

ELLEN MACARTHUR FOUNDATION









OUR MISSION IS TO ACCELERATE THE TRANSITION TO A CIRCULAR ECONOMY



Ellen MacArthur Foundation: Accelerating the transition to a circular economy

Insight & Analysis

Systemic Initiatives

Business & Government

Learning

Communication































H&M Group





INTESA M SANDAOLO

RENAULT





















ELLEN MACARTHUR FOUNDATION

Thank you

www.ellenmacarthurfoundation.org

















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The Circular Economy



Google references to circular economy

2010

Today

300

Google references to circular economy

9 million+ Google references to circular economy

• 2013 – WEF Meta-council on CE

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- 2015 EU package on CE

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- •THIS WORKSHOP!

What does the circular economy mean to you?

An economy which is restorative and regenerative by intention and which decouples economic activity from material consumption

What's this session about?

- What is the circular economy?
- Where does it come from?
- What's so appealing about it & why might it be important?



In your opinion ...

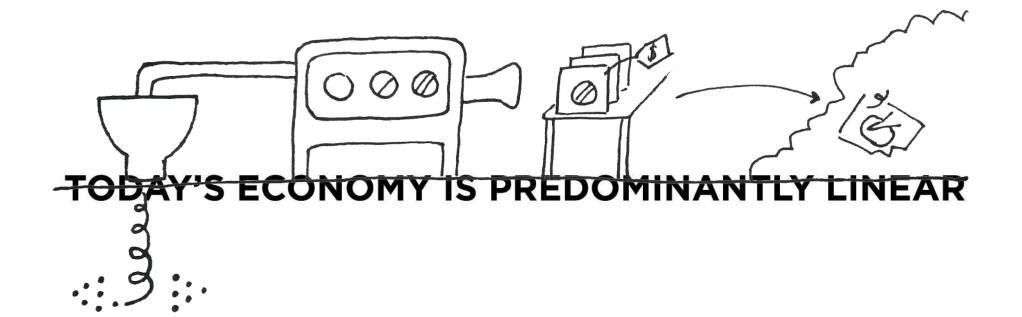
What problems is the circular economy trying to address?

Problems

- Lots of them
- Varied
- Complex
- Interrelated

Why do we have these problems?

Watch film here





So ...

How can we fix this problem of materials extraction and consumption?

