Ten Year's History of Regional 3R and Circular Economy Forum in Asia-Pacific and Introducing the Pre-zero Draft New 3R and Circular Economy Declaration (2024-2034)

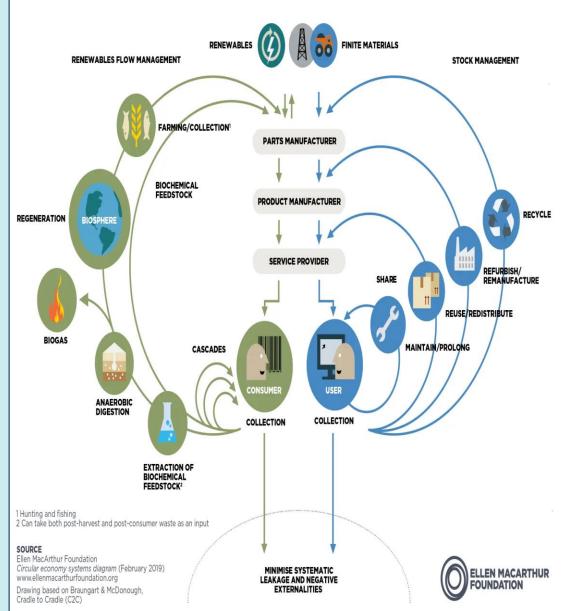
LLDCs Consultation Meeting on new 3R & CE Declaration in Asia-Pacific, 6-7 August 2024, UN Lao PDR, Vientiane



Choudhury Rudra Charan Mohanty Environment Programme Coordinator, UNCRD- DSDG/UN DESA

Key facts:

- Even if net-zero emissions by 2050 vis-a-vis 1.5°C climate goal target is met under the Paris Agreement, costs to the global economy relating to climate change are projected to reach USD 54 trillion by 2100.
- Applying circular economy strategies in just five key areas (cement, aluminum, steel, plastics, and food) can eliminate almost half of the emissions from the production of goods – 9.3 billion tonnes of CO2 in 2050.
- Global material use may increase to between 170 and 184 billion tonnes by 2050 (IRP, 2017). In business-as-usual scenario, we could see resource use up by 60% from 2020 levels by 2060 (Global Resources Outlook, 2024).
- As per UNEP, the Asia-Pacific accounts for approximately two-thirds to global growth, and 63 per cent of the global material use.
- The policy and scientific community have realized that farming, overfishing, mining and deforestation have now reached such a scale that they are reducing the resilience of the biosphere where life thrives, and also the need to become net zero, zero waste and nature positive in order to enhance the resilience of countries and societies by halting and reversing nature and biodiversity loss.
- 3R and circular economy approaches contribute to nature positive approach which enriches biodiversity, stores carbon, purifies water and reduces pandemic risk, thereby enhances the resilience of our planet and our societies. Kunming-Montreal Global Biodiversity Framework calls for a full recovery of all ecosystems by 2050 <
biodiversity is valued, conserved, restored and widely



Source: Completing the Picture: How the circular economy tackles climate change (202

UNCRD/UN DESA High-Level Regional 3R and Circular Economy Forum in Aligned with SDGs, UNCRD 3R & CE initiative calls for Assignment of the cells for Assignment of the cel



Aligned with SDGs, UNCRD 3R & CE Initiative calls for asong Cuppole Bucury of Lendurce a some on as a cure of a some of sustainable development. It aims to provide a policy framework to implement 3R & resource efficiency measures to achieve circular economic development – an alternative economic growth model which is not at the expense of finite natural resources and ecological assets, rather regenerative. UNCRD's 3R & circular economy initiative brings up both the policy, scientific & research community & private sector to convene on an annual basis the high-level Regional 3R & Circular Economy Forum in Asia-Pacific to strengthen the science-policy interface in addressing 3R & resource efficiency as the basic for economic growth, pollution prevention and strengthening resilience of cities & communities, and after all, to achieve the international agendas & agreements – SDGs, Paris Agreement, NUA, among others.





