialist Group**

5th Annual Conference
Thursday 29th September 2022
London, UK

#BCS
#BCSEASG
#EASGAC2022

Agenda - Three Points

1. What Does Sustainability Mean to You?
2. Towards Regenerative Industry Architectures
3. What Are You Going To Do Next?

What does Sustainability Mean to You?

CSR - Corporate Social Responsibility

CSR

['sē, 'es, 'är]

A self-regulating business model that helps a company stay socially accountable to itself, its shareholders, and the public



The 17 Sustainable Development Goals

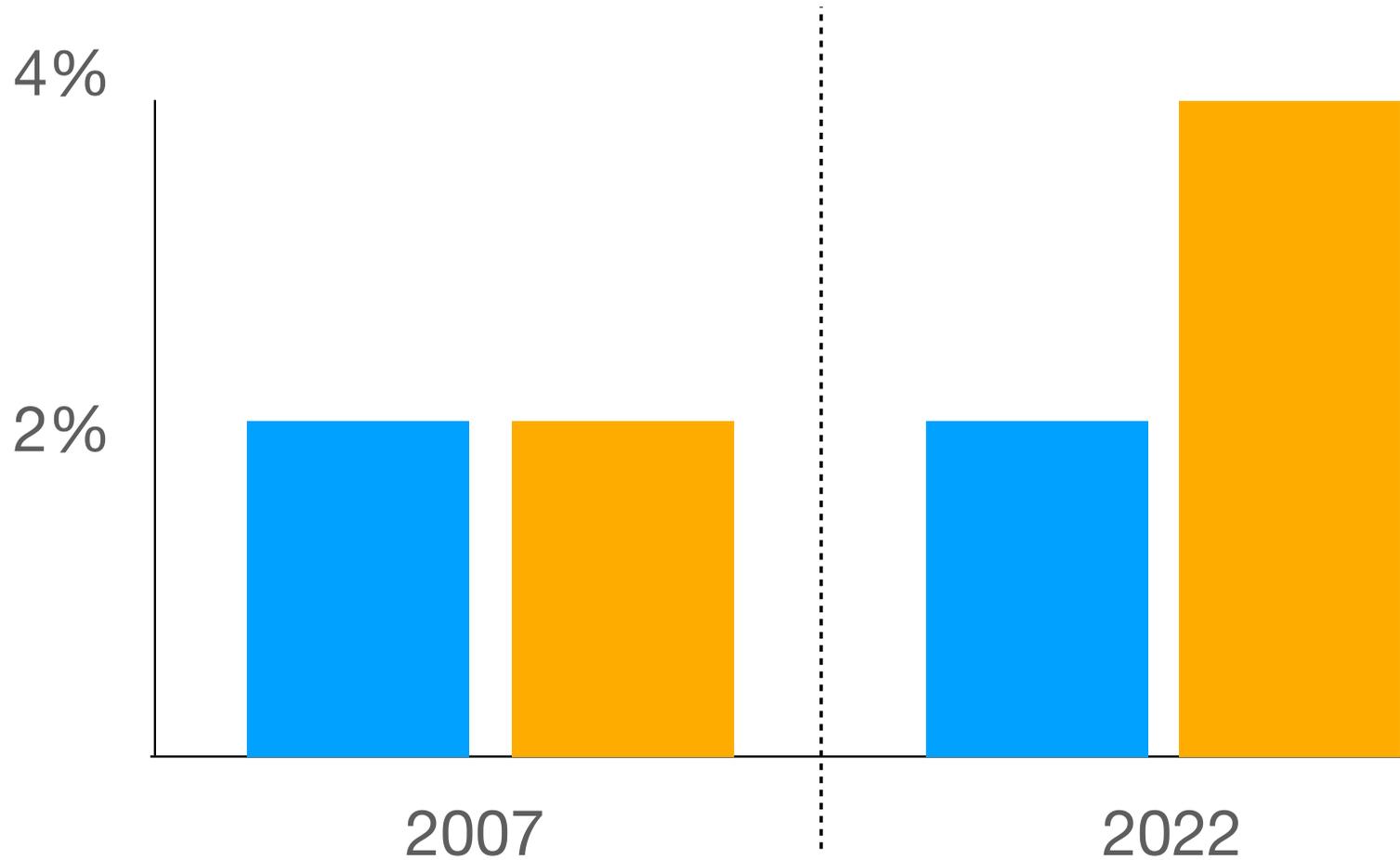


SCOPE 1, 2 & 3 Emissions



Scheme 1,2,3 scope emissions Credit: Plan A based on GHG protocol

The Global ICT Industry now has up to 2x of the Carbon Footprint of the Global Aviation Industry



