Textile Exchange

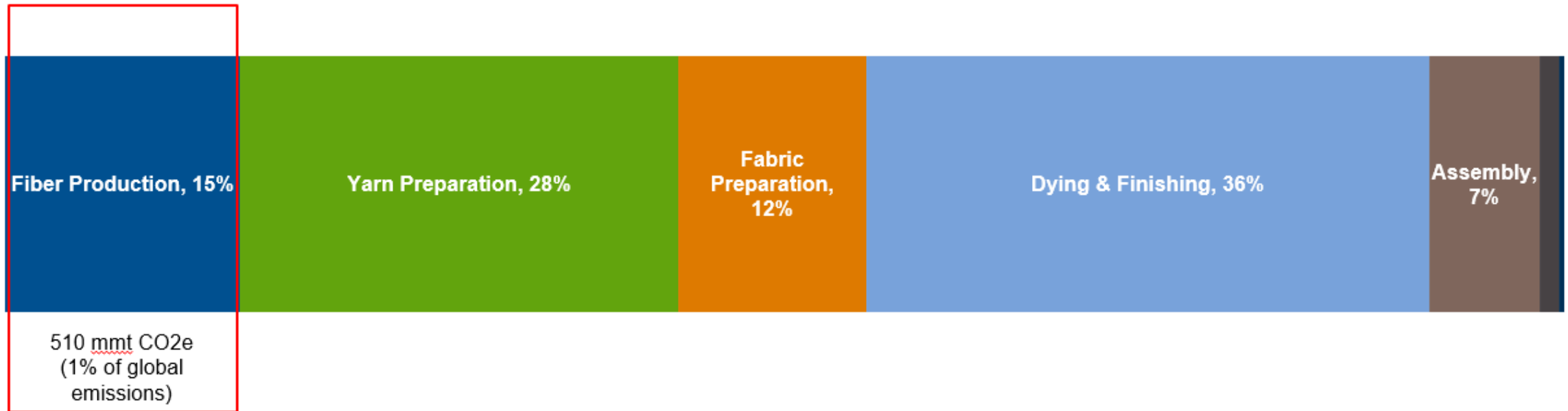## Home and Hospitality Recycling Project

December 3, 2019

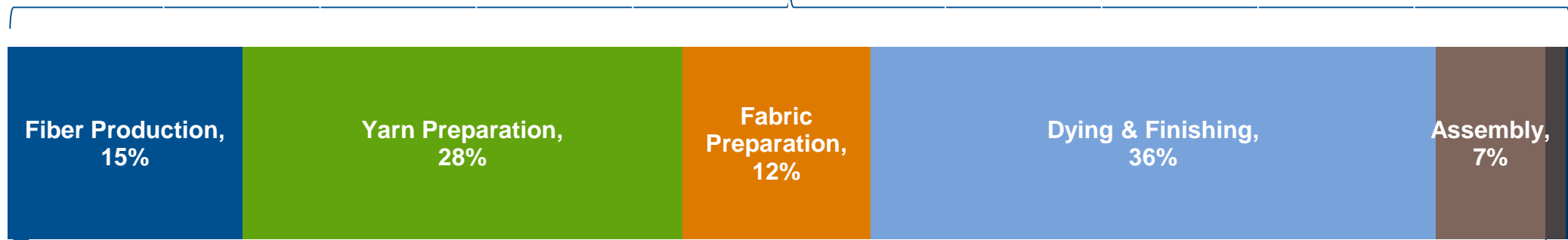# Textile Exchange's 2030 "Climate+" Goal

Textile Exchange will be the driving force for urgent climate action with a goal of 35-45% reduced CO_2 emissions from textile fiber and material production by 2030.

