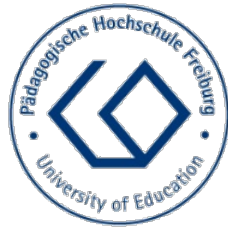


# New Strategies for Sustainable Textiles and Fashion in the European Market



Hochschule Reutlingen  
Reutlingen University



Co-funded by  
the European Union

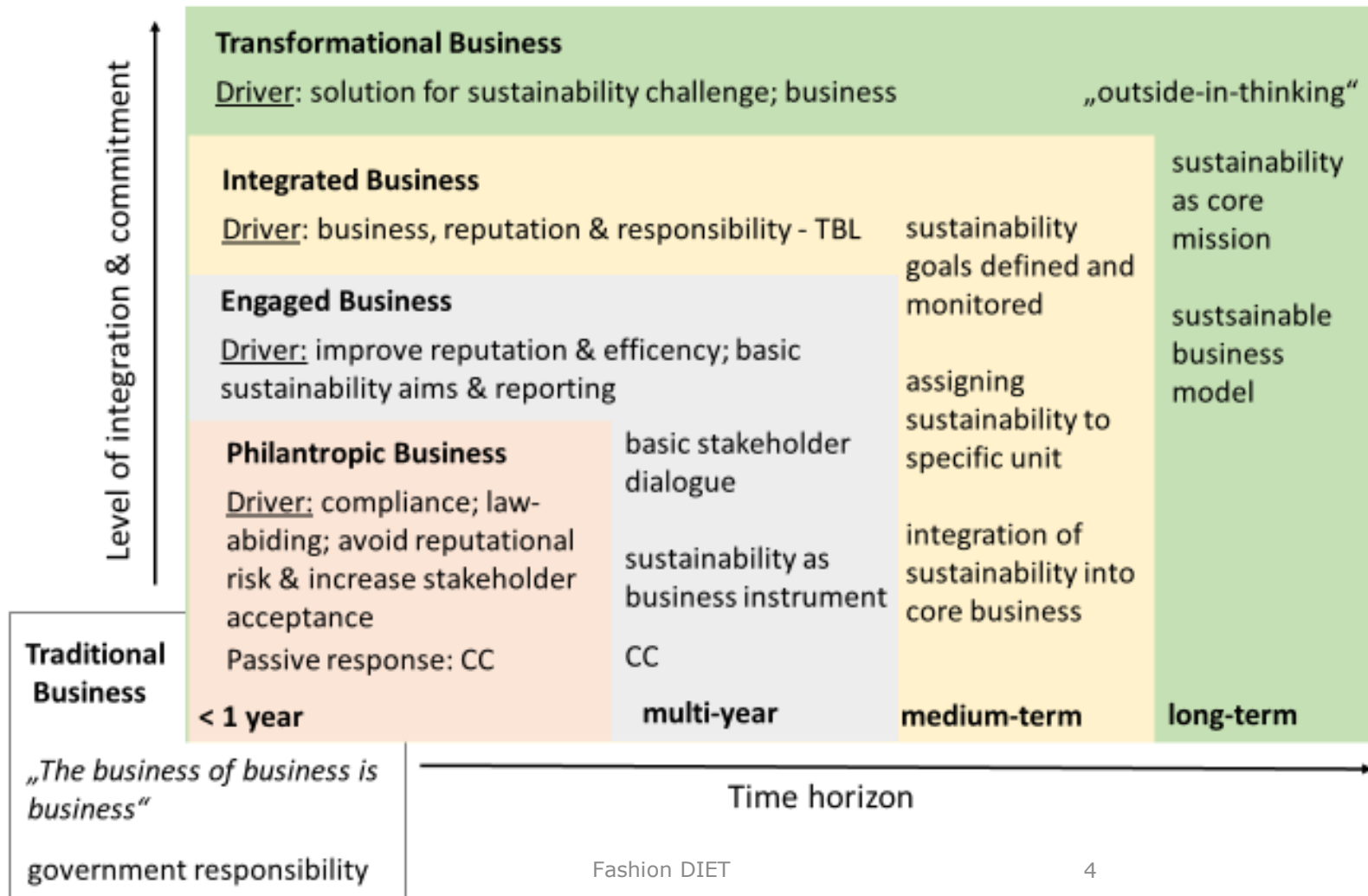
# Learning Objectives

After this lecture you should be able to:

- Differentiate the sustainability initiatives of companies
- Describe how companies can contribute to sustainability
- Explain the role that employees play for corporate sustainable development
- Outline the concept of Product-Service Systems (PSS)
- Explain different capabilities that are conducive to PSS implementation
- Describe what Circular Economy (CE) is and how CE initiatives can be implemented

# Stages of Corporate Sustainability (CS)

# Stages of Corporate Sustainability (CS)



# Traditional Business

- Economic model: only purpose of business is to increase its profits
- By doing so companies contribute to social welfare: creation of products or services that make our lives better, more efficient, healthier, safer etc. + creation of employment
- If companies focus on other issues (e.g. sustainability): competitors will replace them → unemployment + government spending increase
- Solving the sustainability problem is the responsibility of the government: make laws and regulation
- Within this regulative environment companies can freely operate and have no further responsibility but stick to laws

# Philanthropic Business

- Compliance-driven: organization sticks to existing laws and does not try to circumvent them
- Companies try to increase stakeholder acceptance and avoid reputational risks
- Corporate Citizenship such as sponsoring, donations, foundations and engagement within the (local) community
- The core business and how the company operates to achieve its economic goals is not affected by the measures

# Engaged Business

- Basic understanding and awareness of sustainability within the organization
- Basic sustainability reporting: company reports what it does (but not what it does not)
- Marketing and promotion of its sustainability initiatives and its sustainable products

# Engaged Business

- Sustainability as a means for the purpose of being economically successful:
- increase attractiveness as employer, differentiate from competitors, increase profit (because sustainable products can be sold at a higher price), sell more products (because sustainable products can be sold more easily)...



