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A photograph of a smiling man with a beard, wearing a white t-shirt and a plaid shirt, standing in a greenhouse. He is holding a tray of small green seedlings. The background shows the curved structure of the greenhouse and some green plants.

SUSTAINABLE E-WASTE MANAGEMENT FOR CIRCULAR ECONOMY IN LATIN AMERICA



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A presentation to the 10th Green Standards Week

*Driving Sustainable Digital Transformation through sustainable e-waste management
and Circular Economy*

Mr. Alfredo Cueva, Industrial Development Officer, UNIDO

Tuesday, 14 December 2021

Introduction

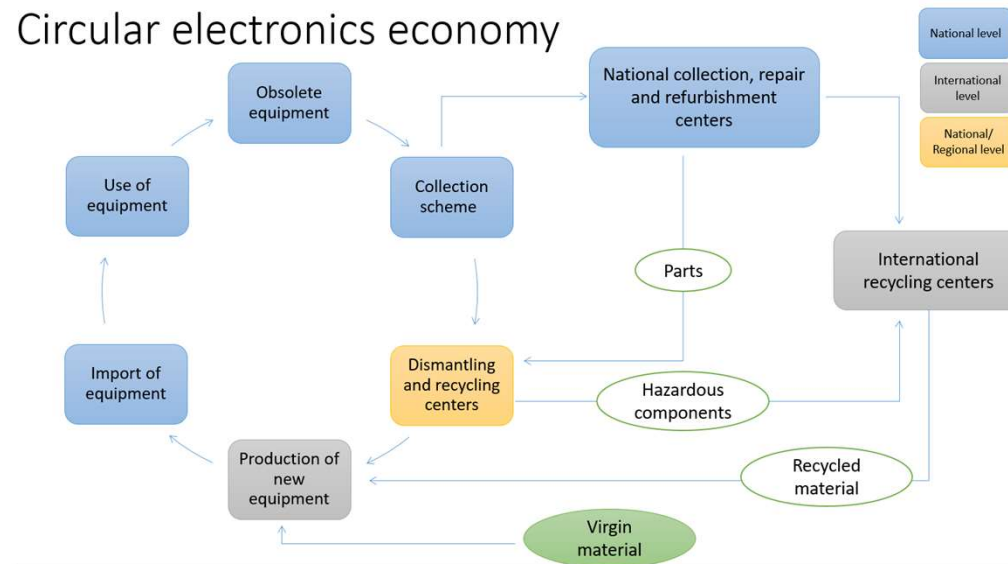
This presentation highlights key features of UNIDO's proposed approach to circularity in e-waste management, as applied to Latin America.

The approach requires strengthening partnerships with ITU and key actors involved with information and communications technology (ICT).

It also requires deepening current work with: national and local governments, donors, specialized UN partners, producers, the waste recycling industries, academia, NGOs, CSOs, media and communications partners, among others.

UNIDO approach to CE (1/2)

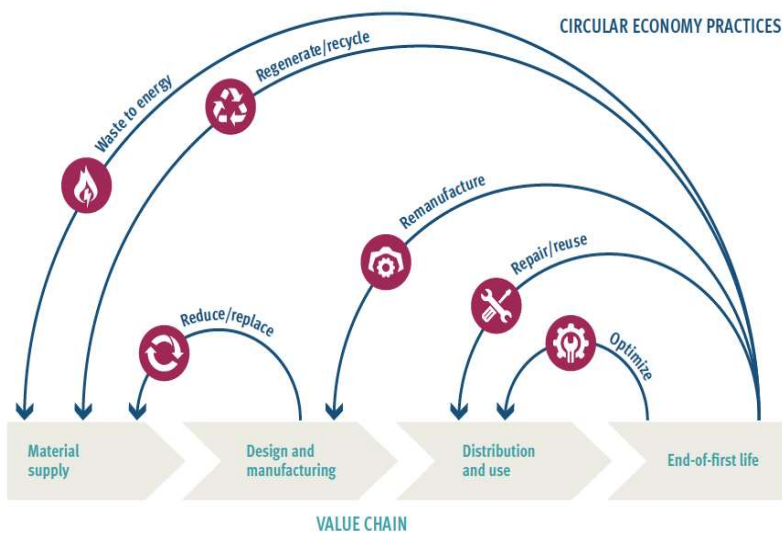
The Ellen MacArthur Foundation launched the CE paradigm in 2012. UNIDO and some partners began working on CE in e-waste management in 2014.





UNIDO approach to CE (2/2)

UNIDO has worked on further applying CE to a variety of industrial sectors. We are mainly a policy-driven, project-driven, results-driven organization.



