

# How can SMEs be supported for transitioning to

Circular Economy in Asia and Pacific (CEAP)

**Combat** Climate Change

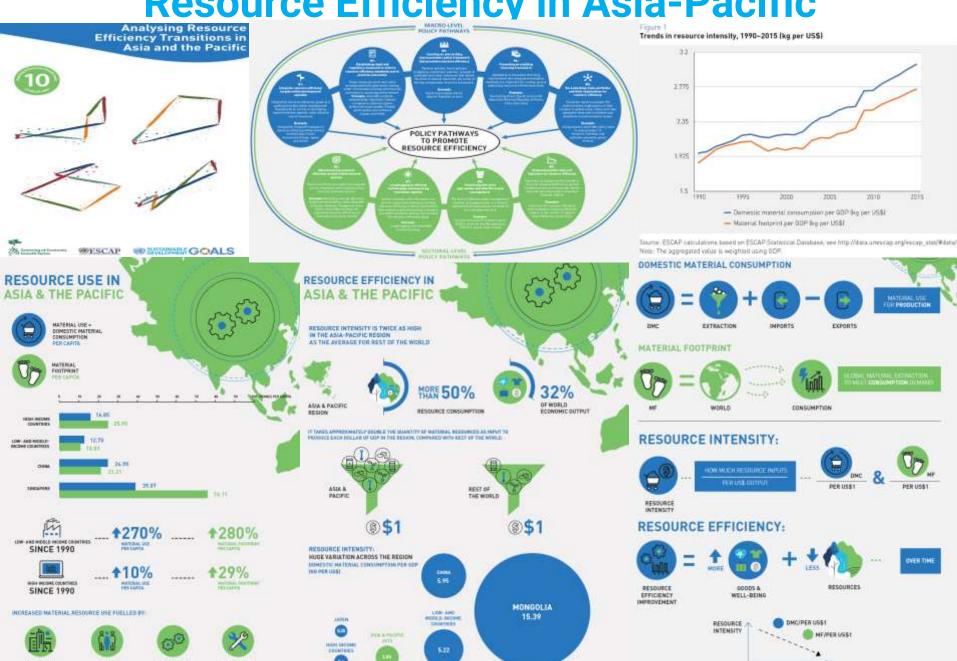
**Combat** Nature & Biodiversity Loss

**Combat** Pollution

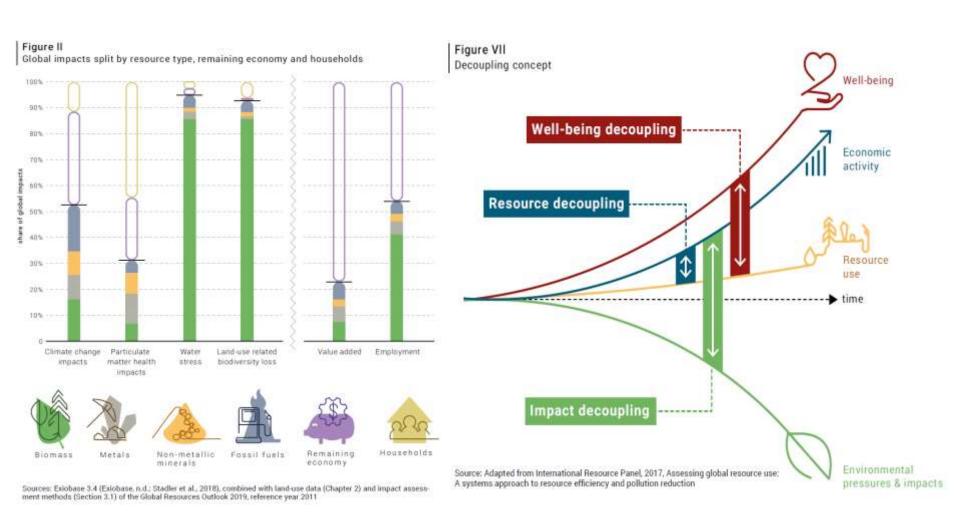
**Create** Solution – 3 Planetary Crisis