The Rise of ESG Reporting



ESG reporting and preparation of a Sustainability Report

Report on Responsible Business Conduct / Sustainability Report

Boards can lead the way on ESG. We share the why, what, and how of effectively overseeing ESG.

The Rise of ESG Reporting

ESG

**Environmental
(Planet)**

**Social
(People)**

**Governance
(Practices)**

ESG - A Question of Benefits

Harvard Business Review | Sustainable Business Practices | Yes, Investing in ESG Pays Off

Sustainable Business Practices

Yes, Investing in ESG Pays Off

by Paul Polman and Andrew Winston

April 13, 2022



It's easier (and frankly lazier) to think in old ways. We can fight these issues and make sustainability fit into a normal model of seeking a good return on investment. But let's step back a moment. Why exactly do we have to stick with traditional terms? It's increasingly absurd and surreal to have to justify investing in our very survival — or have to prove that we should stop funding what's killing us. At the macro level we've long passed the point where the cost of action is far lower than the cost of inaction — i.e., huge swaths of the planet becoming uninhabitable, which, again, is kind of bad for business. It definitely pays to invest in our shared future.

Harvard Business Review | Investment Management | An Inconvenient Truth About ESG Investing

Investment Management

An Inconvenient Truth About ESG Investing

by Sanjai Bhagat

March 31, 2022



As of December 2021, assets under management at global exchange-traded “sustainable” funds that publicly set environmental, social, and governance (ESG) investment objectives amounted to more than [\\$2.7 trillion](#); 81% were in European based funds, and 13% in U.S. based funds. In the fourth quarter of 2021 alone, \$143 billion in new capital flowed into these ESG funds.

OPINION | COMMENTARY

ESG Does Neither Much Good nor Very Well

There's little evidence that the benefits to mankind make up for lower returns on your investment.

By Terrence R. Keeley

Sept. 12, 2022 5:42 pm ET

Trillions of dollars have poured into environmental, social and governance funds in recent years. In 2021 alone, the figure grew \$8 billion a day. Bloomberg Intelligence projects more than one-third of all globally managed assets could carry explicit ESG labels by 2025, amounting to more than \$50 trillion. Yet for a financial phenomenon this pervasive, there is astonishingly little evidence of its tangible benefit. The implicit promise of ESG investing is that you can do well and do good at the same time. Investors presume they can make a market return while advancing causes such as lowering carbon emissions and income inequality. But multiple studies find ESG strategies are doing little of either.

How have investors fared? Not that





Util

We're introducing a new way to invest sustainably.
Here's how it works.

500+ B Corps

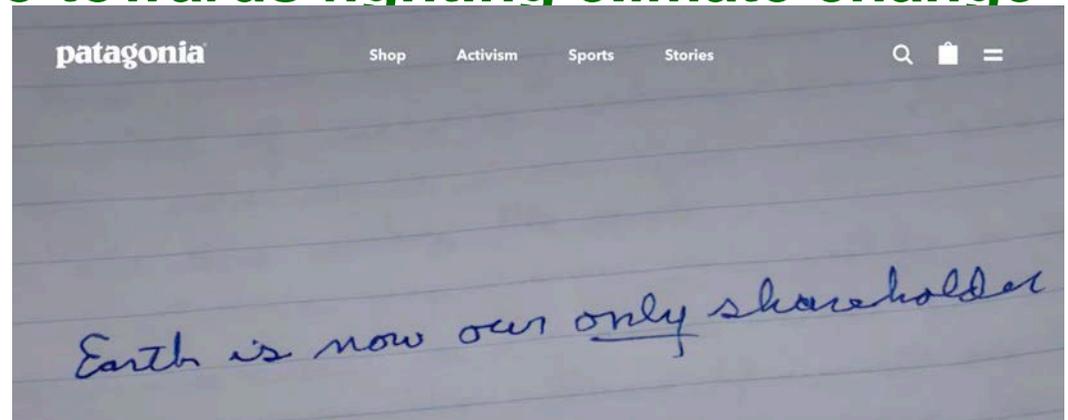
Businesses working together for a more
inclusive, **equitable**, and **regenerative** economic system.