# Integrated Business

- Sustainability unit is anchored within the organization with the purpose to foster sustainability engagement
- Advanced sustainability reporting
- Triple Bottom Line implemented: ecological and social goals are defined (besides economic goals) → Problem: not possible to equally quantify and balance all three pillars
- Problem: often results in a lot of single measures that make the product more sustainable but the question remains open if the product is needed at all

# Transformational Business

- Change of perspective: from „inside-out-perspective“ towards „outside-in-perspective“
- Instead of producing any product and throwing it on the market, the company looks outside: observes what societal problems exist, what products are needed and tries to solve the problem
- Only products are created that are really needed

# Cornerstones of Corporate Sustainability



# Transparency, comprehensive communication, and disclosure of nonfinancial information

- External and internal communication to provide different stakeholders information on challenges, achievements, and the progress of the CS policy
- On a basic level: external communication through sustainability reporting in the form of a stand-alone sustainability report, or integrated into the annual report following standardized reporting and disclosure frameworks
- On a more advanced level: based on a two-way communication by inviting stakeholders to comment on critical aspects of the firm's business activities → improves identification with the company and generates trust

# Transparency, comprehensive communication, and disclosure of nonfinancial information

- Internal communication is essential for facilitating internal adoption of CS: Employees can only understand and commit to the firm's sustainability mission if the related strategies, objectives, and measures are communicated clearly and transparently
- For this purpose companies utilize different communication channels such as intranet, email, booklets, presentation, and direct communication between managers and employees

# Stakeholder dialogue

One of the most important cornerstones of corporate sustainability

- Understanding stakeholder expectations and integrating stakeholder interests into business consideration
- Stakeholders can be internal or external to an organization:
  - *Internal stakeholders* = people/groups with a direct relationship to the firm, such as employment, ownership, or investment
  - *External stakeholders* = people/groups who do not directly work with a company but are affected in different ways by the actions and outcomes of its operations such as suppliers, creditors, and public groups

# Stakeholder dialogue

- Companies face mutually exclusive demands and ambiguous expectations between different stakeholder groups: each company is involved with a wide range of heterogeneous stakeholders
- Participatory approaches facilitate managing interdependencies
- Shift away from one-way communication to an interactive dialogue that is based on mutual learning processes with feedback loops

# Stakeholder dialogue

- Examples: one-to-one dialogue, working groups, roundtables, conferences, web-based forums, social auditing, or collaborative projects
- Such approaches embrace close, long-term relationships and are compatible with the key competencies and the vision of a company



# Organizational learning

- Holistic CS is in accordance with the prevailing organizational norms, values, and beliefs
- Cannot be achieved overnight and requires working within a more long-term-oriented time horizon
- CS is considered as an evolutionary and circular activity: implies constant improvement of organizational learning capabilities to constantly react to environmental changes
  - companies with sophisticated CS have an implemented knowledge management system that facilitates developing, maintaining, transferring, applying, and measuring knowledge

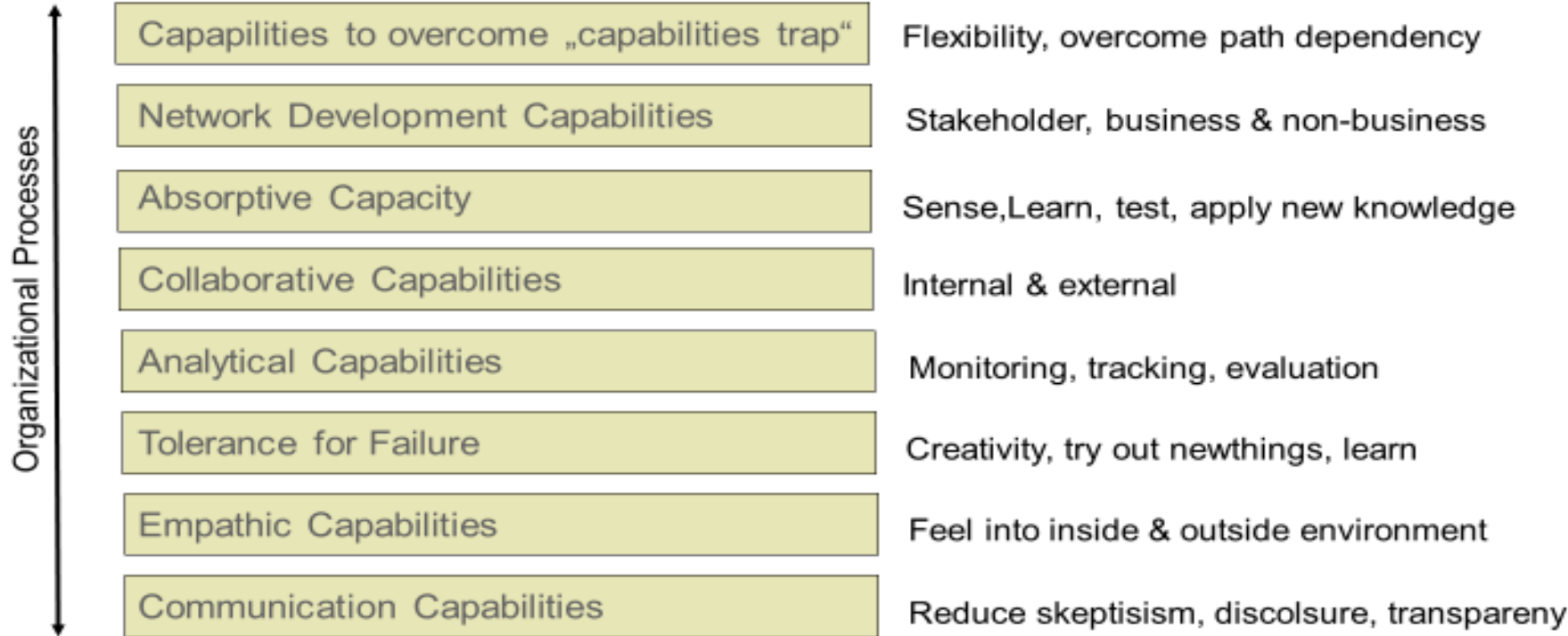
# Organizational learning

- Monetary and nonmonetary incentive system: links individual rewards with sustainability goals of an organization by rewarding employees and managers for good environmental behavior or sustainable initiatives
- Implies mature structures of personnel environmental training and the empowerment of employees to participate in sustainability problem-solving initiatives

