

Webinar

21 February 2018 (9:30 – 10:30):

ICLEI World Congress 2018
Webinar - The circular
economy in cities and
regions

Presentation:
Guiding principles for a transition
toward a Circular Economy

Kevin de Cuba | Americas Sustainable Development Foundation





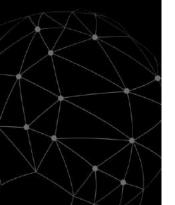
About ASDF



ing. Kevin H. de Cuba MSc.

Director ASDF y Founder of the Circular Economy Platform of the Americas

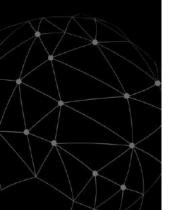
Senior Energy and Sustainable Development Specialist







- A nonprofit independent advisory Foundation that promotes innovative strategies to achieve sustainable development in the American Continent (20 years of experience)
- **Mission**: Facilitate the transition to sustainable development connecting people, ideas and actions throughout the Americas.
 - We create awareness in revolutionary ideas and strategies for sustainable development;
 - We establish strategic public-private alliances; and
 - We assist companies and organizations to make the shift toward sustainable development practices.



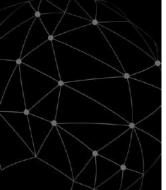


About ASDF

 Committed to promote, develop and implementing projects and initiatives inspired by the Circular Economy principles in the American Continent.







Our Platform Experts



ARUBA



ING. KEVIN DE CUBA MSC.
Director ASDF
Fundador y Presidente de la
Plataforma de Economía Circular



ARGENTINA



FEDERICO MANUEL GÓMEZ GUISOLI Director Ejecutivo y Oficial de Felicidad Más Oxígeno



BOLIVIA



OLIVER CAMPERO RIVERO Investigador y Profesor Universidad Católica Boliviana, Tecnologías en Desarrollo



BRASIL



ALEXANDRE GOBBO FERNANDES Directory Cofundador EPEA Brasil



BRASIL



LÉA GEJERDirectora en Flocky
Co-Creadora en Ideia
Circular



CARLA TENNENBAUM Cofundadora Ideia Circular



CHILE



RUBÉN CONTRERAS LISPERGUER
Oficial de Programa Regional
Agencia Internacional de
Energías Renovables (IRENA)



PETAR OSTOJIC
Gerente, Neptuno Pumps
Neptuno Pumps / Centro de
Innovación y Economía Circular-CIEC

Our Platform Experts



COLOMBIA



JUANA CAMACHO-OTERO
Investigadora Doctoral
NTNU: Norwegian University of
Science and Technology



SANDRA PALACIO-VÉLEZ
Docente, Departamento de
Organización y Gerencia,
Universidad EAFIT



DANIEL GÓMEZ
Director
Hub para la Economía
Circular Colombia



ALEJANDRO ÁLVAREZ-VANEGAS
Profesor
Universidad EAFIT



JOSÉ ALEJANDRO
MARTÍNEZ
Director del Departamento
de Sostenibilidad,
Universidad EAN



LORENA GARCÍA Science and Innovation Management Consultant ASDF



ADRIANA ÁLZATE
Gerente de Negocios
Centro Nacional de
Producción Más Limpia

Our Platform Experts



ECUADOR



PAULINA CRIOLLO ALVAREZ

Consultora

Evolution Engineering, Design
and Energy Systems



MÉXICO



RICARDO WEIGEND

Desarrollador de Negocios

Circulares

ECOR Europa



ADRIÁN VELASCO-JÁCOME Consultor Asociado y Director de Proyectos ix Agency y Escato



PERÚ



PERCY GRIFFITHS Consultor Asociado ASystematic Innovation UK



MARÍA DE LOS ÁNGELES FRANCO ESCOBAR Diseñadora de Proyectos Young Professionals for Agricultural Development





DR. KERON NILES
Gerente de Unidad
Economic Development
Advisory Board



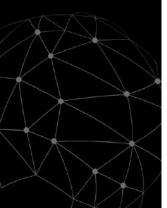


KEN ALSTON
CEO,
McDonough Braungart
Design Chemistry (MBDC)





- Create awareness and demonstrate the value to generate appropriation of the principles of Circular Economy.
- Unify the region to facilitate, expand and scale the Circular Economy in the Americas.
- Develop the capacities in the public and private sector, recognizing the needs and local contexts in the different nations of the continent.
- Integrate all efforts for a transition to a Circular Economy in the region: Governments, Cities, Companies, Academia and Society.