Ha Noi 3R Declaration Sustainable 3R Goals for Asia and the Pacific for 2013-2023

- First regional declaration providing an important basis and framework for Asia-Pacific countries to Ha Noi, Viet Nam)

voluntarily develop and implement 3R & CE policies and programs, including monitoring mechanisms, towards transitioning to a resource



st**Ecrocisti**ng of 33 goals under the following areas:

I. 3R Goals in Municipal/Urban areas (4 Goals)

II. 3R Goals in Industrial Areas (5 Goals)

III. 3R Goals in Rural/Biomass Areas (2

Goals) IV 3R Goals for New and Emerging

Source: Ha Noi 3R Declaration (2013-2023)

Major Recommendations by the Forum in advancing 3R & Circular Economy in Asia-Pacific (2013-2023)

Broad Areas of Major Interventions	Recommendations
Policy and institutional transformation	 Decoupling economic growth, human well-being and environmental pressures/impacts Enhance supply security of strategic resources and to operate within absorptive capacity of ecosystems Harness co-benefits of resource efficiency and climate mitigation Stronger recognition of the "whole-of-value-chain" approach Synergetic policy approach that addresses resource efficiency, waste prevention/minimization, and low carbon development (ensure policies capture synergies and avoid trade-offs in the national and global resource circulation system)
Strengthening resilience of cities and communities	 critical nexus between circular economy and resilience of cities and communities needs to be understood at policy level; need for policy and institutional shifts to integrate 3R & circular economy principles with climate mitigation and disaster reduction strategies and measures;
Technological interventions & Collaborative Research & Development	 drive a science, innovation and technology based culture in overall policy setting and development agendas; promote networks of innovation & national innovation centers for resource efficiency; promote eco-industrial parks & regional infrastructure to support resource optimization and efficiency in industries; promote R&D oriented industrial structures; triangular cooperation; PPP International collaborative research programmes; Industry 4.0 Nano-technologies & Green chemistry to create sustainable urban business opportunities by reducing waste and chemicals;
Greening the SMEs	 Governments should assist SMEs to integrate resource efficiency into their entire supply chain through appropriate policy, institutional and financial measures and partnership mechanisms; Governments should facilitate various information-based instruments (e.g. product labels) in raising awareness of both consumers and SMEs on the needs and benefits of greening the supply chain;
Multilayer partnerships & inter- municipal cooperation	 Government-to-business, business-to-business, & industry-to-industry cooperation are crucial to increase the role of business & trade associations towards greening the entire operation & supply chain; industry-industry cooperation, for instance, can ensure that by-products circulate fully in the local production system; Horizontal cooperation (among line Ministries & agencies) and vertical cooperation (national & local authority); and inter-municipal cooperation so that resources or by-products circulate among the industries and urban systems within the same region; can offer significant solutions to manage disaster waste;

Source: Compiled from Chair Summaries of the Regional 3R and CE Forum in Asia-Pacific (2013-2023)

Mapping of 3R and Circular Economy Policies of the Asia-Pacific countries in line with the Hanoi Declaration

Hanoi Declaration Major Goal	Some of the Policies in the signatories
3R Goals in Urban/Industrial Areas	 Japan: Waste management and public cleansing law (1971); 4th Fundamental Plan for Establishing a Sound Material-Cycle Society (2018); Circular and Ecological Economy (2018); Society 5.0; New basic policy of the Food Recycling Act (2019); Resource Circulation Strategy for Plastics (2019); Plastic Resource Circulation Act (2022) Republic of Korea: Volume based waste disposal fees; Wastes Control Act; Act for Promotion of Transition to a Circular Economy Society (2022), Singapore: Zero waste masterplan (2019); Mandatory Packaging Reporting (MPR) & Packaging Partnership Programme (2021); Packaging Partnership Programme (2021); Singapore Green Plan 2030 (2021); Resource Sustainability Act (2019) Australia: National Waste Policy 2018 New Zealand: Auckland Waste Management and Minimisation Plan India: Swachh Bharat Mission (Clean India Mission) (2014-2019); Solid Waste Management Rules (2016) - including Construction & Demolition waste, Plastic Waste Management and Transboundary
	Movement) Rules ; National Circular Economy Roadmap for Reducing Plastic Waste in India (2023)
3R Goals in Rural Areas	 India: SAMPADA- Scheme for Argo-marine processing and Development of Argo-processing Clusters
	Thailand Bio-Circular-Green Economic Model (BCG)
	New Zealand: First emissions reduction plan 2022
3R Goals for New and Emerging	
Wastes	 Maldives: Plastics Export-Import Act Japan: Act on the Promotion of Sorted Collection and Recycling of Containers and Packaging, Act on Promotion of Recycling of Small Waste Electrical and Electronic Equipment Singapore: Resource Sustainability Act (RSA)

