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Understanding consumer behaviour to drive change

Professor Clothing and sustainability Ingun Grimstad Klepp

Consumer research Norway , SIFO





Figure 2-3 Global fibre production compared to clothing utilisation, sales, CO2-emissions from fossil fuels, global population and estimated future production growth.

(Sources: Ellen MacArthur Foundation, 2021; Ritchie et al., 2020; TE, 2017, 2018, 2019, 2020, 2021b, 2022; United Nations, 2022; World Bank, 2020)

Overproduction of clothing

(or surplus of clothing = clothing which is unused or not worn out at the time of final disposal)





THE PLASTIC ELEPHANT: Overproduction and synthetic fibres in sustainable textile strategies



https://www.eea.europa.eu/publications/the-destruction-of-returned-and/

Figure 2. Share of unsold textiles according to available sources



OSLO METROPOLITAN UNIVERSITY STORBYUNIVERSITETET

Sold (unspecified) • Sold at full price • Sold at discount/internal outlets

🛑 Unsold (unspecified: external outlets, jobbers, donations, recycling, incineration, landfill) 🛛 🛞 Recycling 🧳 Incineration 🖉 Landfill



Growth in consumption and accumulation of unworn garments (Maldini et al., 2016)

Norwegian Consumer Agency (NCA) issued a warning that Higg MSI, could not be used to support sustainability claims in

marketing towards consum

Green claims must be easy to grasp and understandable for the consumer. Claiming that recycles polyester is more sustainable, is neither easy to grasp nor understandable for anyone.

Andrea Schill OECD Tonje Drev

Glimpact: First actual tool that uses PEF data to calculate impact of concrete apparel

The European Commission sets the evaluation benchmarks for each category of products targeted according to this unique methodological framework, and not the EU member states themselves, **no other method of evaluating the environmental footprint of products and therefore Environmental labelling, defined at country level, will now have no legal basis**.

The PEF method is therefore now the single reference framework for the application of the <u>ESPR</u> according to sectoral benchmarks that will be defined by the EC.





Presenting a five-step strategy From a static problem perspective - with a focus on less bad solutions in unsustainable systems, to a dynamic solution perspective - with a focus on global sustainability



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The global apparel industry is a significant yet overlooked source of plastic leakage

Anna Kounina ¹²¹, Jesse Daystar, Sophie Chalumeau, Jon Devine, Roland Geyer, Steven T. Pires, <u>Shreya</u> <u>Uday Sonar, Richard A. Venditti</u> & Julien Boucher

Nature Communications 15, Article number: 5022 (2024) Cite this article

17k Accesses | 115 Altmetric | Metrics

Fig. 1: Overview of apparel macroplastic waste and macro- and microplastic leakage.







1,3% Reduction...

Avfallshierarkiet/Avfallspyramiden

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Durability discourse (in policy and academic literature)



Heidenstrøm, et al., 2021. Product lifetime in European and Norwegian policies. Oslo.

Maldini, Klepp and Laitala, forthcoming. The environmental impact of product lifetime extension: a literature review and research agenda.



Sustainable Production and Consumption

Volume 56, June 2025, Pages 561-578

Review article

The environmental impact of product lifetime extension: a literature review and research agenda

Irene Maldini 😤 🖾 , Ingun Grimstad Klepp 🖾 , Kirsi Laitala 🖾





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The environmental impact of product lifetime extension: a literature review and research agenda

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The environmental impact of product lifetime extension: a literature review and research agenda

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Durability discourse



Durability discourse

• Assumptions:

- acquisition is driven by replacement
- production volumes decisions are demand-driven

• We argue that:

- replacement is a minor driver of acquisition, at least in clothing
- production volumes decisions are taken with little attention to demand and mainly driven by ambitions of economic growth



Reducing the quantity of products made

"Extending the life of textile products is the most effective way of significantly reducing their impact on the climate and the environment"

EU Strategy for Sustainable and Circular Textiles, March 2022

Fibershed DACH

How a dozen dedicated women in Germany, Austria, and Switzerland have started to promote textile production from local fibres.

Fibershed Ireland: Liadain Aiken Knitwear x Moy Hill Farm: A case study in the future of local Irish textiles

Written by Malú Colorín of Fibreshed Ireland

+ Follow

Yesterday I participated in the Wool March protest walk (or should I say fast walk?) with sheep wearing felted & embroidered messages to draw attention to wool waste in the Netherlands. A Wool March was proposed & designed by the great Cynthia Hathaway with shepherds from the city of Tilburg. The march started at the famous Textielmuseum

& finished in beautiful meadows where the flock could rest & feed. A profound experience with many like-minded friends & colleagues. We hope other countries & cities will follow this lead. European wool needs to become a homegrown fiber again. A

---Lidewij #FarmToFabricToFashion @polimodafirenze

lidewij edelkoort · 2nd

2w . 3



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Fibershed Finland

Flax processing and spinning the traditional way

Written by Leena Pesu

It was in the middle of a rare heat wave in our northern country of Finland that eight women gathered in the vicinity of a 100 year old flour mill with the aspiration to learn how to process flax into linen yarn using traditiona methods. This was the first floer processing



married, for instance, before she could properly spin linen! Lucky for us, some of these traditions are forgotten now, but there are still people that can teach us the skills, like our wonderful teacher Kirsi Kostamo. Also traditional tookare still to be found in the

attics for processing.

During two days we learned to break, scu hackle and spin flax into linen. Even with r earlier spinning experience, each and eve

one of us managed to produce at least a little bit of yarn, even if it was coarse in the

beginning. The experience increased the

appreciation of the earlier generations that had to do this to produce garments and of

textiles for their households, and sparke an interest in this noble fiber. Organizing

a course like this is also a good tool for

communicating about our fibershee

To learn more about Fibershed Finland, visit their website <u>fibershedfinland fi</u> and follow them on Instagram <u>@fibershed_finland</u>







Finland, with other courses in plans as we get our activities properly kicked off.

Some of us had grown our own flax, while
others used materials provided by the
organizers. One participant had found a
treasure in her barr. flax harvested and rette
by her grandmother nearly a century agol A
the swing onces. 'wood turns into soil but flax

the saying goes: woor turns into soil, but ha turns into gold", hence flax had not suffered from the long storage and was still good for processing.

Flax was cultivated in each and every farm in Finland in the old days, and there is an abundance of related stories and traditions which our teacher shared with us during



https://clothingresearch.oslomet.no