

Value-Chain and Hidden Landscapes

Content development led by Gdańsk University of Technology & HfWU Nürtingen-Geislingen

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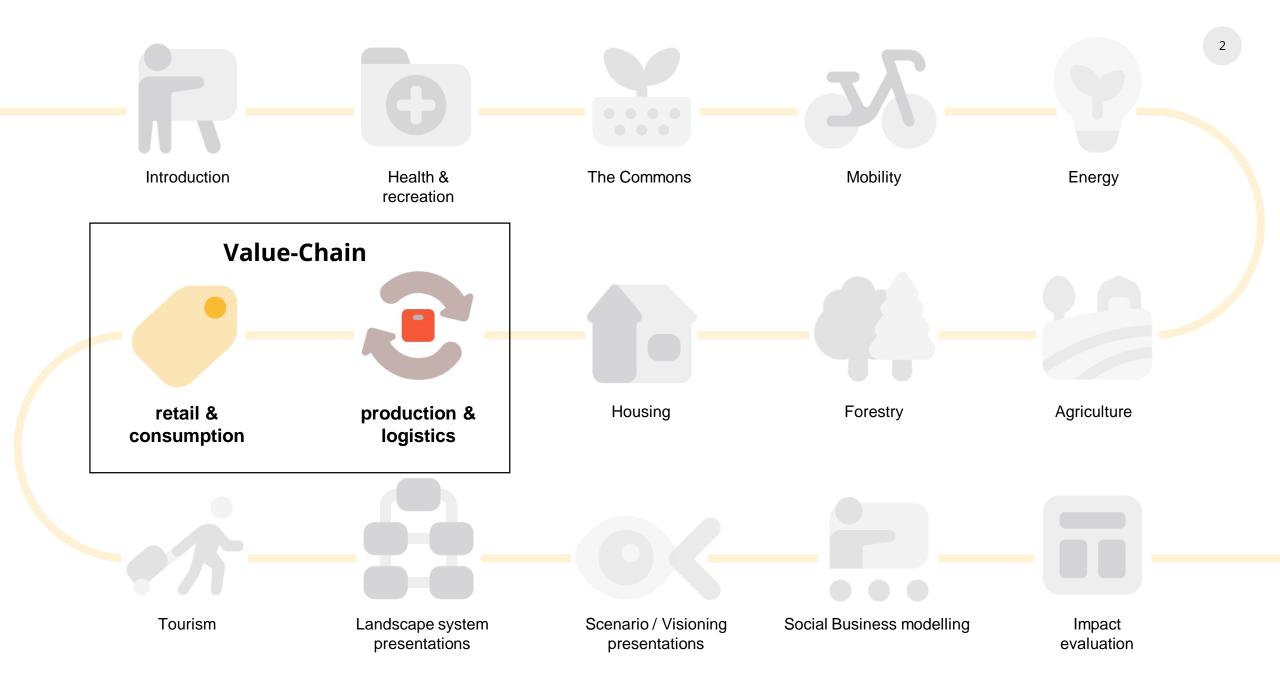




ULB Faculté d'Architecture La Cambre Ho



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Key Concepts

- 1. hidden landscapes
- 2. value added chain
- 3. attitude behavioural gap and barriers of sustainable consumption
- 4. shareholder value vs. stakeholder value
- 5. impact investing / social entrepreneurship
- 6. economic policy
- 7. strategies: efficiency, sufficiency, consistency
- 8. circular economy

Agenda

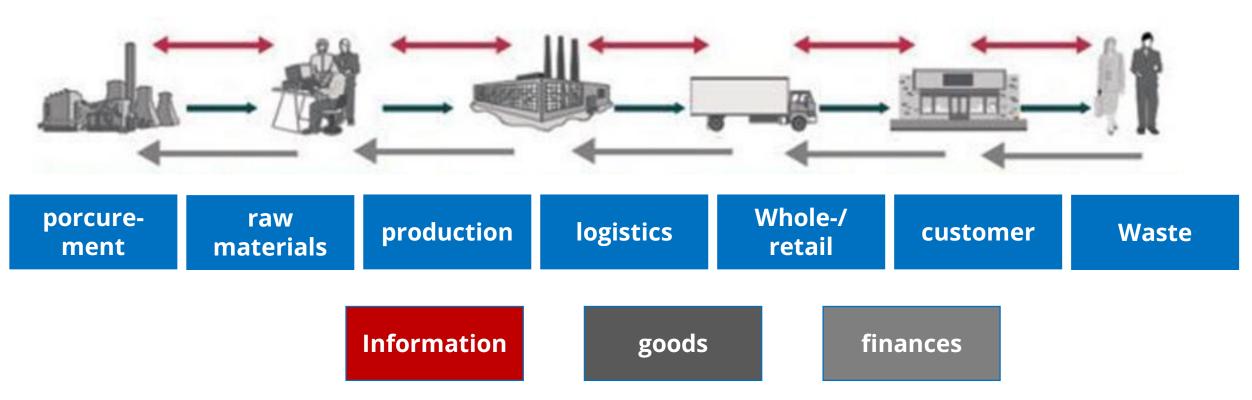
75	lecture one: underdstanding "Hidden Landscapes"	who	
10	concept of value added chain (VAC)	Karolina	
5	sustainability impact	Dirk Dirk / Karolina	
15	transformation of textile landscapes		
15	case Stude "LPP - GDAŃSK, POLAND"	Karolina Karolina	
30	exercise for students		
15	break		
75	lecture two: system change and evaluation	who	
40	system change & impact evaluation	Dirk	
5	scenarios of future transformation of landscape	Karolina	
30	exercise for students	Dirk	

The Concept of the "Value Added Chain"



Classical Supply Chain Management

Supply chain management encompasses the planning and management of all activities involved in sourcing and procurement, conversion, and all logistics management activities. Importantly, it also includes coordination and collaboration with channel partners, which can be suppliers, intermediaries, third party service providers, and customers. In essence, supply chain management **integrates supply and demand management** within and across companies. (CSCMP Glossary, 2023)



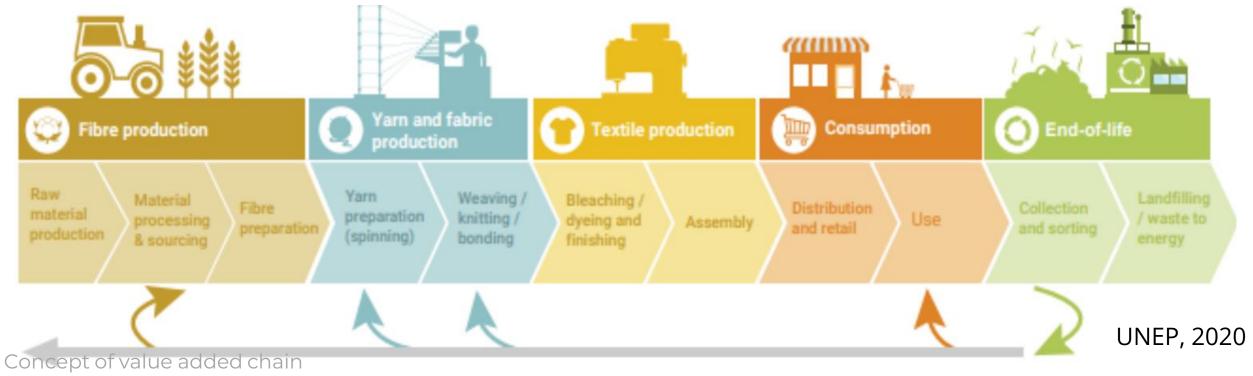
Concept of value added chain

Value Added Chain (example: textile industry)

Added value is an increase in the value of a resource, product, or service as the result of a particular process. (Cambridge Dictionary (<u>https://dictionary.cambridge.org/dictionary/english/added-value</u>, 2023)

Value chain is the series of stages involved in producing a product or service that is sold to consumers, with each stage adding to the value to the product or service (Cambridge Dictionary (https://dictionary.cambridge.org/dictionary/english/value-chain, 2023)

Industry is a group of productive enterprises or organizations that produce or supply goods, services, or sources of income (Encyclopaedia Britannica, <u>https://www.britannica.com/technology/industry</u>, Oct 21, 2022)



Types of industry

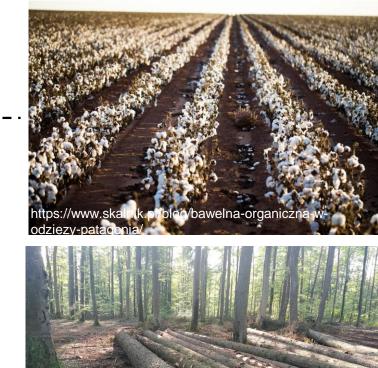


1. Primary

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- genetic industry agriculture,-
 - forestry,
 - fishing, livestock management -
- extractive industry mining, quarrying, and the extraction of minerals

(Encyclopaedia Britannica, https://www.britannica.com/technology/industry, Oct 21, 2022)





Concept of value added chain

Types of industry

2. Secondary (manufacturing industry)

- **Heavy** (large-scale) petroleum refining, steel and iron manufacturing (metalwork), motor vehicle and heavy machinery manufacture, cement production, nonferrous metal refining, meat-packing, and hydroelectric power generation.
- Light (small-scale) textile work, clothing manufacture, _ _ food processing, plastics manufacture, electronics, computer hardware manufacture, precision instrument manufacture, gemstone cutting, craft work.

