ACCELERATING
CIRCULARITY

Accelerating Circularity Project

Telaketju 4
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SUPPORT PROVIDED BY

Gap Inc.

Walmart org

FOUNDING PARTNERS

Gap Inc.

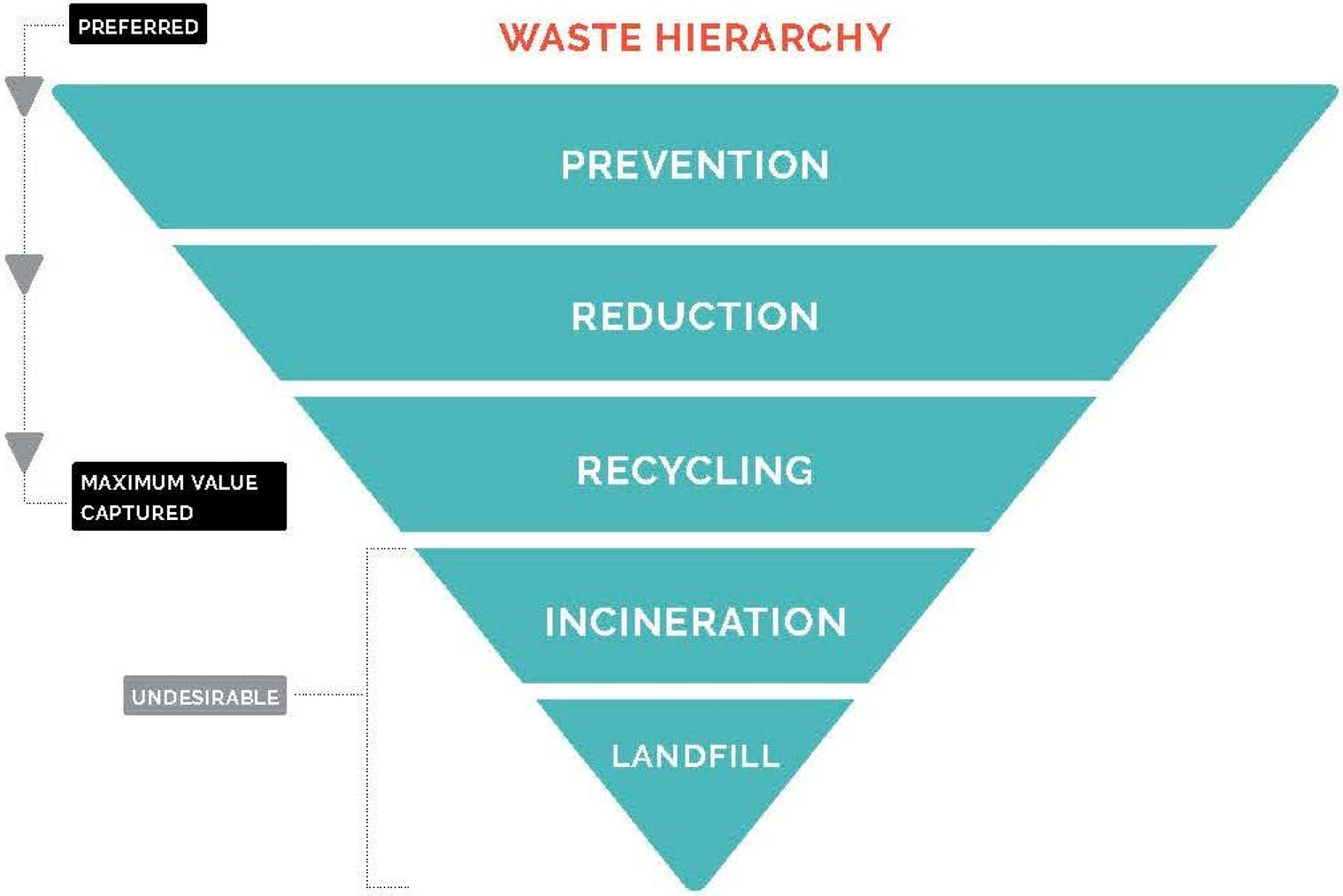
GIOTEX

REDUCE REUSE RECYCLE

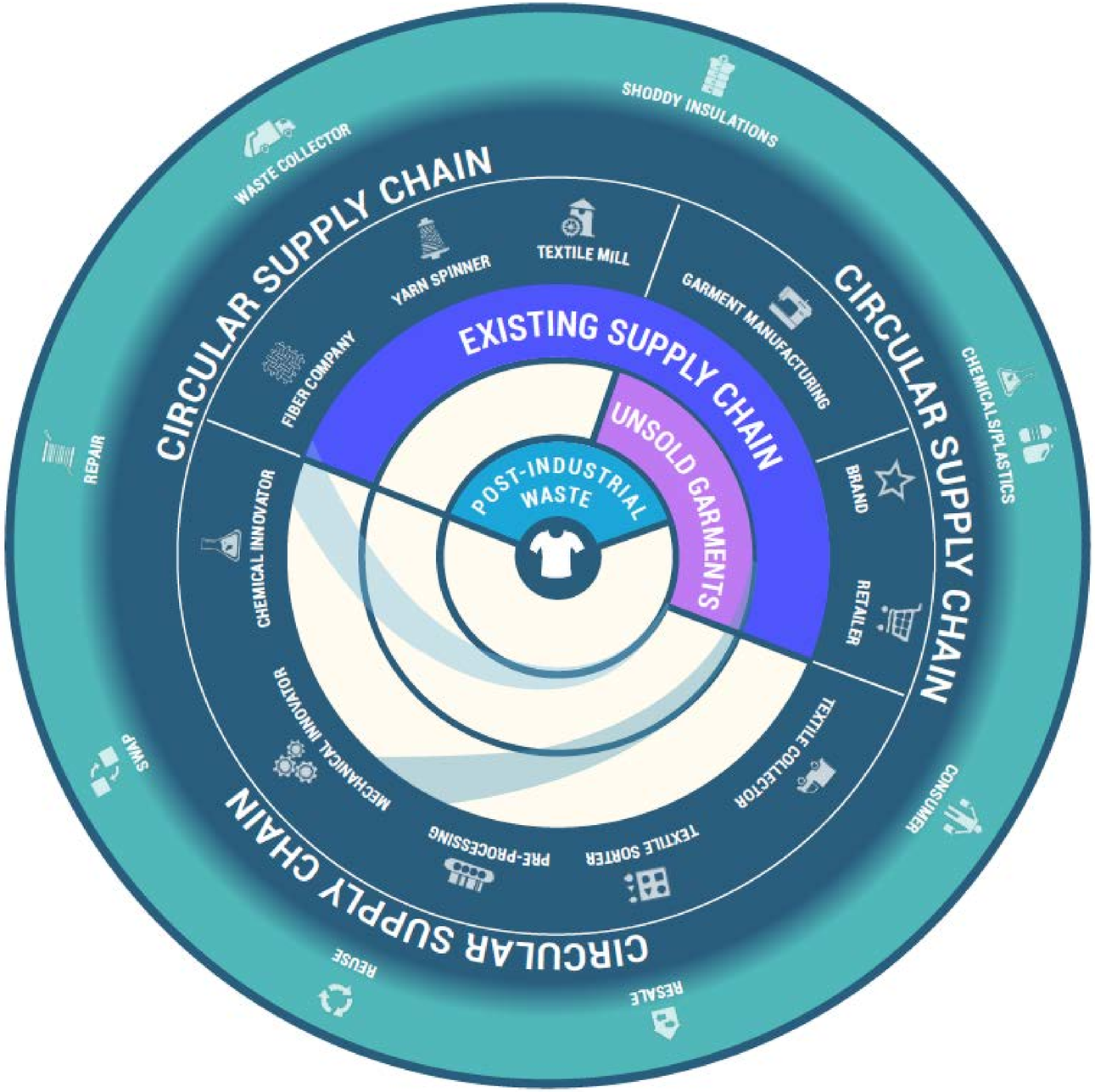
Tencel™ Feels so right

UNIFI

Why textile recycling?



Textile-to-Textile Circularity



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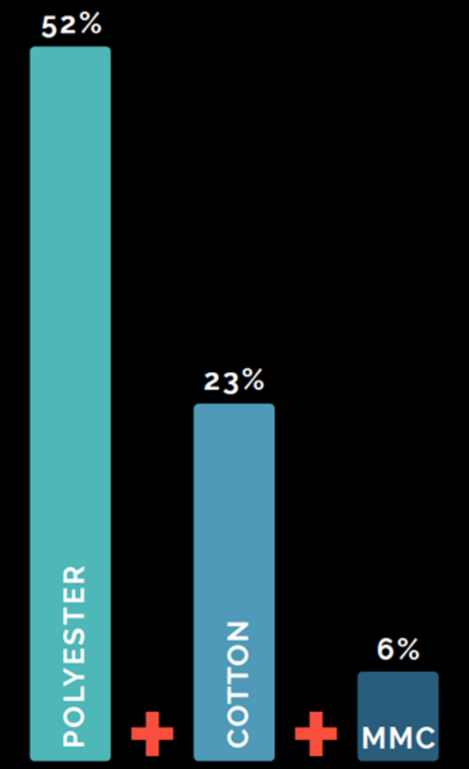
OUR SCOPE

We focus on polyester, cotton and manmade cellulosics for textile-to-textile supply chains. These three fibers cover over 80% of the textile market. Bottles, other packaging and agricultural and food waste are excluded.

