



Politechnika  
Śląska



# *Sustainable waste management*

Seminar "Responsible consumption and production – selected  
environmental aspects,"  
27.10.2023 r.

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# What is included?

## 5. SUSTAINABLE WASTE MANAGEMENT

### 5.1. Rational waste management

5.1.1. *Waste management hierarchy*

5.1.2. *Waste processing methods*

5.1.3. *Circular Economy*

### 5.2. Responsible Consumer

5.2.1. *Zero Waste Philosophy*

5.2.2. *Less waste*

5.2.3. *Environmental education*

### 5.3. Sustainable production

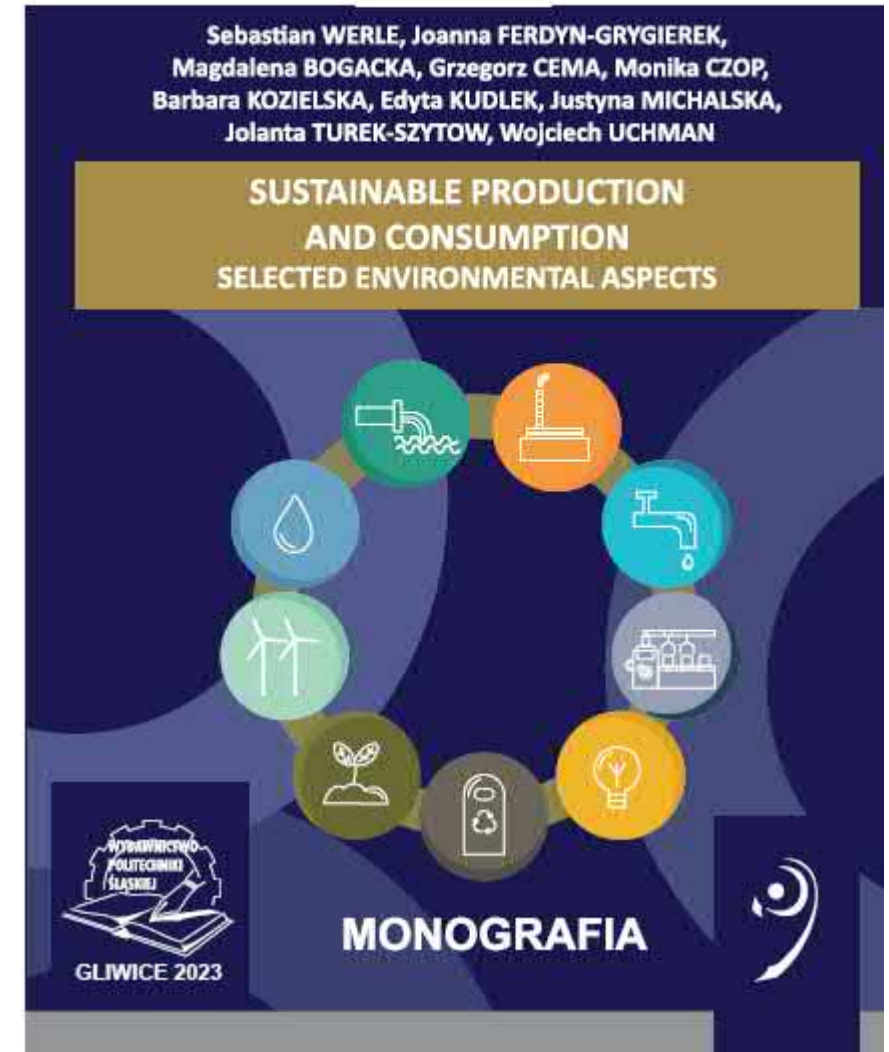
5.3.1. *Circular business models*