2016 Apparel CO2 Footprint (Quantis)

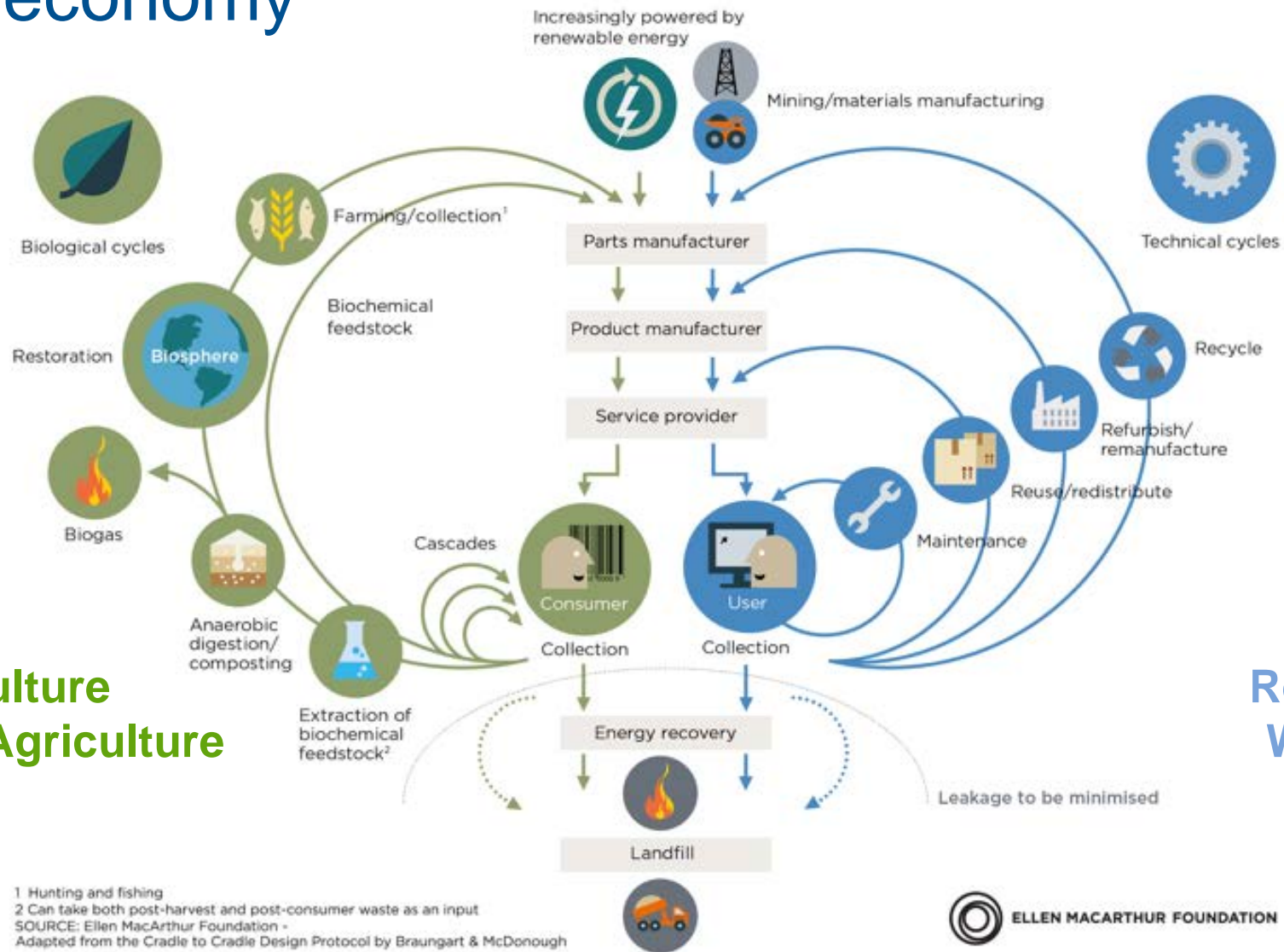3300 million metric tons of CO2e = 6.7% of global emissions

| Fiber Production, 15% | Yarn Preparation, 28% | Fabric Preparation, 12% | Dying & Finishing, 36% | Assembly, 7% |

510 mmt CO2e (1% of global emissions)