Resource Efficient and Pollution Free Asia Pacific

## **Resource Efficiency in Asia-Pacific**



## **Global Resources Outlook 2019**



## **Asia and the Pacific Region**



**Growing population** from 7 billion today

to 9 billion by 2050



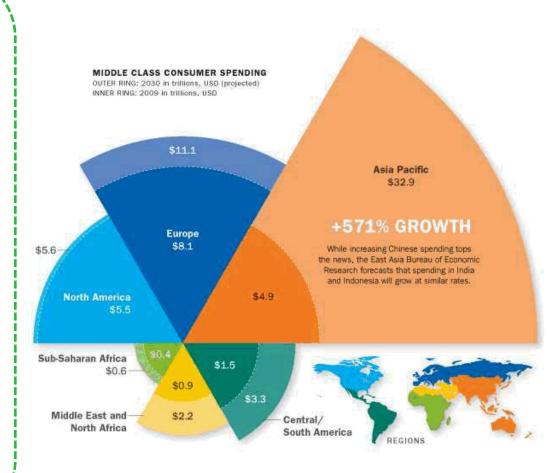
**Economic develop- ment** and increasing global trade



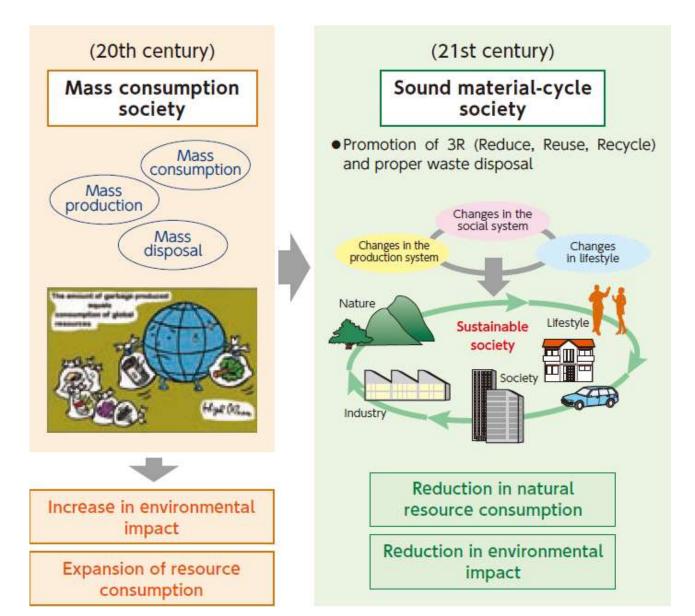
Growing middle-class with changing consumption patterns



Increasing consumption of biomass



#### **Linear to Circular!**



History and Current State of Waste Management in Japan, MOEJ (2014)

# A historic UNEA 5.2: Resolution adopted to end plastic pollution (res. 5/14)

- Calls for development of international legally binding instrument on plastic pollution including in the marine environment
- UNEP to convene an intergovernmental negotiating committee (INC):
  - Starting work during the 2<sup>nd</sup> half of 2022
  - Completing by the end of 2024
- An interim secretariat has been put in place to organize work and speedily advance on necessary arrangements and documentation required



## SMEs in a Value Chain (Example – Textiles)



Overview of current textile trade and value chains

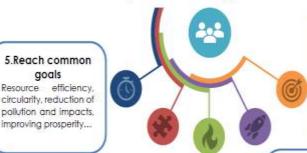
Standards and tools for sustainable textile value chains

Chemicals in textile value chains

Social aspects of textile trade

Water and energy use in textile value chains

Why a value chain approach?



#### 1. Identify key hotspots

impactful polymers products, life cycle stages, pathways and fates, impact categories, geography....

#### 4. Prioritize actions

5.Reach common

goals

improving prosperity...

