



Sustainable Lifecycle



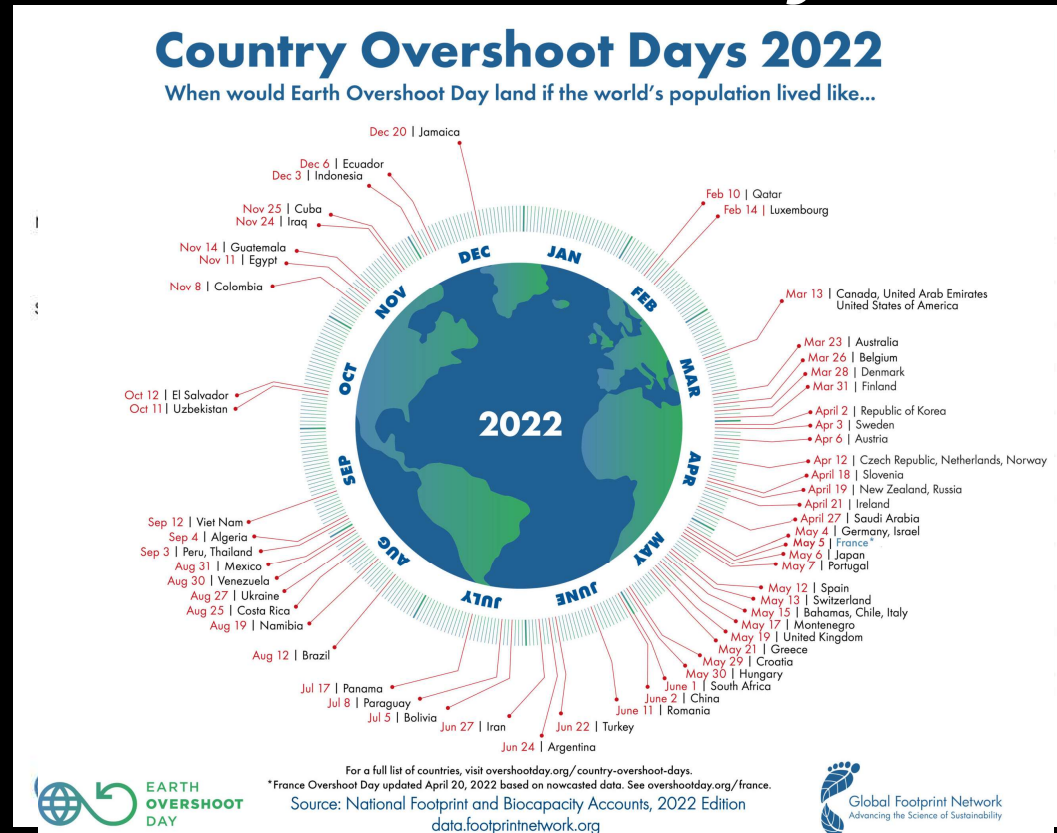
Neil Cordon

Head of Supply Chain & Quality Systems



[GroundProbe - Global Technology Leaders](https://www.groundprobe.com)

Sustainable Lifecycle



- A pure view of the circular economy
- Assessing the total Impact of your product
- Build Circular economy principles into the lifecycle management

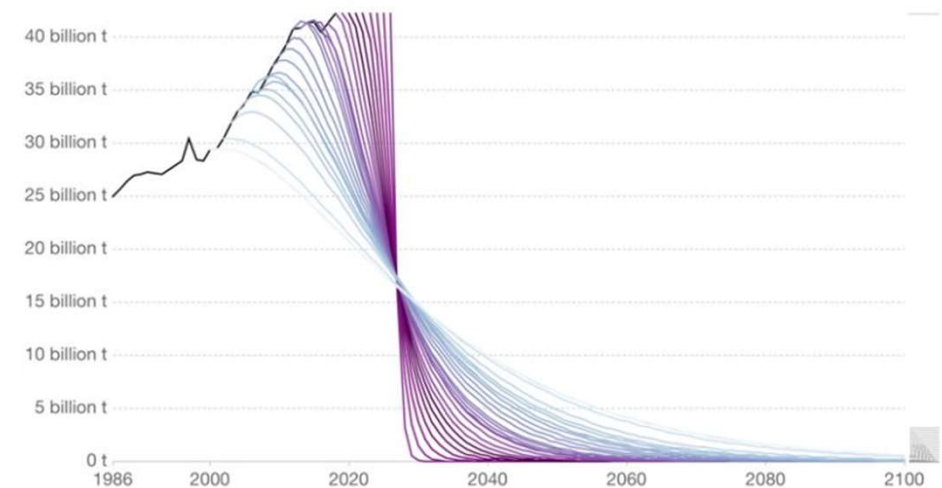


Why are you here?