(Encyclopaedia Britannica, <u>https://www.britannica.com/technology/industry</u>, Oct 21, 2022)

Concept of value added chain







Types of industry



3. Tertiary industry (service industry)

retail, resale trade; banking, finance, insurance, investmentreal estate services; professional, consulting, legal, and personal services; tourism, hotels, restaurants, entertainment; repair and maintenance services; health, social welfare, administrative, police, security, defense services, wholesale, transportation;.

(Encyclopaedia Britannica, <u>https://www.britannica.com/technology/industry</u>, Oct 21, 2022)









4. Quaternary industry information systems and information technology (IT); research and development, including technological development and scientific research; financial and strategic analysis and consulting; media and communications technologies and services; and education, including teaching and educational technologies and services.

(Encyclopaedia Britannica, https://www.britannica.com/technol ogy/industry, Oct 21, 2022)

Concept of value added chain Fashion campus of LPP in Gdańsk

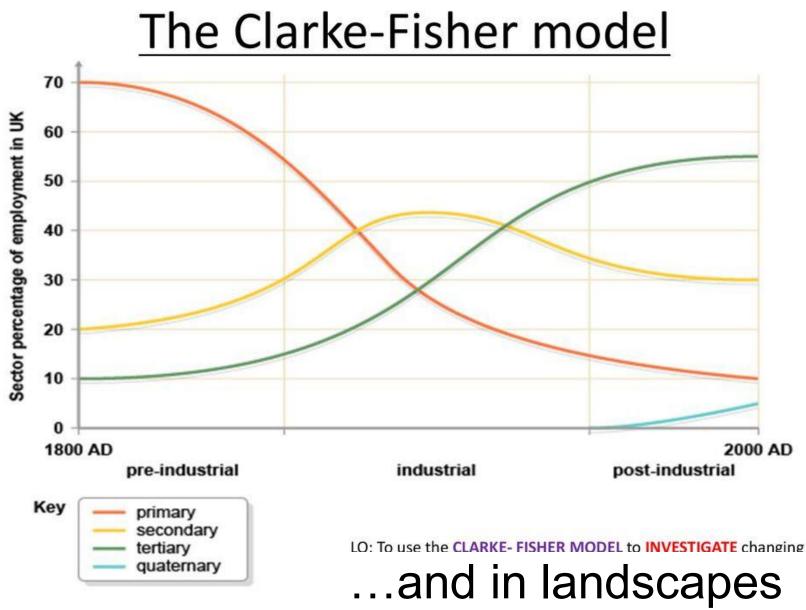
Research and development campuses working on new and recycled fibres

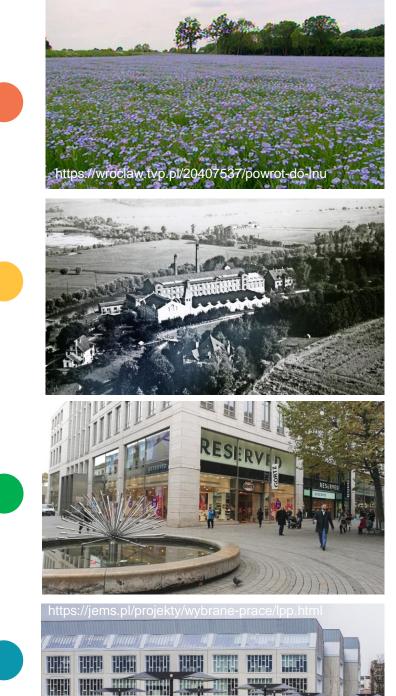
LUNE

Fashion design campuses



Changes in employment structure





Concept of value added chain

Sustainability Impact of (fast fashion) Value Added Chain



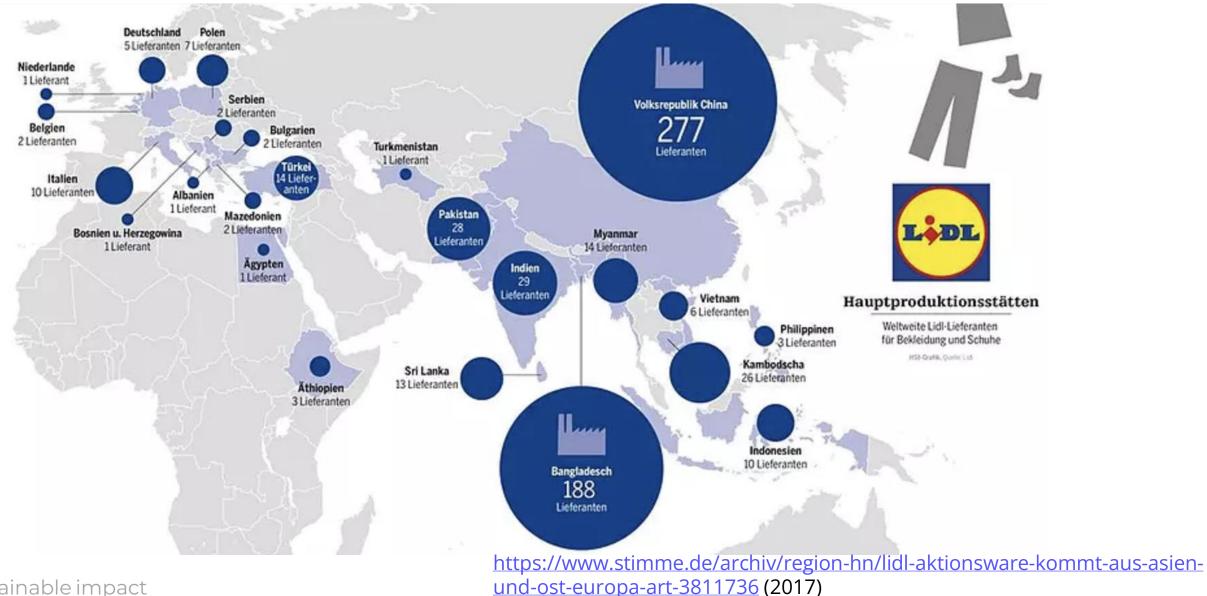
21st century: Logistics 15,172 km for a tshirt



sustainable impact

https://smallbizclub.com/run-and-grow/operations/products-supply-chain-hits-countries-realize/; retrieved 25.05.2022

About 650 supplier for promotional goods (textile and shoes) from Lidl



sustainable impact

Impact of (fast) fashion value added chain

können in der Textilherstellung

eingesetzt werden

den Baumwollanbau

Fast Fashion: Von schmutziger Produktion über Trend zu Müll Kohlekraftwerke, liefern Energie Fabriken, in denen Bekleidung Gebrauchte Kleidung in Altkleiderballen Fast Fashion Geschäfte für die Textilherstellung hergestellt wird Bearbeitung für die Verschiffung Fertige Textilien, verpackt und bereit zum Versand Containerschiffe, exportieren Kleidung zu Fast Fashion Geschäften in die Fast Fashion Märkte Extraktion und Raffination von Erdöl für die Herstellung synthetischer Fasern 1 10 Konsumenten, die Fast Fashion kaufen. Für den Anbau konventioneller Textilfabriken verbrauchen beim Über 70 gesundheits- und Verschmutzung von Gewässern Aussortierte Kleidung, die in Ballen gepresst wird Sammeln von Fast Fashion für den Export. Baumwolle werden große Spinnen von Fasern und zur umweltgefährdende Chemikalien durch die Textilindustrie und Jeder Deutsche kauft im Durschnitt Im Jahr 2014 sind 4,3 Millionen Tonnen

Source: https://www.krone.at/2562900#fb-10555-9159cb8b; 01.10.2023

60 neue Kleidungsstücke pro Jahr.

Altkleider gehandelt worden.

sustainable impact

Mengen an Pestiziden und

Düngern eingesetzt

Herstellung von Stoffen große

Mengen Energie und Chemikalien

Ecological and social impact of the textile industry 1



sustainable impact

8-10 % of global greenhouse gas emissions ²

17 to 20 percent of the world's industrial wastewater in textile finishing

approx. 1/3 of the world's microplastic comes from synthetic clothing

approx. 4.5 million tn. clothes end up in landfills in Europe per year

approx. 200 million predominantly women work in the textile industry, often under undignified conditions, without union protection and for wages that do not guarantee their livelihoods ³



19

For every kilo of textiles that less is bought new, we save in the global value chain ⁴

- 26 kg raw materials
- 600 l of water
- 27 sqm land consumption
- 18 kg CO₂ equivalents

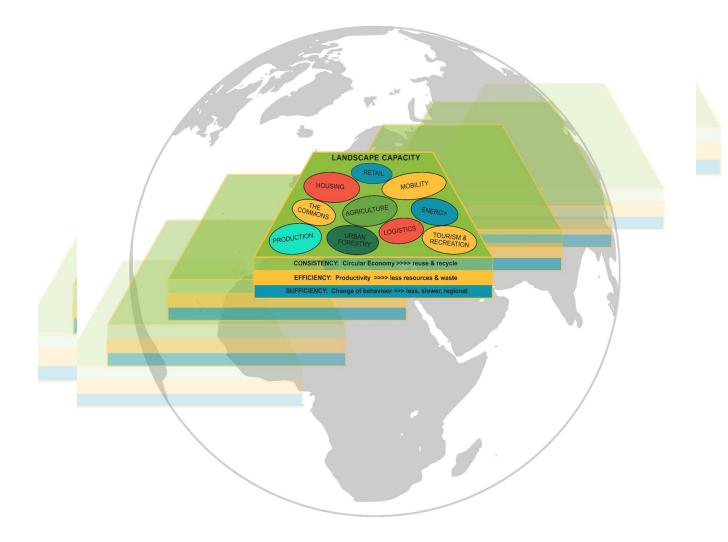
https://doi.org/10.3389/fenvs.2022.973102 1.