For UNIDO, CE is an “industrial economy” aimed at

- Getting products that last and maintain their value as long as possible
- Minimizing waste and pollution
- Prioritizing renewable energy along value chains

Its main enablers are

- Innovation
- Digitalization
- Stewardship
- Partnership
- Collaboration: businesses, governments, consumers



UNIDO approach to CE in e-waste mgmt: main considerations

- Collaborate and integrate public and private stakeholders across relevant sectors: ICT, environment, health, education, labour, science, etc.
- Support recycling industries that safeguard the environment and create quality jobs
- Promote partnerships for knowledge exchange and technology transfer
- Help countries to develop e-waste management policies, strategies and systems based on the value chain and life-cycle approach



- Promote regional harmonization and enhance North-South, South-South and triangular cooperation
 - Work at operational, professional and political levels to promote HL policy decisions
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Example: The LAC E-waste project

- Five-year project with GEF funding USD 9.5 M
- Co-financing of more than USD 71.4 M
- First regional project of its kind in Latin America

It focuses on 3 components:

- Strengthening of national e-waste management initiatives/policies
- Strengthening of national capacities on waste dismantling and recycling facilities and infrastructure
- Enhancement of regional cooperation on e-waste management





The LAC E-waste project: illustrative results (1/2)

- New regulations ready for approval in El Salvador and Venezuela – Improved regulations in Costa Rica and Ecuador. Under development: Chile, Panama, Uruguay.
 - National strategies in 9 countries: Argentina, Costa Rica, Ecuador, El Salvador, Honduras, Peru, Panama, Uruguay and Chile.
 - Universities involved in El Salvador, Costa Rica, Ecuador; contacted in 4 countries.
 - People sensitized or trained: 579 in 2020 and 2601 in 2021
 - Strategies and national plans ready for national capacity-building and strengthening of e-waste dismantling and recycling facilities and related infrastructure
 - Substantial progress on regional pilot projects implemented by partners: ILO, ITU, SUR/RELAC, UNU, WHO/PAHO
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The LAC E-waste project: illustrative results (2/2)

Guía para Comunicadores y Periodistas
Residuos de Aparatos Eléctricos y Electrónicos (RAEE).
En el marco de la Ley 20.920 y la Responsabilidad Extendida del Productor (REP).
GUÍA INFORMATIVA PARA CHILE 2020

Component 1

AGENDA DEL EVENTO 10:00 am Bienvenida

10:10	Tema 1. Experiencias en coprocesamiento y protocolos de quemado para destrucción de desechos peligrosos (POLPAICO, Oly Chirinos)
10:18	Tema 2. Destrucción de sustancias agotadoras de la capa de ozono (SAO) y otros compuestos halogenados (UNIDO MÉXICO, Alberto Cruzado)
10:26	Tema 3. Experiencia de co-procesamiento en hornos de cemento y permisos ambientales (UNACEM Ecuador, Patricio Díaz)
10:34	PANEL AMPLIADO DE PRIMERA SESION

19 DE OCTUBRE, 2021

AGENDA DEL EVENTO

11:05	Tema 4. Retos y barreras para la gestión de residuos en hornos de cemento: regulación, monitoreo y sensibilización de las partes interesadas (CEMEX, Enrique Hoyos)
11:13	Tema 5. Experiencia en protocolos de quemado de COPs en hornos cementeros (EXPERTO REGIONAL, Andrés Jensen)
11:21	Tema 6. Co-procesamiento de plásticos provenientes de RAEE con BFR. (GEOCYCLE - HOLCIM)
11:29	PANEL AMPLIADO DE SEGUNDA SESION
12:00	Cierre del evento

19 DE OCTUBRE, 2021

Component 2 (focus on BFR plastics)

E-waste Academy Managers Edition (EWAM) 2021
Octubre 21,22 - 27,28 y 29
Retos y Oportunidades de la Gestión de RAEE en Latino América

Alfredo Cueva (ONUDI), Keira Ives Keeler (ONUDI), Carlos Hernández (ONUDI), Maria Celeste Gómez (ONUDI), Uca Silva (RELAC), Deepali Sinha Khethriwal (UNU), Michelle Wagner (UNU)

Component 3

Manual Gestión integral de RAEE
Los residuos de aparatos eléctricos y electrónicos, una fuente de trabajo decente para avanzar hacia la economía circular

REGIONAL E-WASTE MONITOR
for Latin-America, results for the 13 countries participating in project UNIDO-GEF 5554
2021



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Example: Joint SDG Fund - Uruguay



Joint SDG Fund - Fondo de Innovación en Energías Renovables Gestión de residuos & tecnologías de tratamiento

- Setting up a fund to support Uruguay's second energy transition.
 - Decarbonize transport and industrial sectors.
 - Combat climate change and boost competitiveness
 - Provide affordable access to clean and innovative technologies.
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Example: KM products on circularity and international commerce





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THANK YOU!