### ITMF 2020 Seoul and Virtual

**Recovering from an Addiction to Low Prices:** 

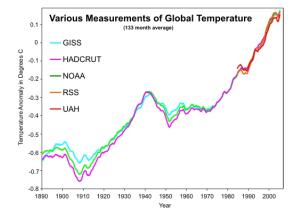
**Three Insights** 

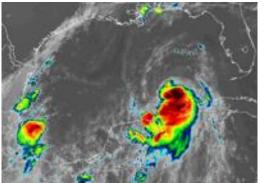
Rick Fowler CTO, Youngone Corp.

### The Situation is Compelling



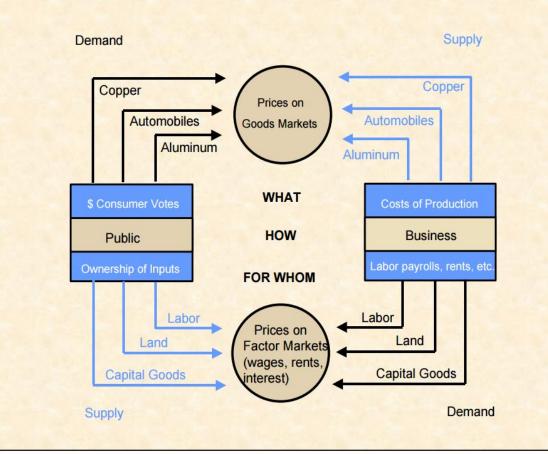








### 1<sup>st</sup> Classical Economics: Value-Added Pricing But We Forgot to Charge for Mother Earth



1961, Neo Keynsian "Competitive Price" System

The value of "Land" was not quite broad enough to remind us that Mother Earth might become ill.

**1980's, Monetarist economics demand pricing** moved to the Developing World, Trader's thrived. **We became addicted to low prices.** 

# 2<sup>nd</sup> Wave, Media: Internet Shopping Habits

North America 1990

North America 2020

**CENTRAL BUYING+Ctr. MARKETING** in full swing - enabling many, many stores **CENTRAL MARKETING** tells us what to buy

The **CONSUMER** follows the **MASSES** 

**MORE is BETTER**, resulting in unseen waste and excess

Department & Mass Market Retailers **RISE**  **Internet** becomes the Department store. **THE CONSUMER** becomes the **BUYER**,

Consumers SELECT ITEMS for THEMSELVES Rejecting Central Marketing

The CONSUMER prefers INDIVIDUALITY

**LESS** is **MORE** – reduce waste, value sustainability

Department & Mass Market Retailers FALL

The consumer has never had as much **POWER** or been closer to the manufacturing process than **NOW!** 

#### **MARKETING** says what to buy



#### North America 1990

#### **CONSUMER** decides what to buy



North America 2020

## THE EDUCATED "REAL" CONSUMER



# THE "MIRNAVATOR"

Breaking barriers and shattering stereotypes. Promoting diversity and inspiring others.



# 3<sup>rd</sup> Wave: e.g., Performance Synthetics

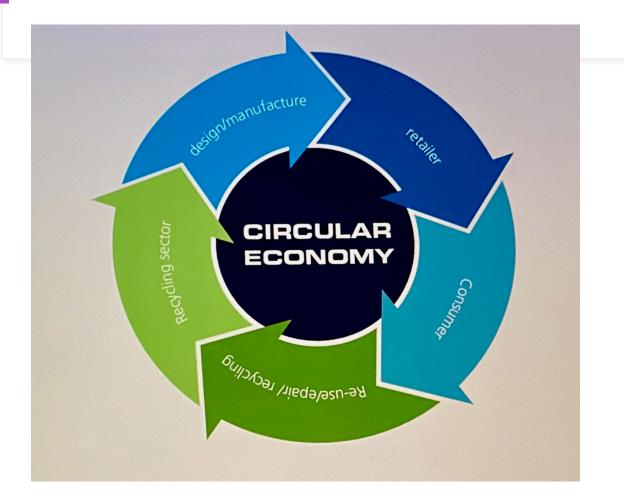
#### **Engineering : Refinement : Engineering**