Supply Networks include the east coast of the U.S., Caribbean Basin, Mexico, and Central America for the best opportunity and to align with functioning textile supply networks used by U.S. Brands and Retailers.

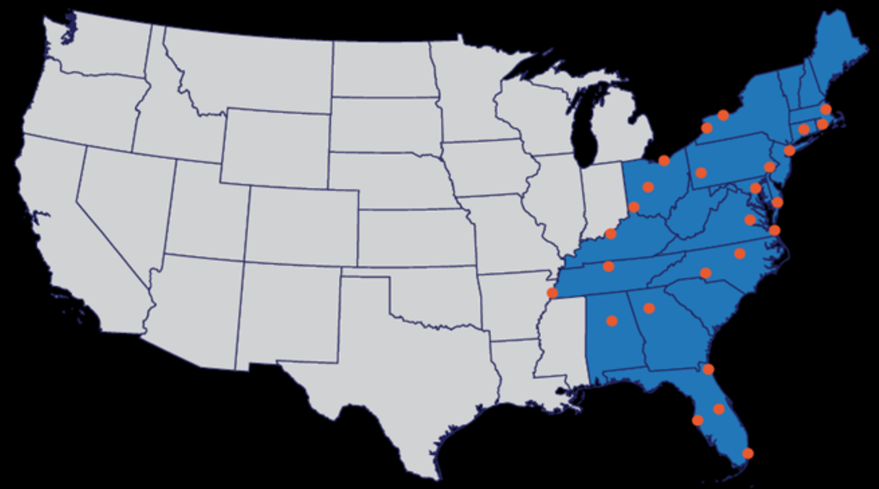
Brand & Retailers: All U.S. based companies

Recycling Technology types include both mechanical and chemical recycling. Recycler research is global based on the ability of technologies to be licensed or their outputs used by fiber producers in any location. Technologies cover polyester, cottons and blended fibers.



= 81%

of the textile fiber market



GEOGRAPHIC SCOPE

Post-industrial and post-consumer generation and concentration includes the east coast of the United States, where there is a high population density and existing textile supply networks. It includes 20 states and Washington, D.C. with a closer look at 26 metro areas.