Based on potential impacts, and feasibility of implementation

#### 3.Coordinate

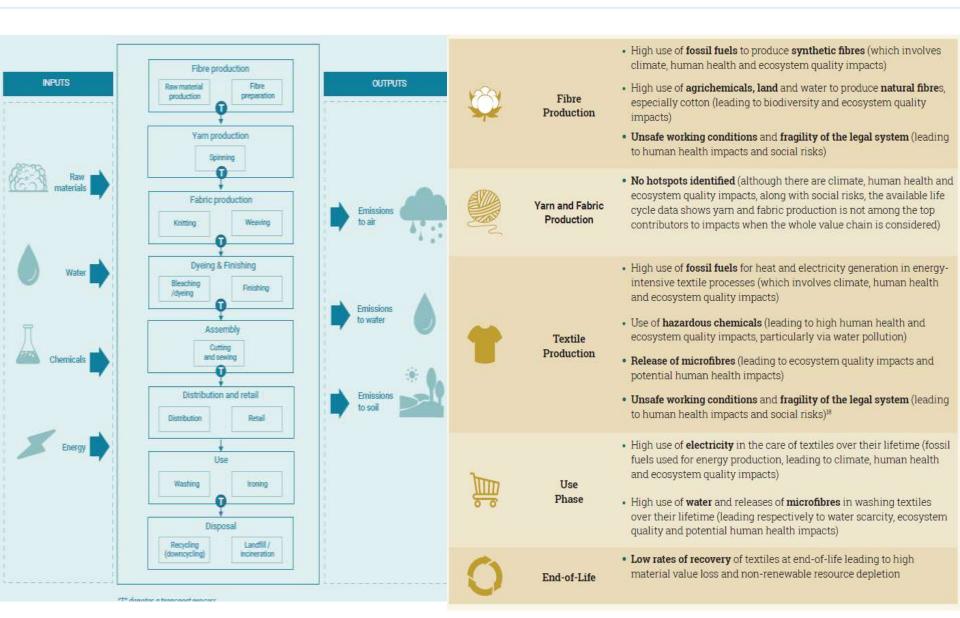
All actors of the value chain while prioritizing leverage areas: government, private sector, research institutions. waste sector, finance sector, consumers

#### Generate holistic solutions

Upstream production). (consumption and reuse) and downstream (disposal and recycling), not missing hotspots or creating trade-offs

Sharing of good practice

## **How to support SMEs - Impact Assessment**



## **How to Support SMEs - Tools for a Circular Economy**



Life Cycle approach: Life cycle assessment of the textile value chains highlight the most problematic products, processes and stages that cause the most environmental and social impacts (called "hot spots"). In addition, based on the experience of the Life Cycle thinking team of UNEP, indicators, tools and comparative analysis can be provided to

conduct a life cycle assessment for the textile sector. As a result, it can guide the selection of the most appropriate alternative material, product, business model or intervention strategies, by comparing the respective impacts (human and eco toxicity, depletion of resources, damage to ecosystems).



Eco-innovation Eco-innovation: methodology that develops new business models and strategies which incorporate sustainability through life cycle thinking and



cooperation across the value chain. Eco-Innovation is not only actively working with companies but also offers support to governments in developing policies based on life cycle thinking. It is specifically designed to be applied also by small enterprises and can be seen by large brands as an effective way to engage companies, especially small and medium-sized enterprises (SMEs), of their value chains and help those comply with their requirements. It has been implemented in developing countries in companies working on the chemicals value chain, including dying and spinning

companies from the textile sector. It has also been implemented in the agri-food sector. The global Resource Efficient and Cleaner Production network (RECPnet) supports the outreach to companies, especially SMEs in developing, manufacturing countries.



Consumer Information: Consumer information tools, such as ecolabels, voluntary standards or marketing claims, aim at enabling consumers to take more sustainable decisions regarding



information provided is accurate and reliable. Therefore, UNEP, together with the International Trade Centre has developed international Guidelines for providing product sustainability information.