- Corporate mandate
- Commercial pressure
- Financial drivers
- Risk Management
- Employee pressure
- Competitor pressure
- Moral obligation - it is the right thing to do

Climate change

Halving global emissions by 2030 – a prerequisite for our net-zero timelines



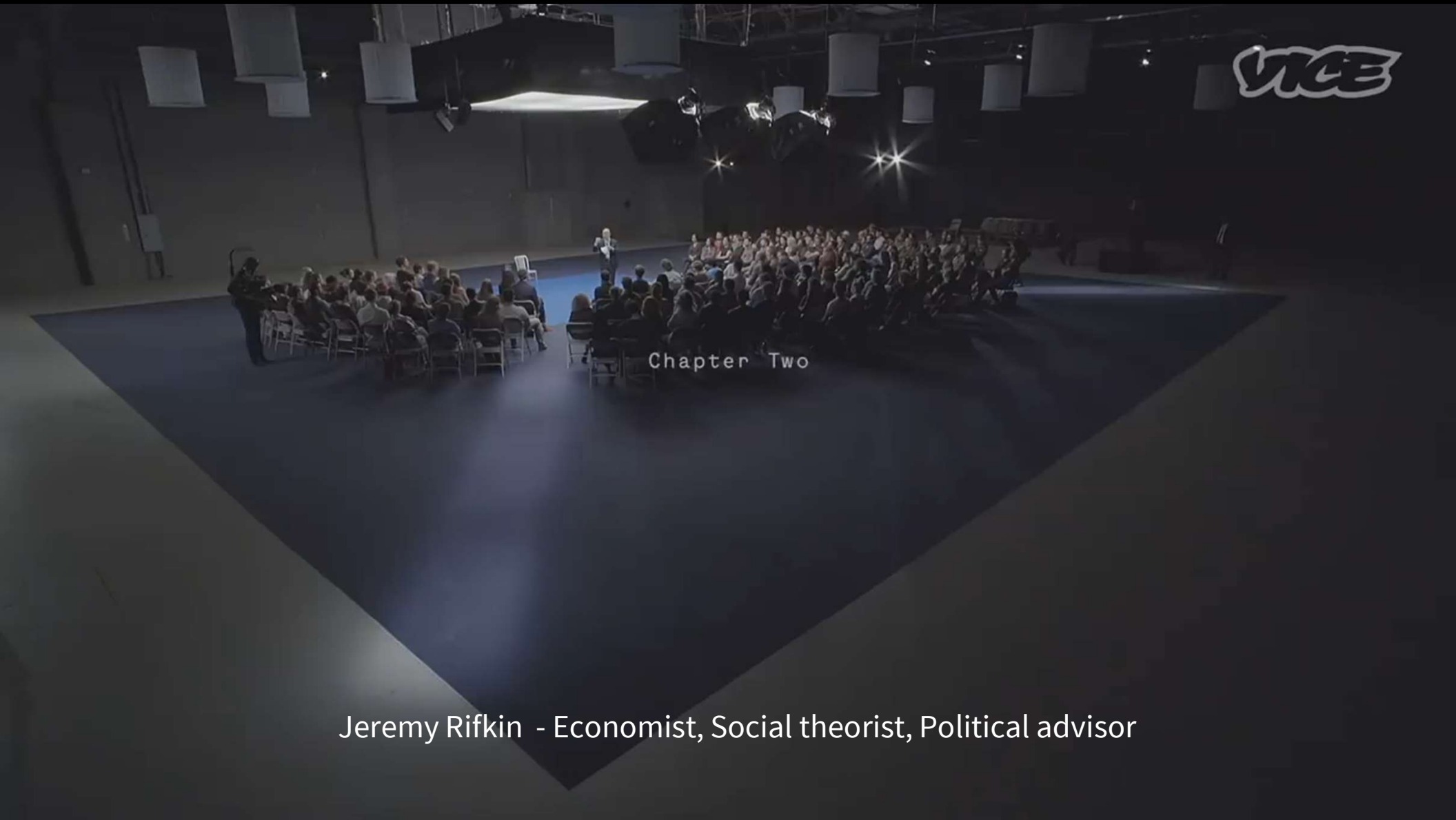
Source: Robbie Andrews (2019); based on Global Carbon Project & IPCC SR15
Note: Carbon budgets are based on a >66% chance of staying below 1.5°C from the IPCC's SR15 Report.
OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY

BUSINESS IMPACT

HIGH

MEDIUM

LOW

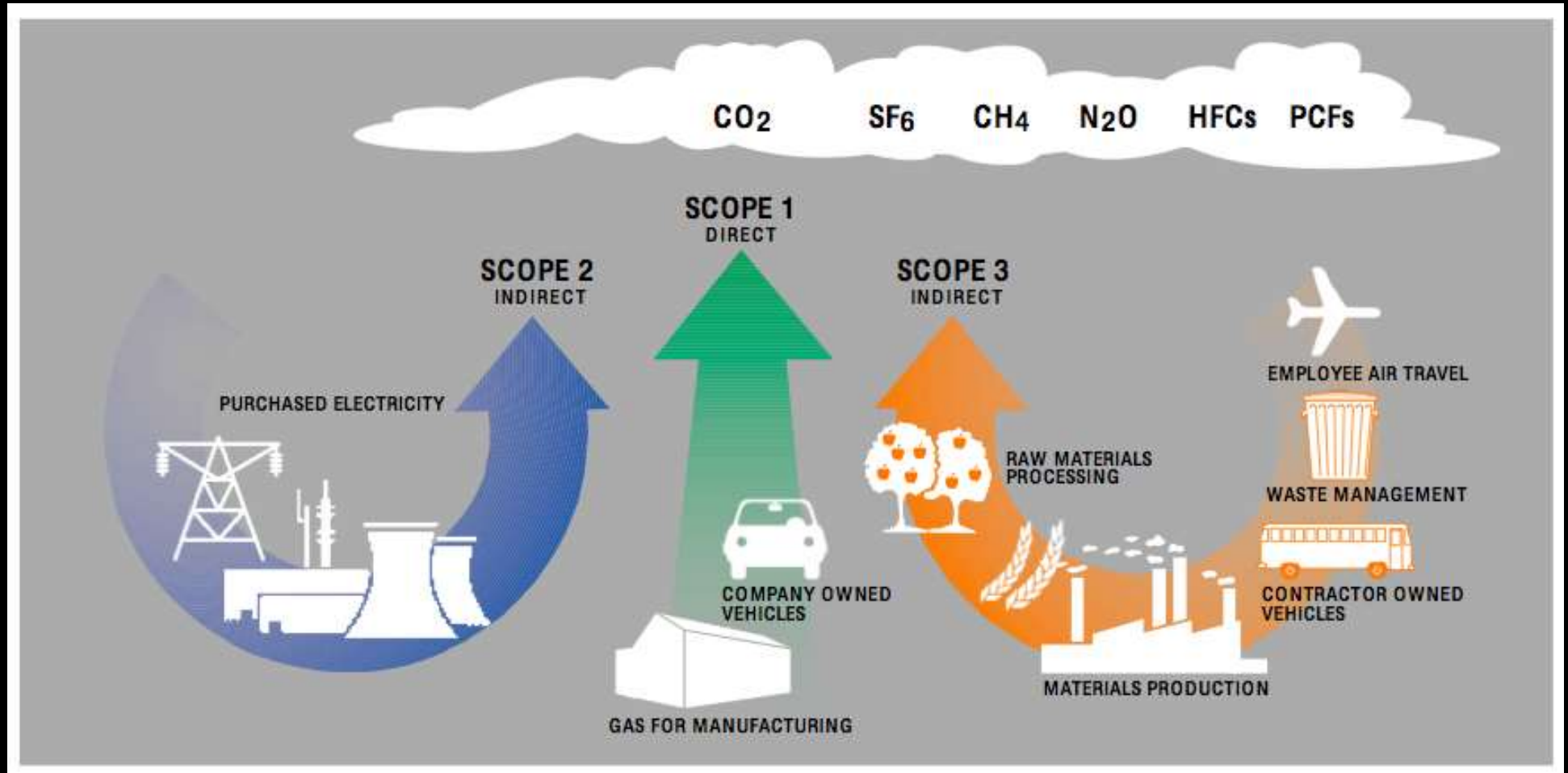


Jeremy Rifkin - Economist, Social theorist, Political advisor