^{2.} https://www.idos-research.de/uploads/media/DIE Publikation Textilwirtschaft 2019.pdf

^{3.} https://www.europarl.europa.eu/news/en/headlines/society/20201208STO93327/the-impact-of-textile-production-and-waste-on-the-environment-infographic

^{4.} Quelle: https://www.eea.europa.eu/data-and-maps/figures/eu27-apparent-consumption-of-clothing/

Hidden Landscapes It is not only about the landscape that you see around you.



sustainable impact

Transformation of Textile Landscapes along the Value Chain

raw material

19th century



Decentralized in different places in Europe; materials: sheep wool, flax and hemp; until the end of the 18th century, sheep farming in Germany was a success story. Around 30 million sheep were kept solely for wool production. Sheep population 2022 in Germany: 1.5 million

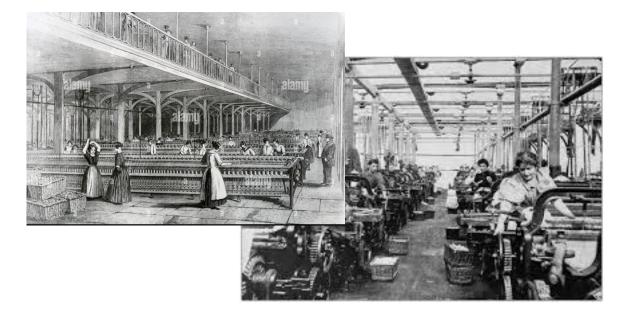
today



Approximately 50 percent of the world's textiles are made of cotton. This is grown on around 30 million hectares (2% of arable land). The annual production volume is around 25 million tons. India and China are the largest cotton producers in the world, with over 6 million tonnes each.

spinning mill

19th century



Linen spinning and weaving in Germany was mainly located in low mountain ranges such as the Swabian Alb. In Germany, the linen industry, in contrast, was a trade closely associated with agriculture by the peasant population. Child labor was something completely normal in those years.

today

Today, only a few spinning mills exist in the industrialized countries. Most spinning fully automized mills are located in Asia, namely in China and India.

production of textiles

19th century



In the past, sewing work was done almost exclusively by women in home work, but they also took over sewing in sewing rooms or larger textile workshops. Before the sewing machine conquered the market in the 19th century as part of industrialization, people sewed exclusively by hand. (Picture: first sewing machine, 1830).

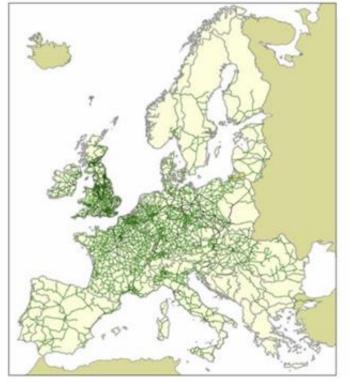
today



There are over 7,500 textile factories in India, where many women and children in particular work many hours a day under very poor conditions. They work 12 to 16 hours per day, controlled by male shift supervisors, for a lower wage of 20 € per month. Due to the development towards Industry 4.0 (digitalization), manual labor is increasingly being replaced by technology.

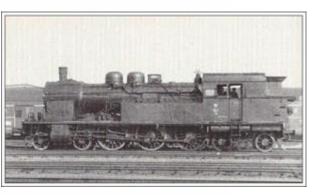
Transport





19th century

Railway map of Europe: 1850-1890.



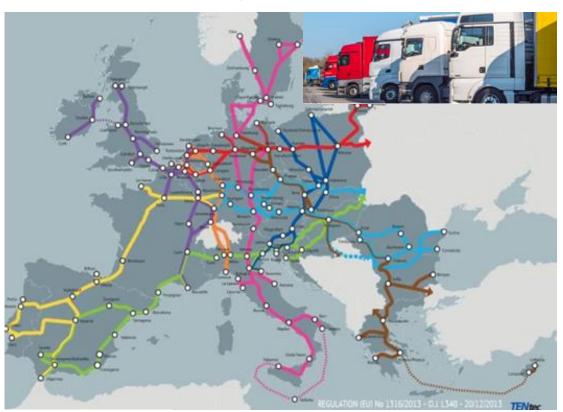
- Opened since 1850
- Closed since 1850
- In service before 1850

Map: Journal of Geographic Information System, 2012, 4, 176-187 http://dx.doi.org/10.4236/jgis.2012.42023 Published Online April 2012 (<u>http://www.SciRP.org/journal/jgis</u>) Picture: http://www.izba.centrum.zarow.pl/artykuly/872-lokomotywy-parowe-w-ruchu-pasazerskim-i-towarowym-na-odcinkuimbramowice-zarow-w4atach-1945-1965



today

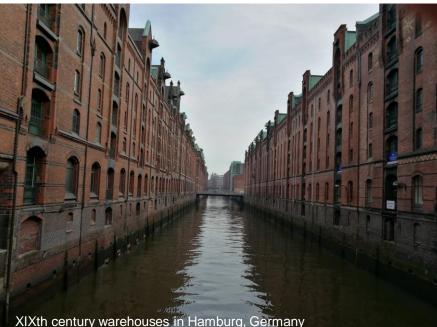
The TEN-T network of transportation corridors across EU (2020).



Credit: European Commission.

Logistics and warehousing





Textiles are still stored in beams, coupons and coils on racks (formerly wooden, now steel). However, due to the economies of scale and the large number of materials stored at the same time, today's warehouses are large automated halls where fabrics are stored on high racks and operated by stacker cranes. Hall buildings can have a projection of 3,000 - 5,000 m2 and heights from 12 m to even 50 m. They are usually accompanied by extensive zones of parking lots and roads. Due to their size, they are most often located on the outskirts of cities. The former warehouses, although they were large for their time, formed rather complexes of buildings with other warehouses, and loads were transported from them by rail or barges.





selling textiles

19th century

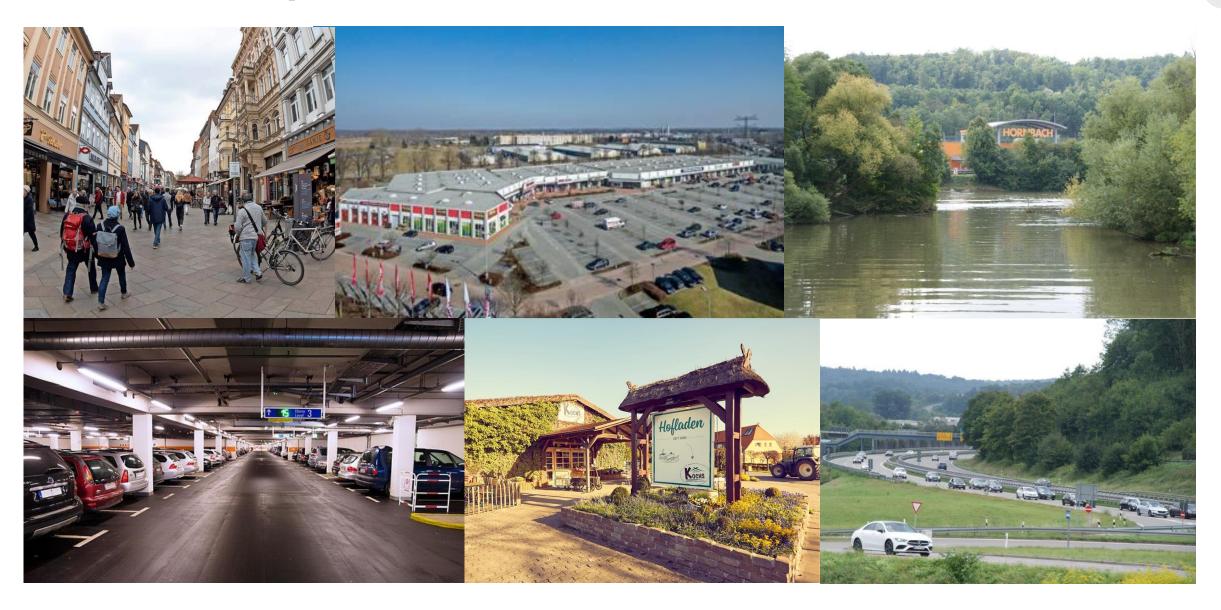


today DE 🌐 🙎 zalando Q Suche Accessoires Beauty Designer Marken \odot M \approx Entdecke deine Brands Folge Brands, um mehr zu entdecken

In the 18th century, clothing was mostly homemade. The cloth could be bought at the market. The richer population had clothing made by a tailor. Today, there is mass distribution of textiles "off the rack," especially through international textile chains and online suppliers. Small & medium-sized suppliers are becoming less and less important.

