

Circular Transition Indicators

Presentation to H-AIST CE Lab

23 April 2024



17 April, 2024

Who's with you today



**Irene
Martinetti**

*Lead, Circular Transition Indicators
(CTI)*

*World Business Council for Sustainable
Development (WBCSD)*



Who we are

WBCSD is a global community of leading businesses driving systems transformation for a better world in which 9+ billion people can live well, within planetary boundaries, by mid-century.

Together, we accelerate the required transformation of businesses, their value chains and the systems in which they operate, to limit the impact of the climate crisis, restore nature & tackle inequality.

Our community of business leaders is empowered to raise ambition for a better world, deliver action at speed and scale in their operations & value chains, and sharpen the accountability of their performance.

Our 200+ members span across all geographies and sectors



Introducing the Circular Transition Indicators



CTI is a cross-sector framework for measuring circularity



CTI provides insights on the circularity of a company, facility or product level to **drive the transition towards a circular economy** by encouraging businesses to **adopt innovative circular business approaches** that improve company longevity and resilience.

Key principles:

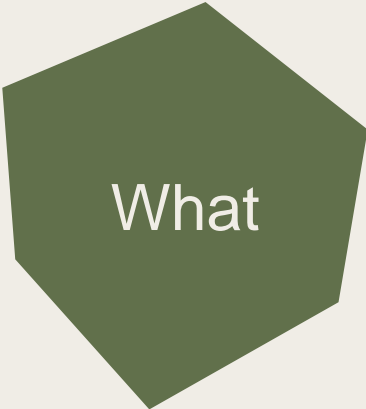
- Simple
- Consistent
- Complete
- Complementary
- Neutral



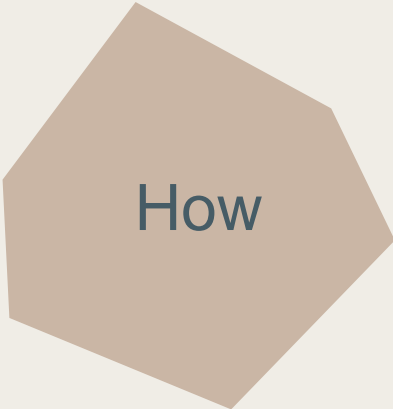
Built for business by business, CTI aims to support companies operationalize circularity, build performance and accountability systems, and create value.



Companies need to understand the **level of circularity** of their company, assets and products to act **toward improving their performance.**



CTI is a **standardized methodology** and **terminology** that supports decision-making and collaboration.



CTI measures **material, water flows** and **design for circularity** and their **impact on Climate and Nature**

CTI is used widely around the globe

**CIRCULAR
TRANSITION
INDICATORS V4.0**
Metrics for business, by business

30'000+ report
downloads

CTI v.5
coming up!

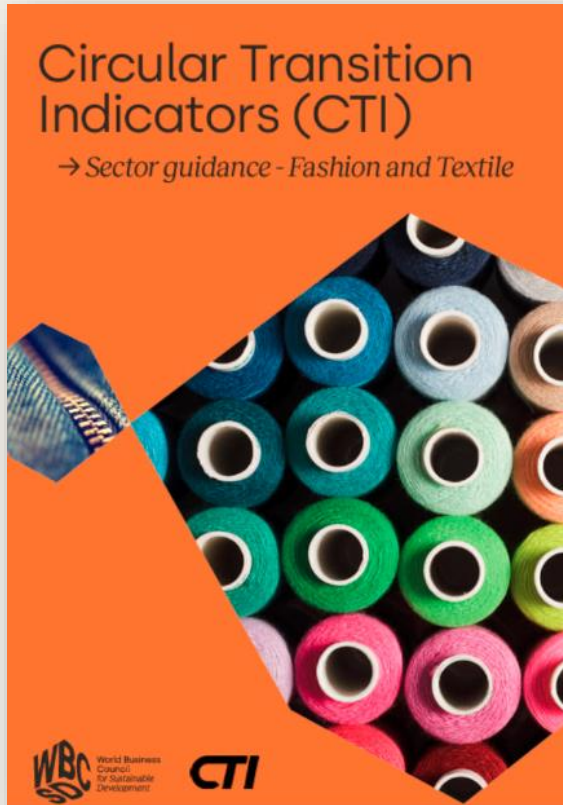
70+ countries
globally

The CTI methodology is available in 8 languages: [English](#) | [Japanese](#) | [Traditional Chinese](#) | [Spanish](#) | [French](#) | [Italian](#) | [Portuguese](#) | [Turkish](#)