Malé 3R Declaration

(signed by 99 tourist resorts at 6th Regional 3R Forum, 16-19 August 2015, in Malé, Maldives)

Important initiatives and steps:

- discourage use of any form of plastics in the resorts as a priority; explore ways to utilize endof-life plastics as a valuable resource and as an integral part of the waste reduction strategy contributing to circular economy;
- consider investments for installing state-of-theart sewage collection and treatment facilities to protect the coastal and marine environment; and *Miles of litter: Thilafushi is an artificial island in the Maldives*



take every preventive measure to protect coral where about 400 tonnes of reefs and other ecological assets from physical rubbish is dumped every day damage and pollution from toxic chemicals and - "rubbish island" hazardous substances.

Indore 3K Declaration of Asian Mayors on Achieving Clean Water, Clean Land and Clean Air in Cities *40 cities - Mayors and local authorities

- 40 cities Mayors and local authorities signed the voluntary and good-will Indore 3R Declaration during 8th Regional 3R and Circular Economy Forum in Asia and the Pacific, Indore, India, 2018.
- 6 cities have signed during 9th Regional 3R and Circular Economy Forum in Asia and the Pacific, Thailand, 2019.
- 5 cities have signed during 11th Regional 3R and Circular Economy Forum in Asia and the Pacific, Cambodia, 2023.

- Circular economic development
- Sustainable waste management
 - Pesource efficiency









NEW DECLARATION on 3R and Circular Economy

- Preamble
- Declaration
- Common Vision
- Sustainable 3R and Circular Economy Goals for Achieving Resource Efficient, Clean, Resilient, Sound Material Cycle and Low-Carbon Society
- Cluster I-V 3R and CE Goals
- Annex 1: Strategies to Support the Implementation of the Draft New Declaration (2024-2034)
- Annex 2: Indicators for Tracking the Progress on Implementation of New Declaration on 3R and Circular Economy (2024-2034)
- Annex 3: Country Reporting Guidelines (to be followed by countries for each Regional 3R & CE Forum in AP (2024-2034)

NEW DECLARATION On 3R and Circular Economy



Sustainable 3R and Circular Economy Goals for Achieving Resource Efficient, Clean, Resilient, Sound Material Cycle and Low-Carbon Society

- **Cluster I:** Promote Sustainable Resource Management, Resource Efficiency and Low-Carbon Society (*Goals: 1, 2 & 3*).
- **Cluster II:** Achieving Clean Environment (Land, Water, Air, Ocean) through 3R and Circular Economy (*Goals: 4, 5, 6, 7 & 8*).
- **Cluster III:** Sound Material Cycle Society and Resource Recirculation towards Zero Waste and Circular Society (*Goals 9: 9a, 9b, 9c, 9d, 9e, 9f, 9g, 9h, 9i, 9j, 9k, 9l, 9m, 9o*).
- **Cluster IV:** Resilient Economies and Societies and Cross-cutting Socio-Economic Goals (*Goals:* 10,11 (11a & 11b) & 12).
- **Cluster V:** Means of Implementation Partnerships, Technology Transfer, Research and Development, National and International Financing and Investments, Institutional Capacity Building and Information Sharing *(Goals 13: 13a, 13b, 13c, 13d, 13e, 13f, 13g)*.

