



OPEN MIC

**How to get circular economy. Let's escape 50 years of linear lockins!**

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# Streetlight effect

We tend to look for solutions where the light shines




# Streetlight effect

...not from over  
here where we're  
not looking!

We look for solutions  
from our viewpoint



A photograph of a beach scene. In the foreground, a single footprint is visible in the golden sand. In the background, a wave with white foam is breaking. The image is used as a background for a presentation slide.

Credit: Simon Tong [si.smugmug.com/](http://si.smugmug.com/)

Steps taken?

Problems solved?



# 50 years of the circular economy vision

Kenneth Boulding, 1966. Cowboy economy vs **spaceship economy**

United Nations ZERI, 1994. **Zero emissions**, “All waste is to be converted into value-added ingredients”.

Japan, 2000. “Fundamental Law for Establishing a **Sound Material-Cycle Society**”

Bill McDonough and Michael Braungart, 2002. **Cradle to Cradle: Remaking the Way We Make Things**

China National Plan, 2006. “It is an urgent strategic task for China to vigorously develop the **circular economy**.”

European Commission, 2014. Circular economy as theme of annual Green Week conference.

# 50 years later, any actual circular economies?

Should we check that what we're thinking and doing will lead to a genuine circular economy?

We know what to do  
We just need to get on with it



# Why Circular Economy?

Solve the linear economy  
problem

Solve the climate problem  
Solve the rubbish problem  
Solve the pollution problem  
Solve the marine debris problem  
Solve the ecosystem problem  
Solve the toxics problem

...



# How to get circular economy?

Change how the whole system works  
Call **this** a systems approach

Focus on subsystems, eg product design requirements for electronic displays.

Gradual change via targets, taxes, rules, collaboration.

Call this a systems approach.





# What is waste?

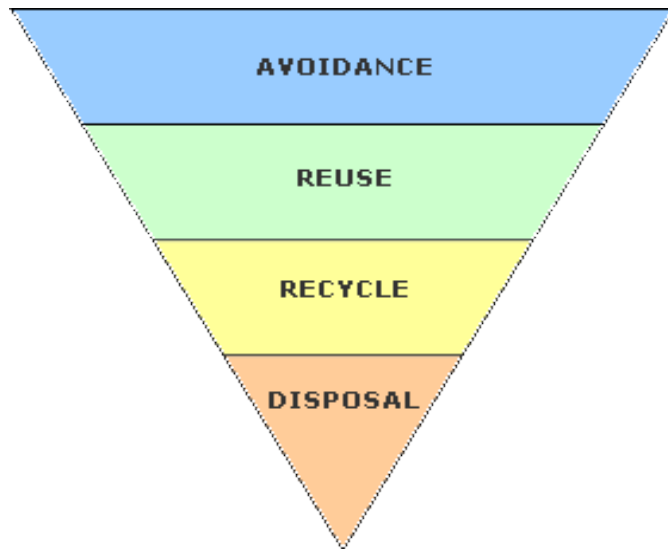
‘Ecological waste’ is used resources accumulating in land, air or water ecosystems. CO<sub>2</sub> emissions, ocean plastics and landfilled rubbish are different types of ecological waste.

Waste is stuff I want to get rid of  
It's solid  
CO<sub>2</sub> is an energy issue not a waste issue



# What guides our thinking on waste?

How the waste hierarchy was envisaged in the 1975 EU Waste Framework Directive



How the waste hierarchy ended up being used

# Waste management vs precycling

Precycling: stopping waste by taking action before the point of disposal

Waste management: 'managing' waste after disposal.

Most attention and cash funds dumping to land and air.

The air is a free dumping ground; "we will adopt a waste to energy initiative"






## Action lever: precycling

“What can we do now to stop resources ending up dumped into ecosystems?”

### **Precycling is:**

- Action taken now to ensure that resources remain as resources, for the economy or for nature
- A new word to enable systemic change
- Circular economy translated into practice
- Implementing all the non-disposal options of the waste hierarchy
- A fresh perspective to support dialogue, collaboration and innovation





## Meaningful change is binary, not incremental

Shoes (and fuels and everything else) are either precycled or prewasted

Resources end up as either new resources or ecological wastes

The incentives to determine this are either in place or not

We have either circular economy or junk economy

# How to get everyone to precycle everything?

Harness the power of markets, to make stopping waste as normal as making waste is today.