- --1950's
- 1960's
- 1970's
- 1980's
- 1990's
- 2000's
- 2010's
- 2020's

- polymer science
- improve yarn
- finishes, coatings
- Asia era \$fiber
  - Wicking, laminate
  - China expands
  - finishes better
  - polymer science

- Nylon 6,6 military surplus; stockings
- Nylon jersey dresses; 70D weaves
- Siliconized PET, Abba era; Cordura
- Nylon 6, Kodra; **50D** weaves; microfiber
- **30D** weaves, wicking; Gore, Sympatex®
- 20D weaves; Scotchgard end production
- PFAS found in Antarctic penguins' milk
- ECO to Sustainable to Circular, more knowledge: more complexity

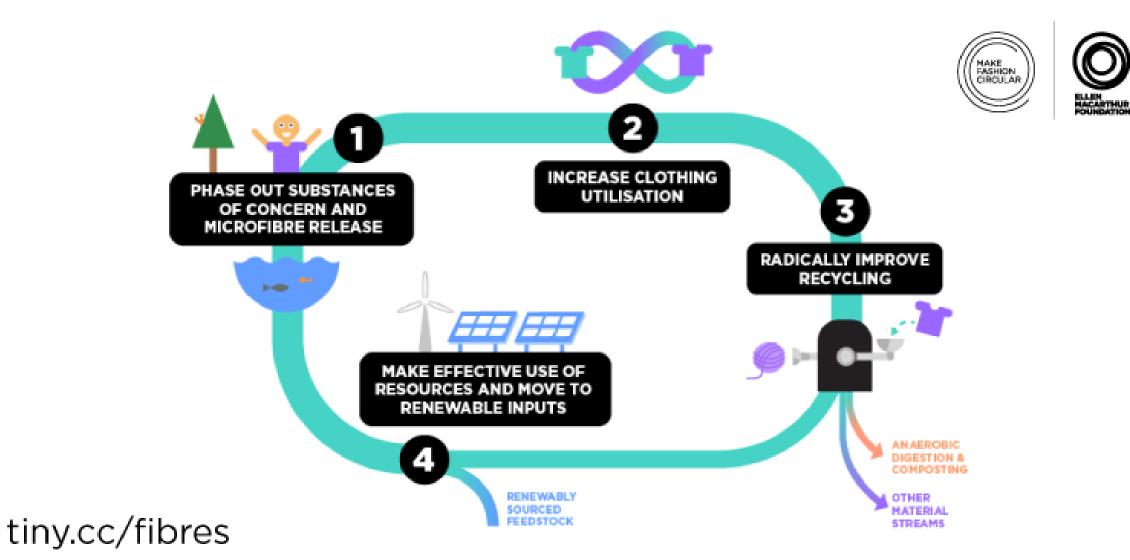
### The Goal for Our Industry



Currently the vertically oriented already participate heavily in 4 of the 5 sectors.

Only re-use/repair/recycling remains for us to engage.

# **Our Circularity Opportunities Today**





#### **Amplify Current Best Practices:**

Mechanically Recycled PET Long Chain Nylon Durability, +bio based Lenzing Process MMCF

**Embrace water and energy reduction** in production: Low Liquor, Dope dye; CO<sub>2</sub> Dye; Digital Printing, Sublimation Printing



#### **Embrace New Sources ASAP**

Monomer-Level Recycling Molecular-Level Recycling

Support Novel Sources, by aggressive vetting (recognizing this is like developing a vaccine) 15 year development of PHA's,

We should be able to be strong supporters in this work by **aggressively engaging to promote them** 



Workwear brands, rental uniform makers, and the hard-use outdoor community all value this.