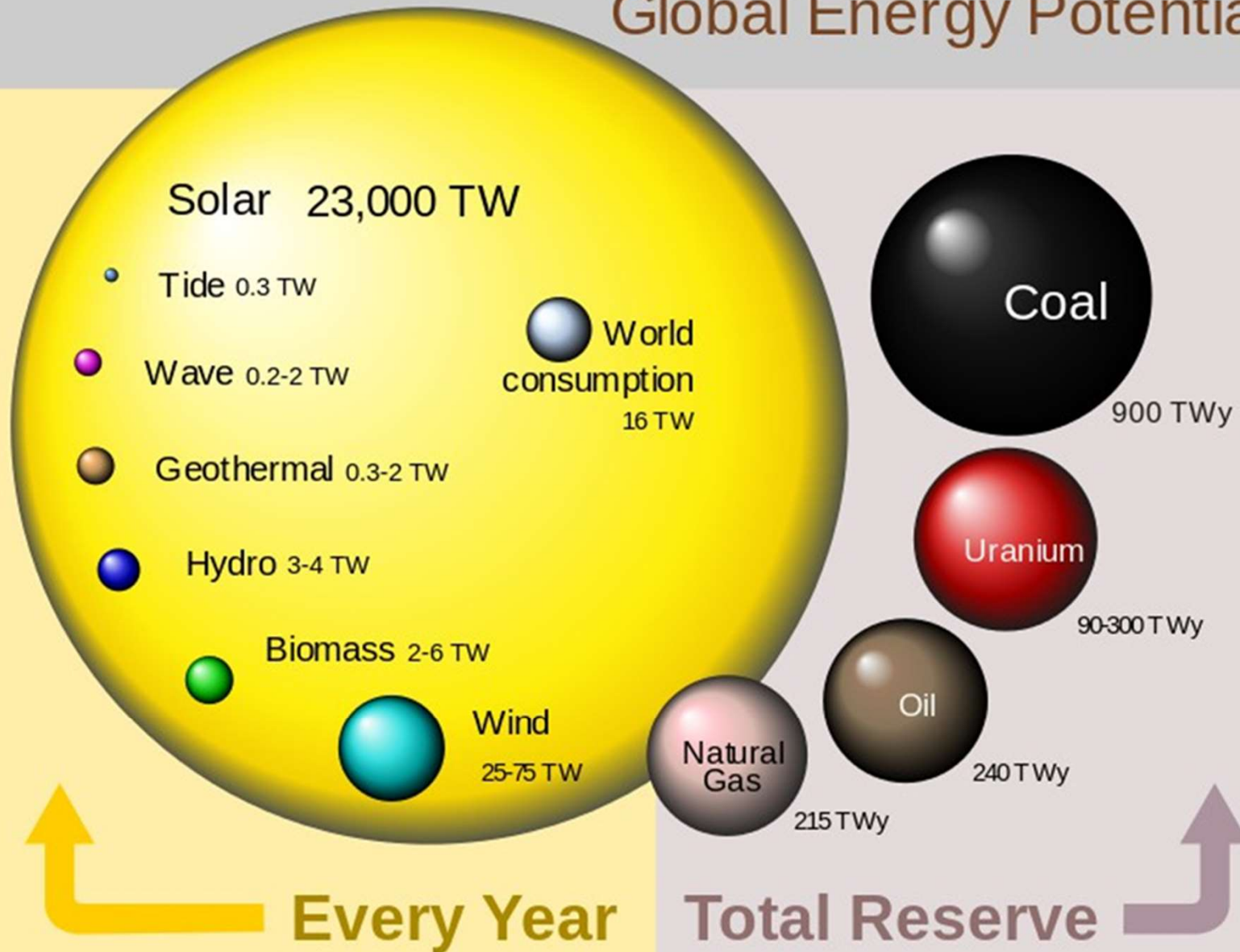
[The Third Industrial Revolution: A Radical New Sharing Economy - YouTube](#)