Harness the power of the circular economy and climate movements. We want more projects to cut more emissions and wastes. Try to intervene in everyone's decisions.





# Design choices for circular economy

Design the resource logistics  
Government responsibility  
Targets for % change  
Act within sectors/issues  
Limit capitalism

Design the economics  
Producer responsibility  
Step change  
Act across economy  
Fix capitalism



# How to design waste out of economics?



- Financial incentives guide linear vs circular decisions
- The externalities of linear economy support linear decisions
- Conventional approaches to externalities (such as taxes and prescriptive regulation) are self-limiting
- Instead we can extend existing practices of producer responsibility and insurance



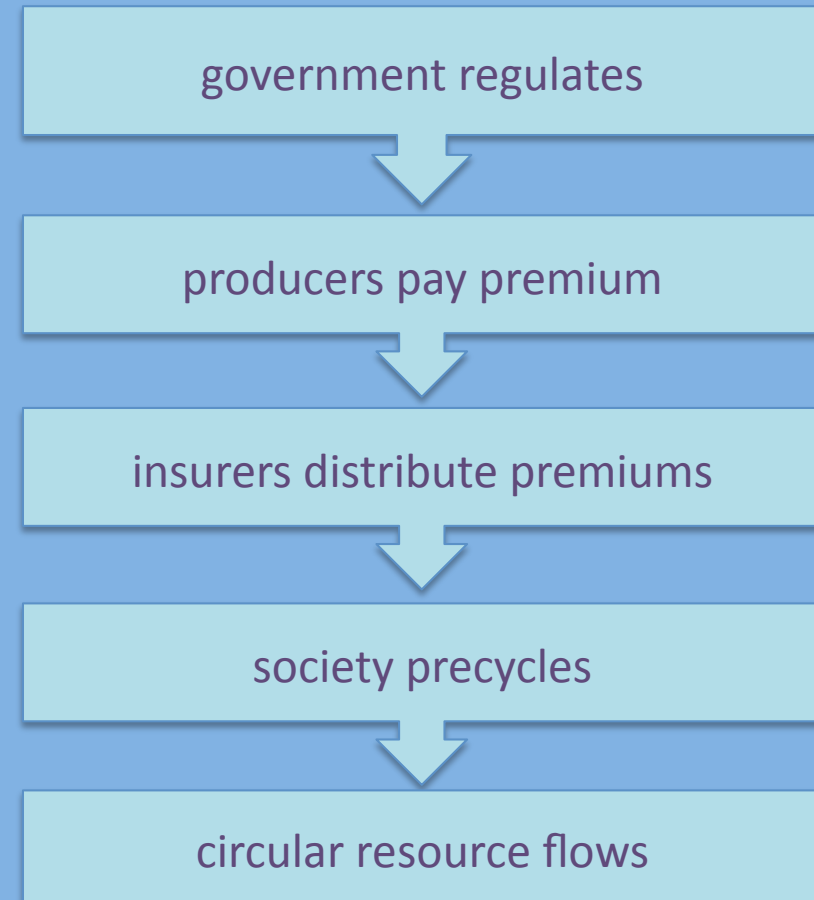
## Price lever: circular economics

Circular economics can price the risk of products becoming wastes in ecosystems, providing vital incentives and financing for change throughout the economy.

1. Waste-risk: the risk of a product ending up as waste in ecosystems
2. Make producers responsible for the waste-risk of their products
3. Producers 'insure' against their products' waste-risk
4. Premiums are spent to cut waste-risk everywhere



# Case study: kettles (or any product)



# Advantages

## The standard approach:

- Uses widely accepted language and habits of thinking
- Preferred by politicians seeking to defer change to the future
- Preferred by businesses with high waste-risk, eg fossil fuels

Precycling premiums are:

Simpler; Just one economic tool for waste and climate.

Better for government; achieve more with less rule-making, compatible with other tools

Better for business; minimal admin, full freedom of choice



# Green or growth?

Growth is a terrible indicator of progress, which is why politicians cannot abandon it (yet).

Green growth may be possible by fixing the systemic error of linear economics.

Growth is a terrible indicator of progress, so politicians should abandon it.

More growth means more linear-economy destruction.