STATES

Alabama
Connecticut
Delaware
Florida
Georgia
Kentucky
Maine
Maryland
Massachusetts
North Carolina
New Hampshire
New Jersey
New York
Ohio
Pennsylvania
Rhode Island
South Carolina
Tennessee
Vermont
Virginia
West Virginia

METRO AREAS

New York, NY
Washington, D.C.
Miami, FL
Philadelphia, PA
Atlanta, GA
Boston, MA
Tampa, FL
Baltimore, MD
Orlando, FL
Charlotte, NC
Pittsburgh, PA
Cincinnati, OH
Columbus, OH
Cleveland, OH
Nashville, TN
Virginia Beach, VA
Providence, RI
Jacksonville, FL
Raleigh, NC
Memphis, TN
Richmond, VA
Louisville, KY
Hartford, CT
Birmingham, AL
Buffalo, NY
Rochester, NY

Spent post-industrial textiles (tons)

NAICS Code	Tons of Spent Textile Materials to Landfill
3132 + 3133 Fabric Mills, Finishing, and Coating	39,500
3141 Textile Furnishing Mills (Curtans and Linens)	14,750
3149 Other Textile Product Mills (Textile bags and Canvas Mills)	31,250
3152 Cut and Sew Apparel Manufacturing	4,500
TOTALS	90,000

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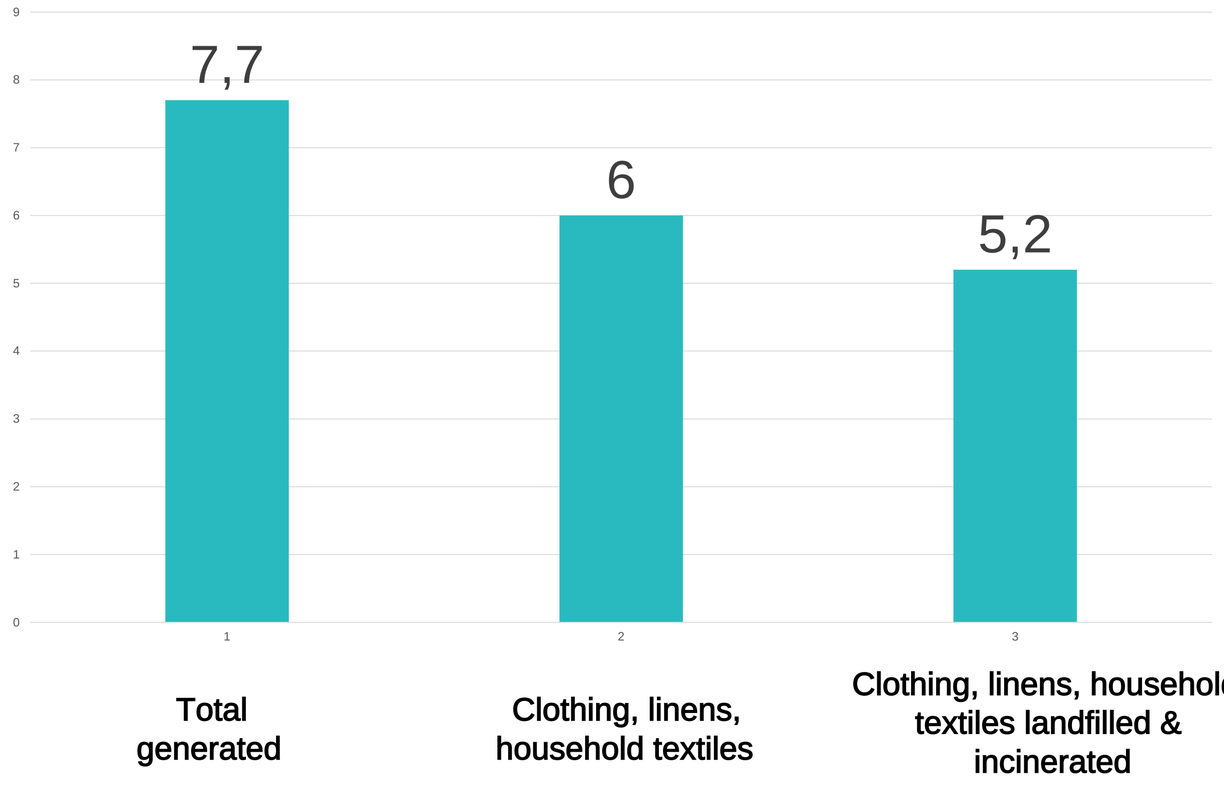
Spent post-consumer textiles (millions of tons)