A simple view of impacts



Global Energy Potential





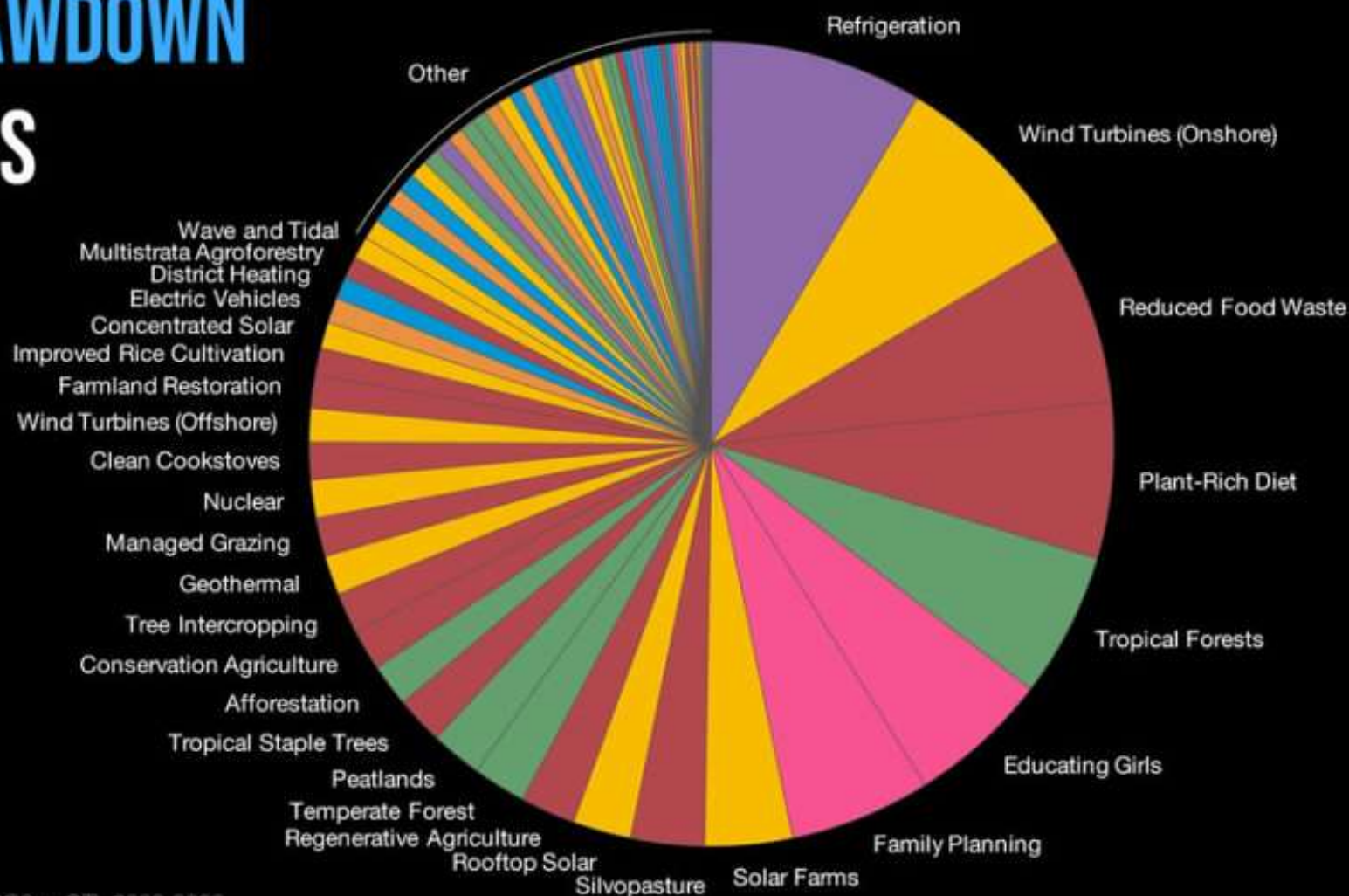
PROJECT DRAWDOWN

80 SOLUTIONS