Design for Longevity As Game Changer



#### Take the Big Challenge to Design Past Multi-Material Products

While new alternatives are developing, become specialists to design and offer items by:

- **single material**, as in flat and seamless knits
- Conscious Single-material-pieced items and can be **labelled** to ensure Full Life and EOL
- long life
- high value resale
- cascaded re-use

# 3. EU's Extended Producer Responsibility



### Expra

EPR in the EU is a tool for producers to deliver the lifecycle management of their products:

- Manufacture for easy repair and dismantling into easily recyclable units at end of life
  - labelled for sustainable long life
  - circular high value re-sale
  - or cascaded re-use
- Promote end of life management
- Design of the package and product
- Choice of materials to promote sustainability
- Utilization of recycled content

### 3. Refining the EU's EPR Initiative...



Austria **STANDORTE INKL.** REPARATURNETZWERK WIEN

Courtesy Matthias Neitsch www.rreuse.org

# 3. Emerging Clever Recycling

#### "Should be ...easy to communicate to the consumer"

Seattle, USA: Ridwell, local initiative specifically to collect hardto-recycle items, clothing mostly cascaded high use.





Swiss: On Running, shoe subscription for collection ease



USA: Hefty Energy Bag, destined for Pyrolysis



MAKE EFFECTIVE USE OF RESOURCES AND MOVE TO RENEWABLE INPUTS

### RENEWABLY SOURCED FEEDSTOCK

# 4. Our Best Opportunities Now

Offer Recycled or Best New Circular Material Choices



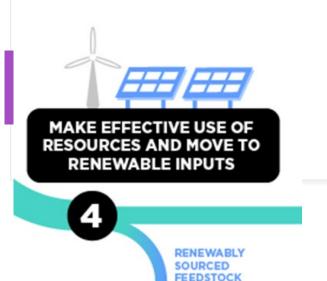


#### **Demand for Recycling**



Ingka Investments/Sustainability:

 INGKA (Ikea) announced on 2<sup>nd</sup> September 2020 a commitment to invest an additional EU 600 million to enable the transition to a net zero carbon economy – increasing the overall investments into sustainability to EUR 3.9 billion.

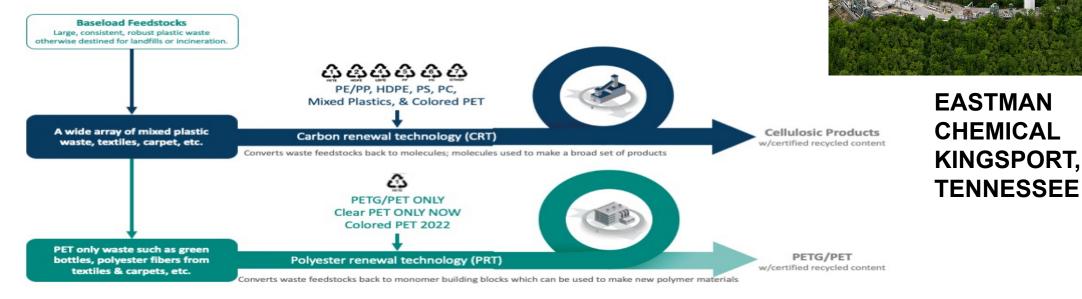


# 4. Our Best Opportunities Now

Offer Recycled or Best New Circular Material Choices



#### Creating value from waste: new life for reclaimed plastic



# Many are working on Circular Futures

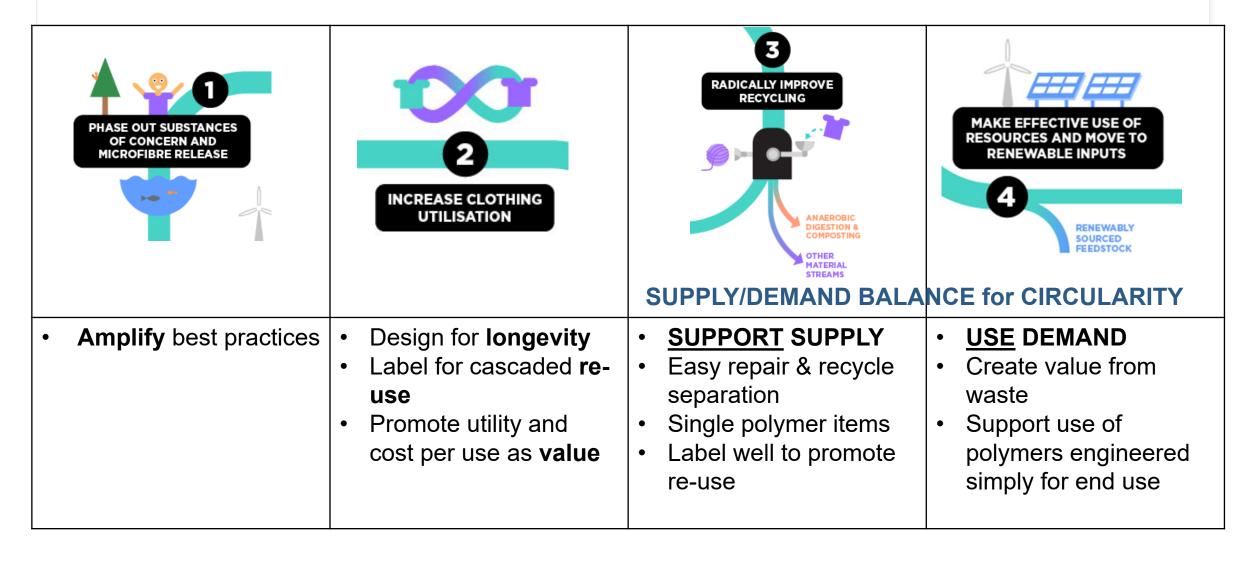
- Adidas
- Infinited
- BASF
- Natureworks
- Eastman
- Fulgar
- Erema