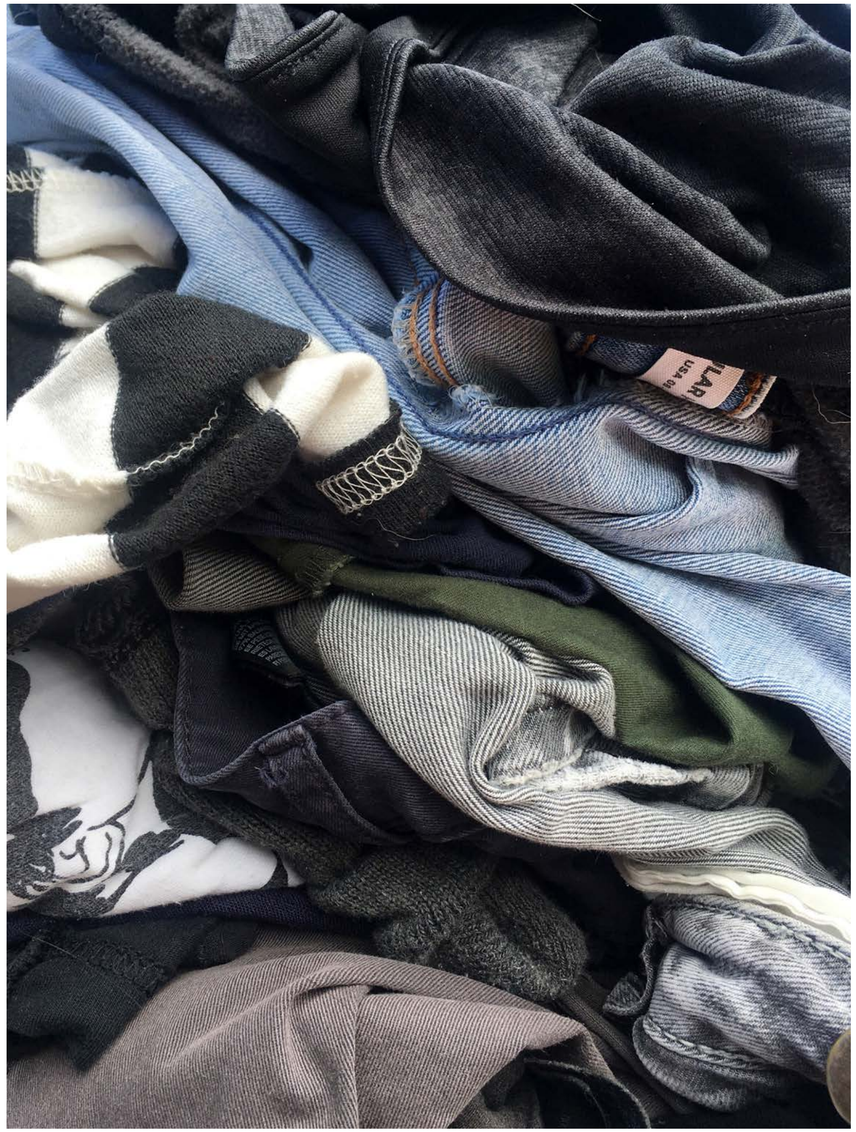


Photo by Alejo Reinoso on Unsplash

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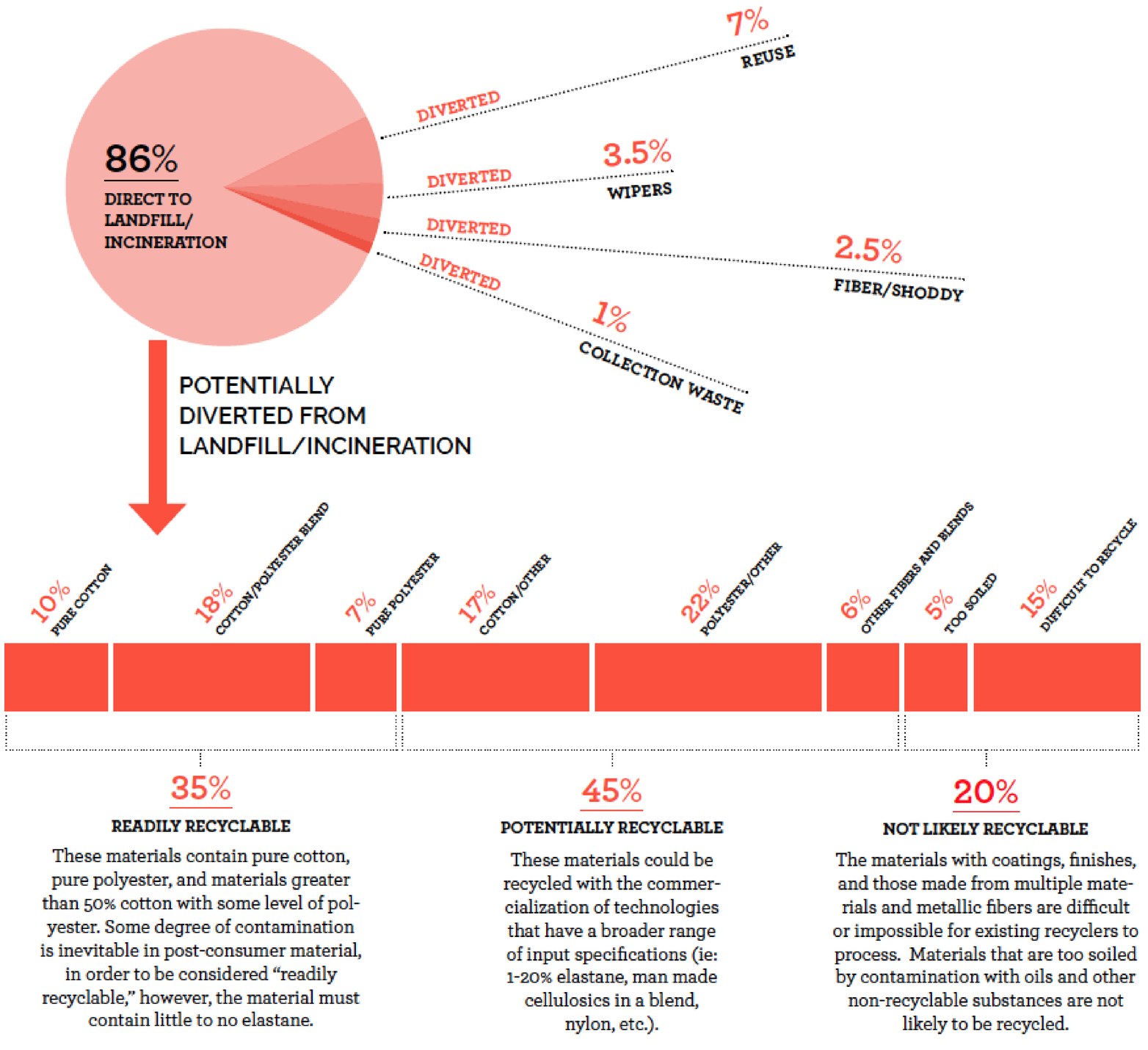
What is there to recycle?



How do we collect & sort?