Sustainable procurement: Buying more sustainable goods and services can help drive markets in the direction of sustainability, reduce the negative impacts of an organization and produce positive benefits for the environment and society. Combining business-tobusiness collaboration with a demand drive through government procurement can really

help scale this transformation to a much wider range of companies. UNEP has published in 2018 a paper: Building circularity into our economies through sustainable procurement, which aims to introduce the role that sustainable procurement can play to bring circularity in value chains, including in the textile sector.



Sustainable lifestyles: People have the power to positively impact the planet via their daily lifestyle decisions covering food, mobility, housing, and leisure - which includes



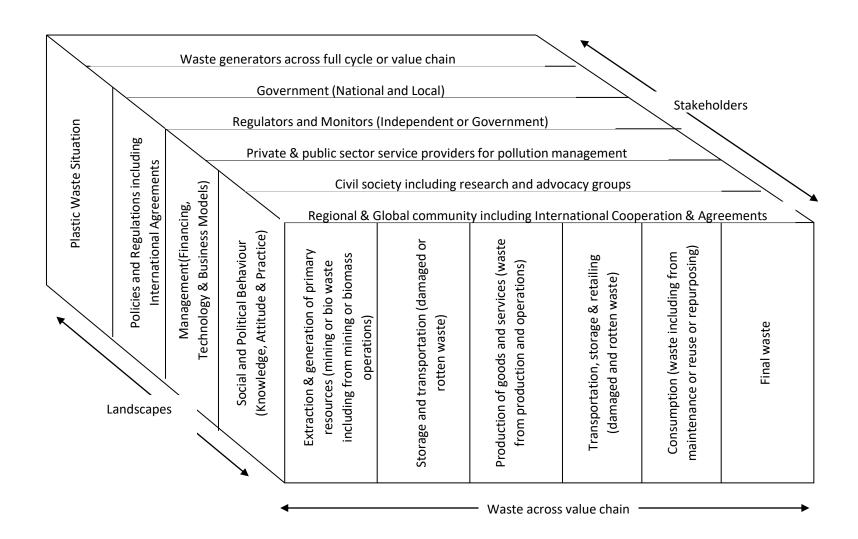
consumer goods (like fashion and textiles) and tourism. As contributions to the One Planet network Sustainable Lifestyles and Education Programme, UNEP has developed: the science around lifestyles and climate and how and what motivates people to change behaviour, guides on how sustainable illestyle initiatives can be developed in cities and in offices, with menus of actions to consider; and communication materials and social media kit to motivate and activate people for positive climate action. Fashion is an element in all materials as the 2-3 billion new consumers soon to come on line will mostly be urban youth who get their information and aspirational messaging from social media. Youth set today's trends and are tomorrow's decision makers, in the recent media tool kit Fashion slow-down was a core action that asks people to buy better and avoid fast fashion that mass produces at the cost of environmental and human justice.



Trade: Green Markets and Global Value Chains constitutes one of the Environment and Trade Hub's principal work streams, aiming to enhance the design and uptake of sustainability standards and to facilitate market access for sustainably produced and certified products in order to green global production and consumption. In this context,

the Hub provides training on sustainable value chains and trade for textiles as part of the Partnership for Action on Green Economy (PAGE) project in the province of Jiangsu - one of the leading regions for textile production and export in China - presenting standards, tools and best practices. The Hub offers a variety of methodologies and resources related to sustainability standards with relevance to the textile sector, including a Guide for the Assessment of the Costs and Benefits of Sustainability Certification, a handbook on Trade and Green Economy; and an analysis on Green Economy and Trade - Trends, Challenges and Opportunities, among others.

