

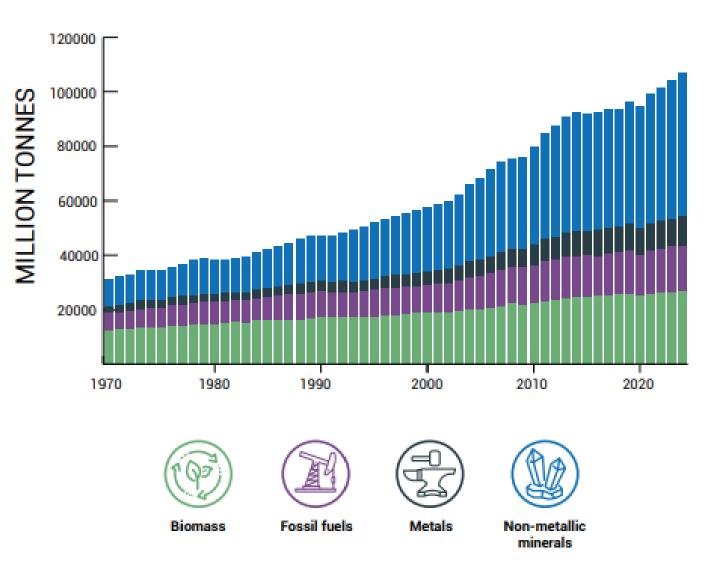
# Overview of High-impact Sectors: Metals and Minerals Textiles

Janyl Moldalieva United Nations Environment Programme

27 March 2024

# Global Material Extraction

- By 2060 resource extraction could rise by 60% from 2020 level.
- Built environment and mobility are the leading drivers of material demand, followed by food & energy.



Global material extraction, four main material categories, 1970 – 2024, million tonnes (Source: UNEP-IRP (2023) Global Material Flow and Resource Productivity Database )

## Mining Industry Responsible for:

### Pollution:

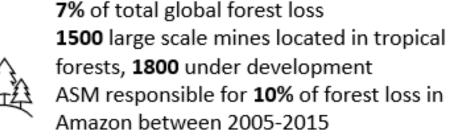
ASGM largest anthropogenic source of Hg emissions (1000 tons, **40%** of global emissions) Risk of wide-spread contamination through tailings dam failures, toxic emissions, acid mine drainage

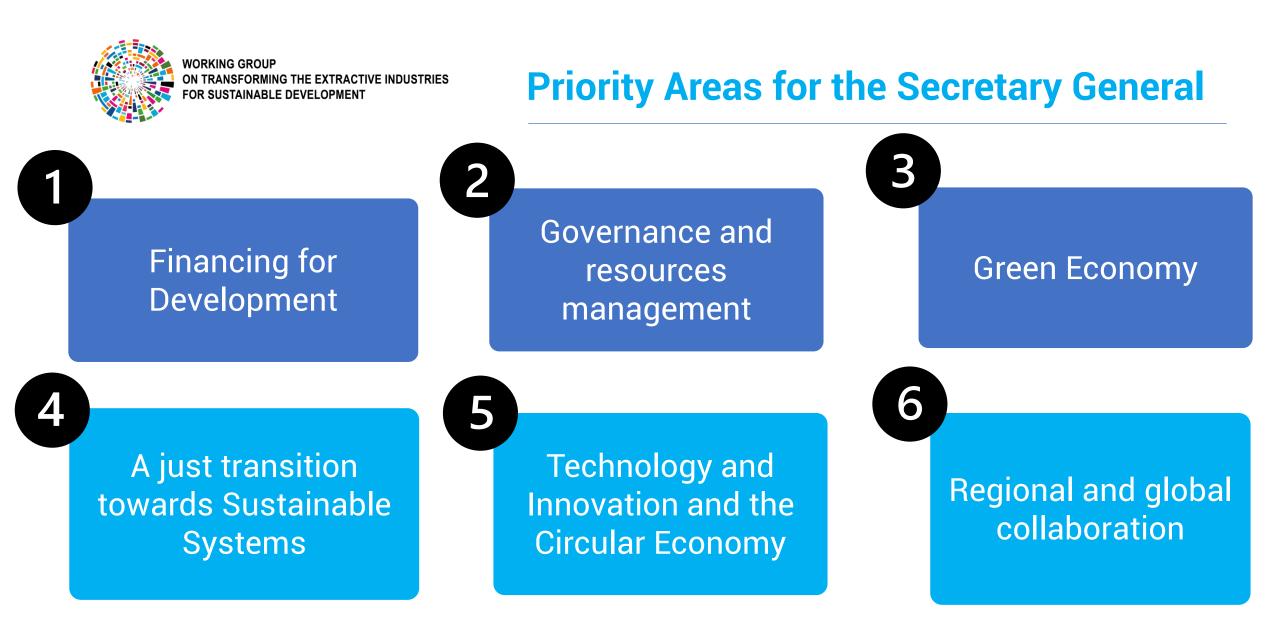
#### Climate



8% of global CO2 footprint
3-6% of methane emissions from fugitive emissions in coal mining
28% scope 3 GHG emissions in supply chains