marketshare by size - german textile retailers							
turnover	2010	2019	delta				
up to 5 Mio. €	28,2%	17,0%	-11,2%				
5 - 100 Mio€	23,7%	21,5%	-2,2%				
> 100 Mio. €	48,0%	61,4%	13,4%				
Source: BTF							

retail landscapes



Amazon landscapes



amazon.de Ortingen 72622 EN - Account & Lists - & Orders Frauen, die inspirieren 💳 All 🛛 Prime Video 🛛 Prime 👻 Amazon Basics 🛛 Buy Again 🛛 Shopper Toolkit Gift Cards Gift Ideas Drugstore & Body Care Best Sellers Hot New Releases Movers and Shakers Most Wished For Most Gifted Best Sellers Our most popular products based on sales. Updated hourly. Any Department Best Sellers in Sports & Outdoors See More Page 1 of 5 Amazon Devices & Accessories Amazon Launchpad #3 #4 #1 #2 Apps & Games Audible Audiobooks Automotive **Baby Products** Beauty Books Business, Industry & Science Camera & Photo CDs & Vinyl Gas stove with case including 16 EUROPAPA 20 x FFP2 Black DANSI Fahrradleuchten-Set StVZO Gas Stove With Carrying Case + 8 Clothing gas cartridges Respirator Dust Masks, 5-Ply I LED-Fahrradlicht I Rad-Licht hell Gas Canisters Computer & Accessories ****** 4,966 CE2163 + Additionally Tested by **** 2.360 Digital Music vorne ****** 27,890 DIY & Tools €63.95 Dekra, Respiratory Masks,... €45.00 DVD & Blu-rav €10.99 €13.99 (€0.70/stück) **Electronics & Photo**

Garden



Waste and Landfill landscapes

92 million tonnes of textiles waste is produced every year

Of the 100 billion garments produced each year, 92 million tonnes end up in landfills. To put things in perspective, this means that the equivalent of a rubbish truck full of clothes ends up on landfill sites per second. If the trend continues, the number of fast fashion waste is expected to soar up to 134 mio. tonnes per year by the end of the decade.

(https://earth.org/statistics-about-fast-fashion-waste/, retrieved 01.10.2023)



mips.//www.n.com/conten

Over 1 million jobs have been lost in the German textile industry since WW2. This has been accompanied by a different use of landscape and real estate.

Haux Brothers textile production swabian alb founded 1885



Insolvency 1987, today: location of a university

Neckar spinning mill, Wendlingen Oberbohingen founded 1861



closed 2020, in transformation project of IBA'27



"Kaiser"-House Nürtingen textile department store build 1868



sold 2023; in transformation "Worldhouse" project of IBA'27



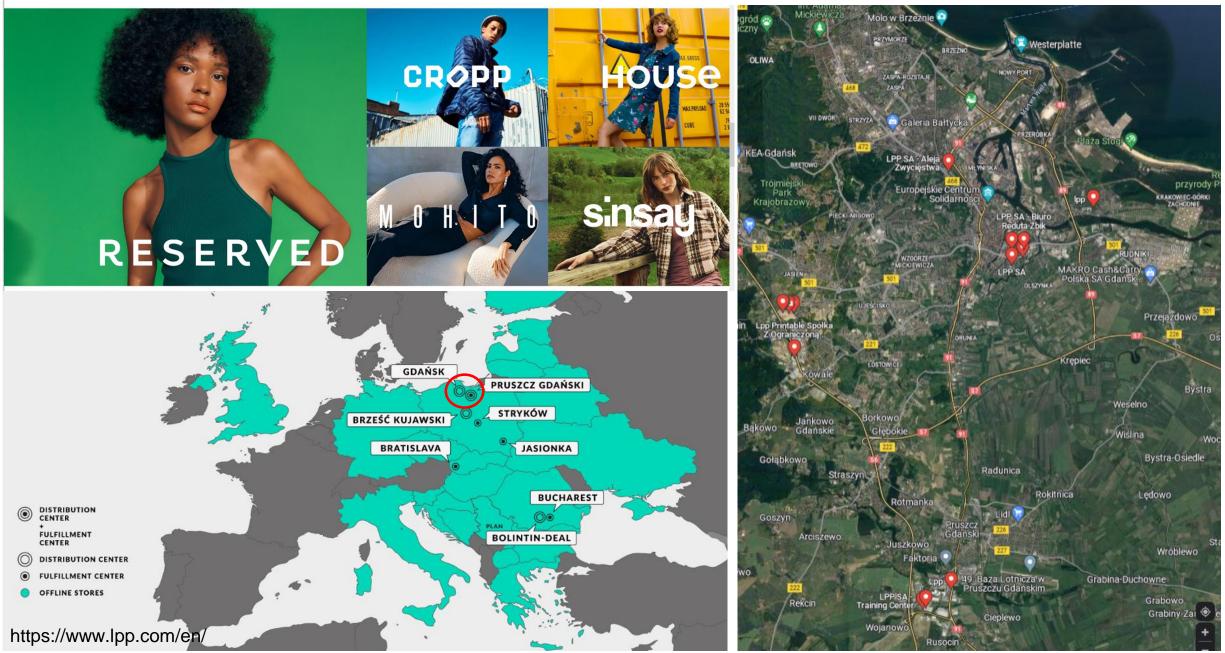
CASE STUDY LPP, GDAŃSK, POLAND

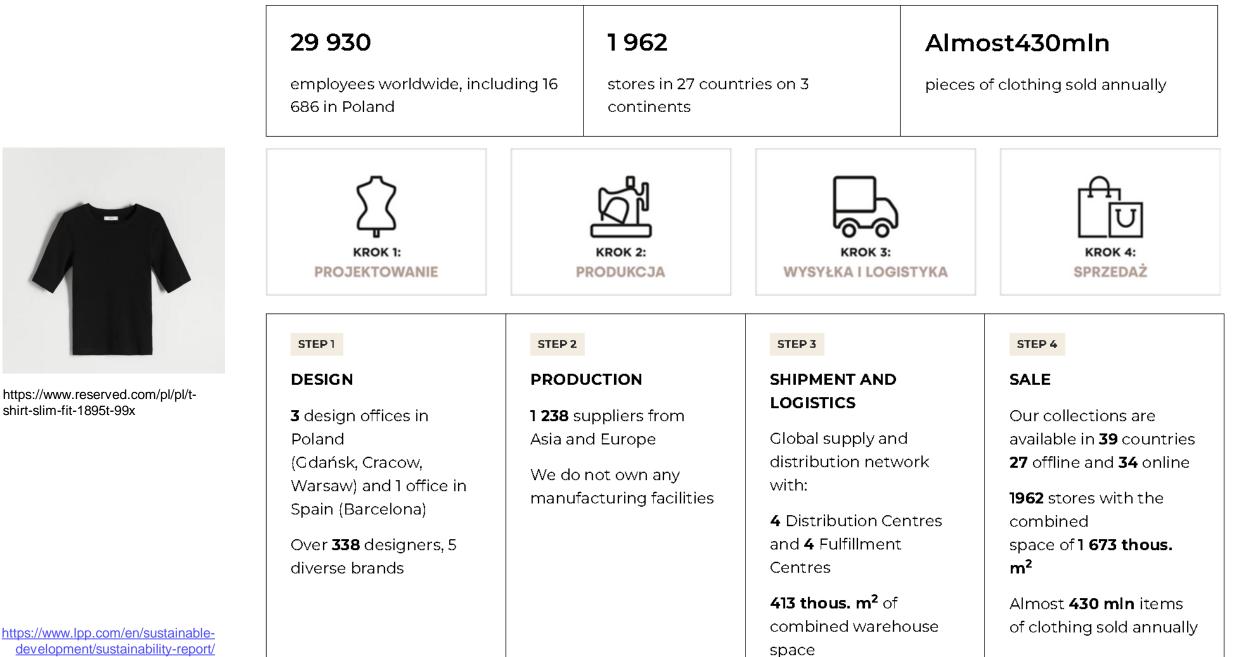


EXPA	NS		F	E-STORES BY COUNTRY	
		2011	1	POLAND	
	*	2014	1	GERMANY	
ž	*	2015	1	CZECH REPUBLIC, SLOVAKIA, ROMANIA	
	*	2016	1	HUNGARY	
4 502		2017	1	LITHUANIA, LATVIA, GREAT BRITAIN, RUSSIA	
2	•	2018	I	BAHRAIN, KUWAIT, UAE, SAUDI ARABIA, OMAN	LPP C CASE S
		2019	I	CROATIA, UKRAINE	
	*	2019	I	PAN-EUROPEAN ONLINE STORE: Denmark, Austria, Finland, Netherlands, Spain, Italy, France, Portugal, Belgium, Ireland, Sweden, Luxembourg, Greece	
	*	2020	1	SLOVENIA, ISRAEL	
R	*	2021	I	BULGARIA, QATAR	
K		2022	1	SERBIA, ITALY, LEBANON	
R	*	2023	1	GREECE https:	//www.lpp.com/en/about-us/strategy/#s

33

ABOUT US BRANDS SUSTAINABLE DEVELOPMENT LPP FOUNDATION SUPPORTS INVESTOR RELATIONS F1 LPP Gdańsk – CASE STUDY





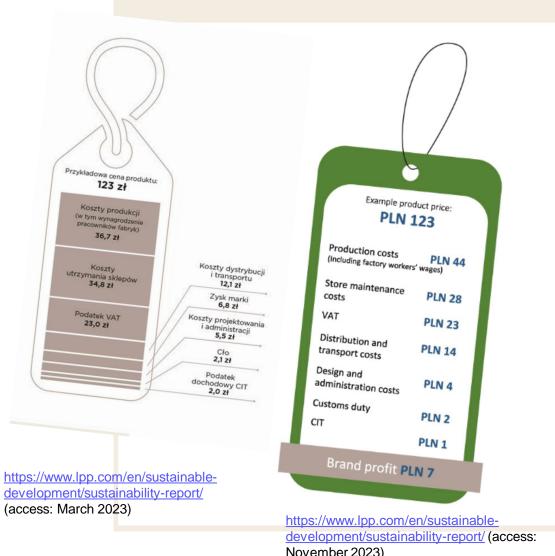
https://www.lpp.com/en/sustainabledevelopment/sustainability-report/ (access: November 2023)

shirt-slim-fit-1895t-99x

Landscapes hidden behind a value added chain



Business results



Our results in the financial year 2022/2023:

- Revenues from the e-commerce channel in the financial year 2021/22 amounted to PLN 4,392 million (19,3% increase y / y).