## Political lever: new growth strategy



Circular economics can switch political mindsets away from destruct-mode linear economic growth

- Growth is a non-negotiable policy goal
- Choice of 2 growth pathways; linear or circular
- Economics either neglects or fixes externalities (partial fixes are market distortions)
- Get the highest possible GDP and lowest possible prices by preventing (rather than paying or suffering) externalities
- Gain in circular activity > loss of linear activity



# Thanks! Questions? Comments?

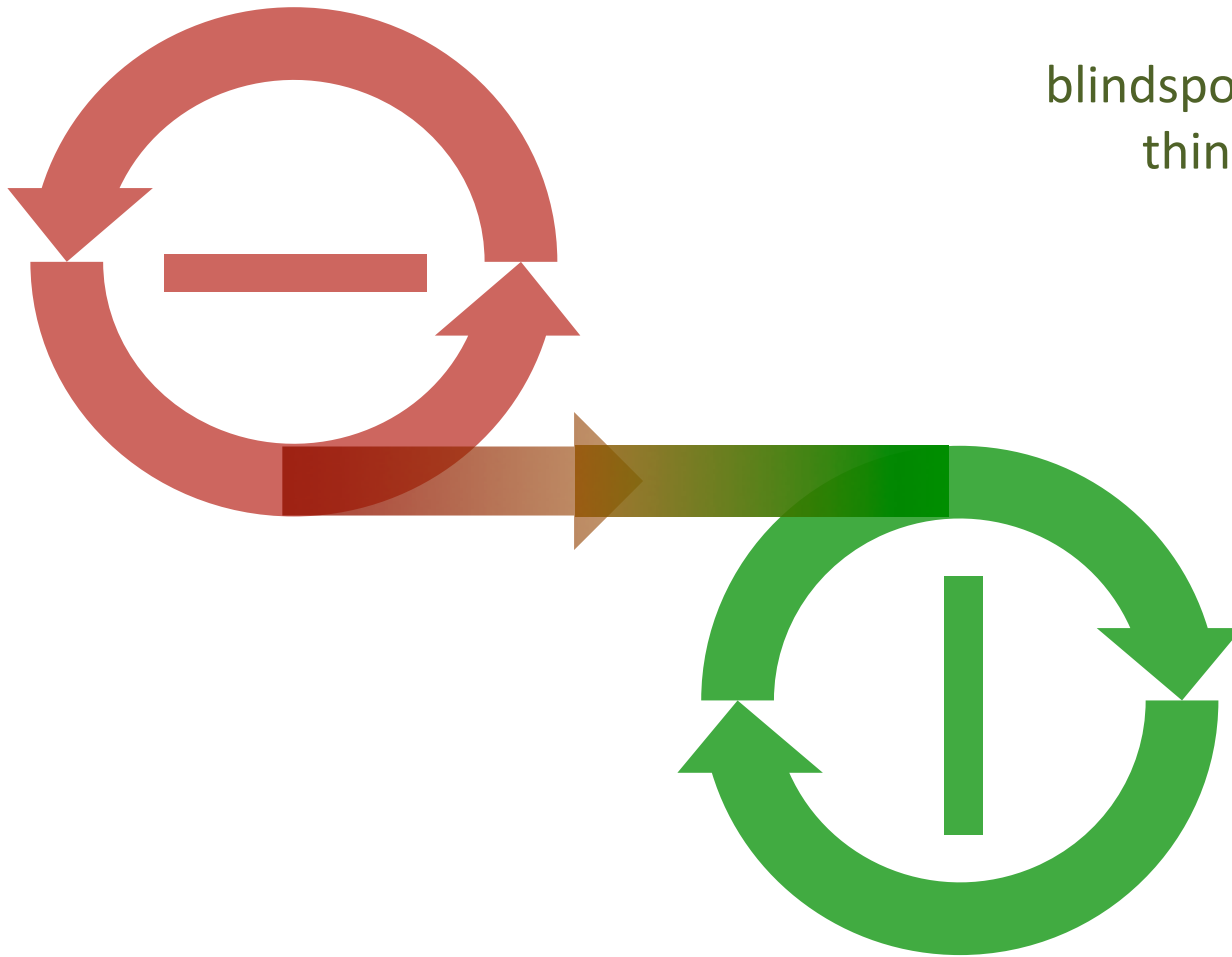
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