#### Nature:





# UNEA Resolutions

### **UNEA-5** Resolution

- Intergovernmental regional consultations to develop nonprescriptive proposals
- Knowledge gaps in relation to the environmental aspects of tailings management;

### **UNEA-6** Resolution

- Establish a digital knowledge hub with good practices
- Develop capacity-building opportunities on environmental aspects of minerals and metals
- Cooperation among MS on policy, technological, technical, and scientific aspects

# UNEP Work on Minerals and Metals: Pollution and Waste

Vision: The mining and metals sector becomes an integral part of the green transition by

- sourcing critical materials for renewable energy technologies responsibly,
- reducing negative environmental impacts, and
- advancing recycling and circular design.

Impacts Results

### Pollution

Impacts of pollution are minimized, working towards zero harm to people and the environment.

- A Global Tailings Management Institute (GTMI) is established as a centre of expertise on mine waste and certification of waste facilities
- Mining companies adopt Global Industry Standard (GISTM) on Tailings Management as standard practice
- Governments require mandatory adoption of GISTM
- Mercury free artisanal gold mining

# **UNEP Work on Minerals and Metals**

#### Outcomes

- 1) Member States adopt principles for responsible and sustainable mining sector
- 2) Industry adopts responsible business practices along the entire value chain
- 3) Reduced impacts of minerals and metals on climate, biodiversity and pollution

**Cross-cutting**: Member States strengthen the environmental dimension of existing governance initiatives and address environmental governance gaps related to minerals

#### **III** Policy Action

- Development of the overall Vision for a responsible and sustainable mining sector as overarching framework
- Intergovernmental consultations organized
- In-country implementation support to Governments on alignment with GISTM

### Private and finance sector engagement

Outputs per workstream

- Development and implementation of Guiding Principles on Mining and the Environment
- Support to the establishment of GTMI to oversee implementation of GISTM
- Contribution to development of Mining 2030 Investor Agenda in collaboration with PRI



### **UNEP/Interagency Collaboration**

- Dialogue and collaboration organized to enhance UN system coherence and impact on extractives industries through UN Secretary General's Working Group on Extractives Industries
- Mapping exercise and analysis of gaps in extractives industries landscape
- UNEP analysis of knowledge gaps on tailings management

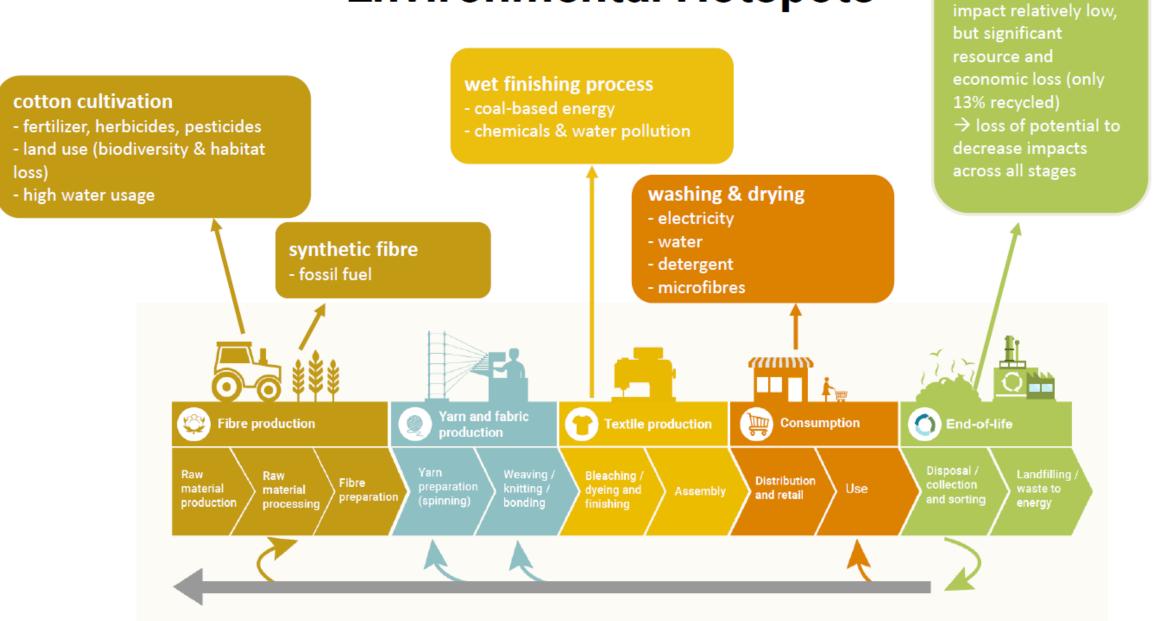


# One UNEP Textile Initiative

# **Environmental Hotspots**

UN 🙆

environment programme



Second UN Environment Dramman (2020). Sustainability and Circularity in the Taytila Value Chain. Clabel Stadbaling