- High investment commitment at the level of PLN 1,157 million, including PLN 736 million for the development of the network of brick-and-mortar stores and PLN 421 million for infrastructure development (CAPEX).

We drive Polish exports: its value in the reported financial year amounted to PLN 9 billion. Already 56.9% of the PLN
16.0 billion of our revenues comes from abroad.

- Our net sales revenues in the financial year 2022/23 are PLN 16 billion.

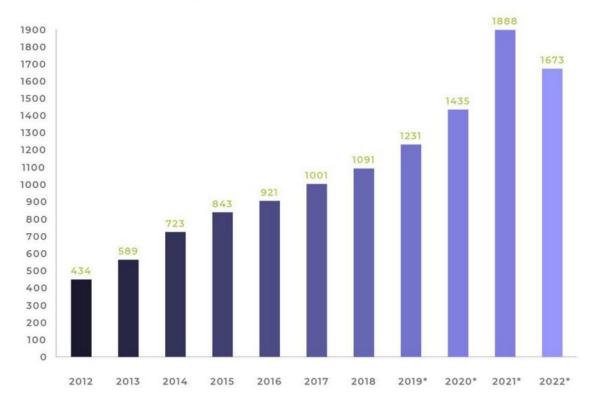
- Our contribution to the Polish budget amounted to over PLN 1.7 billion.

https://www.lpp.com/en/sustainable-development/sustainability-report/ (access: November 2023)



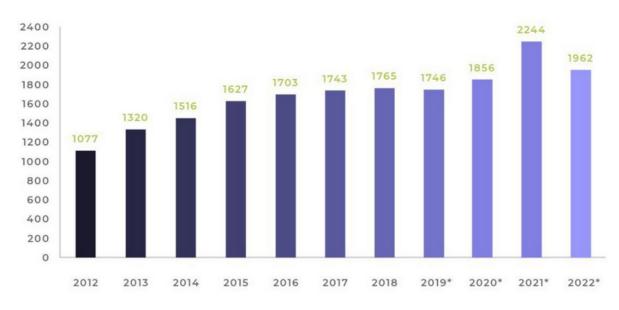
38

LPP - Area development in thousands m2 (2012-2022)



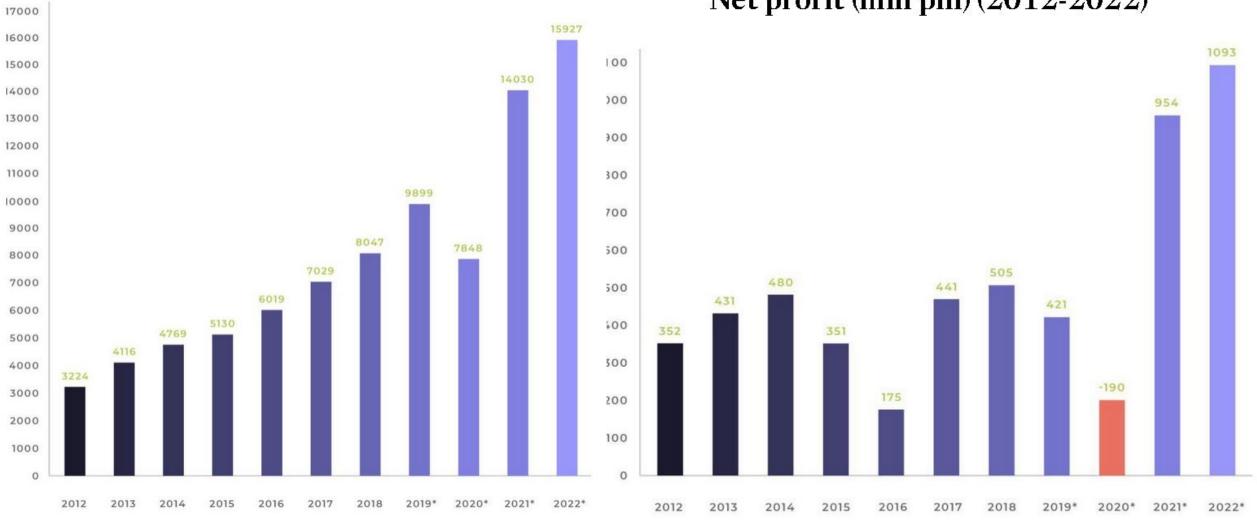
*The financial year is the period from February to January of the following year

The development of the LPP stores network (2012-2022)



*The financial year is the period from February to January of the following year.

Sales (mln pln) (2012-2022)



*The financial year is the period from February to January of the following year.

*The financial year is the period from February to January of the following year.

https://www.lpp.com/en/about-us/lpp-in-numbers/ (access: November 2023)

https://www.lpp.com/en/about-us/lpp-in-numbers/ (access: November 2023)

Net profit (mln pln) (2012-2022)



30+

Years of experience in the clothing industry

24,000+

Employees

DISTRIBUTION CENTRES

1,800+

The supply of 1,800+ shops handled at the same time

175,000

175,000 m² of floor space

18 mln

Clothing articles sent weekly (maximum values)



years of experience in the garment industry

29,930

2,141 stores supplied by logistics centres

413,000 m² of surface

3 milion

pieces of clothing shipped to stores on average per day

https://www.lpp.com/en/about-us/lpp-in-numbers (access: March 2023)

https://www.lpp.com/en/about-us/lpp-in-numbers/ (access: November 2023)

THE AXIS OF OUR BUSINESS MODEL

Suppliers

Our business model is based on a dispersed value chain. On a daily basis, we work with over a thousand suppliers from different parts of the world, various cultures and often operating according to different working standards. Therefore, monitoring the conditions applicable at our suppliers, especially in the context of compliance with the principles laid down in the LPP Code of Conduct, is an integral part of our operations.

FIND OUT MORE → ducing textile waste

Collection of clothing

The linear model of clothing use, based on the short life cycle of clothes, most of which eventually end up in landfill, is one of the ills of modern times. To this end and for several years now, we have been consistently working to extend the life of textiles.

Since 2018, we have been collecting second hand clothing of any brand, which we donate to people in need. In 2022, European Union alone around 5.8m to dy extended the used clothing collection we a discarded each year. Only 1% of used all our stores in Poland, and in 2023 we will pro with a view to producing new textile ex e to more countries where we sell our WE AIM TOWARDS CLIMATE NEUTRALITY

Environment nd hand clothing

80%



LPP sustainable development companies



JUR EMISSION

To counteract this, we ensure that

matched to the supply generation

achieved with the use of cur

developed by our team c

science, machine lear

able to forecast th

it Agency inc

Emissions

The European Environ...

or plastics less in our packaging (since 2017) Since 2018, we have been measuring gree, emissions along the entire value chain from the material sourcing, through production, transpor by our customers. As a result, we are aware of o environmental impact and which areas require attention.

Climate challenges are an area on which LDP's strategic initiatives have been focused for several vears how our

Climate challenges are an area on which LDP's strategic are hased on scientific research as only then cal Initiatives have been focused for several years now. Our sciencific research, as only then can be sure shar our sciencific research, as only then can be sure sciencific research, as only then can be sure a real innaction.

actions are based on scientific research, as only then can a science on sciencific research, as only then can a science on will have a real introduction can a science on wire a science on the science of the science o

We be sure that our solutions will have a real more that our solutions will have a real more and the solution of the solution

1584 t

Attention. FIND OUT MORE → Me are already working on solut. We are already working on solut. economy to turn textile waste into rest. Me are already working on solut. Me

Excercice 1: Better understanding of system and challenges

Choose one picture of landscape from the following set (1-4) and answer the questions:

- **1.** How this landscape is connected with the LPP office?
- 2. What type of landscape existed presumably in this area before and what transformation it went through?
- 3. How do you perceive /evaluate the impact of this change on landscape transformation?



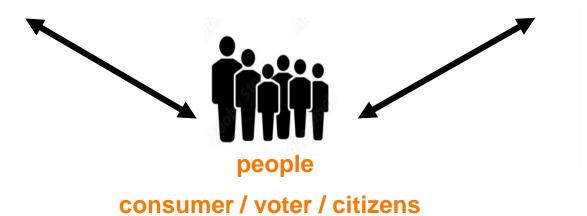
System Change deciders

System Change deciders

local regional national international governments



charity social enterprice traditional business



44

System Change – deciders (people as consumer) attitude - behaviour gap



Sustainability awareness

Knowledge about and insight into she consequences of of individual purchasing and behaviour as well as the willingness to change behaviour.