How do we collect & sort? - Sorters

Post-Consumer Textile Recycling Ecosystem

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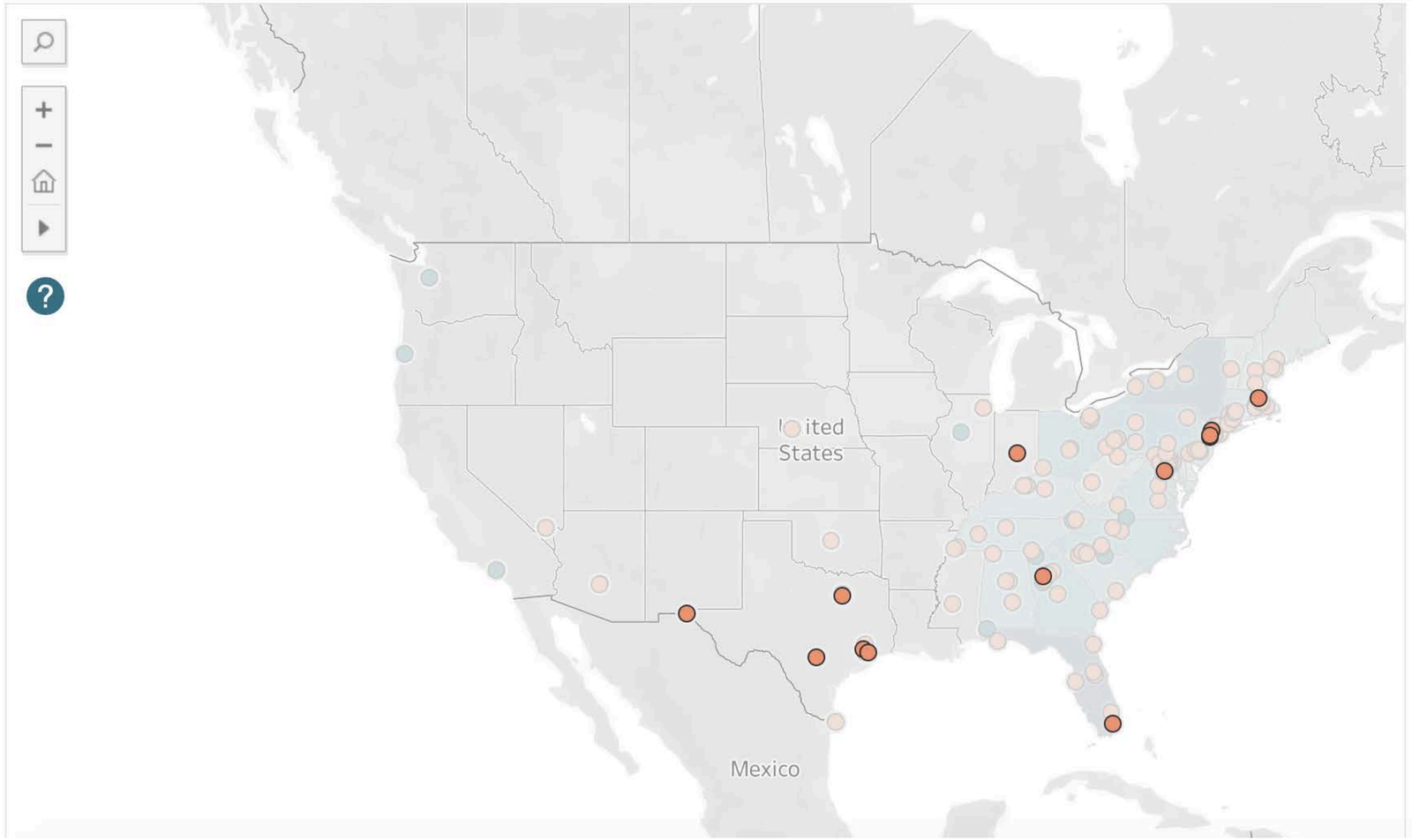

