



Business Models for Circular Economy

30. 11. 16 – 63rd LCA Forum, Zürich Raphael Fasko – Rytec AG

Rytec & sanu durabilitas



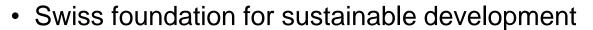
Rytec

- Consulting- and engineering company in the waste industry
 - Energy efficiency of waste incineration
 - Concepts for the ongoing transition in the industry
- How can we be catalyst for circular economy?





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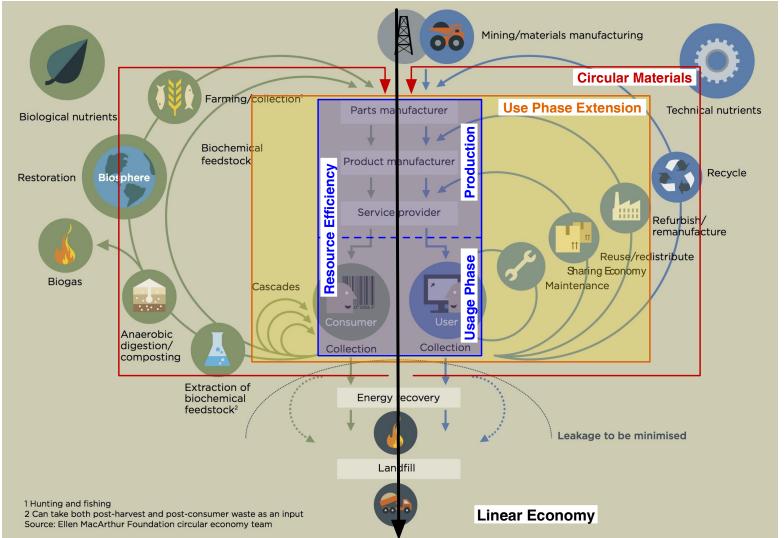


- Researching new sustainability topics and solutions
- · Kick-starting and catalyzing the societal discussion on those topics



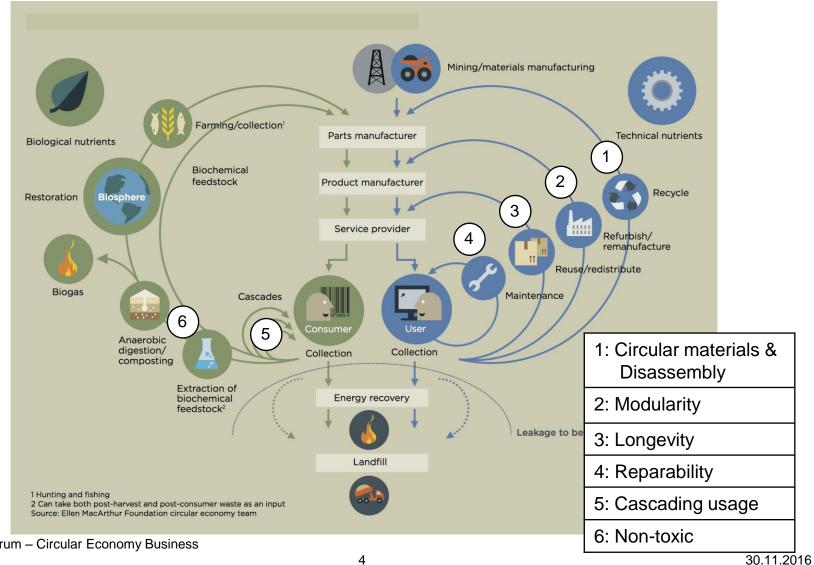






Circular Economy Design Principals

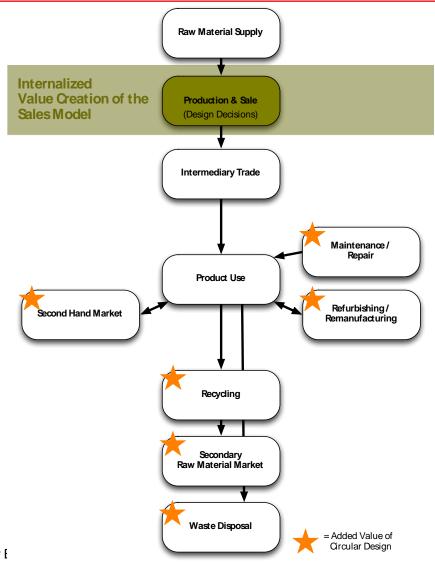




63rd LCA Forum - Circular Economy Business Models



The Bad News - Value Chain of Sales Models



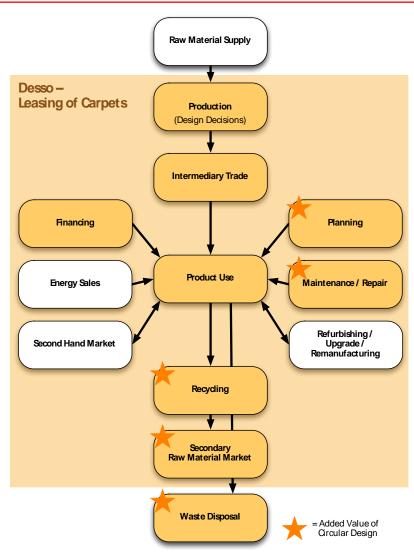
The Good News – Business Models for Circular Design