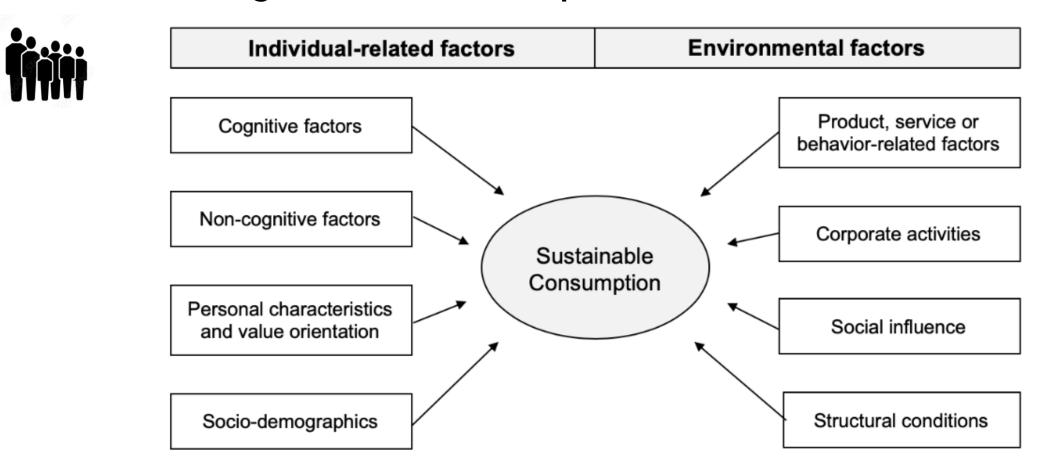
Consumer behaviour

Targeted preference for those behaviours which, according to at least one criterion, are superior to similar behaviours.

attitude - behavioural gap

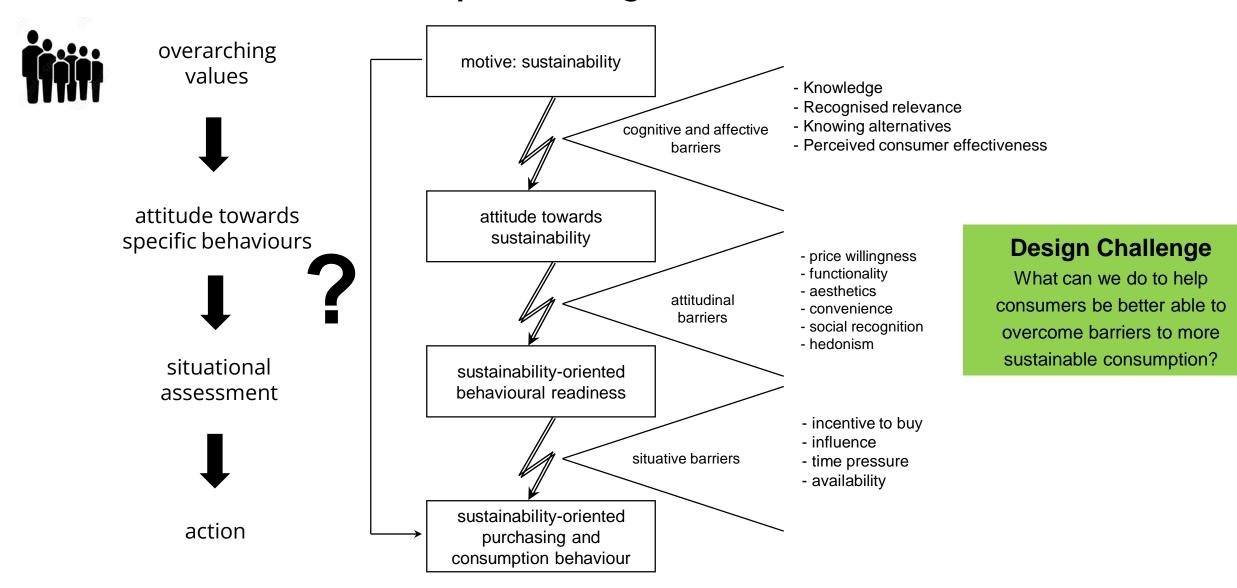
A high correlation between awareness of social and ecological problems and and correspondingly adapted decisions and behaviour is not to be expected due to other influencing variables.

System Change – deciders (people as consumer) Factors influencing sustainable consumption



Wintschnig, 2021, p. 340.

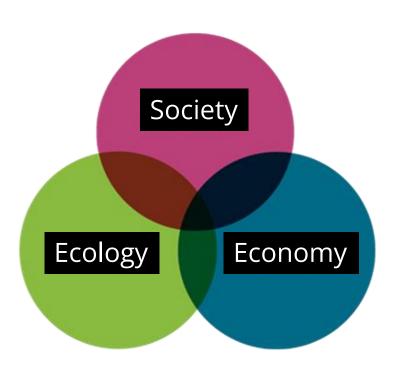
System Change – deciders (people as consumer) barriers of sustainable consumption - a stage model



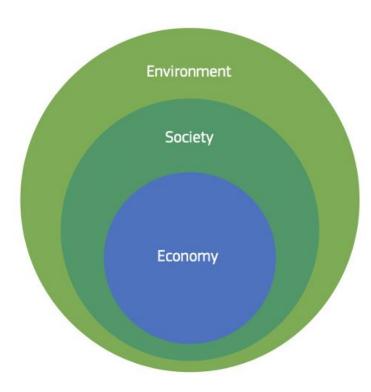
Based on and further developed:Funck, 1996

System Change – deciders (companies) In which world do we live?





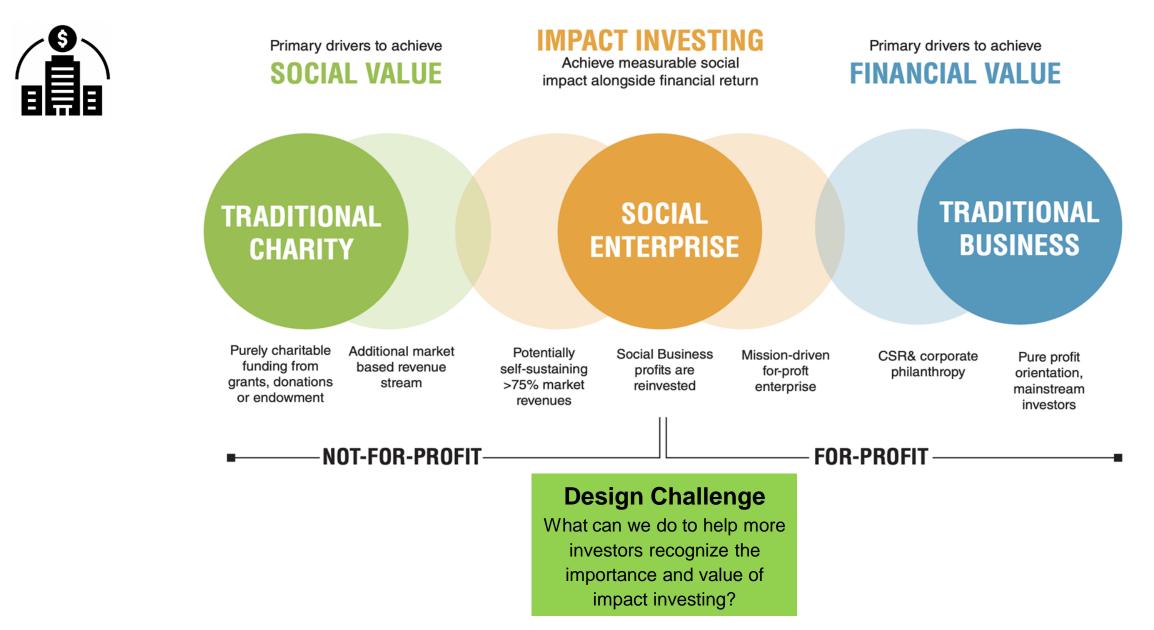






"Natural resources are limited. Growth and profit can only take place within the natural limits of the earth."

System Change – deciders (companies) Business for profit or not?



System Change – deciders (governments) economic policy



Economic policy is the term for all governmental and associational activities aimed at influencing the decisions of economic policy actors. This takes place at different levels: local, regional, national, international (e.g. EU).

more sustainable orientation in their decisions?

