Environmental impacts of the life cycle of garments

Malin Viola Wennberg Mistra Future Fashion 2011-2019





vision: enabling a systemic change of fashion industry & society





11.5 million EUR 2011-2019



number of uses: 140



number of uses: 30



number of uses: 26



number of uses: 240

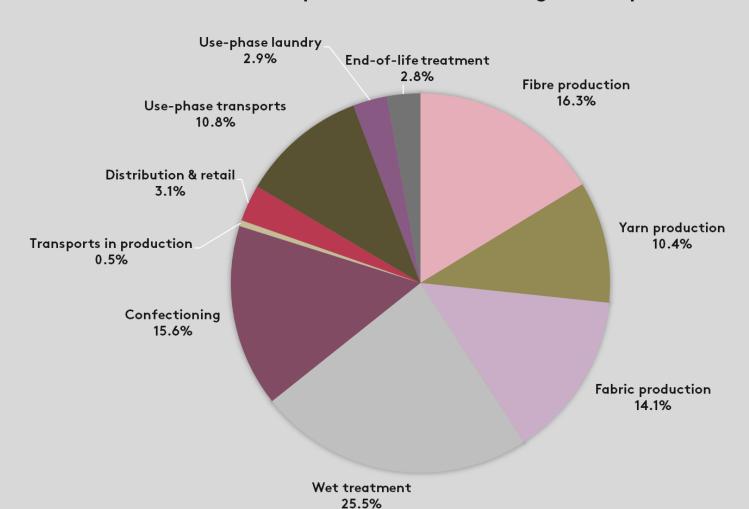


number of uses: 75

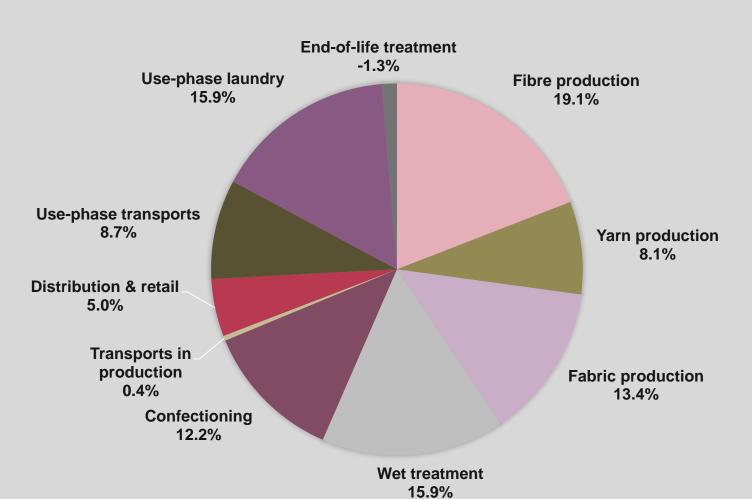


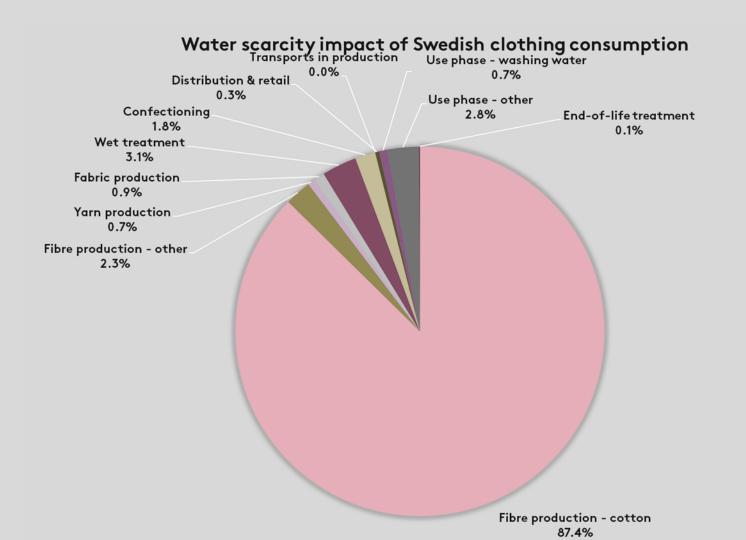
number of uses: 27

Climate impact of Swedish clothing consumption

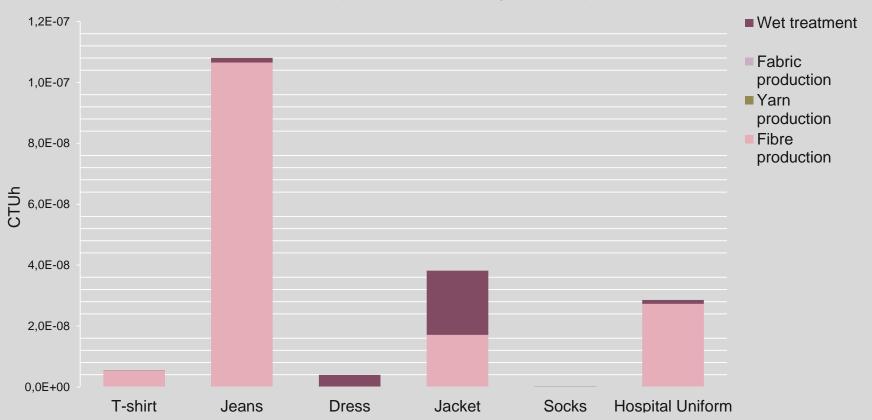


Energy use of Swedish clothing consumption

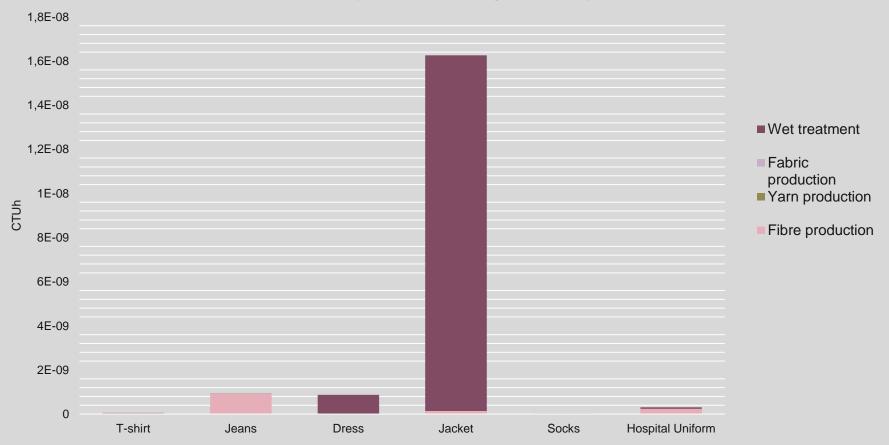


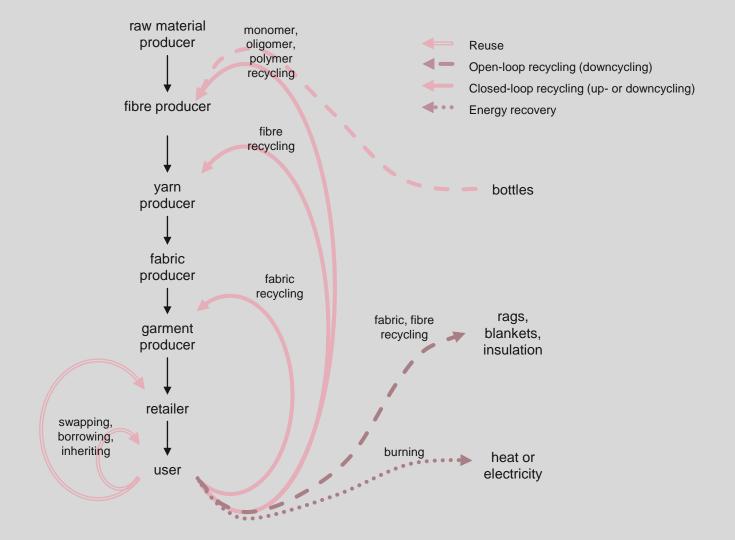


Human toxicity (non-carc.) impact per garment life cycle



human toxicity (carc.) impact per garment life cycle





actions

- Use renewable energy for electricity and heat
- Eliminate toxic chemicals, adopt state-ofthe-art chemical management systems and waste water treatment systems
- Natural fibres: adopt best available land and water management practices
- Synthetic fibres: explore dope dyeing

actions

- If buying fibres, yarns or fabrics: purchase best-in-class products. Large difference in environmental impact between fibre producing sites.
- Contribute to supply chain traceability that allows subsequent actors to act sustainable, by measuring/collecting and communicating transparent data on chemical use, energy use, emissions to air, water, soil etc.