ANNEX 1: STRATEGIES TO SUPPORT THE IMPLEMENTATION OF THE NEW DECLARATION (2024-2034)

Sustainable 3R and Circular Economy Goals	Strategies and Actions to Achieve the Goals	Contribution to SDG and o agendas and agreements			
Cluster I: Promote Sustainable Resource Management, Resource Efficiency and Low-Carbon Society (Goals: 1, 2 & 3). Sustainable resource management, supply security of natural resources, and resilient ecological assets are at the heart of a circular economy and sustainable development. Majority of the natural resources are finite therefore it is critical that the world finds environmentally and economically viable way of using these scarce resources to achieve lasting supply security of resources and minerals – a critical underpinning factor to achieve the SDGs. Given the decline in Asia's natural capital – shrinking forests, declining biodiversity, depleting freshwater resources, and growing pollution and resource extraction, it is imperative for the policy makers of Asia to promote and implements various policy instruments and institutional arrangements in support of greater resource efficiency such as -regulatory instruments (e.g., EPR, standards for recycling), economic and financial instruments, information based instruments (raise public and industry awareness and education), voluntary initiatives (public-private partnerships), and formalization of the informal sector.					
Goal 1: Achieve significant improvement	in materials, energy, and water efficie	ncy SDG	G 7.3, SDG 12, SDG 13		
Goal 2: Achieve full-scale utilization of bi and circular economy	omass as a resource, not waste (bio-	economy) through 3R SDG SDG	6 1, SDG 2, SDG 8, SDG 12, 6 13		
Goal 3: Achieve resource efficiency in manual and circular economy	icro, small and medium enterprises (S	MEs) through 3R SDG	69, SDG 12, SDG 13		

Cluster II: Achieving Clean Environment (Land, Water, Air, Ocean) through 3R and Circular Economy		
Goal 4: Achieve significant improvement in water quality by reducing pollution, eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse	SDG 3.3, SDG 3.9, SDG 6, SDG 12, SDG 14, SDG 15	
<u>Goal 5</u> . Reduce adverse environmental impacts of cities by paying special attention to land and air quality and municipal and other waste management as well as sand and coral use in construction	SDG 3.9, SDG 11 -	
Goal 6. Reduce adverse environmental impacts of mining operations by greening the entire supply chain focusing on resource efficiency and ecosystem restoration	SDG 8, SDG 12, SDG 13, SDG 15	
Goal 7. Reduce hazardous chemicals and persistent organic pollutants (POPs) in materials, products and wastes, including plastics	SDG 3, SDG 9, SDG 11, SDG 12, SDG 14, SDG 15	
Goal 8. Prevent and significantly reduce marine pollution of all kinds, in particular from land-based activities, including marine debris, fishing gears and nutrient pollution	SDG 3, SDG 14.1, SDG 14.2, SDG 14.3	
	12	

Cluster III: Sound Material Cycle Society and Resource Recirculation towards Zero Waste and Circular Society