Process policy Regulatory policy Structural policy Direct, short- and medium-term Economic legislation that Long-term regional or sectoral interventions Interventions by the state provides a long-term framework measures to enable economic / (influencing prices, quantities, costs). for economic agents. social change. e.g. subsidies for e-cars, increase in e.g. Supply Chain Act, Circular e.g. subsidies for charging mineral oil tax (Incentives to act / not stations for e-cars, subsidies for **Economy Action Plan** act the expansion of bicycle paths. **Provide Incentives Create Conditions Shape Framework Design Challenge** How can we succeed in ensuring that policy makers systematically and consistently take into account the findings for a

System Change – deciders (governments) policy guidance framework

- private property
- \cdot freedom of choice
- \cdot motivation of self interest
- \cdot competition
- growth and consume
- limited regulation
- GDP as a measure of welfare

principles of free market economy

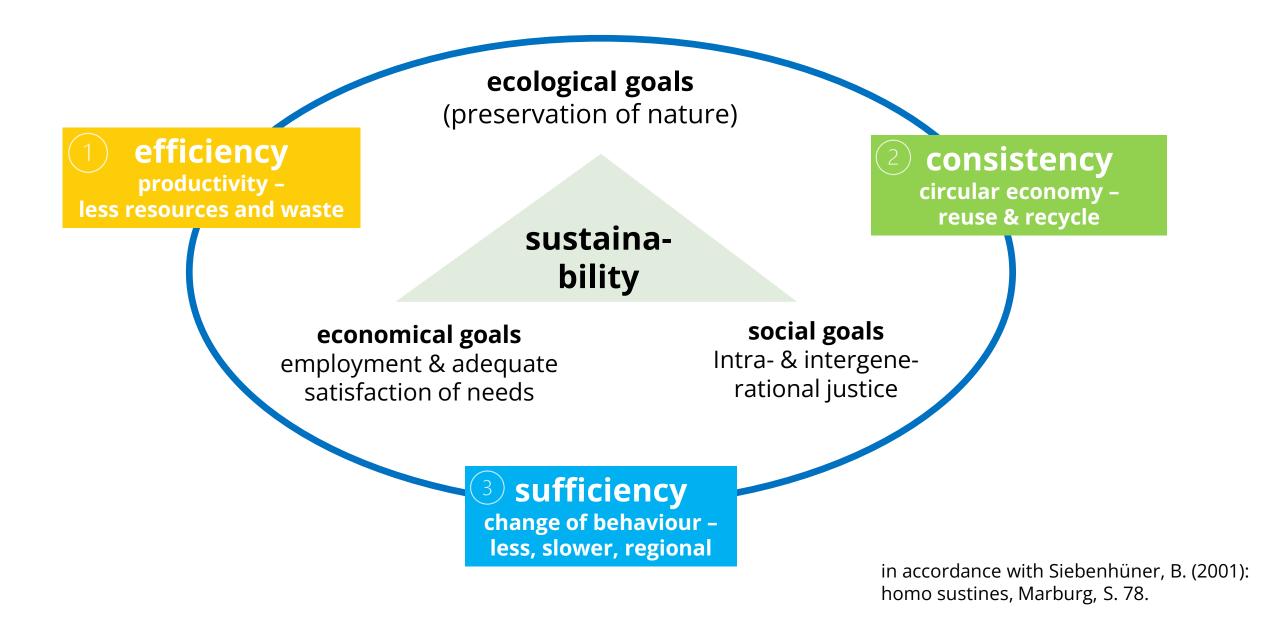


- more common goods
- \cdot more responsible consumption
- \cdot motivation of public welfare
- \cdot more co-operation
- circular economy & sufficiency
- more (worldwide) agreements
- ecological & social perspective

needs of sustainable economy

System Change strategies

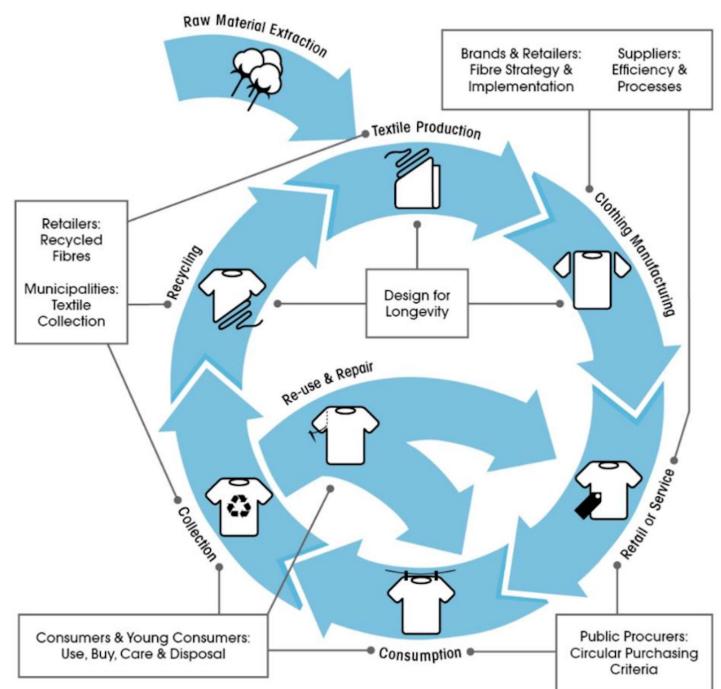
Sustainability Strategies



System Change approaches / best practices

Sustainable Value Chain efficient – consistent – sufficient



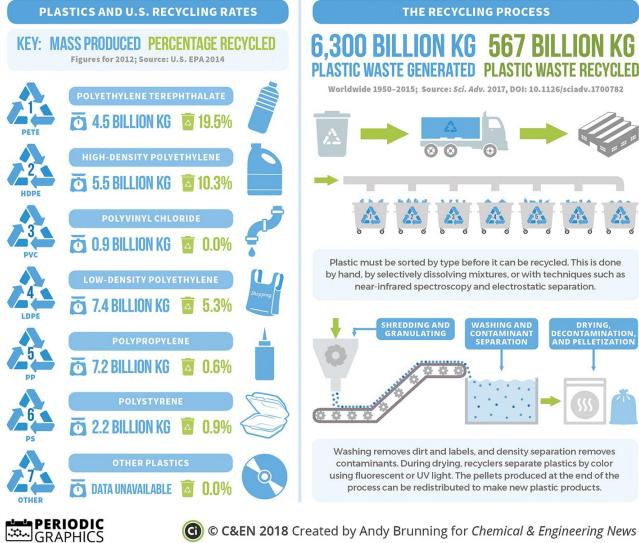


System Change – approaches

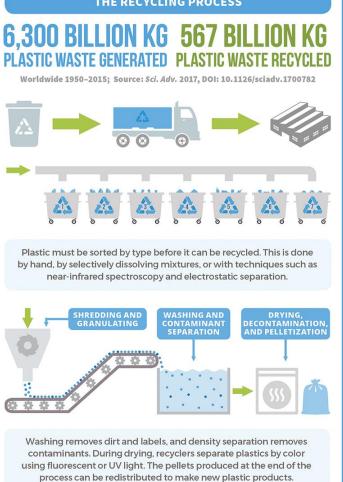
https://www.mckinsey.com/de/news/presse/2022-07-14--textile-recycling; published 14.07.2022

HOW IS PLASTIC RECYCLED?

This year's Earth Day is focused on mobilizing the world to end plastic pollution. Here, we examine plastics recycling, which plays a big part in these efforts, and the recycling process.



THE RECYCLING PROCESS



EU action plan for circular economy; initiative from producers

- **problem**: the proportion of recycled plastics in the EU is only 12 percent and many countries still allow plastic to be landfilled.
- plan: Europe's plastics manufacturers want to reduce the proportion of fossil raw materials used in plastics production to 35 percent by 2050.
- investments/costs about 235 billion euros across
- challenge: It encompasses entire supply chains, thousands of companies and products.
- elements of change along the supply chain
 - promote reuse Ο
 - reduce single-use applications, Ο
 - plan and design products in advance to be Ο recyclable.
 - empower mechanical and chemical recycling Ο
 - more plastics should be produced from Ο alternative materials, such as biomass.

San Mateo County – local food value chain



https://sustainablesanmateo.org/home/indicators-report/key-indicator-food-systems/

15-minutes neighbourhood – Value Chains



System Change – approaches

IKEA in Vienna – sustainable retail and distribution concept



IKEA in Vienna: city center concept

- 22,000 sqm, 5 floors, 3,000 items
- green building, roof terrace, photovoltaics, biodiversity
- no parking spaces ("mobility without a car")
- App-based shopping possible
- pick-up on the outskirts or delivery

decentralized logistics concept

1. IKEA Wien Nord Gewerbepark Kagran Sverigestr. 1a 1220 Wien

2. IKEA Abholstation Wien Strebersdorf Scheydgasse 45 1210 Wien

3. IKEA Vösendorf Shopping City Süd 2334 Vösendorf





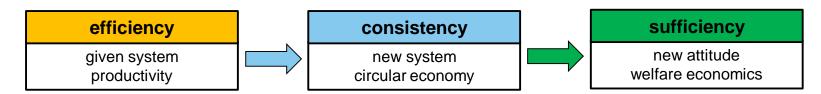
sustainability * showrooming * nice place to be

Framework for Impact Evaluation (KPIs)

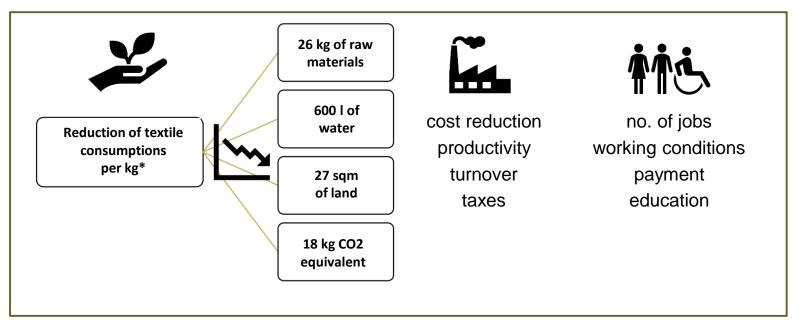
KPIs – (textile) value chain (1/2)

KPI textile value chain	efficiency (given system)	consistiency (new system)	sufficiency (changed attitudes)
economic	less energy for 1kg textiles (cost-reduction in €)	tax revenues from the textile value chain (to be ?)	% of sales with textiles from local production (to be increased)
social	higher productivity (volume of production per employee) lead to higher wages (in €); secondary condition: better social systems (% of employees with reggular contracts and social inscurance) in developing countries	% of employees in the textile value chain with a wage that covers the cost of living in the respective country (to be increased)	number of jobs with textiles from local production (to be increased)
ecological	enlarging the biological active surface (in sqm) for the same production quantity (kg textiles)	% of repaired / reused / recycled clothes (to be increased)	new clothing purchased per year in kg/person (to be reduced)