Climate partnerships

Circular economy

Organic Agriculture
Regenerative Agriculture
Biosynthetics

Recycled Material
Waste Reduction

Increasingly powered by renewable energy

Mining/materials manufacturing

Biological cycles

Technical cycles

Farming/collection¹

Biochemical feedstock

Parts manufacturer

Product manufacturer

Service provider

Restoration

Biosphere

Recycle

Refurbish/remanufacture

Reuse/redistribute

Maintenance

Biogas

Cascades

Consumer

User

Anaerobic digestion/composting

Collection

Collection
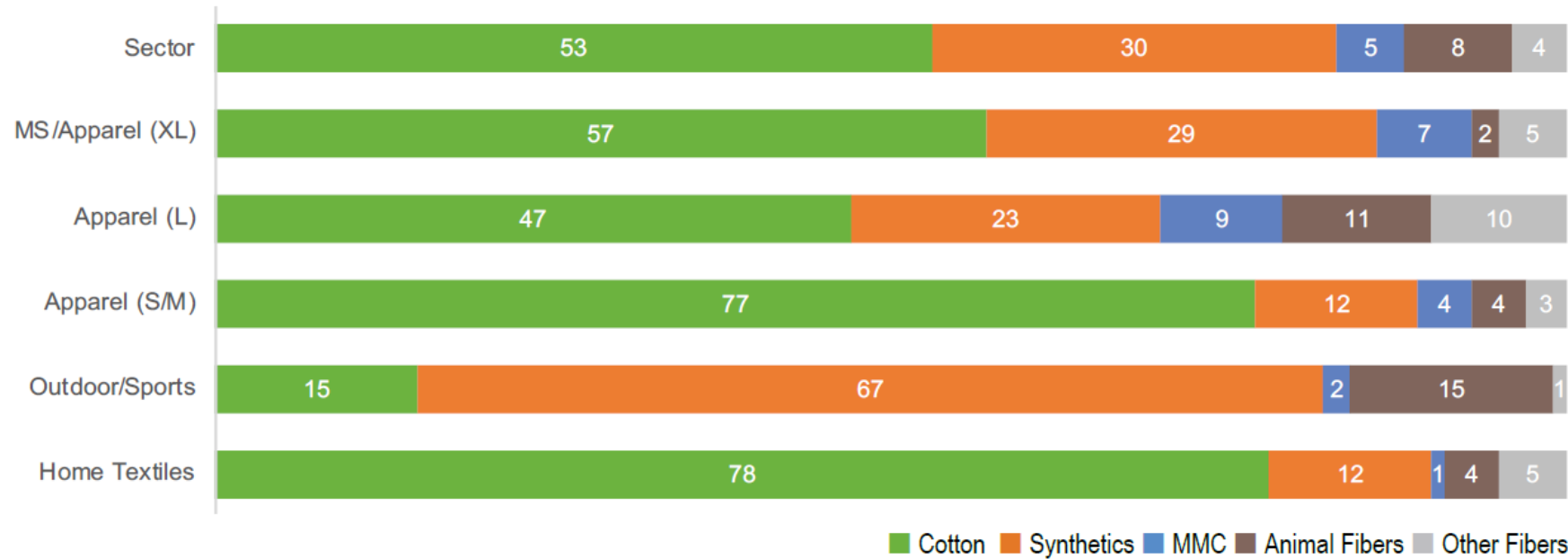
Extraction of biochemical feedstock²

Energy recovery

Leakage to be minimised

Landfill

1 Hunting and fishing
2 Can take both post-harvest and post-consumer waste as an input
SOURCE: Ellen MacArthur Foundation -
Adapted from the Cradle to Cradle Design Protocol by Braungart & McDonough

ELLEN MACARTHUR FOUNDATION

2018 Fiber & Material Portfolio

FM Usage Breakdown

+ FM Usage: Sub-Sector and Sector Estimated Averages (%)

Category	Cotton	Synthetics	MMC	Animal Fibers	Other Fibers
Sector	53	30	5	8	4
MS/Apparel (XL)	57	29	7	2	5
Apparel (L)	47	23	9	11	10
Apparel (S/M)	77	12	4	4	3
Outdoor/Sports	15	67	2	15	1
Home Textiles	78	12	1	4	5

Legend: ■ Cotton ■ Synthetics ■ MMC ■ Animal Fibers ■ Other Fibers

- H&H sub-sector had the highest cotton usage. The fiber and usage breakdown closely resembles Apparel (S/M)