5.3.2. *Business model divisions in the circular economy*

5.3.3. *Business model examples in companies*

5.4. Summary

Bibliography



# Rational waste management

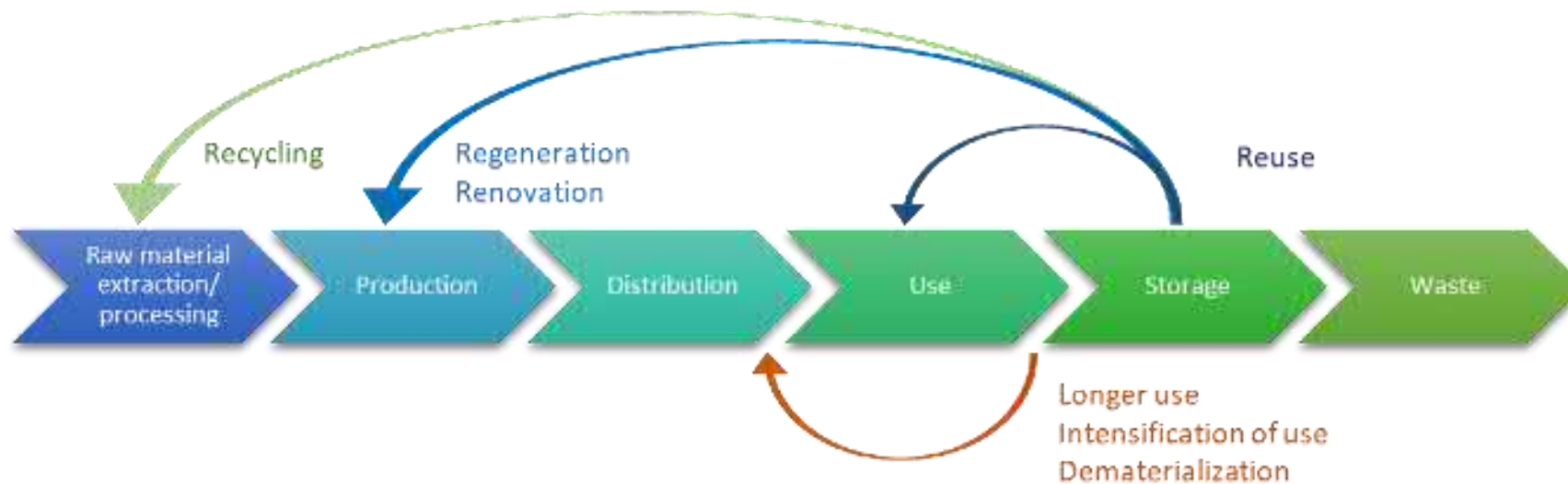




# Linear economy model

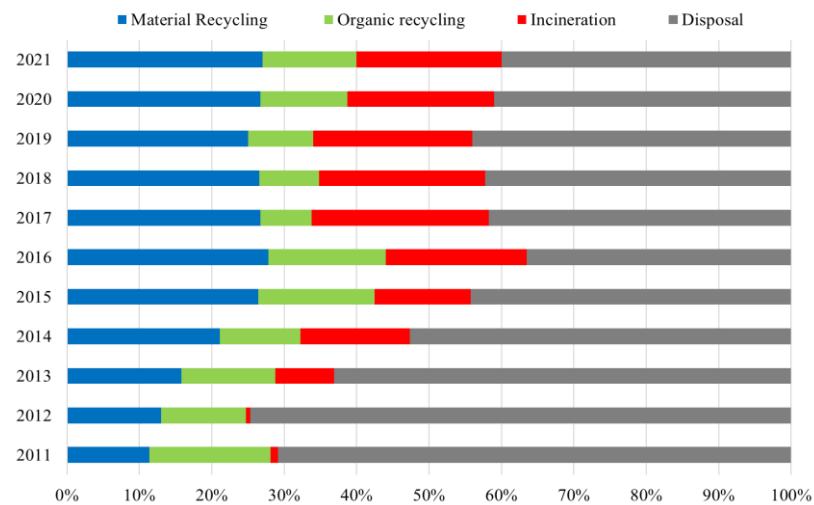
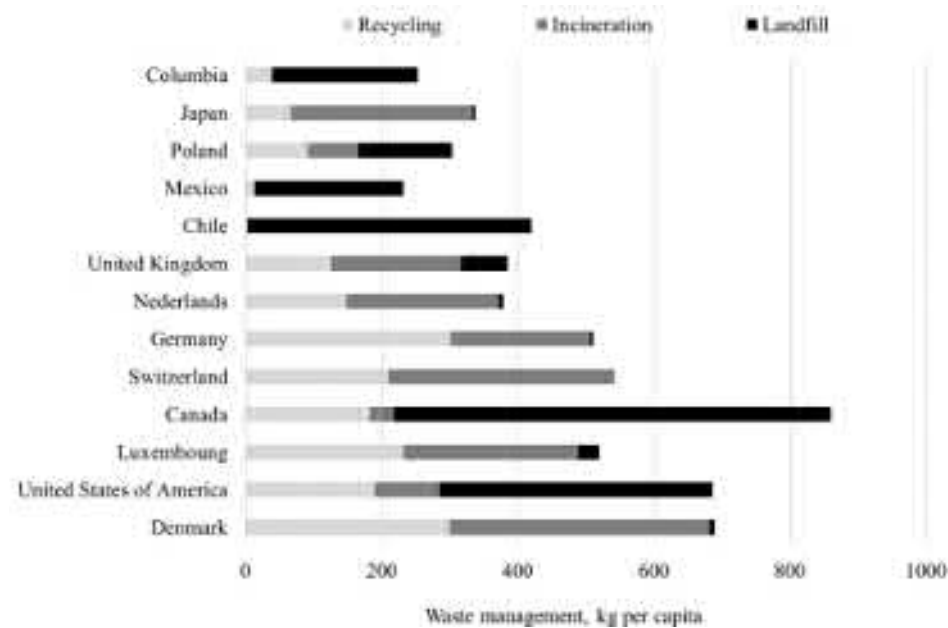
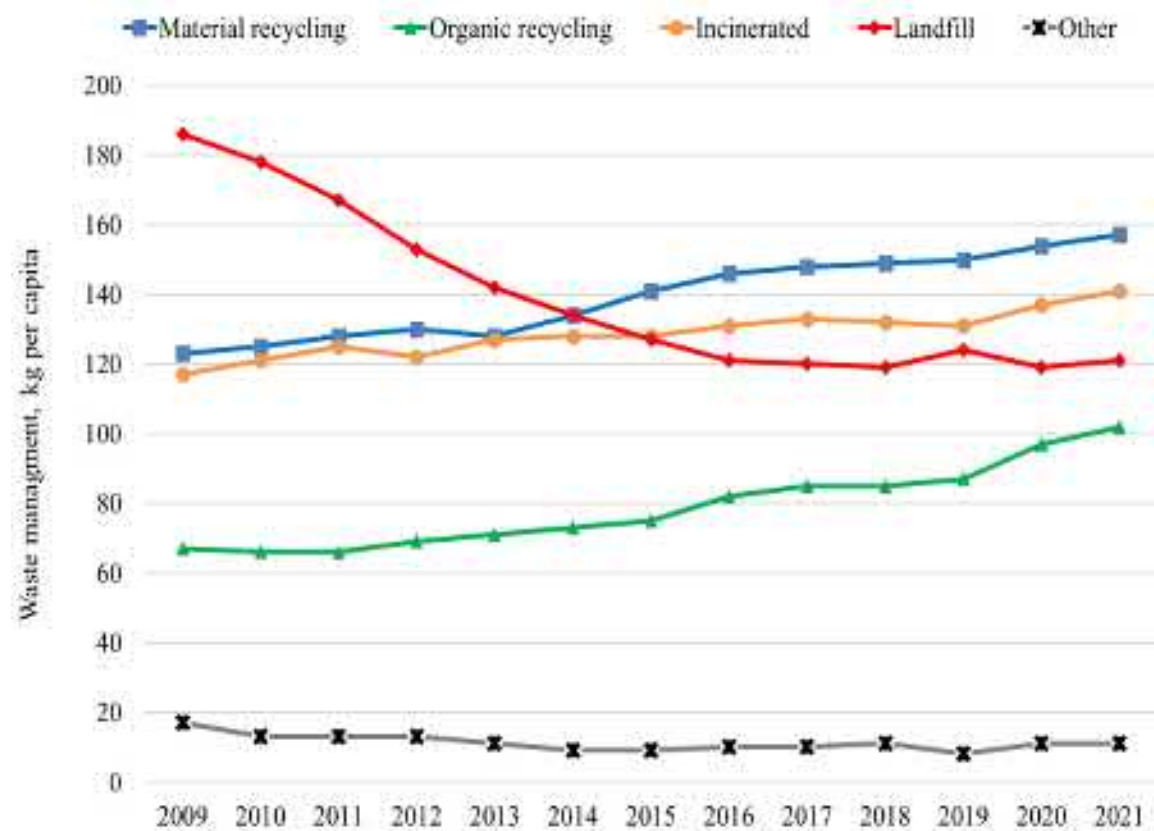