# **SMEs part of the Processes and Stakeholders(Example – Plastics)**



# SMEs in Optimizing Resource Efficiency through Circular Economy

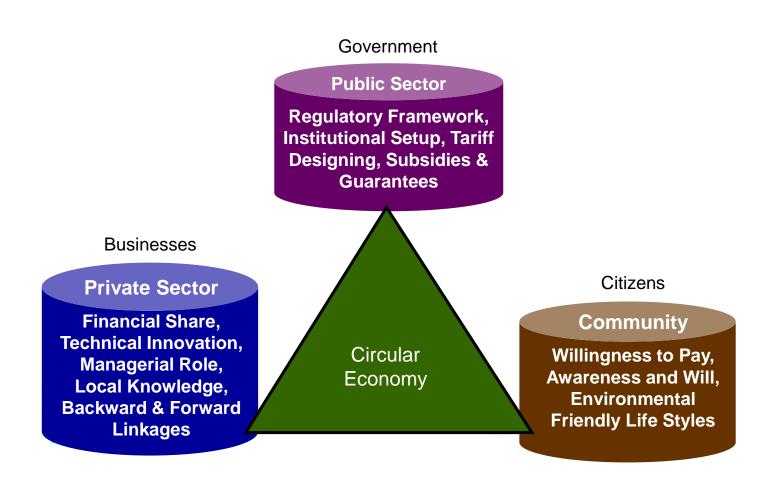
	Policies and Regulatory Framework	Institutional Arrangements including Private Sector	Financing Mechanisms including PPP, EPR, CSR	Technology Support & Capacity Building	Innovations and Business Models	Awareness- raising for Stakeholder Engagement and Behaviour Changes
Eco-Design						
Green Supply Chain						
Sharing Platforms						
Extended Product Life & Product Use						
Product as a Service						
Green Recycling & Recovery						

# SMEs in the Role of Modern Technologies in Circular Economy for Resource Efficiency

Figure 5. Disruptive Technologies Used by Pioneers to Launch and Operate Circular Business Models with Speed and Scale

		Circular Supllies	Resource Recovery	Product Life Extension	Sharing Platforms	Product as a Service
Digital	Mobile			1	1	
	м2м				1	0
	Cloud				1	9
	Social			•	1	
	Big data analytics	lt.			1	1
Hybrid	Trace and return systems		<u></u>	<b>a</b>	0	
	3D printing	0		0		
© Engineering	Modular design technology		ô	ô		0
	Advanced recycling tech	ô	රීං			
	Life and material sciences	o°o	ô			

# Role of Stakeholders for transitioning to Circular Economy



#### **Specific Steps to help SMEs - Assessment**

- Identify green SMEs (or having potential to be green) based on their production processes, supply chain, product lines, and business models
- Identify the demand side based on the sustainable lifestyles and green consumption
- Identify the challenges and opportunities for jumpstart of the green SMEs focusing on support from stimulus package, sustainable finance, technology transfer, induced demand through sustainable lifestyles and green public procurement
- Shortlist the sectors and SMEs clusters for detailed roadmap for the jumpstart involving the government and all the relevant stakeholders

#### **Specific Steps to help SMEs - Solutions**

- Production process and supply chain: This covers the resources, raw materials and inputs required by SMEs including extraction of resources, transportation to the production point, energy and other materials required for the production and operations, the emissions in any form and the efficiency of the production system.
- **Product and services produced by SMEs:** The products and services serve one or more purposes for the customers, for example bulbs for lighting, reusable and recyclable packaging, etc. The products are being transformed to be environmentally friendly while serving the same or better purpose (LED bulbs, reusable shopping bags, etc.).
- Business models: many SMEs are transforming business models, for example from selling a product (like LED bulbs) to sell a service (lighting) to control the inventory throughout the life cycle for better recycling, recovery and green supply chain.

### **Specific Steps to help SMEs - Assessment**

- Sustainable lifestyles: The government, private sector and other civil society organizations, and international agencies are continuously promoting sustainable lifestyles which are making stronger sense during and post-pandemic. This will induce the demand for green SMEs including information on their production processes and supply chain, products including their lifecycle, and business models.
- Green/sustainable public procurement: The government is one of the major procurement points
  for many products and services; thus, it can influence the SMEs to go green through their
  procurement policies.
- **Sustainable financing:** The government and international agencies are working with national and international financing institutions to create financing incentives for green SMEs through various measures. The major private sector is also supporting their SMEs through sustainable financing such as green bonds.
- Technology transfer and knowledge share: International and bilateral agencies are supporting SMEs
  through international cooperation and south-south cooperation to have access to the cleaner and
  greener technologies and relevant knowledge and skills.
- Sustainability reporting: The government is already supporting sustainability reporting for major private sector companies. This can be trickledown to the SMEs with locally developed criteria. UNEP's "Sustainability Assessment of Technologies" framework can help to develop a framework for "Sustainability Reporting for SMEs."