# Key Capabilities for Corporate Sustainability



Organizational Structures



Trust, long-term, co-creation, loyalty

Prospect of success rests in individuals of the organization

# The Role of Employees in Corporate Sustainability Strategies



# Get Employees involved

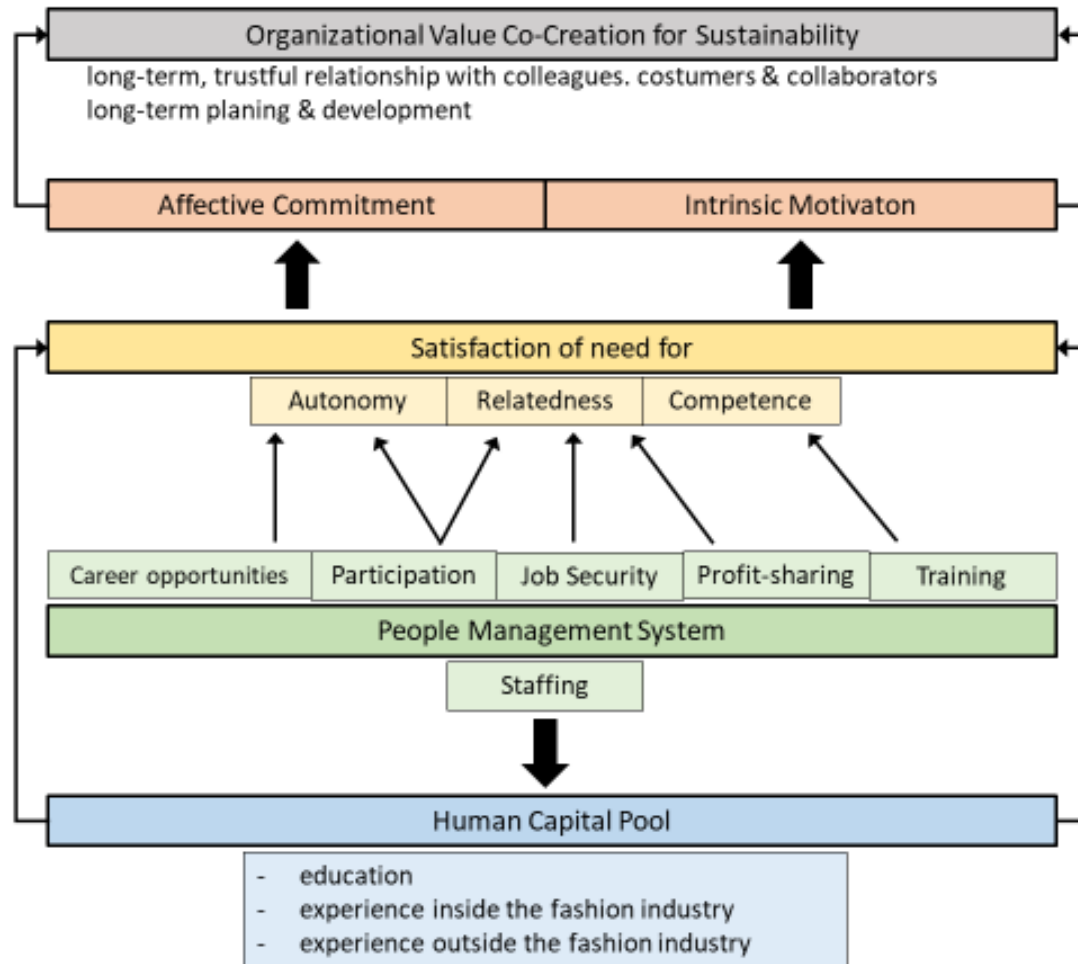
- Employees play decisive role for CS: A company cannot exist without employees: they need to support the CR directive and put it into actual practice
- Huge potential for CS lies in employees:
  - Many live a sustainable lifestyle in their private lives and like to transfer their way of living to their professional life
  - Many bring in a lot of education and experience that could and should be exploited
  - Employees are the major point of intersection between firm and customers and thus represent the firm`s values in the eye of the customer

# Employee Attitude Towards Sustainability

N=2763 employees / 102 fashion companies / 7 countries / 71,8% < 50 Mio EUR TO / May-August 2016 / online survey; Scale: 1=strongly disagree / 5=strongly agree

Question	Mean	SD
<i>Sustainability is important to me</i>	4.07	.68
<i>In my everyday life I live a sustainable lifestyle</i>	3.71	1.26
<i>I know a lot about sustainability</i>	3.28	1.01
<i>I want to learn more about sustainability</i>	4.22	.59
<i>Sustainability is important for the company I work for</i>	2.03	.98
<i>Sustainability is part of my daily tasks at work</i>	1.71	.76
<i>The company I work for should focus more on sustainability</i>	4.26	.83
<i>I would like to be involved into sustainability projects in the company I work for</i>	4.13	.92

# The role of human resource management (HRM) for CS



# Human Capital

- Comprises characteristics such as skills, education and experience possessed by an organization's individuals at a given time
- It can be aggregated to a unit-level resource that contains the accumulative individual human capital within teams, groups or the entire organization in a way that creates value for the firm
- This stock changes over time and needs to be aligned with the strategic orientation of a firm
- Compared to physical and financial capital, the uniqueness of human capital resides in the fact that employees cannot be separated from their personal skills, knowledge and capabilities



# Employee Commitment

- High level of human capital is not necessarily beneficial for the firm and CS → If not all members of the human capital pool engage in behavior that is beneficial for the firm, human resources are not efficiently deployed
- Regardless of their personal skills, employees take individual decisions on their behavior and commitment to the firm
- Commitment plays a significant role for organizational innovation
- Commitment can be separated into *affective commitment* and *continuance commitment*

# Affective commitment

- Employees with a strong affective commitment have an emotional bond with the organization and stay with it because they want to
- It is reflected in identification with the firm, pride to be part of the firm, and the desire and willingness to exert efforts so that the firm achieves its goals
- Employees develop affective commitment to a firm if associating with this particular firm allows them to satisfy their primary needs, provides prestige, responsibilities, challenges, and enables them to achieve their personal career goals

# Continuance commitment

- Refers to an employees propensity to stay with the firm because leaving the firm could entail a potential loss or costs for them
- Employees whose primary attachment to the firm is based on the need to stay, have little inducement to generate value for the firm
- Continuous commitment is, therefore, assumed to be negatively or unrelated to job performance
- Only employees who are emotionally attached to the firm will fully utilize their skills and exploit their potential

# People Management Systems

- The human capital pool is built and employee commitment is elicited through various Human Resource (HR) practices
- HR practices comprise of activities such as staffing, training, rewards, career opportunities, employment security, profit-sharing and participation

# People Management Systems

This bundle of practices can be referred to as the “people management system”:

- Combines human capital elements with employee behavior, and shapes elements beyond the control of HR functions, such as culture, competencies and attitudes
- Builds up the human capital pool and influences employees’ willingness to exploit their personal potential

# People Management Systems

- Firms that implement CS score high on people management systems
- Measures such as training, profit-sharing, participation, employment security and career opportunities contribute to nurture employees' intrinsic motivation
- The intrinsic motivation of employees has is a critical determinant for CS implementation

# Self-determination theory

- *Self-determination theory* (Deci & Ryan, 2008) proposes three universal and innate needs of individuals that are essential for psychological health and personal well-being: the need for autonomy, competence, and relatedness
- *Need for autonomy*: met if individuals perceive their behavior as freely chosen and volitional
- *Need for competence*: met if they feel skillful, effective and confident in the activities they perform
- *Need for relatedness*: met if individuals feel accepted, understood and socially attached to a wider system

Deci & Ryan (2008)

# Self-determination theory

- They are nutriments for intrinsic motivation and people will actualize their intrinsic motivation if those needs are satisfied
- To optimally nurture and elicit the intrinsic motivation of employees, firms should create a work environment that allows employees to satisfy those needs
- Firms that implement CS have adopted various HR practices for that purpose

Deci & Ryan (2008)



# Strategies & measures

## Satisfaction of the need for relatedness

- *Employee participation*: being involved in the decision making of the firm → ability to influence working conditions and contribute to the firm's success
- Indicates being significant to others and implies an experience of trust and recognition for the work performed

# Strategies & measures

## Satisfaction of the need for relatedness

- *Job security*: Employees that develop a mutual history with their organization, take on responsibility and suggest improvements without the fear of job loss
- *Profit-sharing*: makes employees more aware of the firm's interests and promotes the perception of shared values → strengthens the bond between employees and organization

# Strategies & measures

## Satisfaction of the need for competence

- *Training*: ability to further improve personal competences makes employees feel more secure in terms of employability and their future career → increases their confidence to apply their skills and proactively engage in new challenges
- Feeling of being important and taken care of by their organization

# Strategies & measures

## **Satisfaction of the need for autonomy**

- Satisfied if employees experience their work as fulfilling + perceive the tasks they perform as meaningful, exciting and personally interesting → feeling of not being controlled/pressured; high degree of freedom of choice
- *Extensive training opportunities + participation* foster autonomy → employees become capable and empowered to independently make decisions and assume responsibility

# Strategies & measures

## **Satisfaction of the need for autonomy**

- *Internal career opportunities*: specific interests of individual employees are taken into consideration when job vacancies need to be filled
- Allows employees to freely decide on their future career path → enables them to put their effort into quality initiatives rather than concerns about their career

# Product-Service Systems (PSS)

Instead of selling solely tangible products PSS focus on **fulfilling final customer needs** through offering complementary service elements

→ Products alone not valuable - serve as vehicle to address customer needs. Companies only offer value propositions - value creation occurs as co-creation in networks

## **Benefits for the environment**

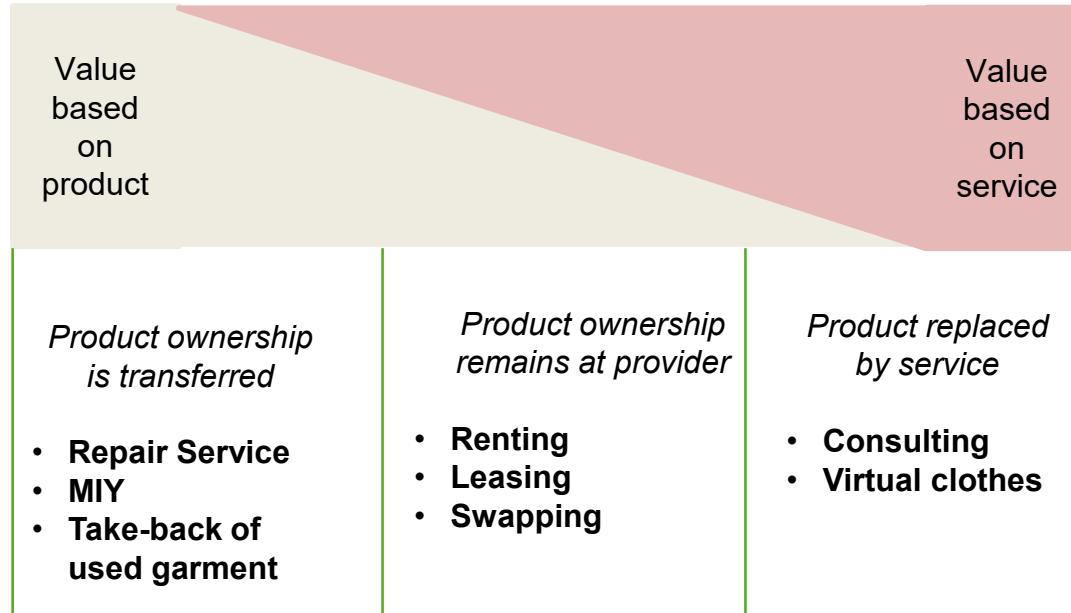
Customer satisfaction decoupled from material consumption

→ fewer material resource input is required for corporate value creation

## **Benefits for companies** (especially in high competitive industries)

- differentiation
- compete with cost pressure
- mitigate risk of being imitated by rivals
- enhance customer relationships

# PSS in the range between pure products and pure services



Tukker, 2004; Tukker & Tischner, 2006; Baines et al. 2007

→ PSS contradict the traditional, linear fashion business model: Implementation requires new distribution channels, revenue streams, logistics and expertise

# PSS Types

## 1. Product-oriented

- Products are sold in a traditional manner but supplemented by extra services, such as after-sales services, that ensure long-term functionality (e.g., maintenance and repair services) or optimized application of the product (e.g., training and consulting)
- Customer satisfaction is still gained by ownership but enhanced by the convenient feeling of possessing an enriched product



# Examples Product-oriented PSS

## Repair

Levi's or Patagonia's repair initiatives are among the first and most popular examples of product-oriented PSS on a large scale.

- Repair or redesign offers intensify the use and extend the garment's lifespan
- Particularly in the outdoor segment, repair services are gaining more and more attention.