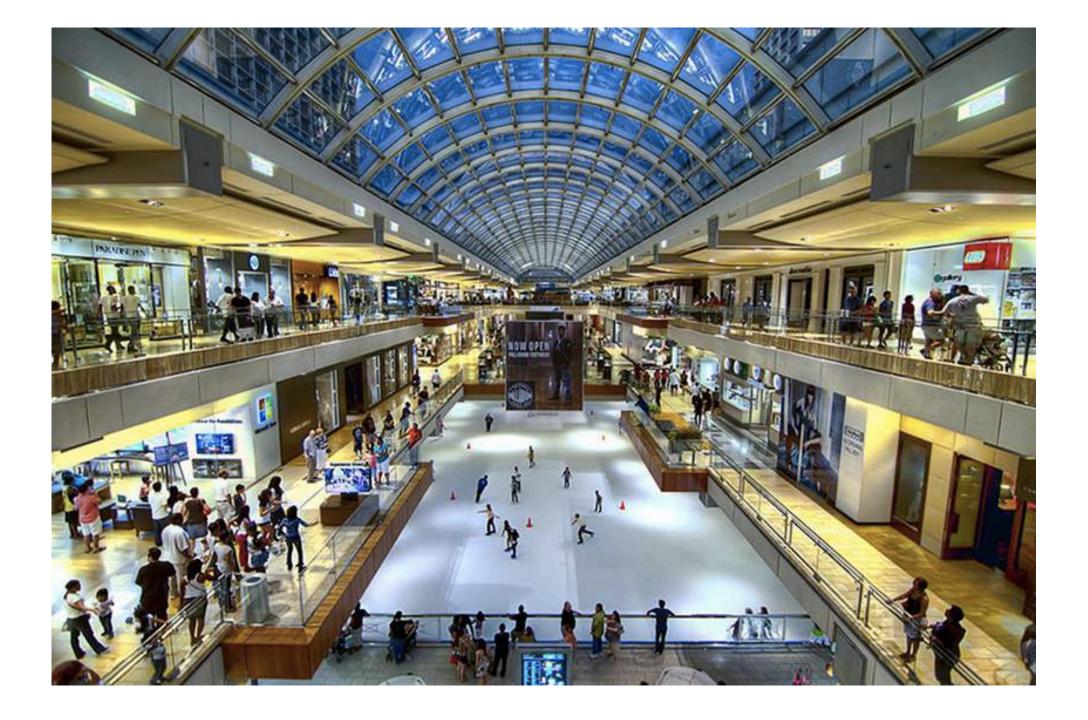
Watch series of film

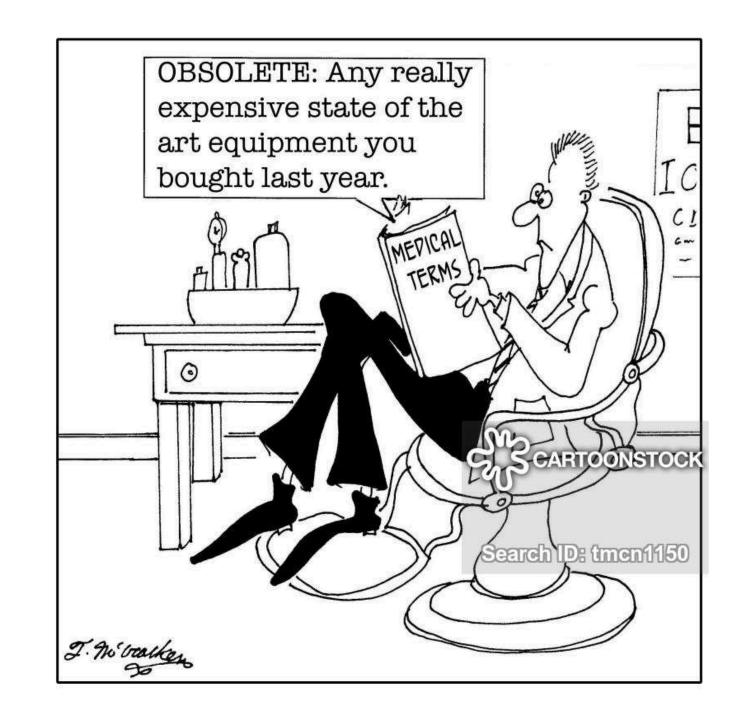
film 1 film 2 film 3 film 4 film 5 When we try to pick out anything by itself, we find it hitched to everything else in the Universe.

John Muir

2+2=5







Linear economy relies on access to cheap:

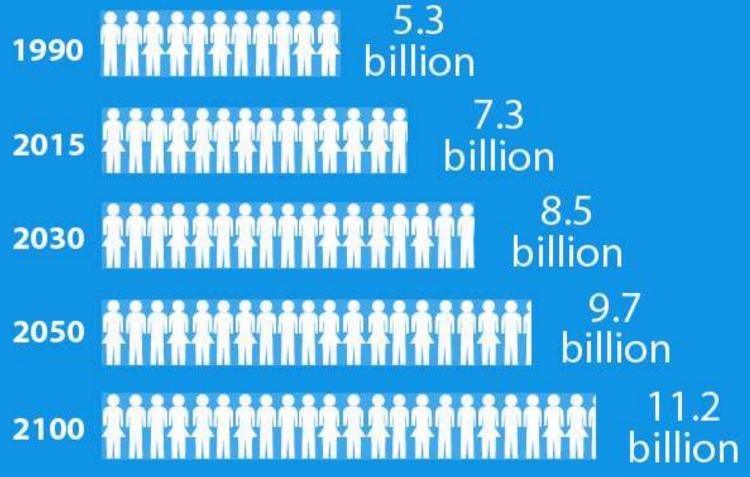
- Resources
- Energy
- Labour





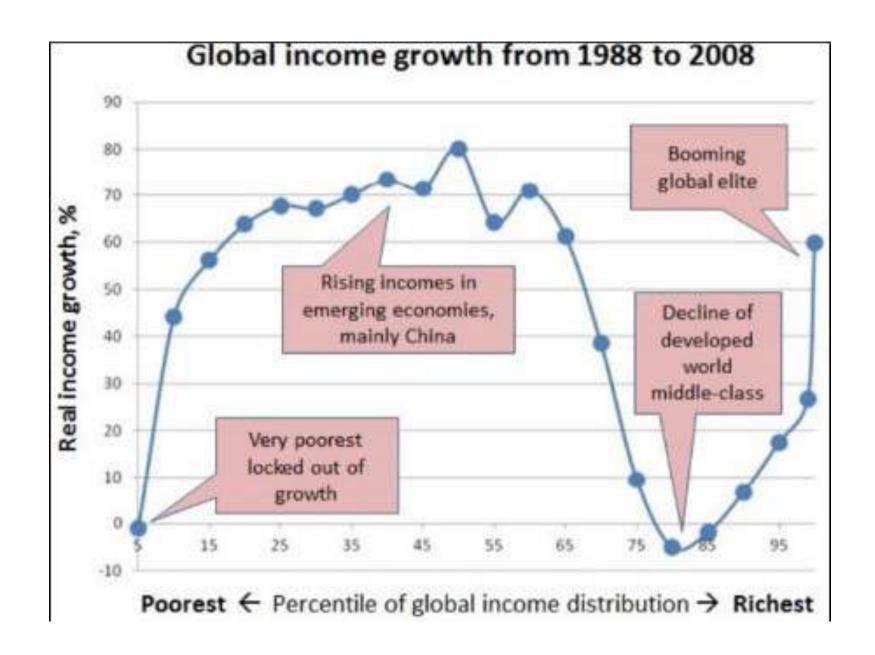
World Population

Projected world population until 2100



Source: United Nations Department of Economic and Social Affairs, Population Division, World Population Prospects: The 2015 Revision Produced by: United Nations Department of Public Information





The middle class will spend \$29 trillion more per year by 2030

Globally, the middle class is already spending \$35 trillion, and could spend \$29 trillion more by 2030, accounting for roughly 1/3 of the global economy. The market for middle class consumption could grow faster than global GDP growth.





*per year in real terms

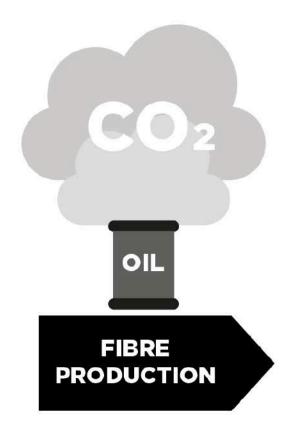
You never change things by fighting the existing reality. To change something, build a new model that makes the existing model obsolete. Buckminster Fuller



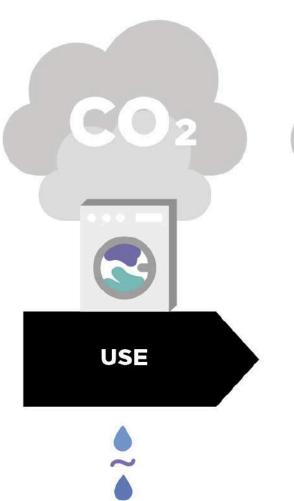
Let's play the natural systems card game ...

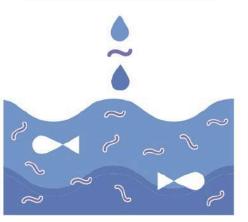
How does this system work compared to the linear system?

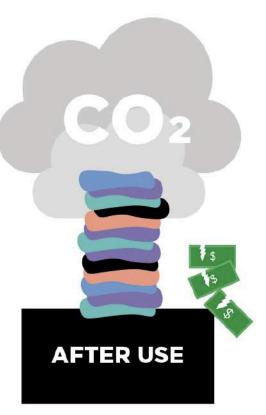
What are the fundamental differences?