# Circular economy model



# Data set

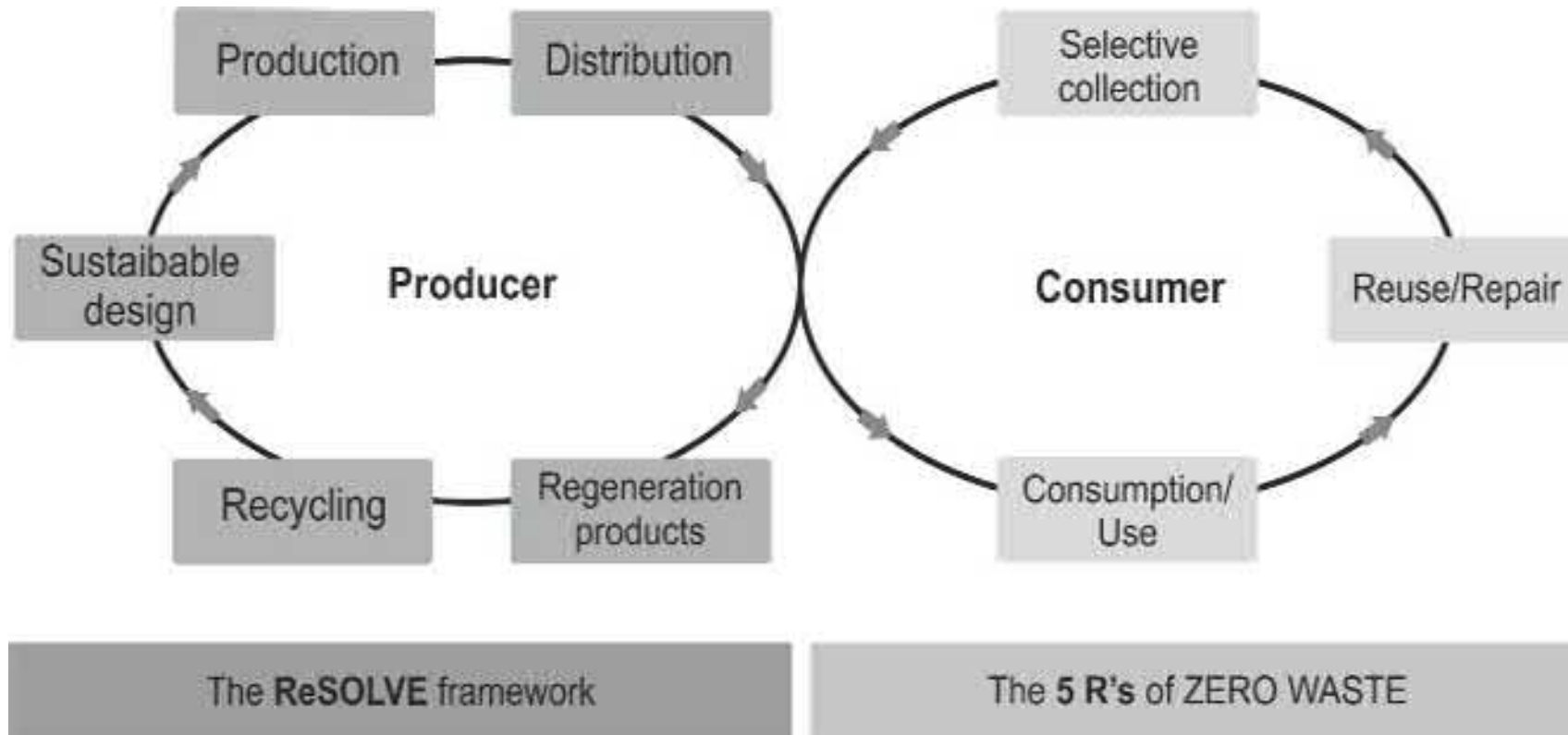
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# RATIONAL WASTE MANAGEMENT