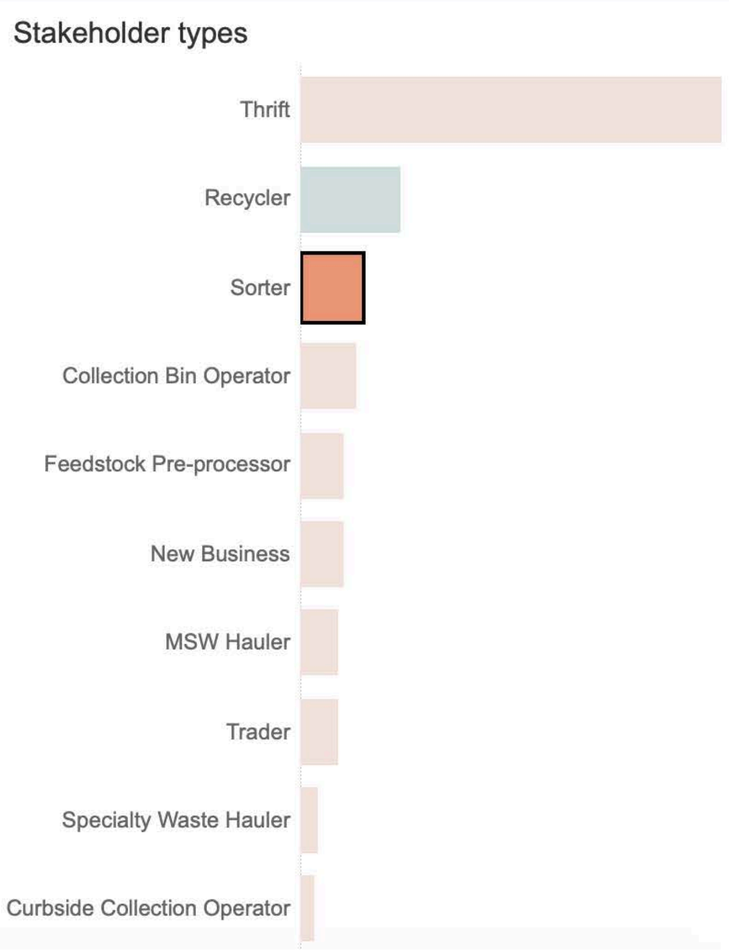

How do we collect & sort? - Preprocessing

Post-Consumer Textile Recycling Ecosystem