CO₂-EQ: 1,035 GT

COST: \$29.6T

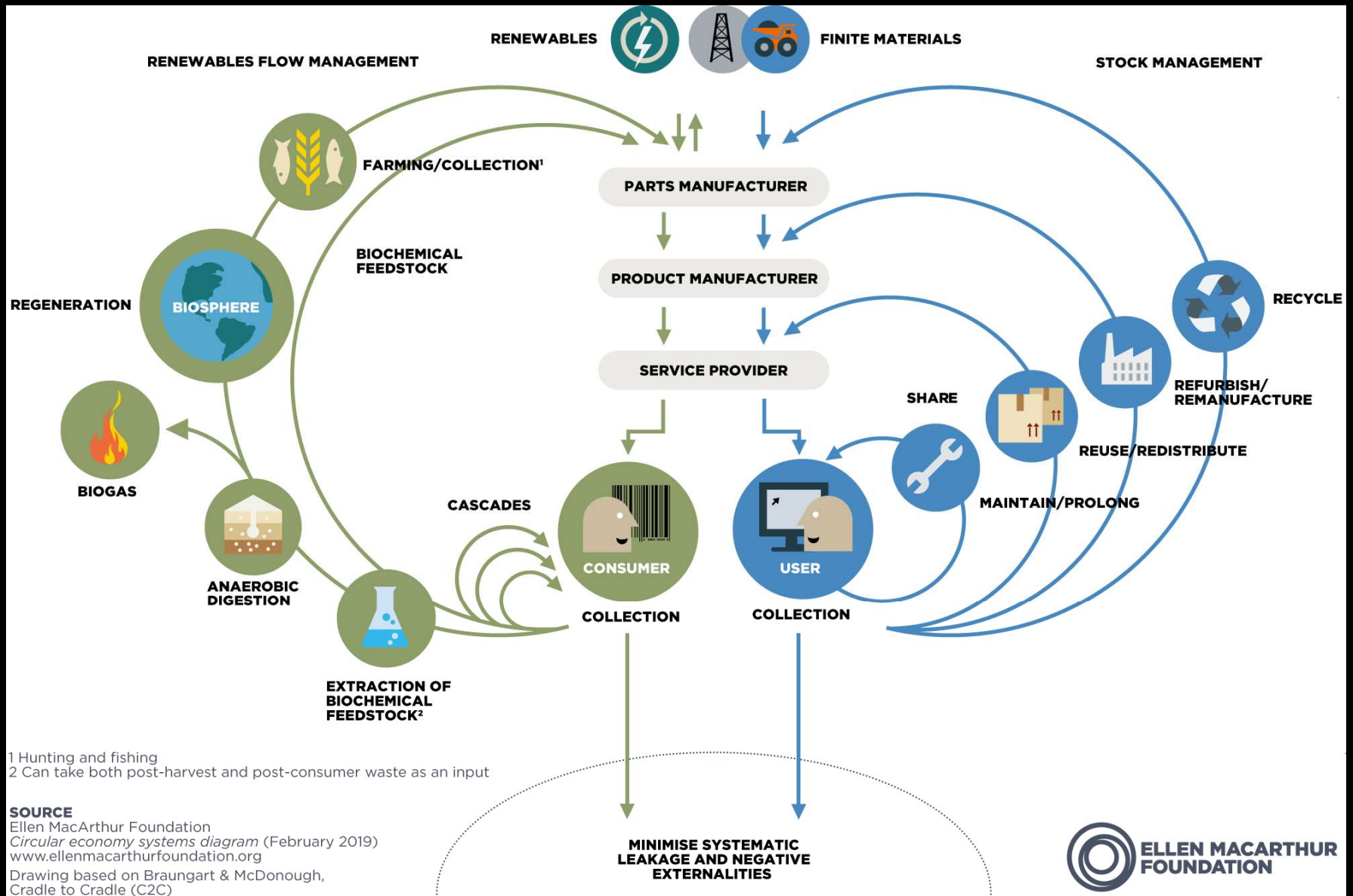
SAVINGS: \$74.4T



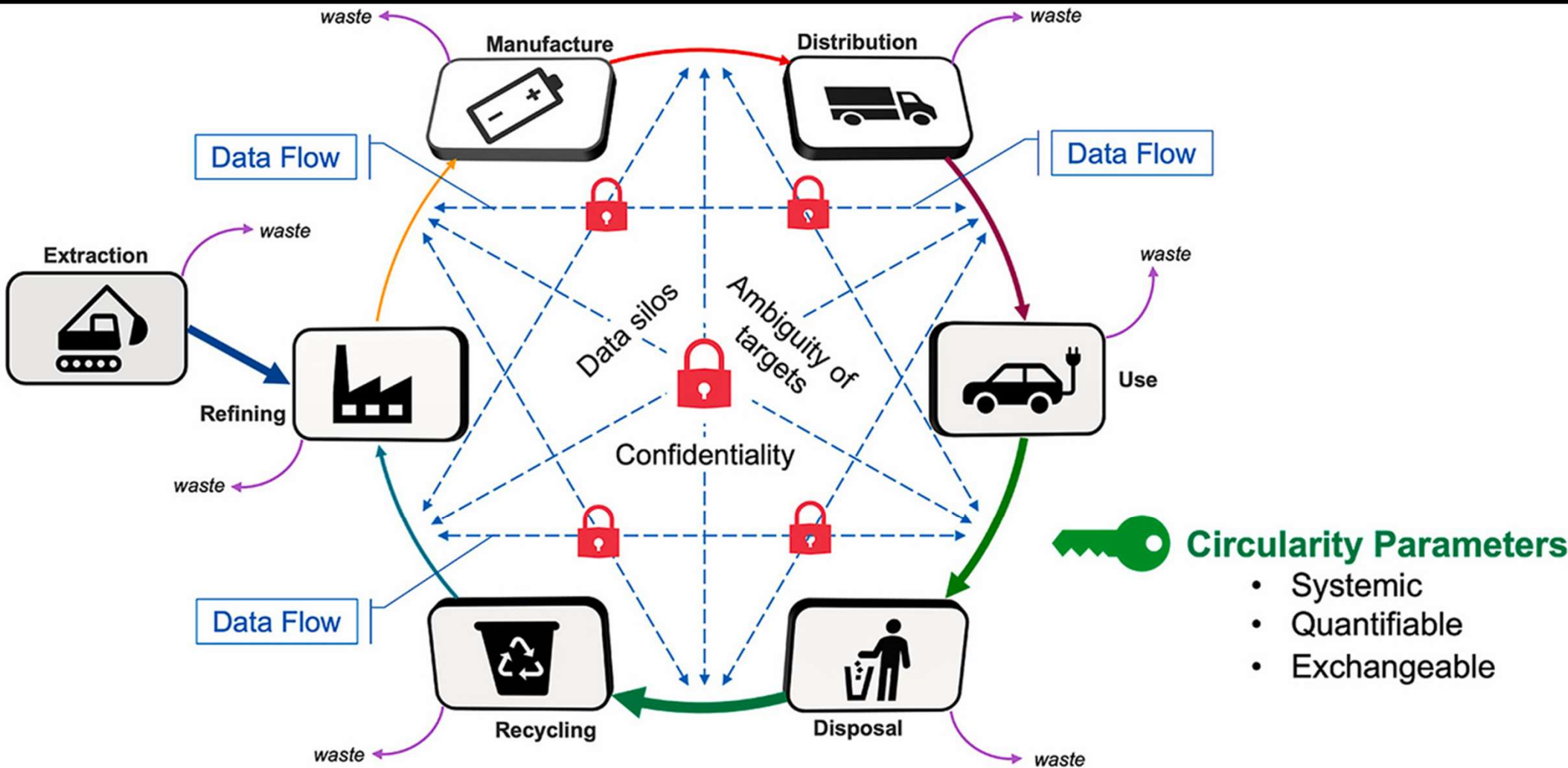
Ranked by potential emissions reduction (CO₂eq GT), 2020-2050,
as modeled in Project Drawdown's Plausible Scenario (2017).