About



01/AWARENESS

02 / DATABASE

03 / DECISION

Introduce and create awareness and knowledge of the concept of Circular Economy throughout the Western Hemisphere (Americas). Host a digital library of technical information, data, and research publications regarding Circular Economy relevant to the Americas. Trigger policy development and informed decision making to enable Circular Economy adoption in the region.

04 / NETWORK

05 / SHARING

06 / INNOVATION

Serve as the regional hub for facilitating partnerships and business opportunities relevant to Circular Economy in the Americas.

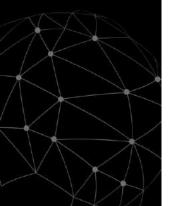
Share experiences and best practices among experts, project developers, and other change agents in the Circular Economy field in and for the Americas. Promote innovative business models, tools, and methods to facilitate the transition towards a Circular Economy in the Americas.

07 / NEWS

08 / MONITOR

09 / BENCHMARK

Provide the latest updates about ongoing Circular Economy programs, initiatives and projects, and upcoming events in the Americas. Monitor Circular Economy implementation activities across the Americas and their collective contribution to the United Nations Sustainable Development Goals. Present and compare macroeconomic, social and environmental outputs and benefits from applying Circular Economy in the region.





Why is there a need for:

a global Circular Economy?



Why we need to change the economic model



Why we need to change the economic model



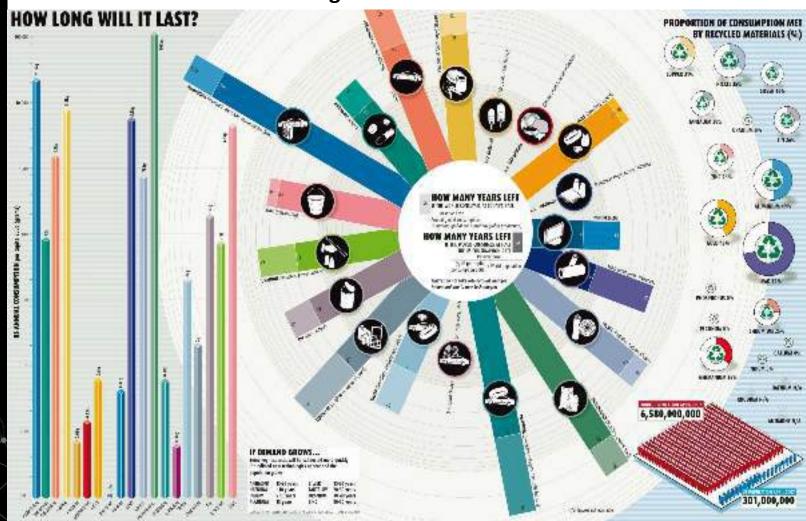
Why we need to change the economic model





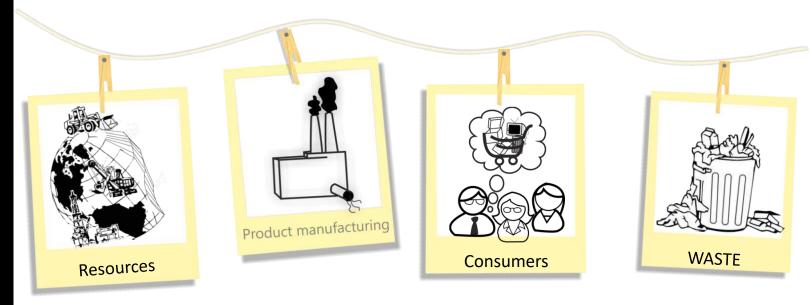
Why Circular Economy matters to cities and regions?

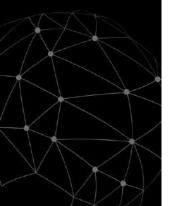
Access to future strategic raw materials and resources?