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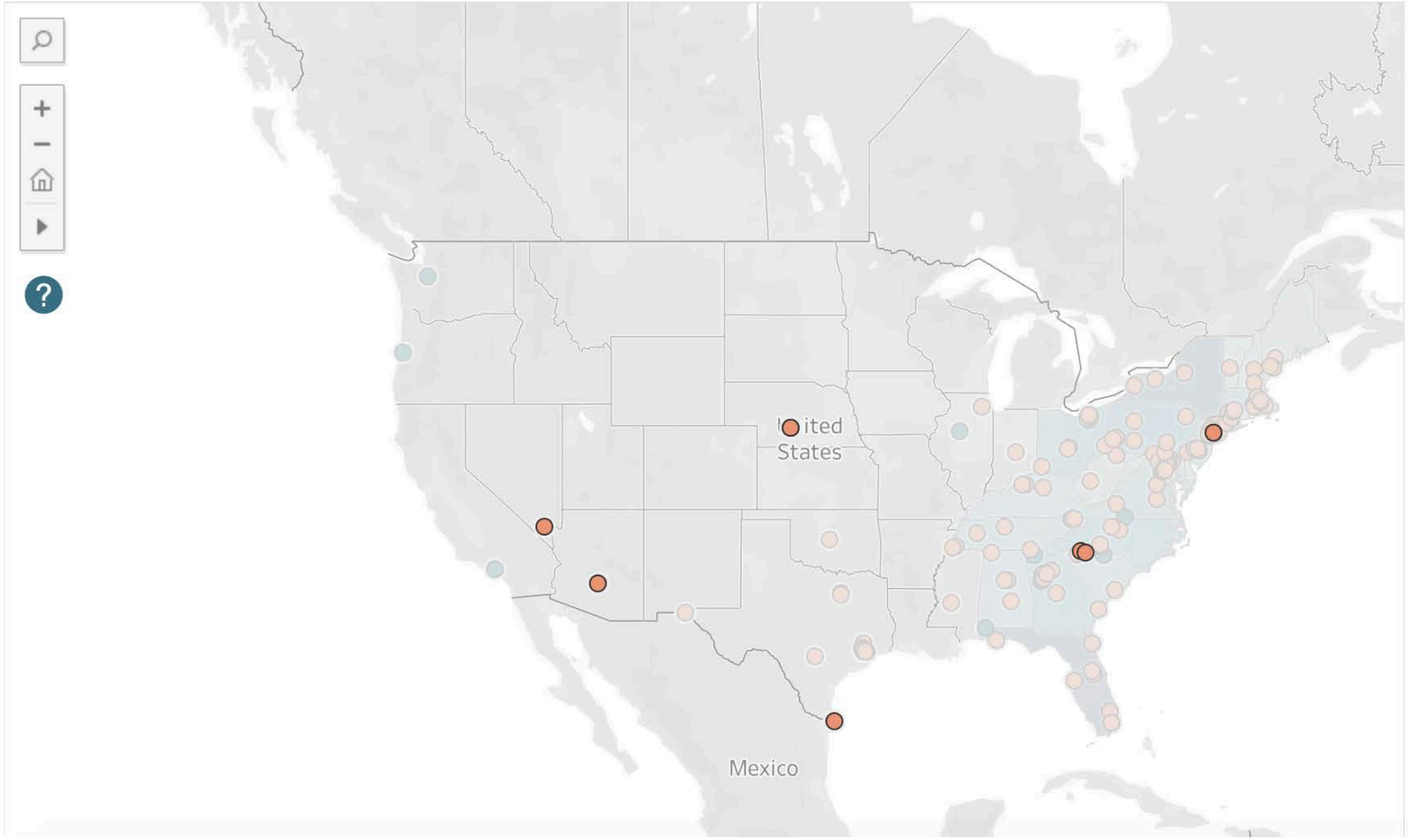
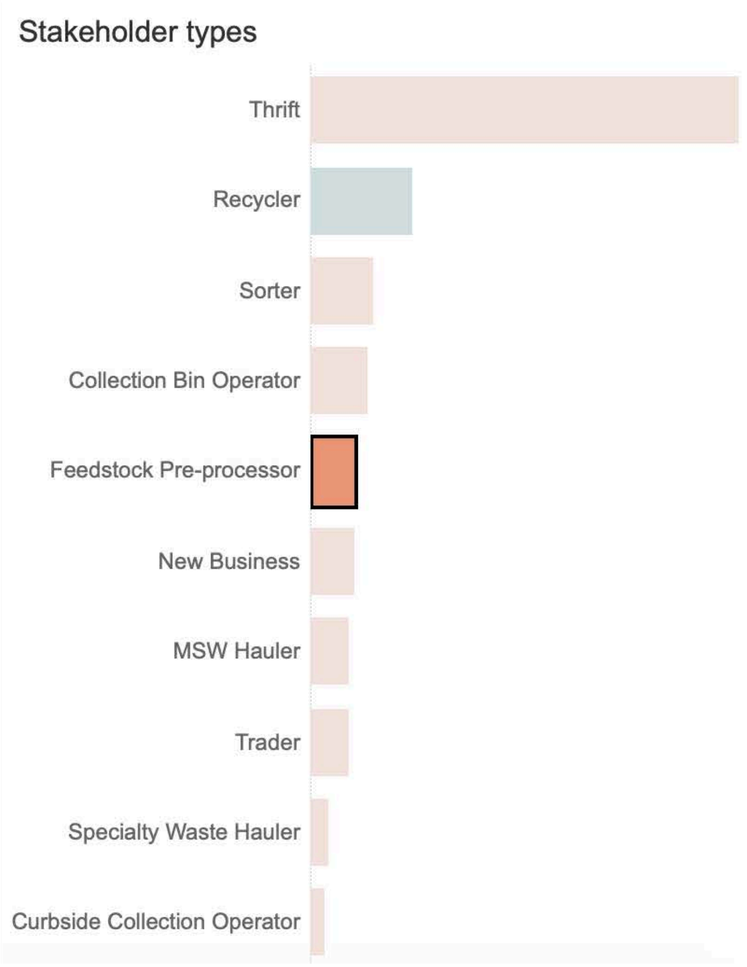
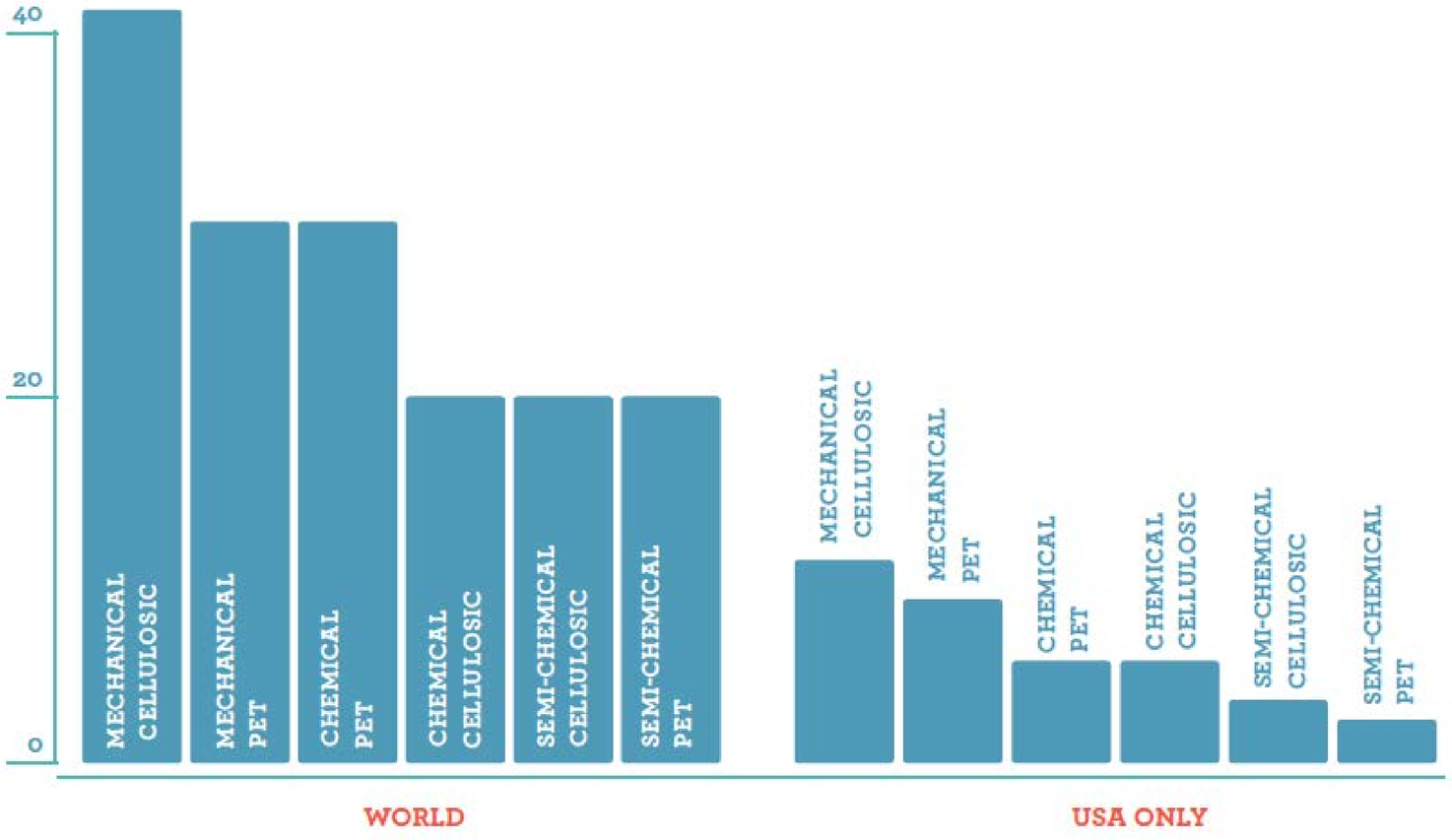