Patagonia founder is giving away his billion dollar company and ensuring that all profits go towards fighting climate change



Brad Barket/GettyImages

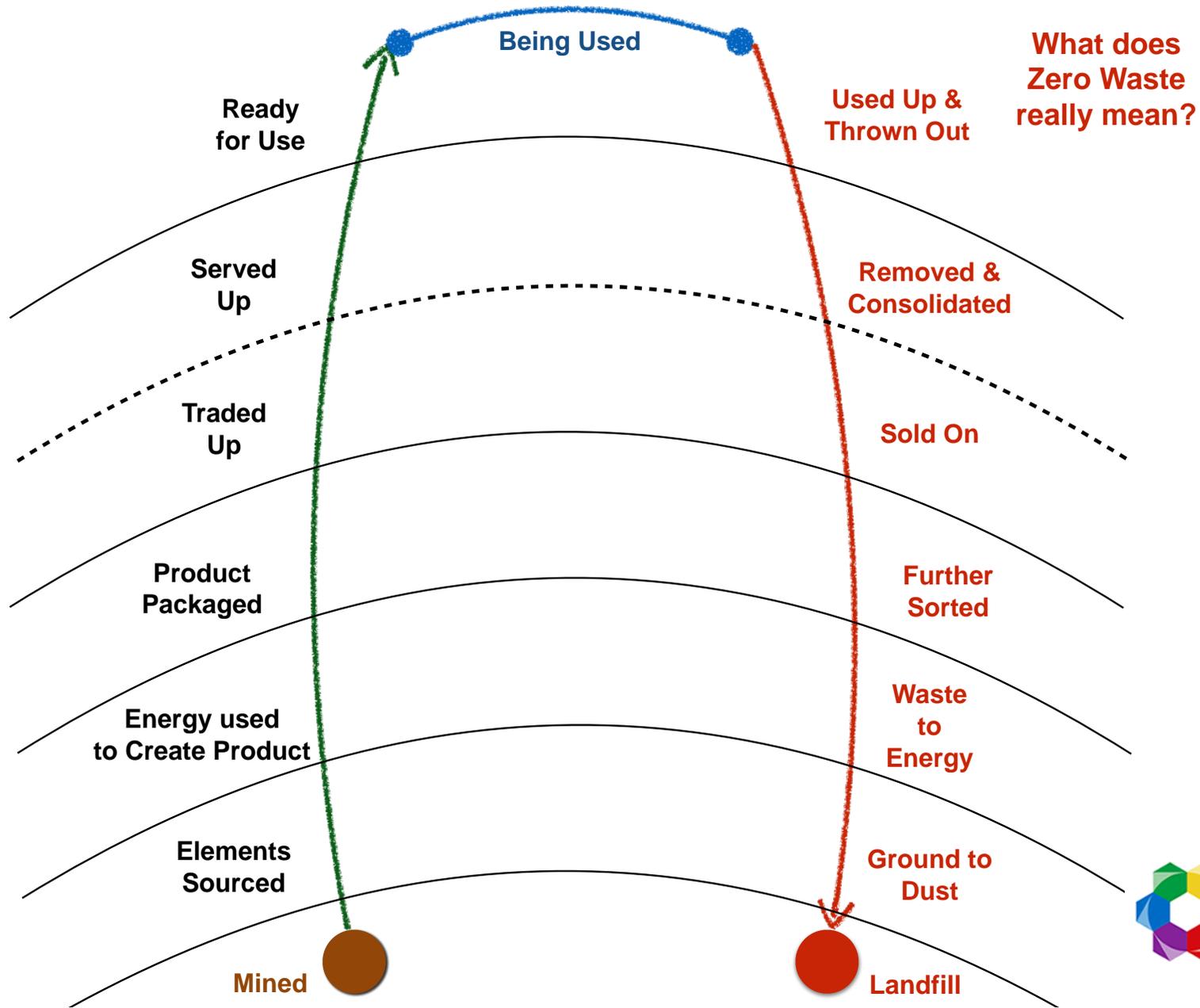
14 September 2022



