Briefing on ongoing work on circular economy - circularity in other sectors:

Circular economy, trade & sustainable development in the textiles and clothing sector

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TESSD Working Group on Circular Economy – Circularity
Circular economy and sustainability challenges

The ‘fast fashion’ phenomenon

• Global production has almost doubled over the past 15 years, driven by increased sales in more advanced economies and rising demand from a growing middle-class in developing countries.
• During the same period, the number of times a garment is worn before being discarded has decreased by 36%.
• Less than 1% of the material used to produce clothing recycled into new clothing. A large proportion ends up dumped on landfills, polluting water and soils.

Sustainability challenges

• **Economic:** Key source of growth & export revenue for many developing countries (e.g., cotton & synthetic fibers & manufacturing of textiles) but downward pressure on prices in global supply chains.
• **Social:** 300 million people employed but high risks of exploitation, underpayment, forced labor, health risks and abuse, particularly for women.
• **Water:** 215 trillion liters of water per year for production of fibers, bleaching, dyeing & finishing.
• **Land:** Cotton production accounts for 16% and 4% of global pesticides and fertilizers use, despite occupying only 2.5% of arable land.
• **Climate:** Wet processing, synthetic fiber production and laundering represent 8% of global GHGs.
• **Pollution:** Use of toxic chemicals affecting workers and drinking water. The sector accounts for 9% of annual microplastics released in the oceans.
Selected aspects of a transition to a more circular textiles sector across full life cycle

Narrowing resource flows

- A shift towards safe, recycled, or renewable inputs:
  - Sustainably sourced cotton & wood-based fibers,
  - Low-energy, low-water, & nature-positive production methods,
  - A significant reduction in the use of virgin non-renewable materials.

Slowing resource loops

- Keep textiles in use for a longer time:
  - Eco-design requirements & production of long-lasting, repairable textiles;
  - Second-hand use;
  - New service models such as clothing rental.

Closing resource loops

- More post-use options, along with drastically improved, environmentally sound recycling systems & technologies when materials reach their end-of-life.
Trade & sustainable development dimensions to a circular transition in textiles and clothing

- 4 percent of world exports, representing a critical share of developing country exports (more than 50% for Cambodia, Pakistan or Benin, up to 80% in Lesotho and Bangladesh).
- International supply chains, footloose investments & short-term, unpredictable contracts
- Developing countries confined to low value-added segments (raw material, labor-intensive tasks), & developed countries responsible for design, marketing and higher value-added activities
- Trade in second-hand textiles raises critical challenges for developing countries (next slide)
- Trade impacts of new CE requirements: extended producer responsibility, eco-design policies, circular procurement, standards & regulations, traceability. Impacts vary depending on:
  - Extent to which countries produce & export clothing made of natural or synthetic fibers,
  - Ability to manage inputs used & post-industrial waste, access technologies & establish env. sound recycling facilities.

Key trade-related issues & challenges

- Supply chain traceability
- Differences in requirements, standards, etc.
- Product vs process approaches to circularity
- Positive vs negative incentives to meet sustainability criteria
- Concerns about impact of trade in second-hand textiles
Exports or re-exports of second hand and used clothing to developing countries are raising significant concerns.

- A large proportion ends up dumped on landfills or open spaces, polluting water and soils in developing countries.
- Raises concerns of unfair competition with domestic producers (of inputs & final products)
- Limited facilities & investment for recycling or participation in remanufacture supply chains

Source: Chatham House circular economy trade data explorer, https://circulareconomy.earth/trade