The Circular Transition Indicators v1.0, v2.0, v3.0 and v4.0, by the World Business Council for Sustainable Development are licensed under CC BY-ND 4.0 (Creative Commons Attribution-NoDerivatives 4.0 International).

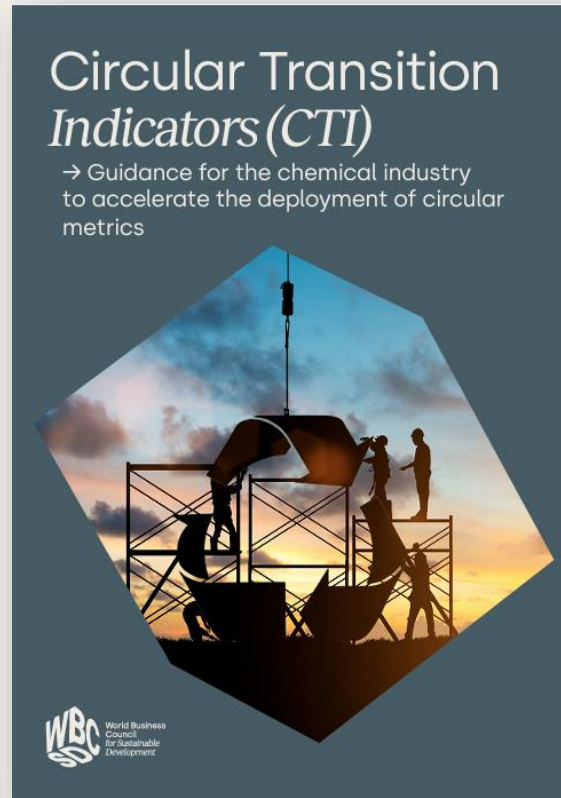
CTI supports diverse industries with its range of sector guidance

Fashion and Textile



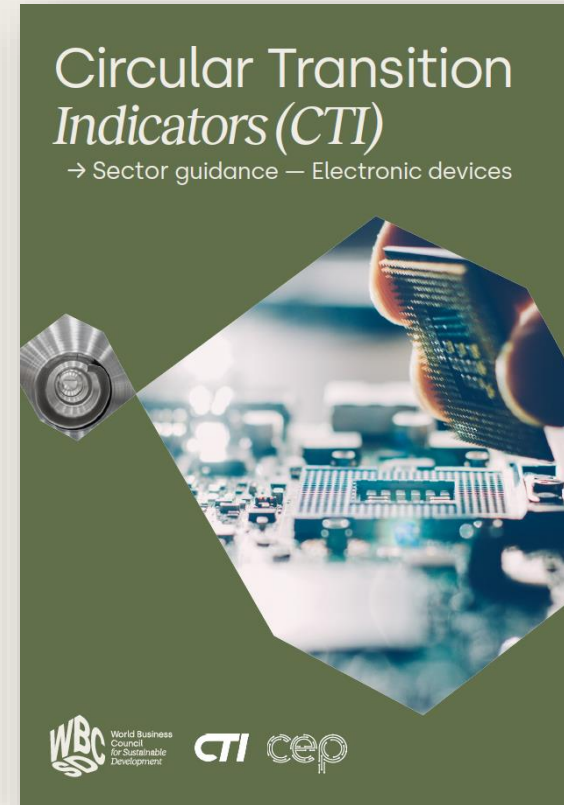
CTI Sector Guidance – Fashion and Textile
Published January 2024