Linear Economy

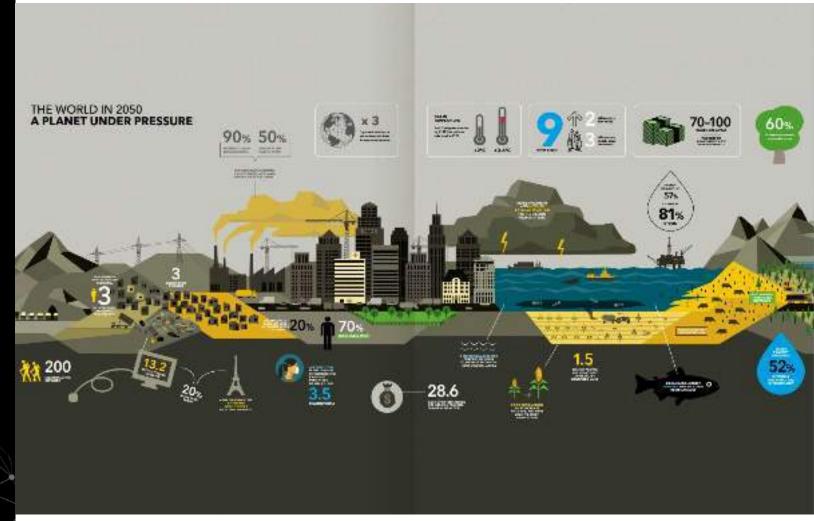


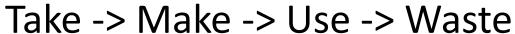


Take -> Make -> Use -> Waste



Linear Economy -> Cities of the Future?







Why Circular Economy matters to cities and regions?





Why Circular Economy matters to cities and regions?

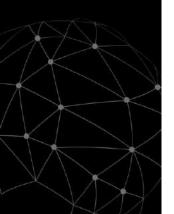
TAKE - MAKE - WASTE ECONOMIC MODEL ->





What is:

Circular Economy?





What is Circular Economy?

Recycling?

Natural Capitalism?

Resource Efficiency?

Sustainable Production & Consumption?

Performance Economy?

Internet of Things?

Lean Production?

Non-toxic materials?

Blue Economy?

Biomimicry?

Green Growth?

Bioeconomy?

Eco Design?

Disruptive Innovation?

Regenerative Design?

Reduction?

Industrial Ecology?

Reuse?

Green Economy?

Eco-Efficiency?

Cradle to Cradle?

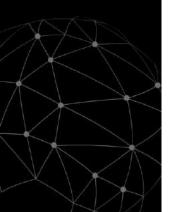
Cleaner Production?

Recovery?

Closing Loops?

Produst as Service?

Eco-innovation?

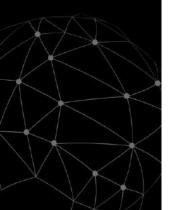




What is Circular Economy?

Current definition:

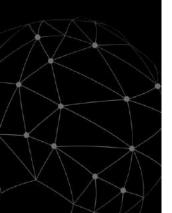
"Circular Economy" is an economy "that is restorative and regenerative by design, and which aims to keep products, components and materials at their highest utility and value at all times, distinguishing between technical and biological cycles" (Ellen MacArthur Foundation, 2016).





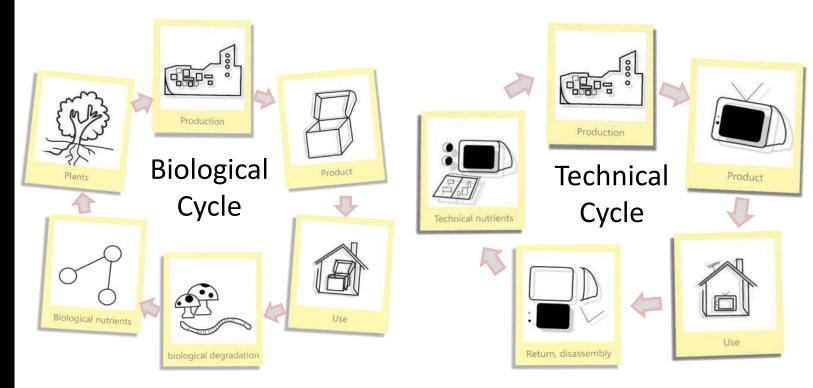
Circular Economy principles

- (1) Circular Economy is a global economic model that **decouples economic growth and development** from the consumption of finite resources;
- (2) Distinguishes between and separates **technical and biological materials**, keeping them at their highest value at all times;
- (3) Focuses on **effective design and use of materials** to optimize their flow and maintain or increase technical and natural resource stocks;
- (4) Provides **new opportunities for innovation** across fields such as product design, service and business models, food, farming, biological feedstocks and products; and
- (5) Establishes a **framework and building blocks for a resilient system** able to work in the longer term