Home and Hospitality Round Table:
Project in Development

- We are in process of connecting partners across the hospitality and recycling industries to get more used hospitality textiles into recycling facilities via their laundry partners.
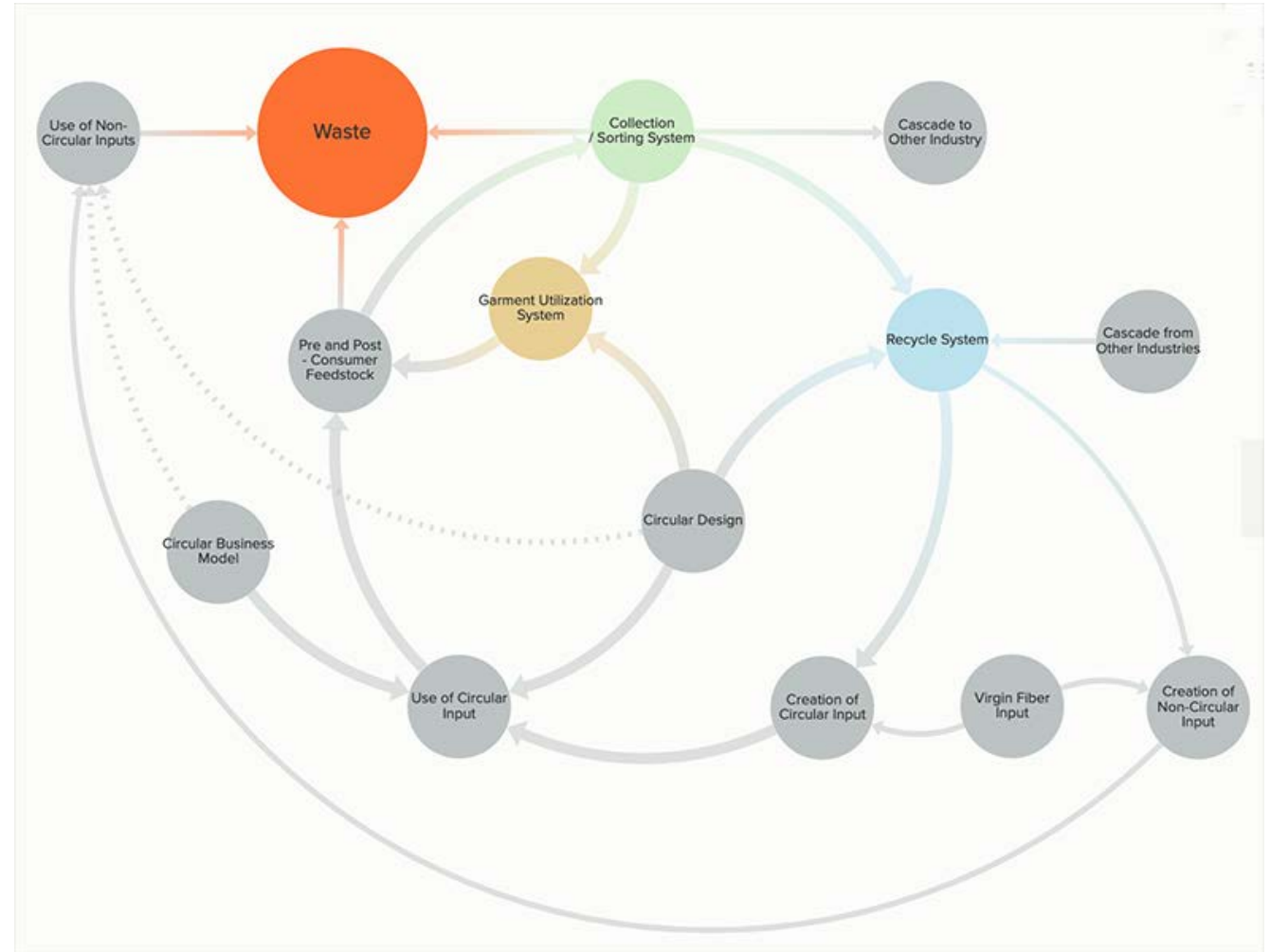
Home and Hospitality Round Table:
Project in Development

- Sheeting and towels are consistent weights and fibers, and can be easily recycled once a collection system is implemented, which would divert large quantities of textiles from landfills and back into feedstock.

Home and Hospitality Round Table:
Project in Development 2

- The longer term vision also involves leveraging hospitality locations as neighborhood collection sites, which can then in turn further increase the uptake into the system.

Thank you

TextileExchange
Creating Material Change

TextileExchange.org