# Examples Product-oriented PSS

## Take-back schemes

- Allow customers to bring their used garments to the retailer and receive a voucher or discount per donated bag
- Received clothes are not disposed but passed into a close loop system to be sorted, reused and recycled
- Take-back of used clothes has recently gained a certain popularity when it was introduced by large retailers like H&M or C&A

# Examples Product-oriented PSS

## **Make-it-yourself concept**

- Among others, sportswear manufacturers like Nike, Adidas, New Balance and Reebok have launched initiatives that allow customers the opportunity to create and personalize their individual sneaker
- Customers develop an emotional bond with the fashion item and are less likely to dispose it soon.

# PSS Types

## 2. Use-oriented

- The use or functionality of a product is sold while the ownership of the product remains at the company that offers
- Thus, customer satisfaction is achieved through appreciating the inherent function of a product rather than through its physical possession
- Frequently cited examples are sharing or renting programs

# Examples use-oriented PSS

- Offers to **rent apparel** or
- **Platform that allows customers to swap clothes**
- **Fashion libraries** (increasingly in city centers)
- **Online platforms** where consumers can rent particular fashion items for a special occasion

# Examples use-oriented PSS

- Instead of purchasing new apparel, consumers share already existing fashion items → Hence, the effective use of the garment is intensified
- This is especially successful for garments that are rarely worn like bridal wear or skiwear, or for babies who periodically outgrow their clothes
- Examples also embrace luxury and premium products: “Rent the Runway” has led the way and with “Prêt-à-Louer”, “Dresscoded”, “Chic by Choice” and “Le Tote”, other global firms are successful with offers to rent premium and luxury clothes

# PSS Types

## 3. Result-oriented

- The company sells a result, a capability, or a competency that underlies a product while the respective product still remains the property of the company
- Examples may be selling laundered clothes (instead of a washing machine), web services (instead of a dictionary), or transportation (instead of a bus)

# Capabilities & Strategies to implement PSS

## **Network development capability**

- ability to develop and utilize relationships with entities outside the firm
- sharing ideas
- openness for improvement suggestions from external parties
- discussing and reflecting ideas with close social contacts
- conveying enthusiasm for the idea to close contacts

Adam et al. (2018), p.55



# Capabilities & Strategies to implement PSS

## Network governance capability

- establishing contacts with fashion bloggers, artist, consultants, designers etc. to learn about the feasibility of the idea
- relational skills to build up high-trust and amicable relationships
- initial contacts through face-to-face meetings
- asking openly and directly for advices, illustrating their idea in greater details and explaining the reason for the visit
- exchange with competitors
- uncomplicated straightforward demeanor

# Capabilities & Strategies to implement PSS

## Empathic capabilities

- empathically observing consumers: deep understanding of customers' specific feelings, every day practices, desires, lifestyles
- exchanging with consumers on a personal and amicable basis
- encouraging consumers to disclose personal feelings and behavior
- creating a relaxed atmosphere - make customers feel comfortable
- sharing similar values, needs and problems with customers
- evaluating and incorporating gained knowledge on customers

Adam et al. (2018), p.55

# Capabilities & Strategies to implement PSS

## Ability to collaborate

- delegating specific tasks to third parties: focusing on core competencies
- efficiently coordinating partnerships to obtain and assemble resources
- purposefully selecting required partners required and establishing reliable and long-term cooperations
- repeatedly working together on informal relationships with little bureaucratic administration and implicit, open-ended contracts
- creating trust

Adam et al. (2018), p.55

# Capabilities & Strategies to implement PSS

## Customer-focused communication

- finding the right words and ways to address skepticism
- quickness, ability to interact promptly
- reducing uncertainties: presenting motives, liabilities and benefits transparently
- establishing and maintaining reciprocal lines of communication

# Capabilities & Strategies to implement PSS

## Customer integration capabilities

- understanding existing consumer habits, influential factors of consumer satisfaction, major barriers for adopting novel solutions
- close supplier-customer interaction; early involvement of customers
- continually seeking customer feedback: customer interaction as a natural and every day task.
- absorbing, systematically evaluating and testing customer feedback for feasibility
- relaxed and open-minded interaction with customers to gain honest feedback

Adam et al. (2018), p.55

# Capabilities & Strategies to implement PSS

## Network Learning Capabilities

- creating new knowledge from external networks and sharing information
- accepting knowledge spillovers
- acquisition of knowledge through collaboration with universities

# Capabilities & Strategies to implement PSS

## Governance and Orchestrating of PSS

- maintaining flat hierarchies to remain flexible
- corporate culture based on a shared open-minded and passionate mindset
- client-focused learning capabilities
- episodic learning capabilities
- ability to unlearn familiar routines
- long-term orientation and promoting responsible fashion consumption