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**Responsible consumer**





# Responsible consumer

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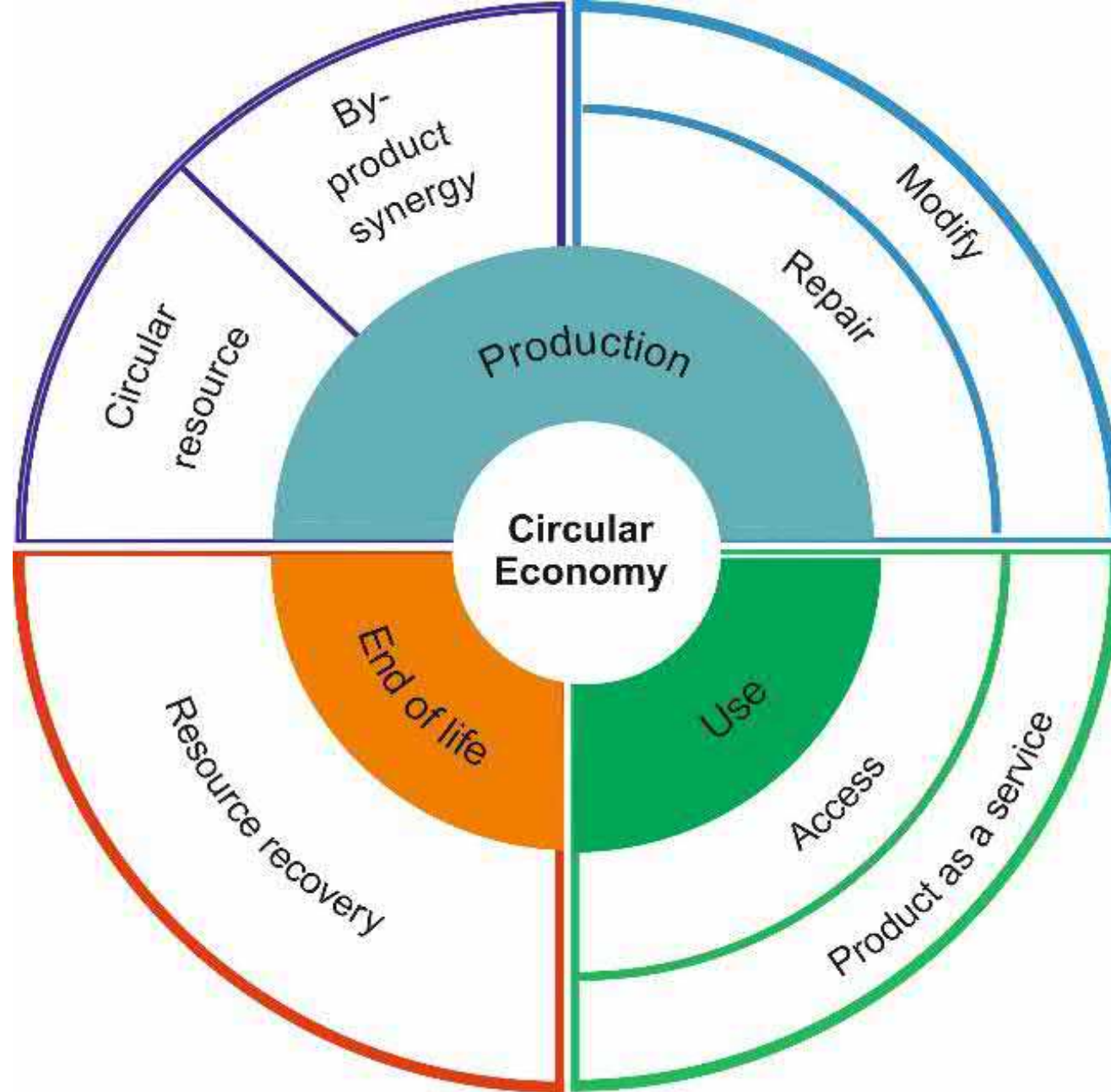
In  
everyday  
life