#### What can governments do?

#### Legislate on:

- Public investment in green infrastructure
- Tax rebates or waivers, e.g., for recycling
- Tax on environmentally harmful goods and services
- Incentives to create green jobs and invest in green infrastructure
- Green jobs training programmes
- Green procurement
- Extended producer responsibility
- Eliminating fossil fuel subsidies
- Regulating drivers of biodiversity loss

#### Oversee/ensure:

- Government actions to implement the Paris Agreement
- Environmental risk assessments in COVID-19 recovery planning focusing on the circular economy
- Inclusion of safeguards and continued protection of environmental rights in recovery legislation
- Public participation and social inclusion in circular economy legislative processes

#### Adopt **budgets** for:

- Low-carbon activities
- Clean technology research and development
- Conservation programmes
- Sustainable agriculture
- Urban green and blue infrastructure
- Promote mechanism tracebility

# **INITIATIVES IN ASIA & PACIFIC**

- CIRCULAR ECONOMY IN ASIA AND THE PACIFIC (CEAP)
- CIRCULAR CITIES (CC)
- CIRCULARITY AND YOUTH (CY) LOW CARBON LIFESTYLE STARTUPS
- SUSTAINABLE CONSUMPTION AND PRODUCTION (SCP) & RESOURCE EFFICIENCY (RE)
- PLASTIC-FREE RIVERS (CounterMEASURE)
- GO4SDGs TEXTILES AND SUSTAINABE FOOD
- AIR POLLUTION SUSTAINALBE MOBILITY, OPEN BURNING, MONITORING, EMISSIONS CONTROL
- COST OF INACTION

# Thank you!

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# Global Alliance on Circular Economy and Resource Efficiency - GACERE -



### What is GACERE?

An alliance of governments, supported by stakeholders, willing to work together, share knowledge and advocate for the global circular economy transition to a more sustainable management of natural resources at the political level and in multilateral fora to achieve sustainable consumption and production.



#### **Member countries**



Canada



India



New Zealand



Republic of Korea



Chile



Japan



Nigeria



Rwanda



Colombia

European Union

Morocco

Peru

Switzerland



Kenya



Norway



South Africa





**Strategic partners** 







#### **Regional networks**







#### Supported by:





UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION



## **GACERE** working areas include:

- Advocate for a global just transition to a resource efficient and circular economy.
- Mapping of domestic policies, fiscal and regulatory frameworks on the sustainable management of natural resources.
- Identify barriers, knowledge and governance gaps that hinder circular and just transitions.
- Identify research needs and possible global governance improvements that could help governments and stakeholders to address such barriers
- Take forward and support sectoral, bilateral and/or regional partnerships for the circular economy transition to disseminate best practices while making sure not duplicating efforts.
- Facilitate more **global conversations on the governance of natural resources** and options to improve the current situation, including through the wider adoption of more resource efficient and circular approaches.



## **GACERE** knowledge & events

The Alliance develops **knowledge products (short papers)**, providing key facts and figures on the potential impact of circular economy on strategic agendas, including:

- Circular Economy and Biodiversity
- Circular Economy and Green Recovery
- Circular Economy and Climate Change

Papers are accessible from <a href="https://www.unep.org/gacere">www.unep.org/gacere</a>

GACERE organizes **high-level events**, such as the WCEF 2022 session on Partnerships for a global circular economy, side events at the UN Environment Assembly, etc.

Details on past and upcoming GACERE events are available at: <a href="https://www.unep.org/gacere">www.unep.org/gacere</a>



# To learn more about GACERE, visit:

www.unep.org/gacere