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Responsible Business Alliance

Advancing Sustainability Globally

coalition

### **Knowledge Partners**

Services

**EVEL**I FDGER WHITE & CASE





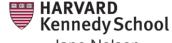
Academia iied



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### Industry









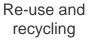
Raw materials























**Envision** 





**FAIRPHONE** 







Microsoft







Battery

manufact.

(cell & pack)





#### GLOBAL BATTERY ALLIANCE BATTERIES POWERING



Shift the value chain to sustainable outcomes

### Create demand for sustainable batteries

- Publicize a vision and roadmap backed by world-class analytics for what a sustainable battery market looks like and how it can be achieved
- Drive the wide-spread adoption of principles and KPI for a sustainable value chain through leadership endorsements

### Build confidence that a sustainable market can be achieved in low-and middle-income countries

- Quantify opportunities for African and Latin American markets to link battery demand with sustainable development (establishment of sustainable mining, recycling industries, etc.)
- Establish a network of governments committing to pilots and other interventions in support of such goals

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Develop transparent, sustainable raw material supply chains

### Drive investment, standard-setting and transparency for a sustainable cobalt supply

- Drive the development of a standard to scale up responsible artisanal small-scale mining based on best practice
- Drive investment and commitments to address child labour in the cobalt supply chain

Develop a strategies and launch publicprivate interventions in support of sustainable supply chains for other key battery materials (e.g. nickel, lithium).

Develop a circular, lowcarbon value chain in support of the Paris Agreement

### Create the market conditions for large-scale EV battery recycling

- Identify the largest drivers of transaction costs associated with the transboundary flow of EV batteries for recycling
  - Direct the adoption of policy frameworks to lower these costs

# Scope the establishment of a data platform ("Battery Passport") to capture essential information for a sustainable battery market

 Develop an open-source platform with lifecycle data of batteries ("Battery Passport") to enable an efficient and sustainable market and value chain



Unlock **innovation** along the value chain to accelerate battery deployment

## Direct capital and incentivize innovation towards battery applications in low-and middle-income countries

- Steer investment and expertise towards a faster deployment of battery storage for clean, affordable energy access in lowand middle-income countries
- Steer capital and pilot initiatives towards an accelerated, sustainable deployment of electric mobility in low-and middle-income countries





### **Establishing a circular** battery value chain as a major driver to achieve the Paris Agreement

**Transforming the** economy in the value chain creating new jobs and additional value

**Safeguarding human** rights and economic development in line with the UN SDGs





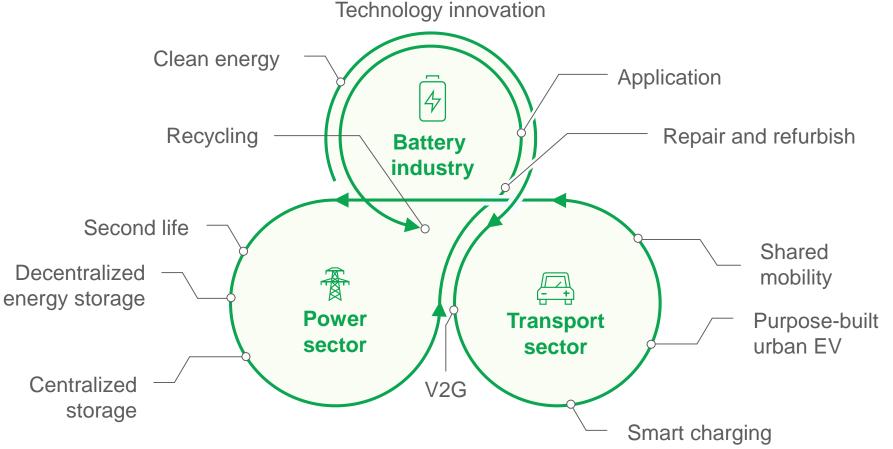


30% emission reduction in transport and power sector

10m additional jobs and 150b of economic value in a responsible and just value chain

600m add. people with access to electricity, reducing the gap of people without electricity by 70%

Batteries reduce emissions in transport & power with positive economic value



### 10 recommendations to scale up the battery value chain sustainably



Circular value chain and connected business cases



- Implement design and systems for life extension and end-of-life treatment
- 2 Implement smart-charging and vehicle-to-grid
- 3 Scale up electric shared and pooled mobility

Sustainable economy & technology



- 4 Increase the share of renewable energies and energy efficiency measures in the value chain
- 5 Accelerate the roll-out of charging infrastructure that allows for smart-charging and V2G services
- 6 Adjust regulation for battery-enabled renewables as a dispatchable source of electricity for the grid
- 7 Finance sustainable expansion, support value creation & economic diversification in local communities

Responsible and just value chain



- 8 Ensure consistent transparency based on established sustainability norms and principles
- 9 Establish integrated GHG disclosure and emission regulations
- 10 Support the deployment of batteries for energy access



### ERY ANCE MERING DEVELOPMENT 1. ast Modified 2

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### Potential Actions to Advance Recommendations





How can we work together to advance near-term action to implement the recommendations?



### **Potential Examples**

- **Principles** to foster product design and technical development to facilitate disassembly for repurposing, repair and recovery of materials
- A **Public-Private Action Coalition and Roadmap** towards eradicating child labor from the cobalt supply chain and improving working conditions in artisanal small-scale cobalt mining
- A Funding Platform to implement projects for sustainable impact in local communities
- A **Utility Grid Public Policy Framework** for integrating batteries, smart charging and vehicle to grid to foster renewables as a dispatchable source of electricity for the grid
- A Circular Economy Policy Framework to accelerate battery life extension and recycling; and electric shared and pooled mobility
- A **Blended Financing Plan** for scaling battery enabled renewable energy micro-grids in emerging markets