# **One UNEP Textile Initiative**



Policies, financial measures, industry practices and norms, and advocacy that promote a circular textile value chain

## **FOCUS PRIORITIES**



Scaling circular business models



Addressing overproduction and overconsumption



Eliminating hazardous chemicals

## **FOCUS STAKEHOLDERS**



Shifting industry norms towards sustainability through target setting, design for circularity, and phasing out most harmful practices



Development and implementation of policies, strategies, legislation and action plans for a circular textile value chain



Shifting investments to finance circular textile business models, technologies and infrastructure



Advocacy to shift textile consumption towards circularity, and thereby activate changes across the entire value chain

# The circularity and used textile trade project



Funded by the European Union environmen programme

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- Project funded by the European Union, duration from 1 October 2023 30 September 2025.
- Focus countries (tbc): Ghana, Kenya, Tunisia and Pakistan world's top importers of used textiles.
- In collaboration with governments environment, trade, industry and development agencies, policymakers, industry partners, civil society, intergovernmental and trade organizations.



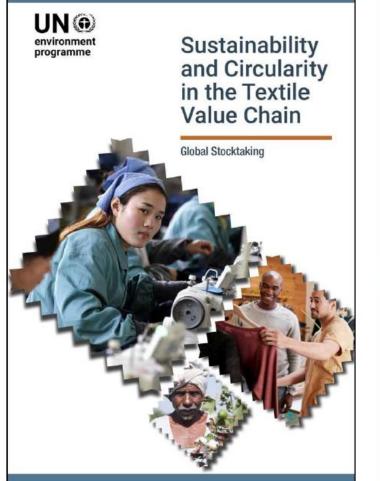
1. Produce a global guideline with criteria to differentiate a used-textile product from waste and to determine the suitability of exporting used-textiles that promotes the transition to circular and green(er) economies of importing countries, sustainable social and economic development.

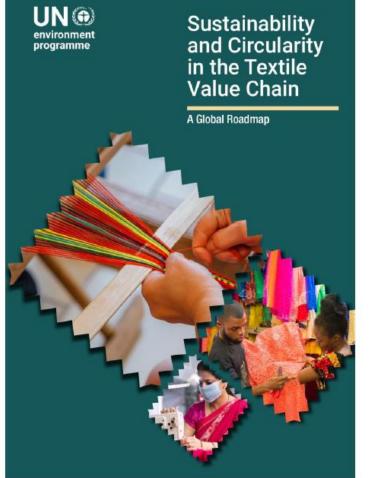
2. Create and facilitate platforms for knowledge exchange and dialogue among exporting and importing countries to advance a sustainable trade of used textiles, to promote circularity in the sector, support sustainable socio-economic growth, and help alleviate negative impacts on the environment and human health.



# **UNEP key publications**







THE SUSTAINABLE FASHION COMMUNICATION PLAYBOOK

Fashion for Climate

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Shifting the narrative: A guide to aligning fashion communication to the 1.5-degree climate target and wider sustainability goals

### **Resources**

### Mining

UNEA resolution 5/12 on environmental aspects of minerals and metals management: <u>https://wedocs.unep.org/bitstream/handle/20.500.11822/39927/ENVIRONME</u> <u>NTAL%20ASPECTS%200F%20MINERALS%20AND%20METALS%20MANAGEME</u> NT.%20English.pdf?sequence=1&isAllowed=y and UNEA-6 draft resolution

All the papers relating to the Res.5/12 intergovernmental process: https://www.greenpolicyplatform.org/initiatives/environmental-aspectsminerals-and-metals-management/Intergovernmental%20meetings

UNEP report Sand and Sustainability: 10 Strategic Recommendations to Avert a Crisis: <u>https://www.unep.org/resources/report/sand-and-sustainability-10-strategic-recommendations-avert-crisis</u>

Marine Sand Watch: <u>https://unepgrid.ch/en/marinesandwatch</u>

Global Tailings Portal: <u>https://tailing.grida.no/</u>

Global Industry Standard on Tailings Management: https://globaltailingsreview.org/global-industry-standard/

Compendium of papers prepared for the Global Tailings Review: <u>https://globaltailingsreview.org/compendium/</u>

#### Textiles

One UNEP Textile Initiative: <u>https://unep.org/sustainabletextiles</u>

UNEP report Sustainability and Circularity in the Textile Value Chain: Global Stocktaking: <u>https://wedocs.unep.org/handle/20.500.11822/34184;jsessionid=67A4EBBB4</u> D691D101940FA4CDED334BF

UNEP report Sustainability and Circularity in the Textile Value Chain: A Global Roadmap: <u>https://www.unep.org/resources/publication/sustainability-and-circularity-textile-value-chain-global-roadmap</u>

UNEP report Sustainable Fashion Communication Playbook: <u>https://www.unep.org/interactives/sustainable-fashion-communication-playbook/</u>

UNEP Circularity and Used Textile Trade Project: <u>https://www.unep.org/circularity-and-used-textile-trade-project</u>