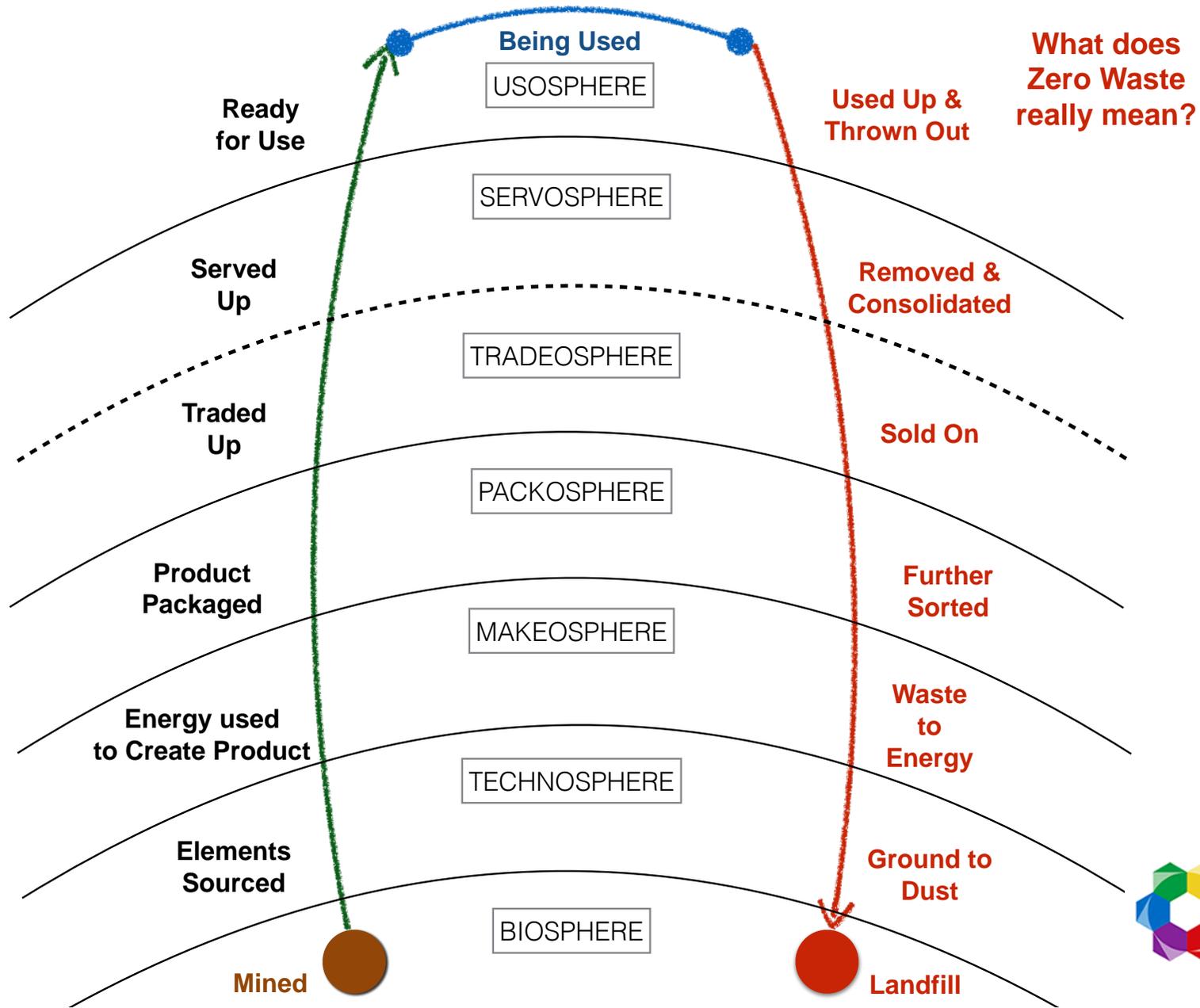
Patagonia founder [Yvon Chouinard](#), his wife and their two adult children have irrevocably transferred their ownership of the outdoor apparel company to a set of trusts and nonprofit organizations.