- Replace drinks in plastic bottles with refillable bidons or bottles with filters,
- Resign from credit card print-outs
- Resign from single-use packaging for fruits and vegetables,
- Go to work and the city centre by bicycle
- Use public transport instead of your car



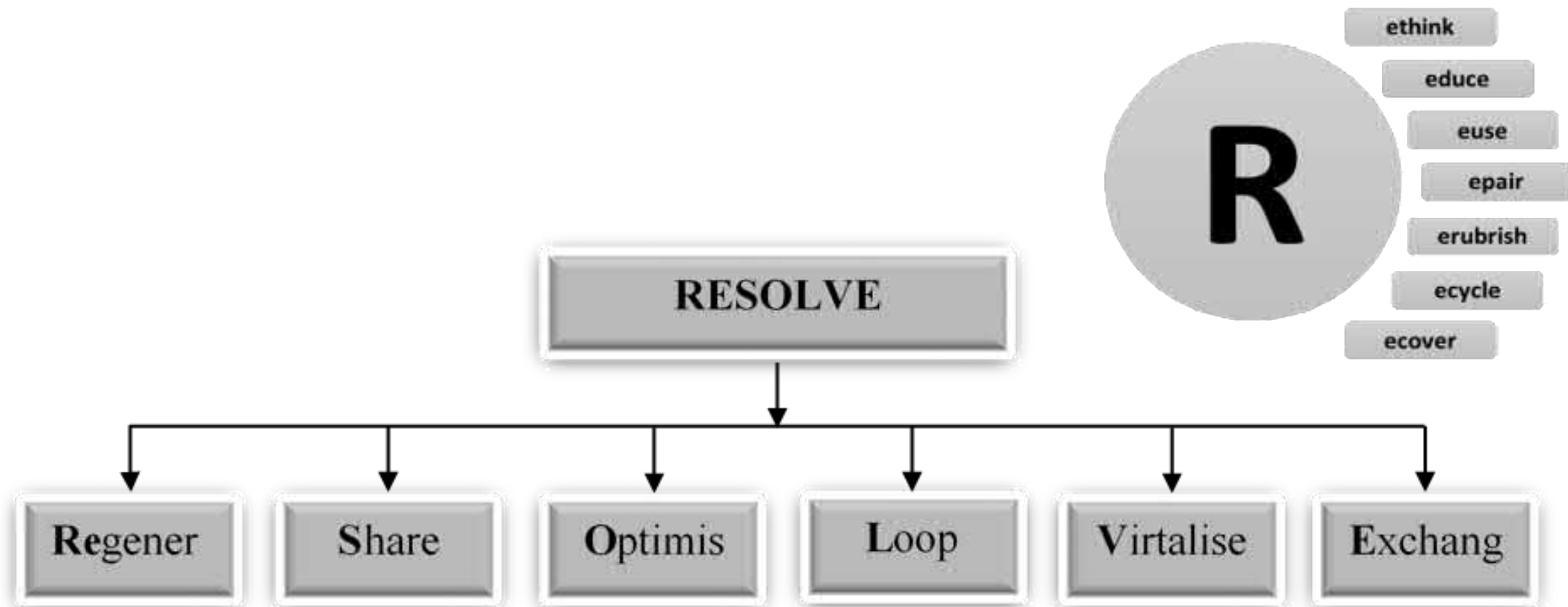
# Sustainable production





# Key business models in circular economy

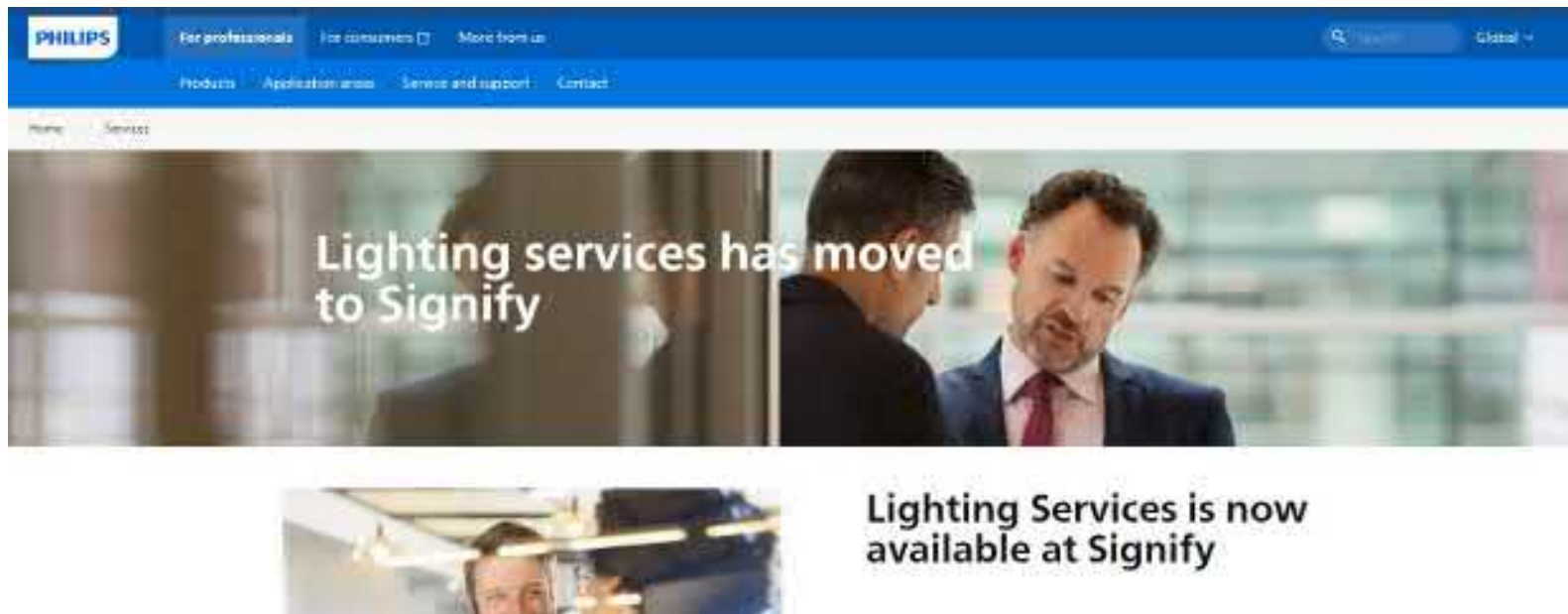
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# Life examples...

<b>Product as a Service</b>	<b>Philips company offers its customers LED lighting along with comprehensive service support. Customers do not have to invest in purchasing light bulbs, but instead receive a continuous and comprehensive lighting service.</b>	<b><a href="https://www.lighting.philips.pl/uslugi">https://www.lighting.philips.pl/uslugi</a></b>
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# Life examples...

## Repair

Patagonia company offers its customers services for repairing their products or returning them, and through an online platform, other customers can purchase used clothing at a lower price. This allows customers to extend the lifespan of garments, contributing to waste reduction.

<https://eu.patagonia.com/pl/en/stories/our-quest-for-circularity/story-96496.html>

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Make a message about Patagonia's quest for circularity. The idea was to create a line that never ended up in a landfill. Return, recycle and reuse every single polyester fiber. This was 2005, long before "zero waste" became a buzzword. It would be a rebuttal to the pre-industrial hunger for scale and speed that was inundating landfills with clothes most didn't need in the first place.

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Amy

Questions



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The others pictures are created by authors of the book chapter exclude logo of the project and company and prtscn's.

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