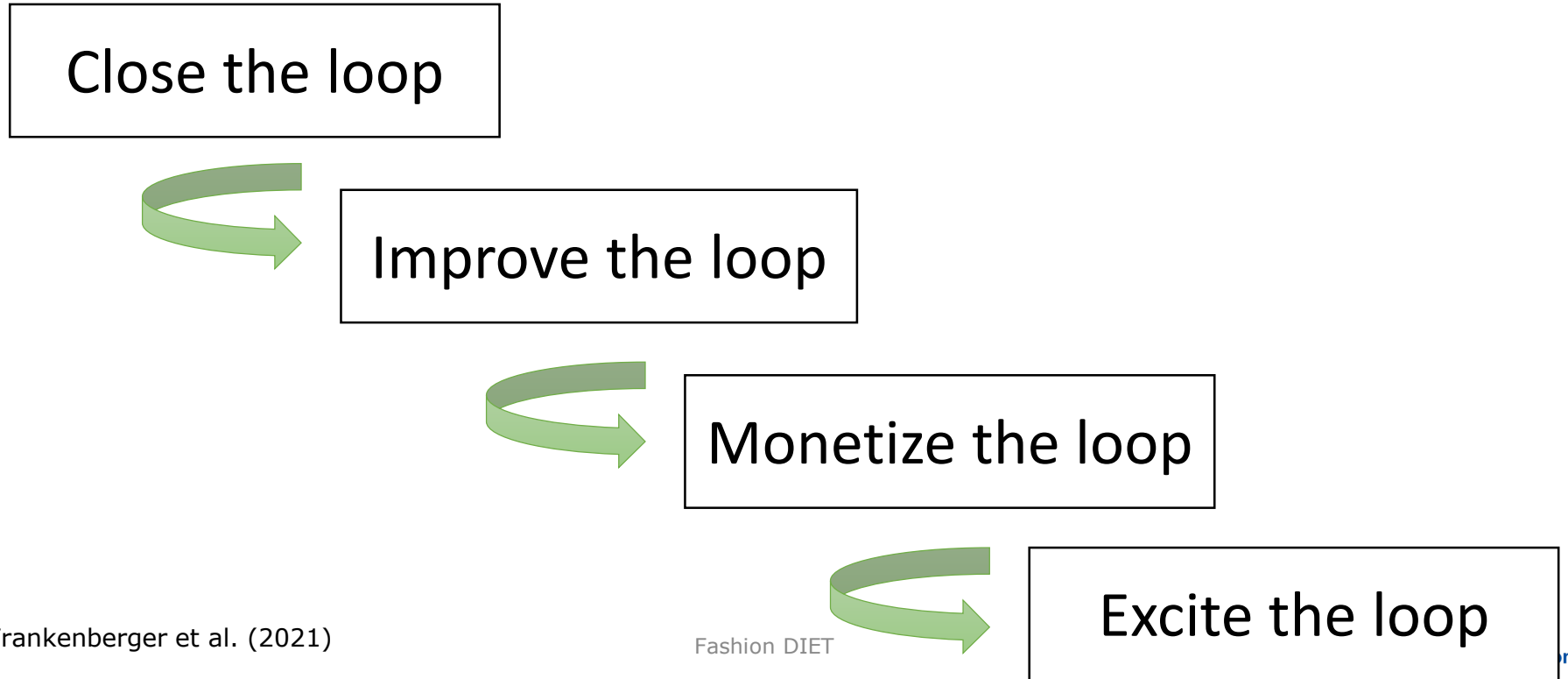
Adam et al. (2018), p.55

# Strategies towards a Circular Economy (CE)





# Four main steps companies can follow to implement a CE approach



# Step 1: Close the Loop

The loop can be closed by direct reuse of products, by part-reuse measures such as refurbishment or traditional recycling, or through biodegradability:

## **Use an intelligent product design**

- Modularity, reversible connection techniques, and the avoidance of mixed materials: simplifies assembly and disassembly and helps to recover the product at the end of life

# Step 1: Close the Loop

- Requires close collaboration with all partners along the circular value chain, as it is unlikely and often inefficient for a single firm to realize all the different activities (production, take back, disassembly, etc.) on its own

## **Collaborate closely with partners**

- Companies are not used to interacting with all the companies in the loop, but have rather focused on direct supplier or customer relationships

## Step 2: Improve the Loop

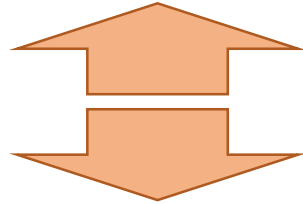
Reducing the amount of resources and slowing down the flow of resources in the loop

- includes patterns like reparability, local production, and the use of renewable energies
- Firms need to dive deep into their own, as well as their partners', production processes and customer activities to understand the ecological footprint along the entire loop.

## Step 2: Improve the Loop

This holistic view results in trade-off decisions, which are often not easy to make:

- The choice of a specific material might reduce the environmental footprint of your company



- It might increase the technical complexity and costs of another company in the ecosystem

→ Technology such as RFID can help.

# Step 3: Monetize the Loop

How to capture the value of the circular product?

Key challenges:

- Firms need to break the dominant logic in the industry and develop a radically new revenue model
- Firms need to invest enough time in the creation of the revenue model
- Many companies put a lot of effort in the development of technologies, products, and processes

## Step 3: Monetize the Loop

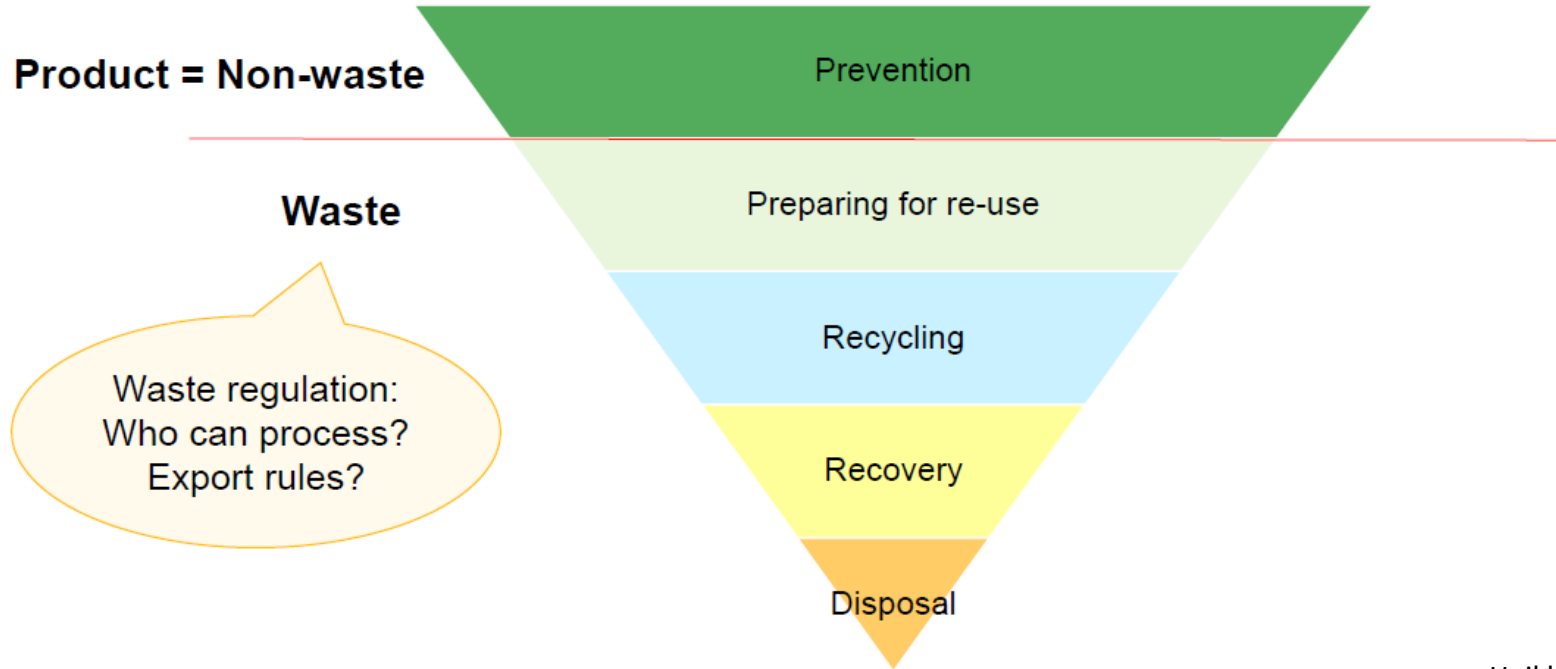
- ! BUT: companies often forget the development of the right revenue model
  - Even the best circular product is of no value if the revenue model is not attractive for the customer
  - e.g. performance-based contracting revenue model: customers only pay for the performance of a product but not for the product itself