From now on, the corporation's profits will fund efforts to deal with climate change as well as to protect wilderness areas. It will, however, remain a privately held enterprise. According to initial reports about this unusual approach to philanthropy that ran on September 15, 2022, Patagonia is worth about \$3 billion, and its profits, which will be donated in perpetuity, could total [\\$100 million every year](#).

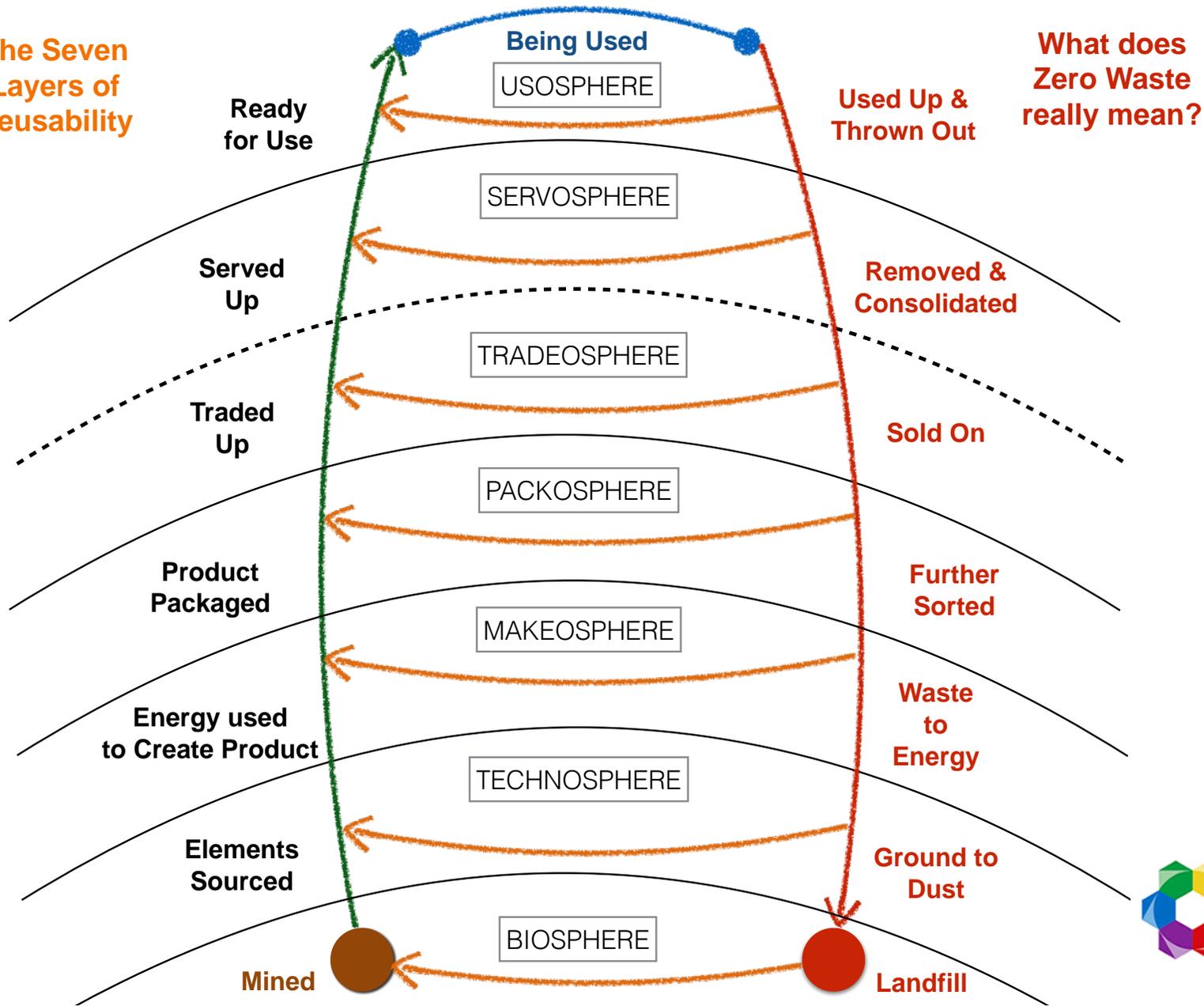
The Conversation U.S. asked Indiana University's [Ash Enrici](#) — a scholar who studies how philanthropy affects the environment — to explain why this arrangement is so significant.