A pure view of the circular economy



+ Assess the total Impact across lifecycle



[Overcoming data gaps for an efficient circular economy: A case study on the battery materials ecosystem - ScienceDirect](#)

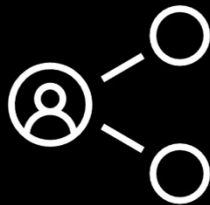
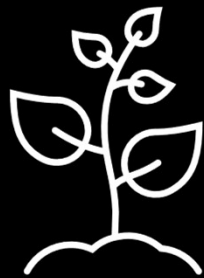
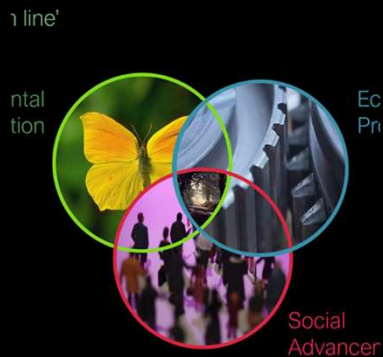
+ Build Circular economy principles into the lifecycle management

Touch Point	How
Strategy & policy	Ensure an integration of all aspects are mapped over three horizons. Develop policies that will drive the outcome
Measures	Triple bottom line: People, Planet, profit
People and Culture	Every employee, every day is thinking of ways to drive a zero waste culture
Your Products and processes	It starts with designing-in a circular economy mindset Sustainable Engineering Society (seng.org.au) Look at the <u>whole lifecycle</u> of your products and services
Suppliers	Suppliers are part of the extended enterprise of “employees”. We have to bring those that depend on us along on the journey, ideally because they want to collaborate, but “contractual obligation” is OK
Communities	We need to consider the way our businesses can have a positive impact on the communities and adopt win-win causes
Customers	They will love us for it! Reputation, transparency, stability, profitability. All of the boxes ticked
Shareholders	



Principles/ perspectives

- (1) Economic system needs to add value to Social and environmental
- (2) Adaptive – learn from nature - biomimicry
- (3) Collective wisdom
- (4) Imagination
- (5) Long term thinking/ stewardship of the planet
- (6) Local not global - scale through learning





Degeneration	Sustainability	Regeneration
Net negative	Net zero	Net positive
Shareholder centric	Partner centric	Stakeholder centric
Short term	Mid term	Long term
Business as usual, Green	Less harm	Restorative, Regenerative
Goal is growth at all costs	Do more with less	Do better with less
Competitive	Collaborative	Interdependent
Parts, silos	Counterparts	Whole, systems
High centralization	Retrofitted	Decentralized
Data hoarding	Data fragmentation	Distributed data
Laws & regulations	ESG / CSR	Beyond SDGs
Growth	Prosperity	Thrive
Organizations-as-a-machine	Organization-as-a-family	Organization-as-a-living system
Human-centric	Human-Planet centric	Planet centric
Deplete, Deforest, degrade	Reduce, Reuse, Recycle	Rethink, Restore, Replenish

Source: Felipe Villela [Home - reNature](#)



TOP 3 LESSONS

It's broader than we realise :Map the big picture now, don't wait!

Build your future state process around sharing and less vertical integration

This is the most important challenge we have ever faced , time is limited - make it a priority

+ Thank you



Neil Cordon
neil.cordon@groundprobe.com
[0448970041](tel:0448970041)
www.groundprobe.com



Resources

ISO20400.org is a not-for-profit, free to access platform which aims to develop a global community of practice around ISO 20400 and sustainable procurement.

On this site you can learn about ISO 20400, self-assess your organisation or post content to share your knowledge.

[How to Build a Circular Economy | Ellen MacArthur Foundation](#)

[Project Drawdown](#)

<https://www.iso20400.org/>

<https://www.iso20400.org/building-the-business-case-for-sustainable-procurement-in-australia-2019/>