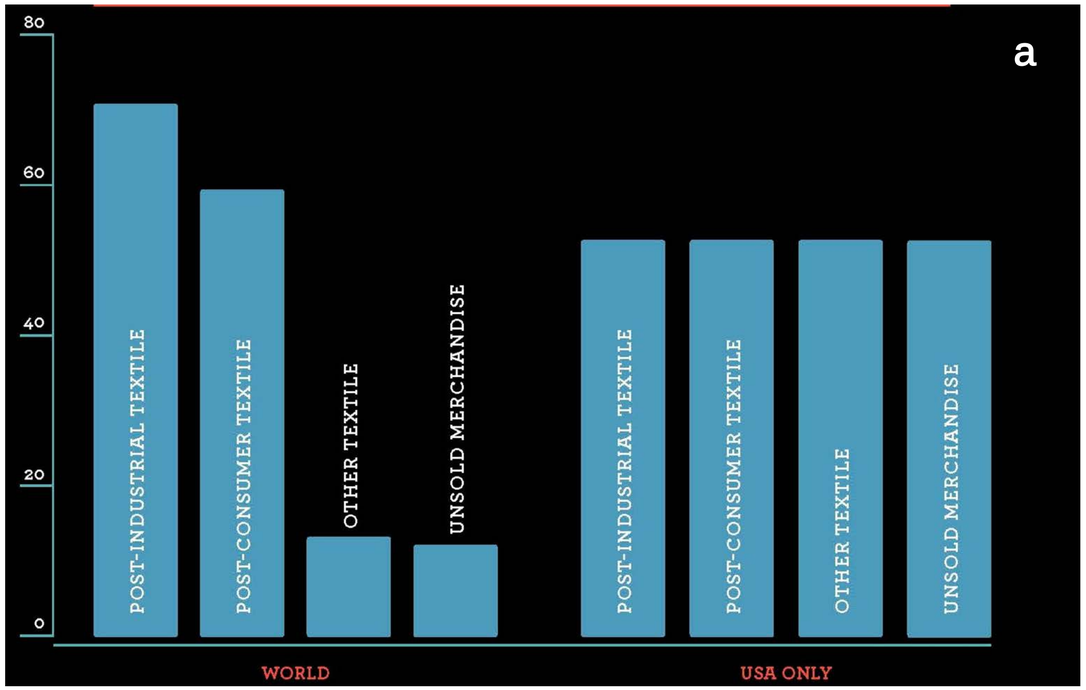


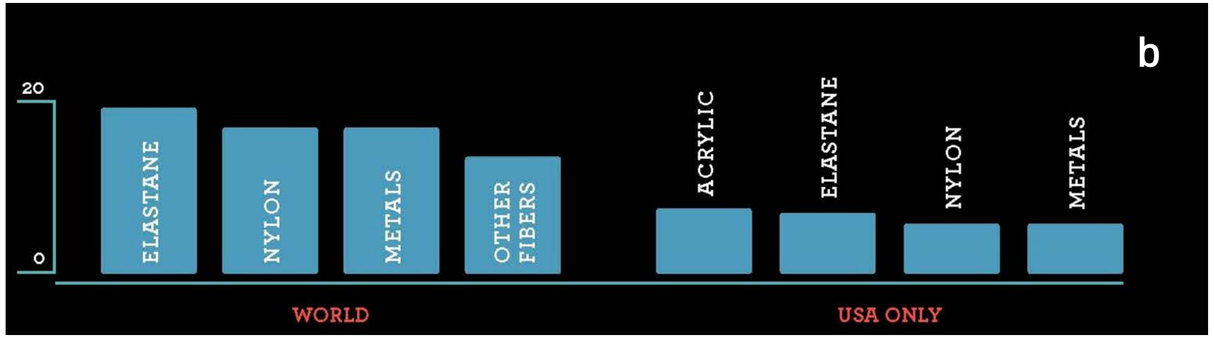
Who will recycle it?



What can they recycle?

Global and US snapshots of recycler profiles by a) feedstock type and b) fiber restrictions

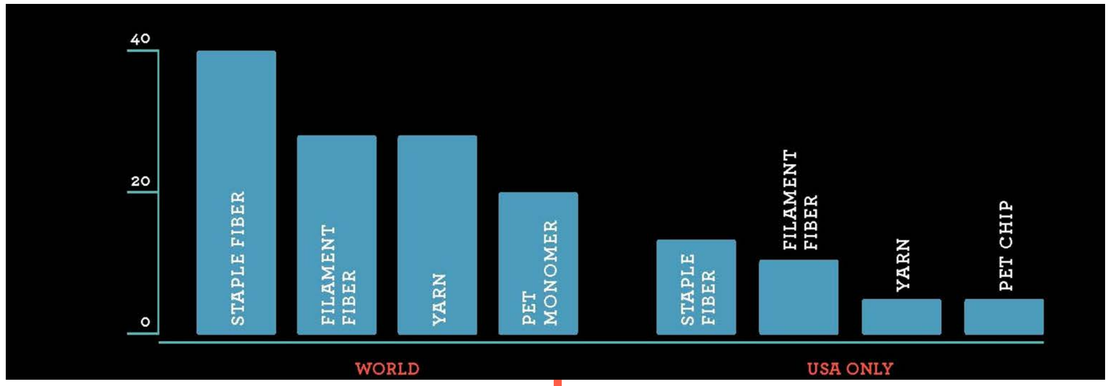




Other common restrictions include color, format, and construction

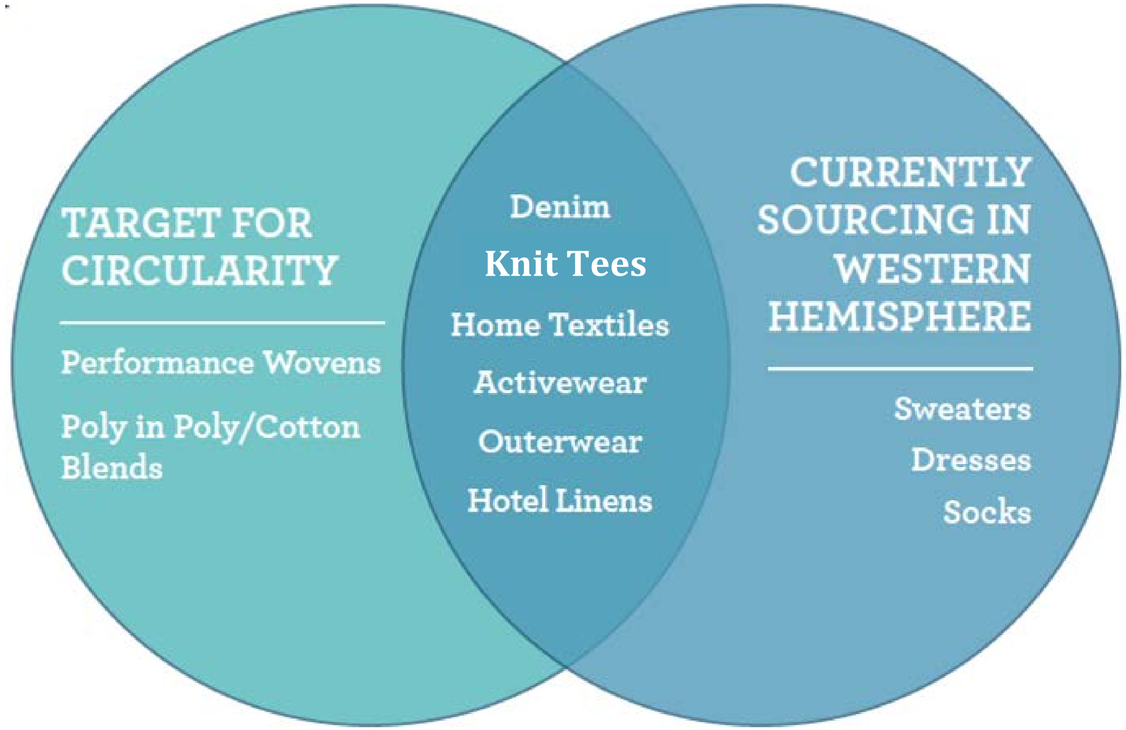
What will we make?

Recycler outputs



Fabric production

Target products in geographic scope



Who will buy it?

Photo by Anna Dziubinska on Unsplash

Our Ask

Brands & Retailers
Collectors & Sorters
Preprocessors
Recyclers

www.acceleratingcircularity.org/research

We need collaborators who work on Design/Consumers/Policy

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Karla Magruder

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