What does Zero Waste really mean?



The Seven Layers of Reusability



What does Zero Waste really mean?

The Doughnut Model by Kate Raworth



BCS SFIA



SFIAplus

Tools

Help

Search

SFIAViews



SFIAplus V8

Strategy and architecture > Strategy and planning

[Back to Matrix](#) [EXPORT](#)

Sustainability (SUST)

Providing advice, assistance and leadership to enable the organisation to minimise negative environmental impact.

Skill Levels

Skill Guidance

Related Skills

Skill Resources

Components Matrix

4

5

6

[EXPORT](#)

Develops and promotes organisational strategies, policies, standards, and guidelines for sustainability. Leads the introduction and use of sustainability techniques, methodologies and tools.

Background

Work Activity

Knowledge / Skills

Training

PDAs

Qualifications

Title

Description

Optional

Code

Strategy development

Develops and promotes organisational strategy for sustainability. Works with senior management within the organisation to review the effectiveness of the current strategies in supporting IT sustainability objectives, including IT resources. Contributes to corporate strategy. Leads the creation of strategies, overseeing feasibility studies to identify the sustainability benefits of alternative strategies, and strategic models of the organisation's energy and material usage needs.

SUST601



ICT as an Enabler to a Greener Economy



Department
for Environment
Food & Rural Affairs

Helping businesses create a greener, more sustainable future through ICT

An industry guide by Defra in collaboration with our ICT (information and communication technology) industry suppliers & partners

October 2019

Summary of Key Initiatives

	Impact
CSR	Self-Regulating. Greenwashing.
SDGs	Global. A common language. Increasingly adopted by investors as a benchmark.
SCOPE 1,2 &3	Focus on GHG Emissions. Cost Savings. Consciousness.
B Corp	Leading the way.
Circular Economy	Focus on waste, reuse, repurposing, recycling.
Doughnut Economics	Academic model with a lot of supporters.
BCS Green SG + SFIA	Questionable Impact. We could be doing a lot more.
Your Sustainability Initiatives	TIME FOR ACTION!

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From Sustainable to Regenerative Systems