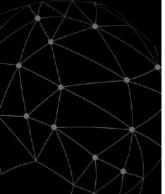




Circular Economy



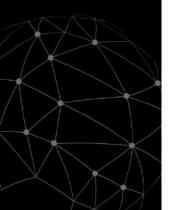




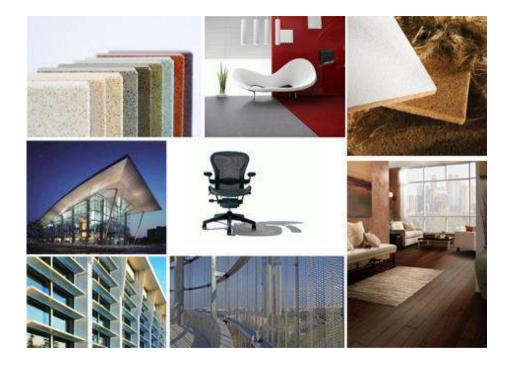


How to become a regenerative and restorative city by intent and design?



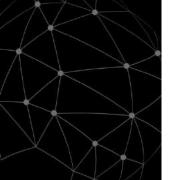






1. Business Models

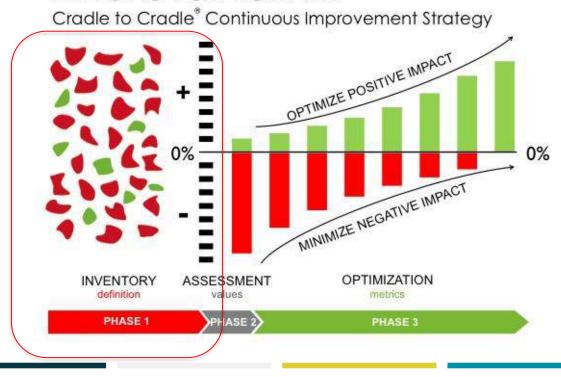
-> Focus on the Private Sector (origin of challenges and opportunities) -> rethink values and rethink service.





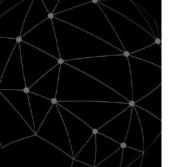


THE UPCYCLE CHART



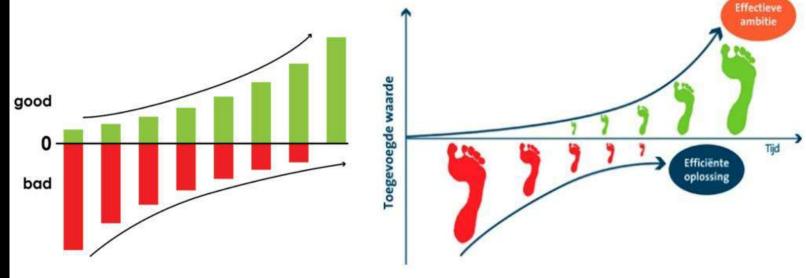
2. Non-toxic materials

-> non-harmful materials and chemicals, without impact on the environment, health and environment using filters (Material Health Assessments)



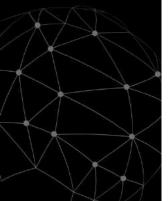






3. Eco-efficiency VS Eco-effectiveness

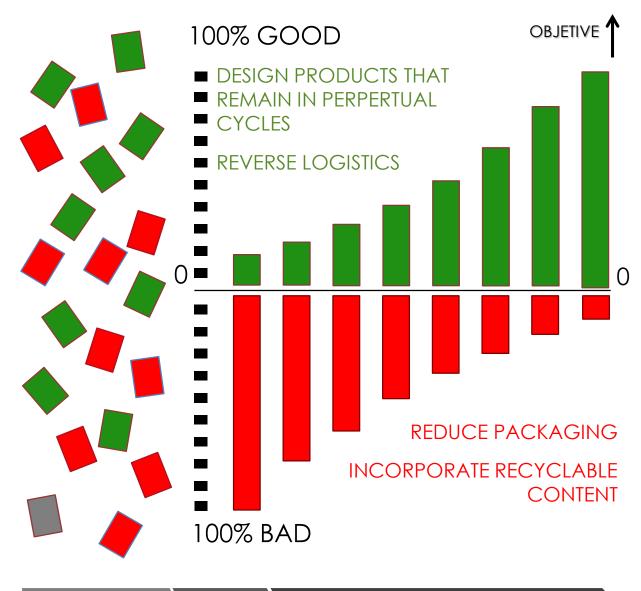
-> understand the difference in doing something intentionally well from its conceptualization versus improving something that already exists.