- Oerlikon
- NGR
- Ikea
- Invista
- DuPont
- Exxon
- BarMag

- Omya
- Zimmer
- Braskem
- Danimer
- Dow
- Sabic
- Bolt

- Patagonia
- On
- Arkema
- PureCycle
- BlueCON
- Nylstar
- and more!

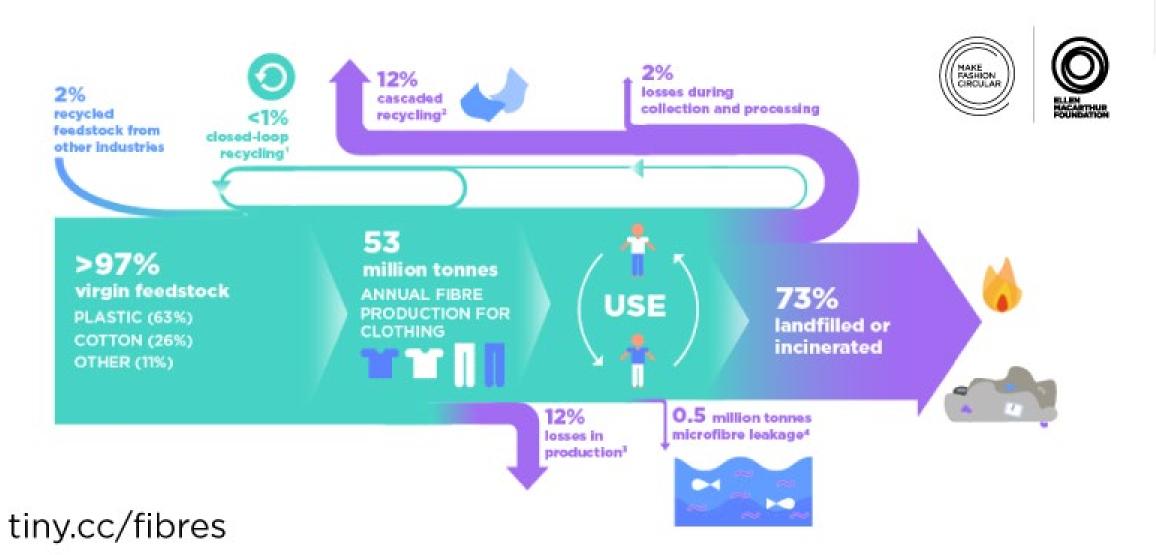
## Summary of Opportunities



### An Urgent Agenda

- All Stakeholders engage in a New Supply/Demand Balance of Recycling
- Keep pricing real with **New Supply Chains Based On Value-Added** Costing: No time left for cat and mouse. Give The **Windfall to Mother Earth**.
- Favor Geographically Efficient Supply Chains: Short Roads save CO<sub>2</sub>
- Use Our Forums to Collaborate and Create Simple Circular Solutions: ... It's Like Emergency Vaccine Discovery for our Planet

### The Goal is Clear ... Reduce Waste



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