

What are Textiles?

A type of material composed of natural or synthetic fibers.

A type of cloth.

Textiles are often associated with the production of clothing.

Textiles are everywhere











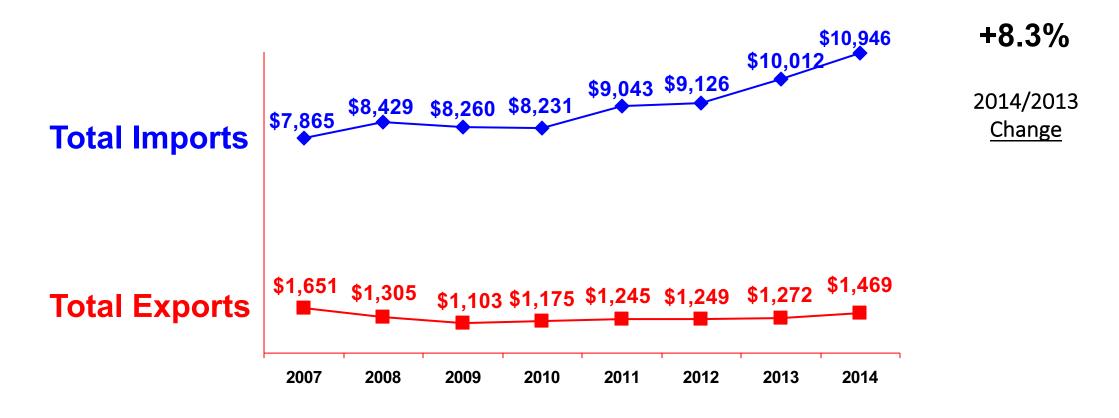






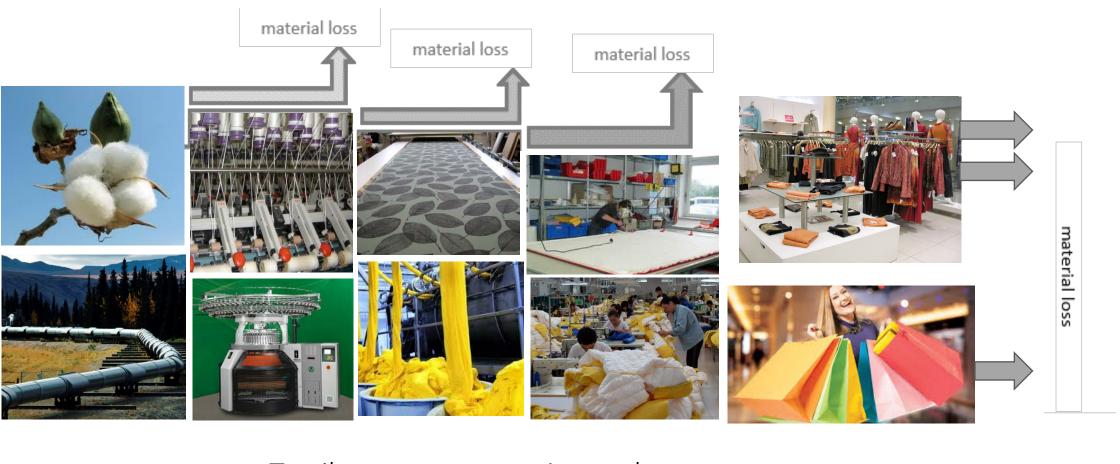
Canadian Apparel Import/Export Patterns

CANADIAN APPAREL BALANCE OF TRADE Millions of Dollars



Mass Consumption is slowing, not ending

Material Flow of Garment Production

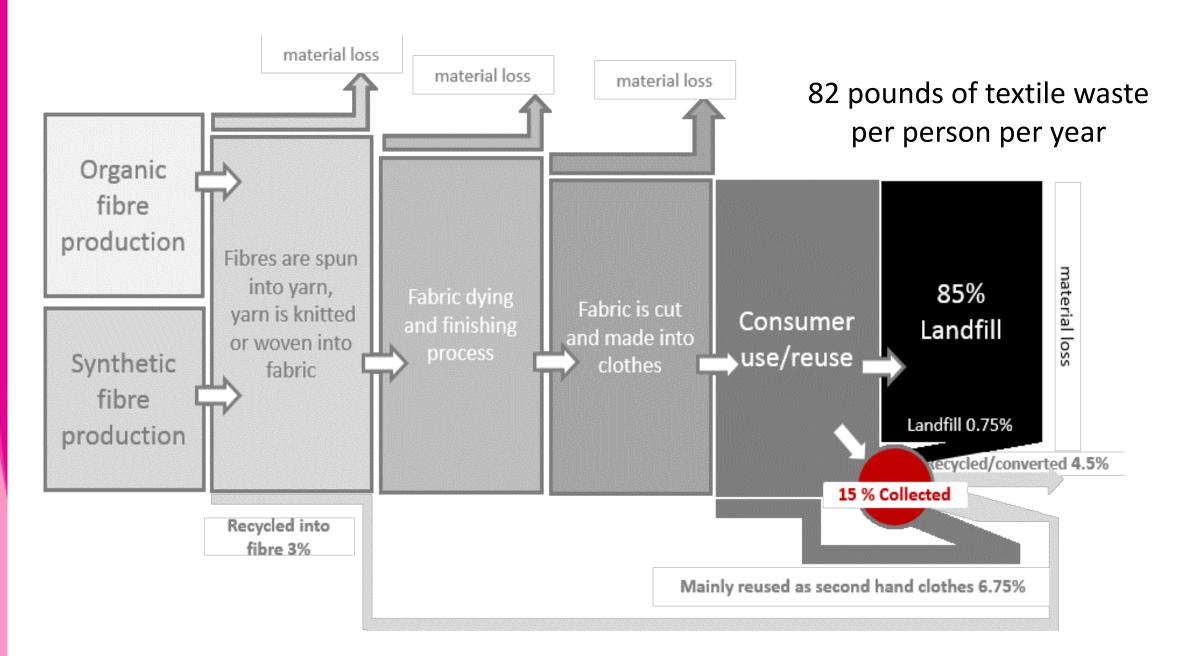


Textile Industry Apparel Industry

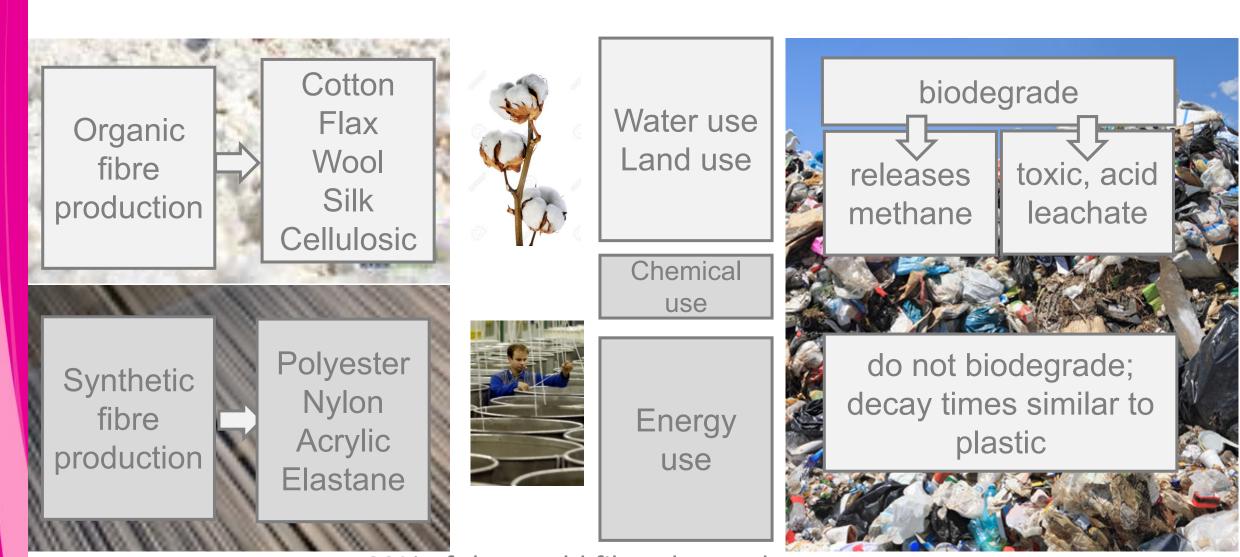
Distribution Channels

Pre-consumer textile waste from 1,483+ manufacturing facilities

Material Flow of Garment Production



85.75% Disposed Textile Material



83% of the world fibre demand cotton & polyester

15% Collected Textile Material

Reuse

6.75% mainly reused as second-hand clothes

Recycle

4.5% recycled and converted

3% recycled into new fibres

0.75 % sorted out for landfill











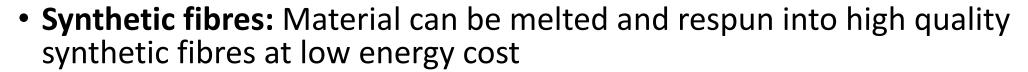


Textiles can be Recycled in 2 ways:

1. Mechanical

- Ragging
- Shredding

2. Chemical



- Organic fibres: Significant technological progress has been made in recent years to recycle cotton fibres into cellulosic fibres.