Sale	Rental / Leasing	Service
Ownership with user	Ownership with the producer / provider	

Value Chain of Leasing / Rental Model – Desso: Carpet



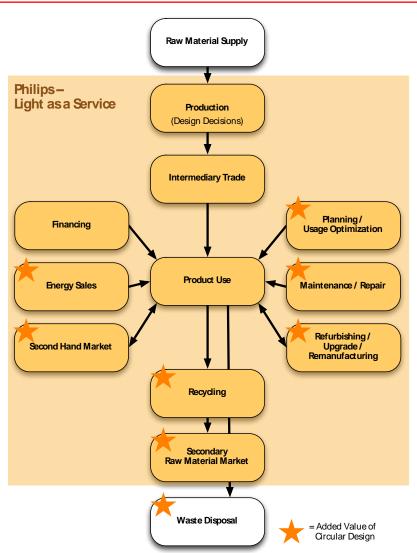




Value Chain of a Service Model – Philips: Light as Service

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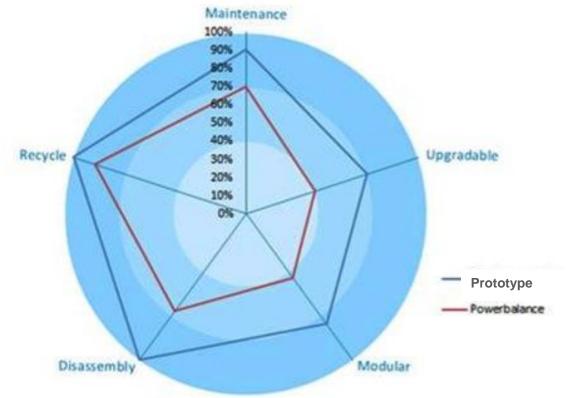




Philips: Light as Service – New Design Requirements



- New requirements for the designers
- Selection of best suitable lighting equipment for the service model







Circular Hardware needs Circular Software!

Circular business models are the door opener for economic-ecological win-win-situations.

Paradigm shift in the stimulation of "eco design":
Away from legislation and technical design discussions towards

promotion of business model and competitiveness

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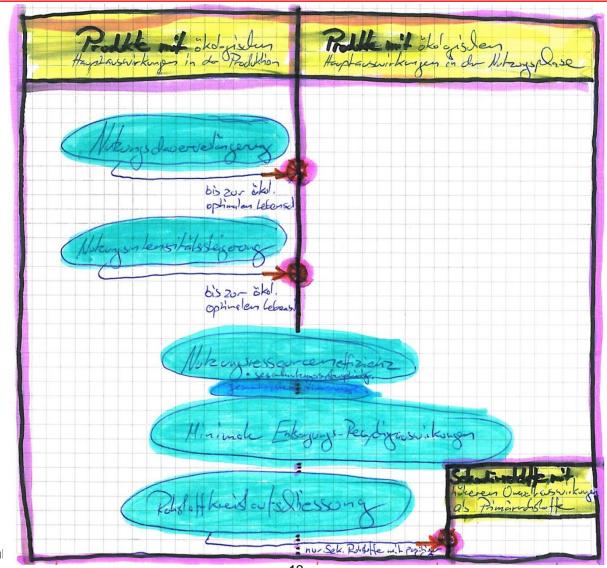


BUT... – Important Questions

- When do we get an effect from the business model to the design?
- Ecological risk of the business models



The Ecological Risk Landscape





Important Questions



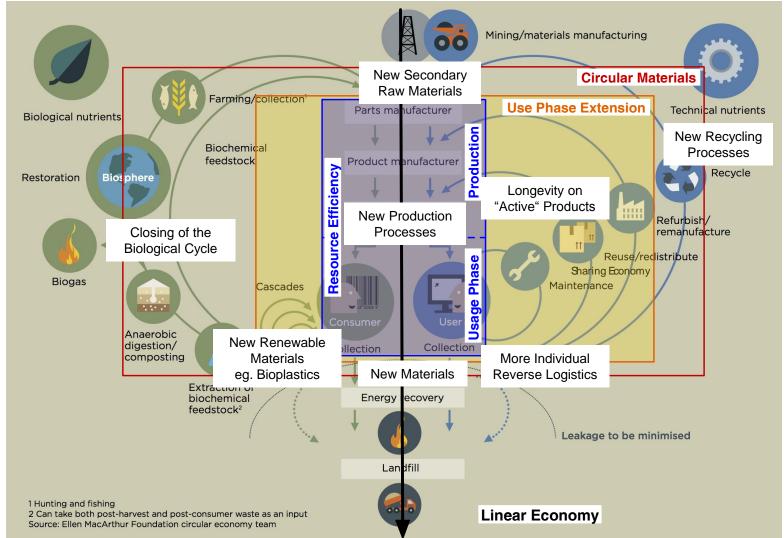
- Effect from business model to design?
- Ecological risk of the business models
 - Longevity

BUT... –

- Circular Materials
- New Technologies
- Rebound Effect:
 - More consumption & reduction of ecological benefits
 - Cheaper Service
 - More Accessible & Convenient Service









Questions / Discussion...



Thank you for your attention!

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Further Reading:

Report on circular business models (in German):

http://www.rytec.ch/docs/kreislaufgeschftsmodelle_sanu_2015_0.pdf