## Step 4: Excite the Loop

- Create attractive value propositions which go beyond the fact that the product is circular
  - e.g. experience selling can lead to higher customer demand
  - how can a company create additional value for its customers by offering not only the product but an entire experience with its product?

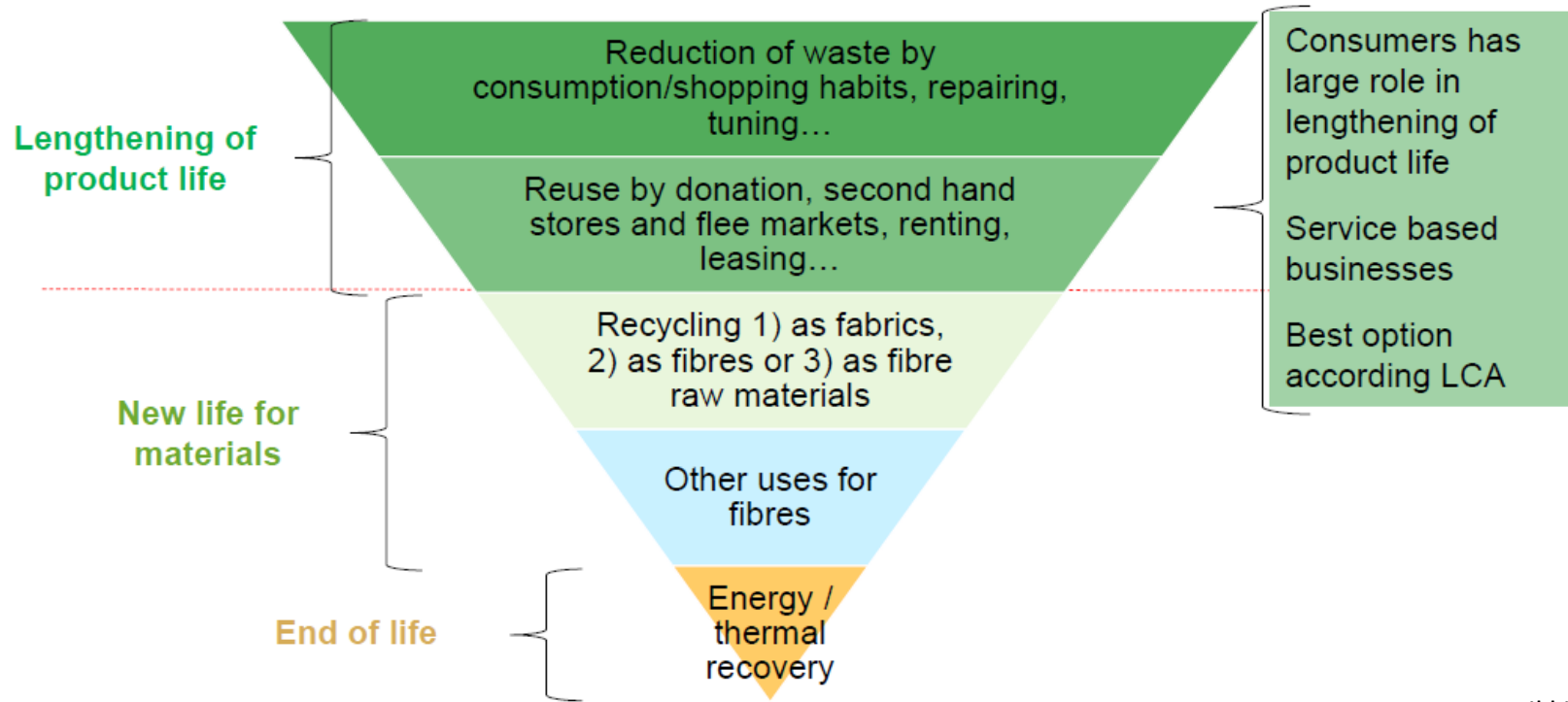


# Waste Hierarchy



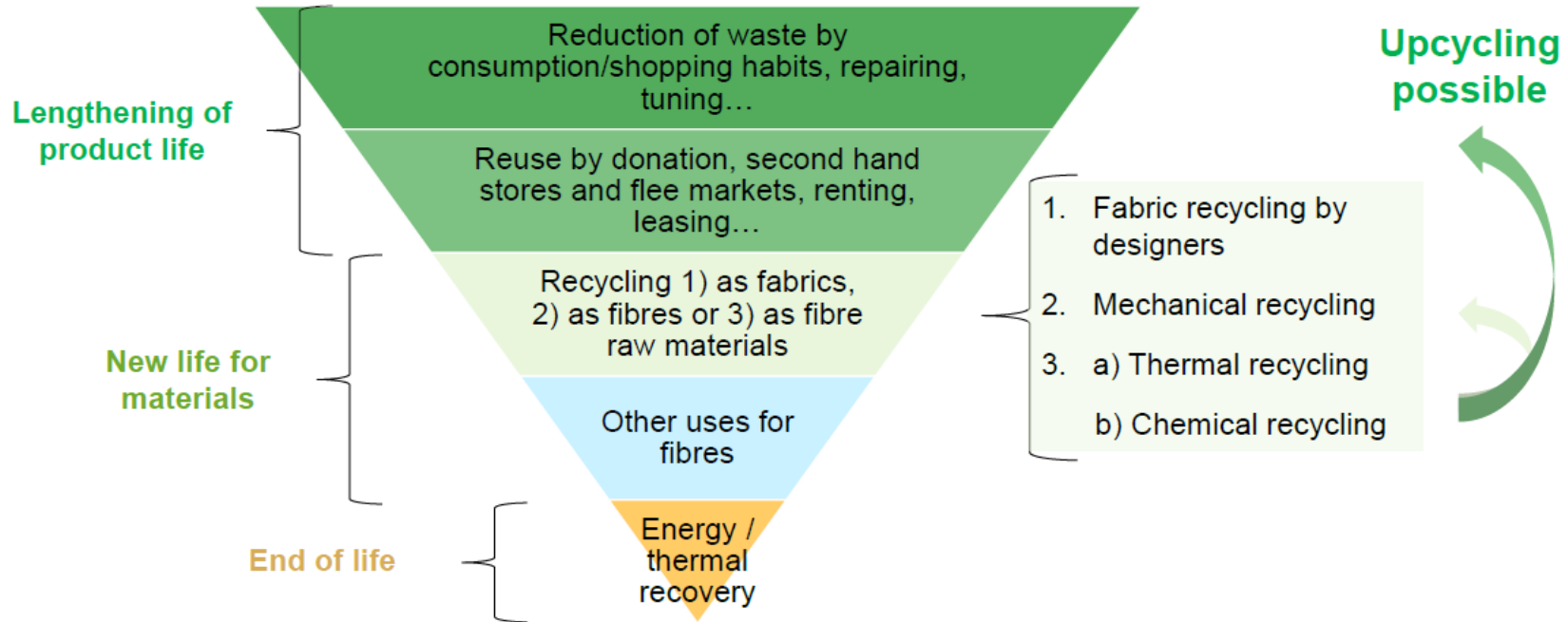
Heikkilä, P. (2018), p.8

# Adopted Waste Hierarchy and Textiles



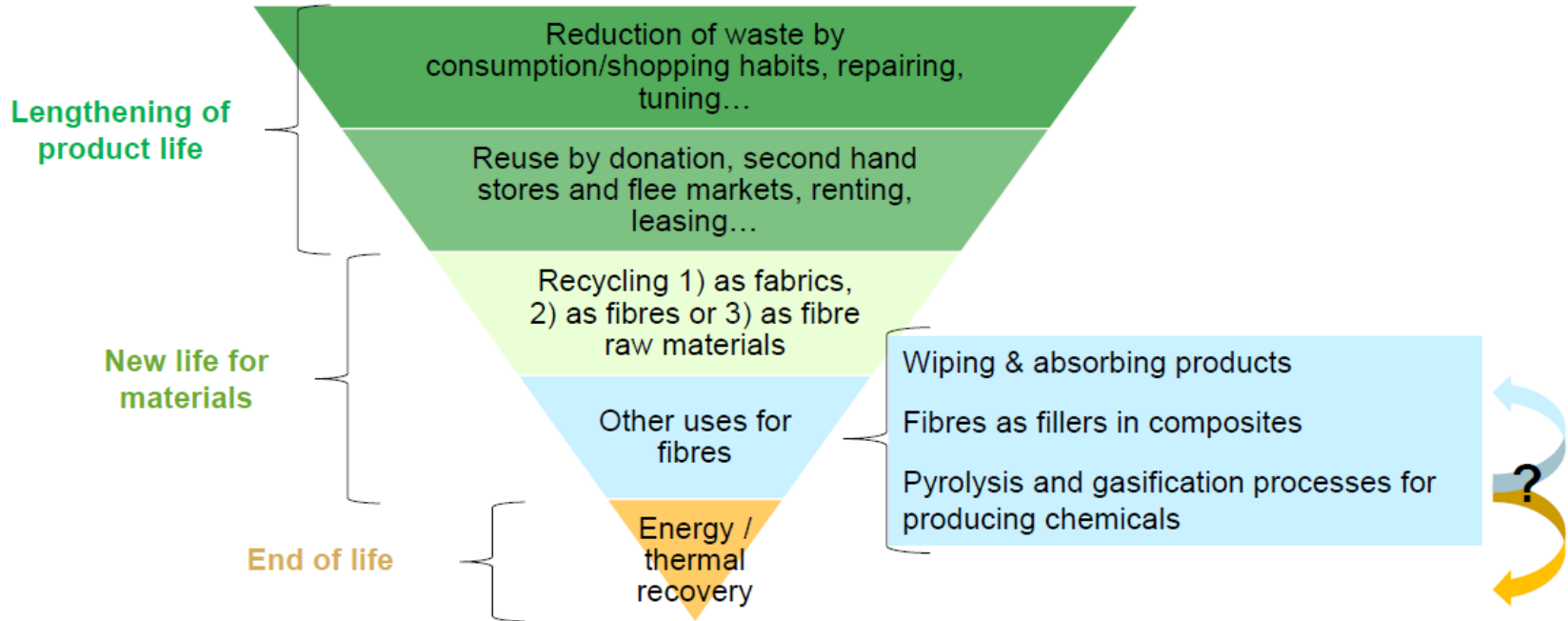
Heikkilä, P. (2018), p.9

# Adopted Waste Hierarchy and Textiles



Heikkilä, P. (2018), p.10

# Adopted Waste Hierarchy and Textiles



Heikkilä, P. (2018), p.11

# Towards Circular Economy

- Textile reuse loops should be strengthened
  - business opportunities for forerunner companies
- Brands are interested in more sustainable/recycled materials, but supply still limited
- Rising consumer awareness helps in creation and increase of markets
- Multidisciplinary skills needed: digitalization and service based business models essential

# Towards Circular Economy

- Missing pieces of the value chain needs to be developed: Collecting system; sorting system; Upscaling of recycling technologies
- Regulation needs to be updated (waste, chemical, etc.)
- Public incentives and financial support could fasten transition to circular economy, and the building of new ecosystems

# The Future Sustainable Company



Let`s work!

How can *the* sustainable company in the future look like?

Discuss different attributes, behaviour, values and norms...



# Future: The ~~sustainable~~ company.....

...operates in a responsible capital market

...is embedded in a society with new norms and values

- ...does not understand economic growth as only success
- ...produces less
- ...makes less profit (new work schemes & salaries gaps)
- ...is humble ... but not complacent (tap into new ideas/technologies)
- ...solves societal problems
- ...satisfies basic needs
- ...is fully transparent and controllable
- ...empowers employees (control mechanism and innovative force)
- ...is coupled with a variety of external entities
- ...is diverse (different perspectives)

...is embedded in a equal society

...is embedded in a political system that globally enforces rigid sustainability laws

# Contact

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