



**PACE**  
PLATFORM FOR ACCELERATING  
THE CIRCULAR ECONOMY



JAN 2020

# ELECTRONICS & CAPITAL EQUIPMENT

In 2018, 50 million tons of electronics were discarded at a lost value of \$60 billion USD. We can realize the opportunity to change what is a rapidly growing waste stream into raw materials. Bringing the estimated 80% of global electronics which ends up in landfills or hazardous informal processing into the circular economy can play a major role to combat climate change and reduce demand for mined materials. Realizing this will require collective work to break barriers, redefine waste and build new circular supply chains.

## JOIN PACE IN LEADING THE TRANSITION TO THE CIRCULAR ECONOMY

PACE continues to accelerate the transition to the circular economy in electronics & capital equipment by: driving transformative projects; mobilizing learning to inform action; and activating global leadership to drive action.

**In 2020, there are three opportunities for engagement & leadership:**

1. Help accelerate and scale existing projects
2. Shape PACE system mapping and analysis to guide strategic action
3. Lead action on new projects to overcome barriers to circularity

### CURRENT PROJECTS

#### **New Vision for Electronics**

Engages relevant UN entities, governments and multinationals to build alignment around a plan for a circular future of the electronics sector.

 **World Economic Forum**

#### **China Secondary Material Flows**

Supports effective systems for the integration of recycled materials into electronic products and equipment in China.

 **World Economic Forum**

#### **Circular Economy Approaches for Electronics Nigeria**

Financially self-sustaining circular economy approach (including EPR implementation) for Nigeria's electronics sector.

 **UN Environment Programme**

#### **Global Battery Alliance**

Global collaboration platform for a socially responsible, environmentally sustainable and innovative battery value chain.

 **World Economic Forum**

#### **Capital Equipment Coalition**

Manufacturers share progress and insights on replicable practices towards their pledges on value preservation and recovery from their products.

 **Philips**

#### **Scale 360**

Global partnership to fast track 4IR innovations for the circular economy through nationally-led innovation challenges.

 **World Economic Forum**

# CHALLENGES FOR CIRCULARITY

2

## Product design

- How can product design deliver on circularity as well as cost and performance?
- How can circular design practices be shared to accelerate the transition whilst rewarding business innovation?

3

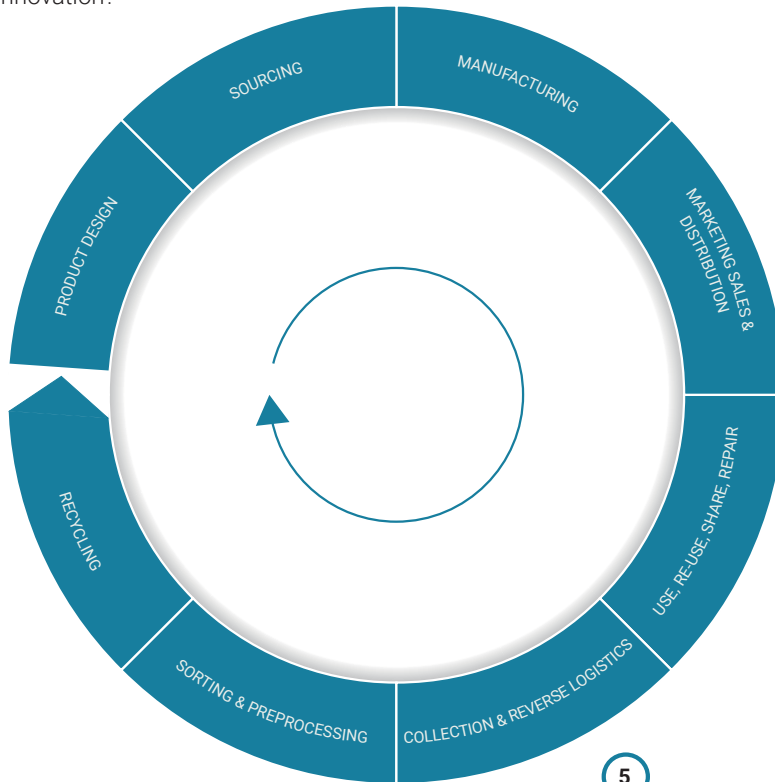
## Sourcing & Manufacturing

- How can we encourage the incorporation of recycled content at scale?
- How can we reduce waste & increase efficiency in manufacturing?

1

## Transparency & Traceability

- How can we collect and share material / product data along the value chain in a transparent yet secure manner?



4

## Business Models

- How can we encourage keeping older products in use when new ones have improved performance and/or falling prices?
- How can we increase the financial attractiveness of product-life extension business models?

6

## Material Recovery

- What is needed to deploy high-quality sorting and recycling infrastructure globally?
- How can we achieve economies of scale and market competitiveness of secondary materials?

5

## Collection and reverse logistics

- How do we engage and incentivise consumers to properly return or dispose of products?
- How can legislation encourage greater circular material flows, while safeguarding social justice and safety?

# OPPORTUNITIES FOR LEADERSHIP

### Develop a decentralised data platform

Collaborative cross-value chain project to build transparency and trusted data on materials / products (e.g. composition, global flows).

Challenges addressed:

- 1 2 3

### Enabling circular business models

Consolidate key success factors and necessary enabling conditions for circular business models to facilitate product value retention.

Challenges addressed:

- 4 5

### Optimise protocols for transboundary movement

Convene business, government and civil society to optimize policy and protocols enabling responsible transboundary movement for circularity.

Challenges addressed:

- 4 5 6



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IN COLLABORATION WITH: **accenturestrategy**