- Technical challenges remain, mainly the recycling of cotton and polyester and other fibre blends.



Import Export Paradox of used Clothing



We Need to Get More Textiles Out of Landfill



Photo taken by William Baird

Why do so many textiles end up in landfill?

Online survey, data were collected in February 2015, in collaboration with survey provider SSI

410 valid surveys

- a sufficient sample size for Ontario
- gender and age distribution reflects a representative sample

Donation is a Social Norm

- Clothing donations are not dependent on gender or age.
- Nearly 92 % of the participants of the study know where to donate their garments, and estimated that they donate nearly 60 % of all their garments!
- However, this number drops down to 50% donations when participants get confronted with different clothes and have to make "real life" decisions about what to do with the garment.

People Don't Know What To Donate



- Participants donate clothes for reuse not for recycling!
- Textiles, such as towels or bedsheets are often forgotten.
- 49% of the participants throw their clothes away because they think they are in such a bad condition that nobody could wear them anymore.

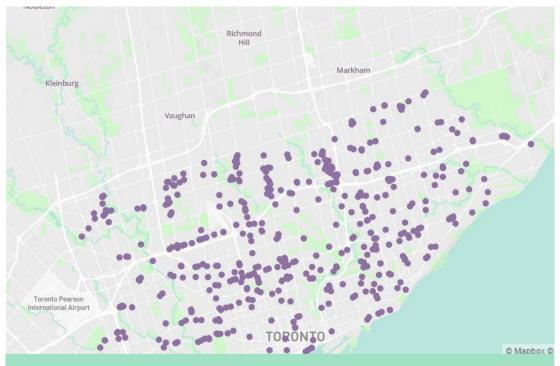
Communication

 Here's a picture of recycling bins placed outside the University of Boras, Sweden



Donation is Dependent on Convenience & Accessibility of Donation Boxes

- Convenience plays a big role in whether people will donate.
- 34% name accessibility as the main barrier to donation.
- Only 42% of the participants know at least one spot that is very convenient to reach.



Clothing Drop Boxes, Toronto, ON Katia Vasilyeva, Virginia W. Maclaren, PhD, MCIP, RPP, University of Toronto

Further Factors Influencing Donation Participation:

• Volume influences behaviour: People are more likely to dispose of garments in the waste when the volume is low.

When people dispose:

- Nearly 28% stated they that they get rid of their clothing whenever they noticed them.
- Nearly 27% of people keep their clothes for a spring and fall clean-up.
- 22% clean out their closets when there's no more room.

Disposal is Widespread

• 9% of the participants admit to dispose everything!

Why do we need to worry about this?

- 13,500,000 residents in Ontario
- 37.2 kg of textile waste each person per year

We estimated that Ontario alone produces more than 500,000 tonnes of **residential textile** per year.

Industrial Textile Waste



The not so low hanging fruit



Thank you