KPI – (textile) value chain (2/2)



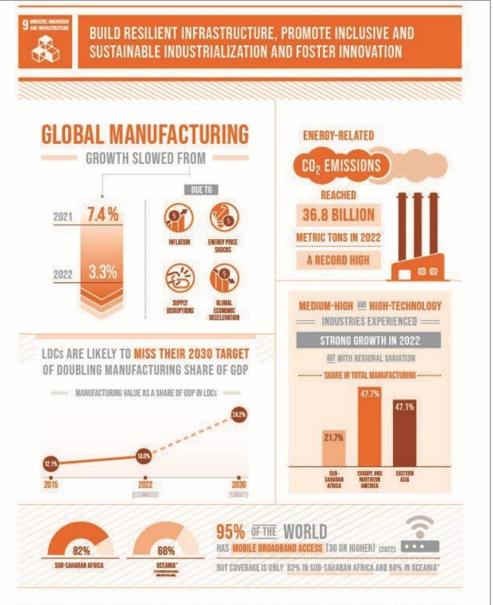
existing conflicts of objectives can (only) be resolved in the medium/long term



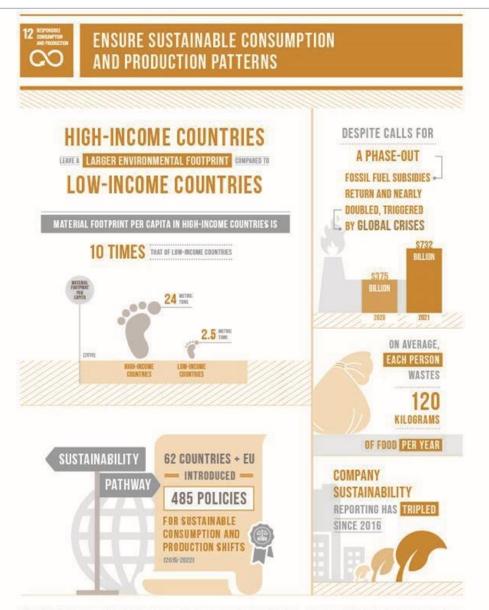
Source: <u>https://www.eea.europa.eu/data-and-maps/figures/eu27-apparent-consumption-of-clothing/</u> <u>https://sdgs.un.org/goals/goal12#progres_and_info</u>

KPIs – SDG 9 & 12

System Change – KPI



THE SUSTAINABLE DEVELOPMENT GOALS REPORT 2023: SPECIAL EDITION- UNSTATS.UN.ORG/SDGS/REPORT/2023/



THE SUSTAINABLE DEVELOPMENT GOALS REPORT 2023: SPECIAL EDITION- UNSTATS.UN.ORG/SDGS/REPORT/2023/

What does implementing of consistency and sufficiency might mean for landscapes?

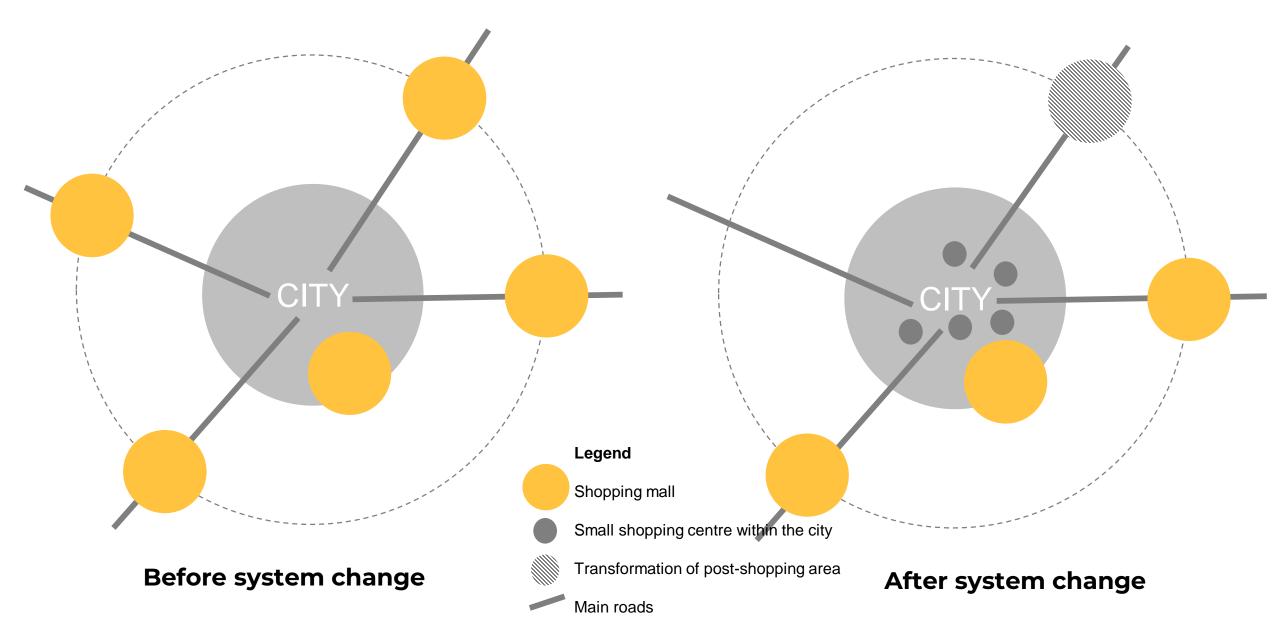
Possible scenarios ...

Retail landscapes transformation scenario



- large shopping mall will not be anymore the best economic model of sale
- the scale of textile and clothes' processing and retail will decrease and some of these functions may come back to a city
- the spatial dispersion of these functions will increase
- the individual time needed to manage "our wardrobe" will increase maybe a place for new jobs?

Distribution of shopping malls within a city

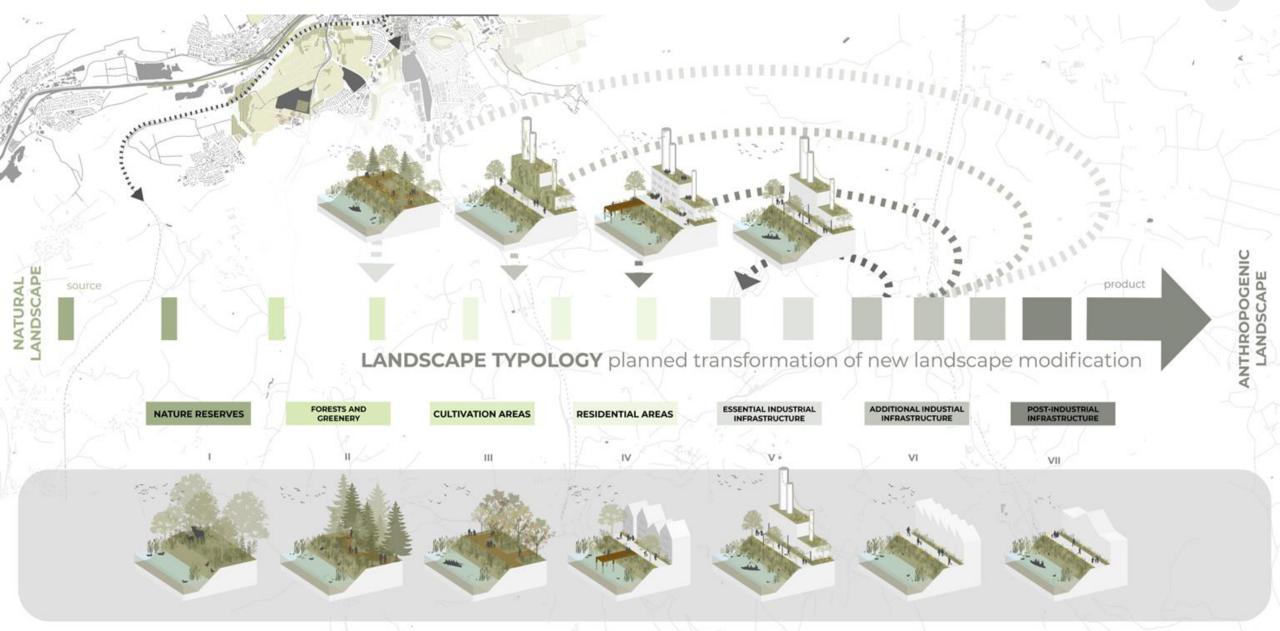


Retail landscapes: large shopping malls transformation scenario



creative reuse of textiles

Scenario: Transformation towards re-naturalisation



inż, arch. Natalia Fronczek, inż, arch. Marta Hrycyna, inż, arch. Marta Kloch, inż, arch. Katolina Krośnicka, dr inż

Retail landscapes: large shopping malls transformation scenario



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Excercice 2: Considering a system change - **Designing solutions**

Continuing the previous considerations (based on a chosen picture 1-4) on relations of a distant hidden landscape and the "decision centre" answer the question:

- 1. Do you think it is possible to make this process more sustainable?
- 2. What is needed to make a system change within this process? What are the main obstacles to overcome?
- **3.** Think about alternative scenarios of connections between hidden landscapes?