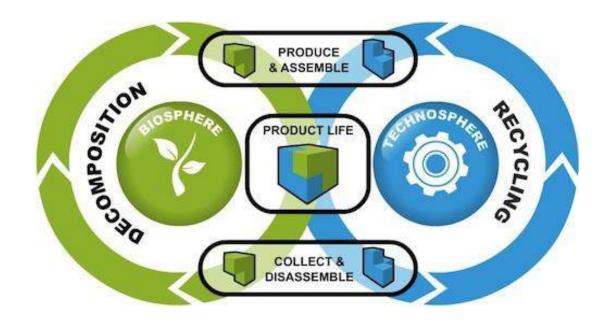
circular economy platform

THE UPCYCLE CHART: CIRCULAR ECONOMY









4. Redesign y Reorganize production, distribution y use cycles

-> superior design of products and services to close material flows recognizing the role of producers and consumers





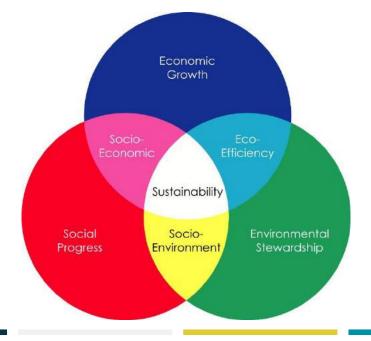


5. Systemic Thinking

-> make changes at the micro level (products, companies, consumers), meso (eco-industrial parks) and macro (city, region and beyond) as part of a road map to a circular region or country

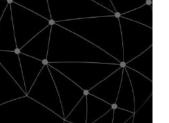






6. Achieve Sustainable Development: improve environmental quality, economic prosperity & social equity, to the benefit of present & future

generations -> look for a balance in priorities and recognizing the time dimension and availability of resources







Traditional Design -> Eco-Intelligent Design





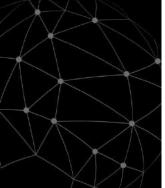






Traditional Design -> Eco-Intelligent Design





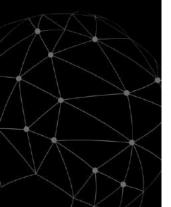




In summary:

Adopting Circular Economy principles will lead to:

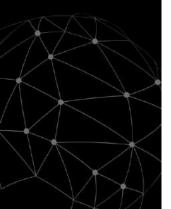
- Reduce dependence on natural resources
- Effectively de-linking economic growth from socio-environmental damage
- Encourage new and innovative business models
 Strengthening competitiveness and innovation
 capacity in the country
- Access to new markets and global supply chains
- Strategic business sectors resilient and prosperous





Services we offer:

- Awareness and training workshops on the Circular Economy in general and by sector (General and Sectorial Awareness Raising and Training workshops)
- Evaluations of enabling conditions for the transition to a circular economy in prioritized sectors (Circular Economy Readiness Assessments)
- Design and prepare a roadmap for the transition to a circular economy in Honduras (Circular Economy Roadmap)







Americas Sustainable Development Foundation

Kevin de Cuba Director, ASDF

Aruba (Headquarters):

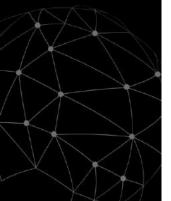
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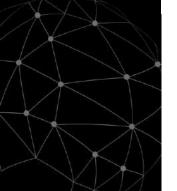


From Design for obsolescence -> circular design



Apple iPhone Time Line And Evolution

Source: http://www.postlandfill.org/planned-obsolescence-solutions/





From Design for obsolescence -> Circular / C2C Design

iPhone: US\$549



iPhone: https://www.cnet.com/uk/products/apple-iphc 5/review/ FairPhone: US\$600



FairPhone: http://www.digitaltrends.com/cell-phone-reviews/fairphone-2-review/



From ownership -> service based relation





From resource dependency -> Dematerialization





From passive recovery -> active recovery, refurbish and repair





From traditional -> innovative circular building





Finding Opportunities!

Business in a Circular Island Economy?