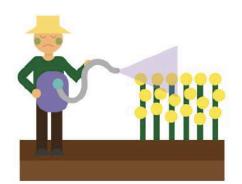






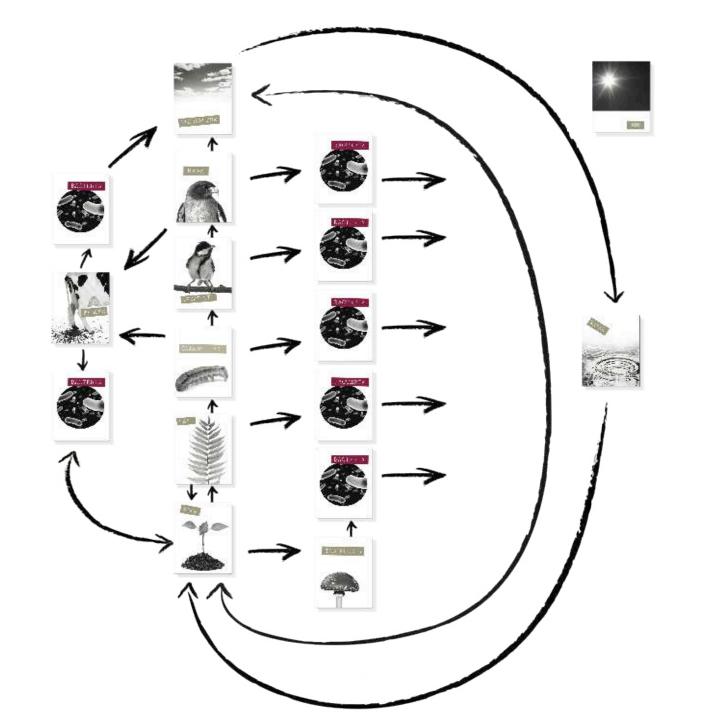






How does this system work compared to the linear system?

What are the fundamental differences?



How does it work?

- Waste doesn't exist (waste = food for something else in the system)
- No pollution or toxins
- Regenerative
- Powered by the sun

Watch film here

Principles of the circular economy



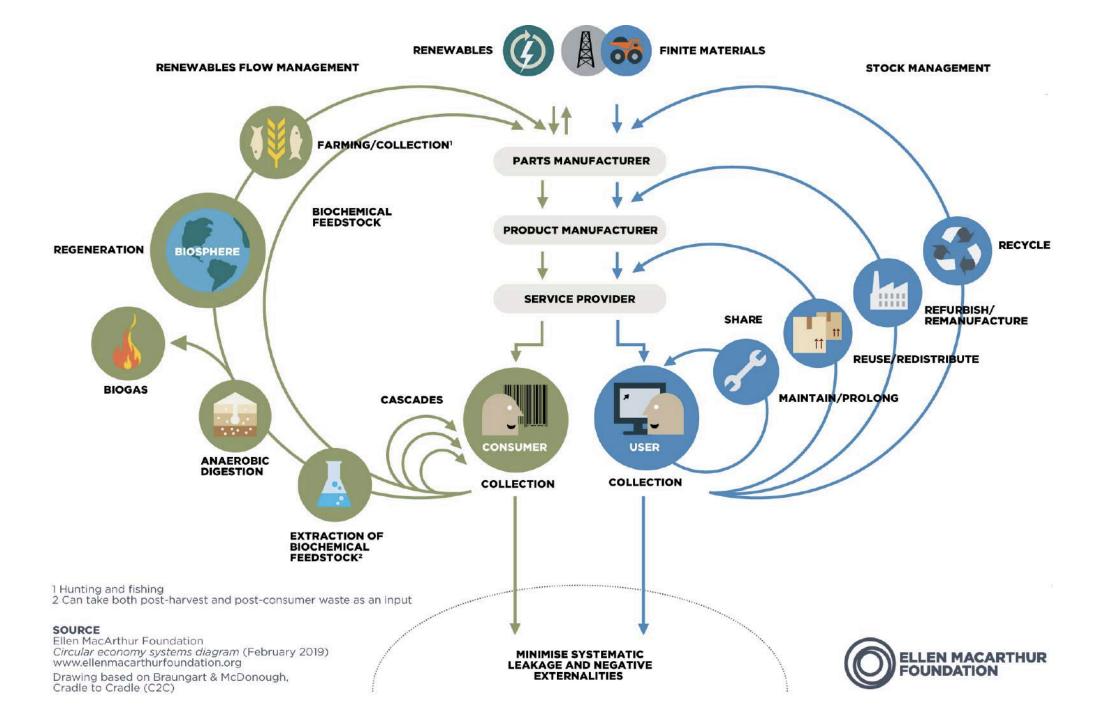
Design out waste and pollution



Keep products and materials in use



Regenerate natural systems











Biomimicry Janine Benyus Cradle to Cradle William McDonough & Michael Braungart Industrial ecology Thomas Greadel Industrial symbiosis Marian Chertow Blue economy Gunter Pauli Natural capitalism Amory& Hunter Lovins, Paul Hawkin Performance economy Walter Stahel

Case study activity

Discussion Questions ...

- With which of the 3 CE principles does it align?
- Where does it fit on the butterfly diagram?
- Principlestof the circular
- ecanomysee any unresolved challenges?



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Regenerate natural systems

So, is this a circular economy?

BUILDING BLOCKS OF A CIRCULAR ECONOMY



Circular Economy Design



New Business Models



Reverse Cycles



Enabling System Conditions



What do you think?

If not a circular economy, then what?