Goal 9. Minimize demand and pressure across supply chains on virgin raw materials and avert resource cor	nstraints by implementing
3R and circular economy for all waste streams	
Sub Goal 9 (a). Mainstream circular economy in all forms of municipal waste (solid and dry waste, wet waste, wastewater and sewage sludge)	SDG 11, SDG 12, SDG 15
Sub Goal 9 (b). Enhance 3R and circular economy policies and programmes, including technological interventions, for construction & demolition (C&D) waste	SDG 8.4, SDG 11, SDG 12, SDG 15
Sub Goal 9 (c). Advance circular economy approaches in rural sector with an objective to reduce ecological impacts, create new employment opportunities and alleviate poverty	SDG 12, SDG 1, SDG 2
Sub Goal 9 (d). Achieve resource efficiency and circularity in metal sector	SDG 8.4, SDG 12
Sub Goal 9 (e). Achieve resource efficiency and circularity in the plastic sector aiming at phasing out the problematic and single use plastics	SDG 3, SDG 8.4, SDG 12, SDG 13. SDG 14, SDG 15
Sub Goal 9 (f). Achieve resource efficiency and circularity for waste electrical and electronic equipment (WEEE)	SDG 3, SDG 8.4, SDG 12
Sub Goal 9 (g). Promote safe and sustainable medical and healthcare waste management with a focus to waste-prevention and reduction actions for healthcare organizations	SDG 3, SDG 11, SDG 12
Sub Goal 9 (h). Promote safe and sustainable hazardous waste management with a focus to waste-prevention and reduction actions for industries, including SMEs	SDG 3, SDG 8, SDG 12
Sub Goal 9 (i). Achieve resource efficiency and circularity for solar wastes	SDG 8.4, SDG 11, SDG 12
Sub Goal 9 (k). Achieve circularity for end-of-life vehicles	SDG 8.4, SDG 9, SDG 12,
Sub Goal 9 (I). Promote safe and sustainable used oil waste management with a focus to waste-prevention and reduction actions for both domestic and industrial sector	SDG 8.4, SDG 11, SDG 12, SDG 13
Sub Goal 9 (m). Achieve resource efficiency and circularity for waste tyre and rubber	SDG 8.4, SDG 11, SDG 12
Sub Goal 9 (n). Significantly improve disaster (resource) recovery and response through circular economy	SDG 11, SDG 12 13

Cluster IV: Resilient Economies and Societies and Cross-cutting Socio-Economic Goals (Goals: 10,11 & 12)		
Goal 10. Strengthen resilience to climate change, natural disasters, and health emergencies and pandemics through 3R and circular economy, including nature-based solutions	SDG 9, SDG 13	
Goal 11. Achieve Social Empowerment and Security		
Goal 11 (a). Ensure decent and safe working environment for all informal waste workers and achieve sustainable transition for them to become key waste management actors in a circular economy	SDG 3, SDG 8, SDG 12, SDG 16	
Goal 11 (b) Complete elimination of illegal engagement of children in the informal waste sector	SDG 3, SDG 4, SDG 16	
Goal 12. Create green jobs towards new employment generation, including women and youth empowerment	SDG 1, SDG 2, SDG 5, SDG 16	
	14	

Cluster V: Means of Implementation - Partnerships, Technology Transfer, Research and Development, National and International Financing and Investments, Institutional Capacity Building and Information Sharing		
Goal 13. Strengthen means of implementation		
Sub Goal 13 (a). Promote multi-layer partnerships, including public-private-partnerships (PPPs) as the basis for advancing circular economy in all development sectors	SDG 17.16, SDG 17.17	
Sub Goal 13 (b). Foster traditional knowledge and innovation and technology transfer and collaborative research and development (R&D) programmes on circular economy appropriate to different sub-regions	SDG 17.6, SDG 17.7, SDG 17.8	
Sub Goal 13 (c). Assist developing countries, including SIDS, source markets to dispose or recycle wastes not controlled under existing MEAs to promote circularity	SDG 12, SDG 14, SDG 15	
Sub Goal 13 (d). Identify relevant funding mechanisms and mobilize national and international financing and investments towards circular economy	SDG 17.3, SDG 17.5	
Sub Goal 13 (e). Information sharing and capacity building programmes targeting key government institutions and agencies and industrial authorities and private sector, including SMEs	SDG 17.9	
Sub Goal 13 (f). Strengthen policy and regulations, including green public procurement, for integrating circular economy principles in all development sectors	SDG 12, SDG 13, SDG 14, SDG 15	
Sub Goal 13 (g). Strengthen public awareness and education, including empowering consumers, producers and traders on 3R and circular economy	SDG 4, SDG 12.6, SDG 12.7, SDG 12.8 ¹⁵	

Welcome to all 12th Regional 3R and Circular Economy Forum in Asia and the Pacific 2024 2024