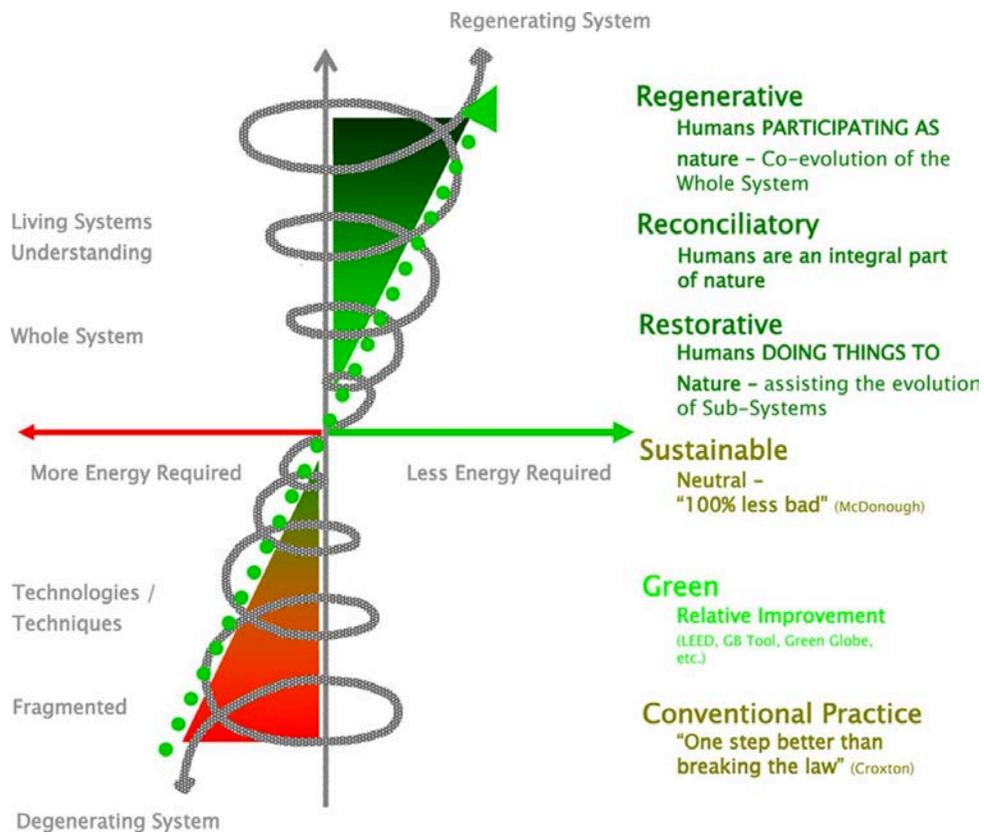
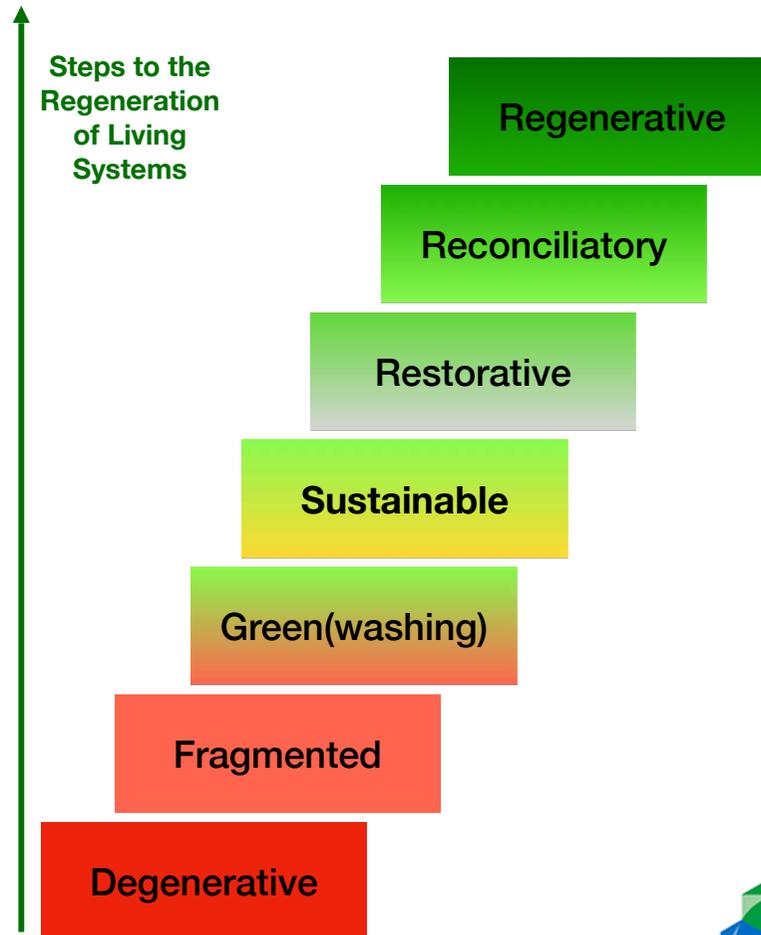


Figure 1 Trajectory of Environmentally Responsible Design

Source - “Shifting from ‘sustainability’ to regeneration” by Bill Reed



Time for a Revolution in EA

- Many of our EA Frameworks are old and designed for a different age and set of (Zachman, TOGAF etc.)
- Enterprise Architecture and Business Design has a unique perspective to make a real difference on Sustainability Initiatives
- The Real Action needs to happen across Industry sectors, not so much within
- However, the business case still needs to make sense
- The leaders are already showing the way (e.g. Patagonia, Apple, BCorp etc.)
- A lot of work in the next year is in educating and encouraging experiments across industries and taking individual action to embrace the revolution

What Are You Going To Do Next?