Zero waste fashion design

Approaches and strategies to reduce textile waste

Alison Gwilt

a.gwilt@shu.ac.uk



The problem of textile waste

- Of 2.35 million tonnes of textile waste, 74% directed to landfill (Allwood et al, 2006)
- Waste occurs during production and consumer use
- But waste can be reduced or avoided through designled approaches



Reducing textile waste – how?

- Reduce waste during production
- Encourage wearers to keep garments for longer
- Designers can work with wearers to maximize the life of materials and garments through recycling / closed loop production systems

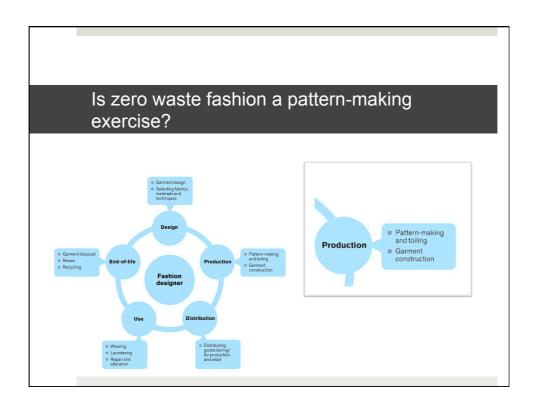














Fashion's influential aesthetic

"When you go into a shop (...) you first look at the designs and then you look at the price. You don't look at where it's made; it's not the first thing that comes into your mind. So when you see it's a plain white (organic) T-shirt, you think, oh, a tenner (...) I wouldn't pay a tenner for that."

Participant, "Public Understanding of Sustainable Clothing" DEFRA (2008)

Image: John Smedley / Better Thinking Ltd, *Luxury Redefined* t-shirt made using organic, undyed, unbleached Fairtrade Peruvian cotton.



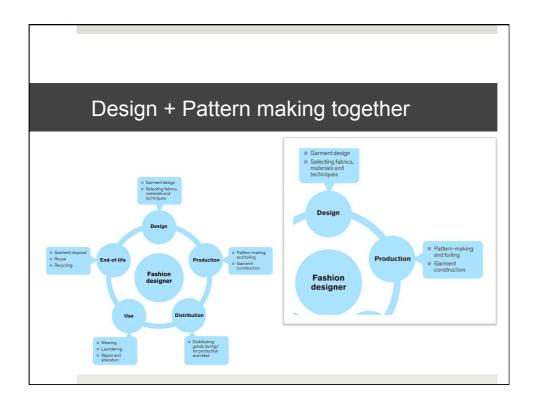
Fashion's aesthetic



"The aesthetic, symbolic and social significance of clothing is at least as important as function..." Gibson & Stanes, 2011

Dr Gene Sherman (E.D. at Sherman Contemporary Art Foundation in Sydney, Australia) has been a collector of Japanese fashion for over two decades. A carefully considered acquisition and 'retirement' process means that at any given time she has approximately 25 outfits in her wardrobe. Working to 'buy less, buy better' Sherman purchases high-quality designer ready-to-wear pieces that reflect her aesthetic, intellectual and emotional needs, much in the same way that she buys artworks.





Designing out waste - how?

- Design to reduce waste during production
- Design to encourage wearers to keep garments for longer
- Designers can work with wearers to maximize the life of materials and garments through recycling / closed loop production systems

Reducing waste through material efficiency







Images: Danish designer, Line Sander Johansen (Kolding School of Design) weaves shaped pieces directly on the loom // Issey Miyake 132 5 collection of geometric garments cut from a single piece of cloth



Refinity and Barbara Soepboer

Preparing garments for ageing

Nozomi Ishiguro's double-layered reclaimed cotton and denim jeans, between which are layers of dust, scraps, plastic bags, and snack packets. As the denim breaks down, the materials are revealed.



Reducing waste through durability











Images: L-R: Howies developed the 'Hand-Me Down' collection to last for 10 years / Chanel blouse circa 1980s in Shaeffer, C (2001), Couture Sewing Techniques, (US: Taunton Press) / Palmer, A (2001), Couture and commerce: The Transatlantic Fashion Trade in the 1950s, (Canada: UBC press) / Central St Martins graduate Naomi Balley Cooper embedded growing crystals in garments.

Reducing waste through improved maintenance

- Repairing clothes has dramatically decreased in the home
- Some of the reasons: shortage of skill / attraction of new and cheap clothes / the price of repairs in comparison to cost of new clothes



Main image: Sara McBeen's travel repair accessories

Provide a product + service







Make, do & mend: A clothing repair study http://www.youtube.com/watch? v=isMQHnvosTo&feature=youtu.be

John Galliano 1995, Source: McDowell, C (1998), Galliano, (New York: Rizzoli publishing) / grey wool, blue stain (2008) 'celebrates' an ink stain with embellishment / 'Make, do & mend' clothing repair study by Sheffield Hallam University.

Reducing waste through reduced consumption

- Promote change
- Value wear and tear
- Develop textiles and garments that can deflect away from damage

Left: Bruno Kleist stained shirt; Right: Comme des Garcons. 1982



Reducing waste through empathy







Images: Singaporean designer, Lilia Yip / 'slot + fold' from University of Brighton Mdes graduate, Cherelle Abrams

Zero waste fashion design: approaches and strategies to reduce textile waste

You can read about the *Make*, *Do and Mend* study at:

http://www.shu.ac.uk/research/c3ri/

Gwilt.A (2014) 'A Practical Guide to Sustainable Fashion' Fairchild Books

NEW in 2015: Fashion Design For Living', Routledge

Alison Gwilt, Sheffield Hallam University Email: a.gwilt@shu.ac.uk