Chemicals



CTI Sector Guidance – Chemicals
Published March 2024

Electronics



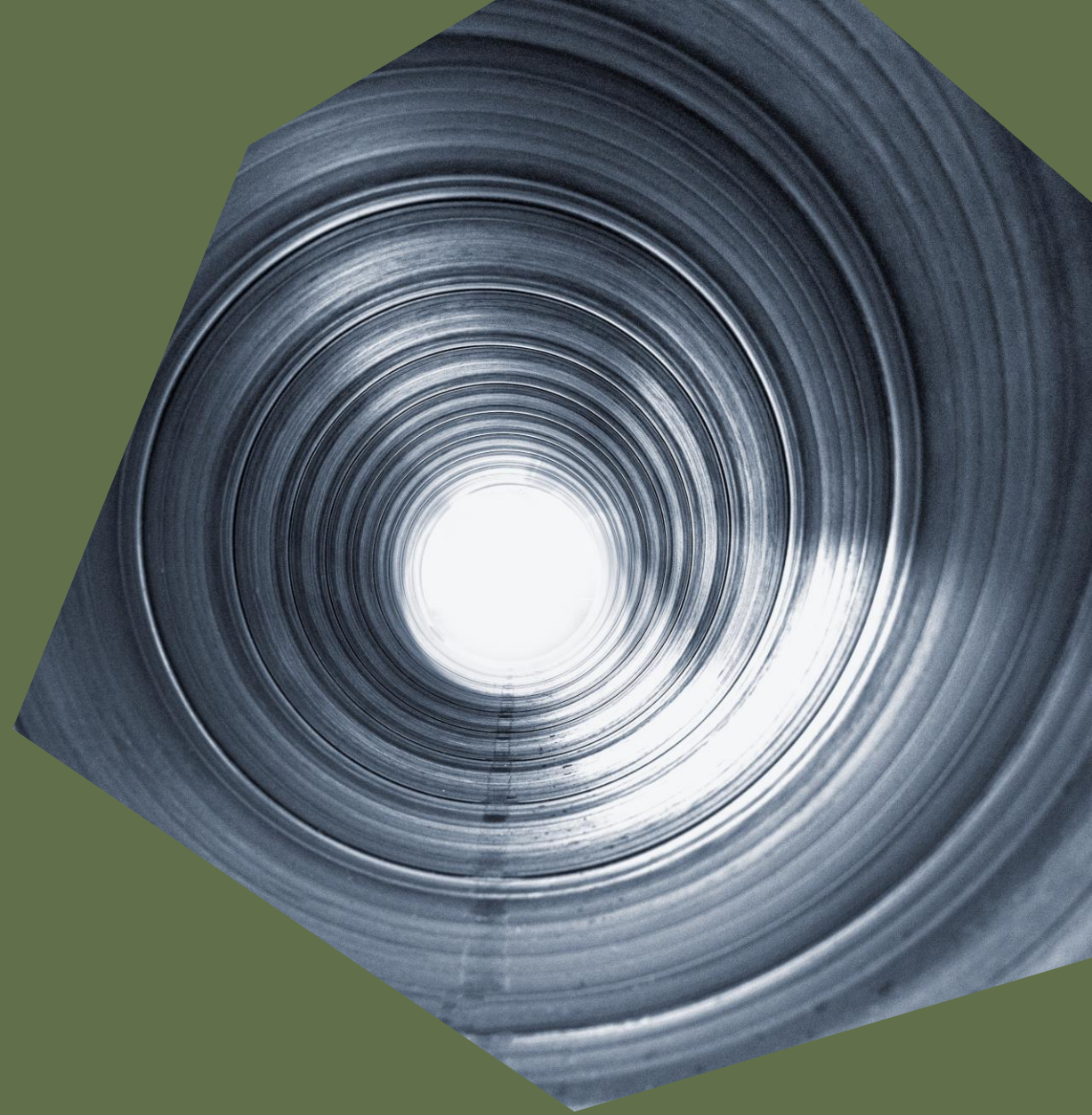
CTI Sector Guidance - Electronics
Published at WCEF2024
Launch event

Buildings



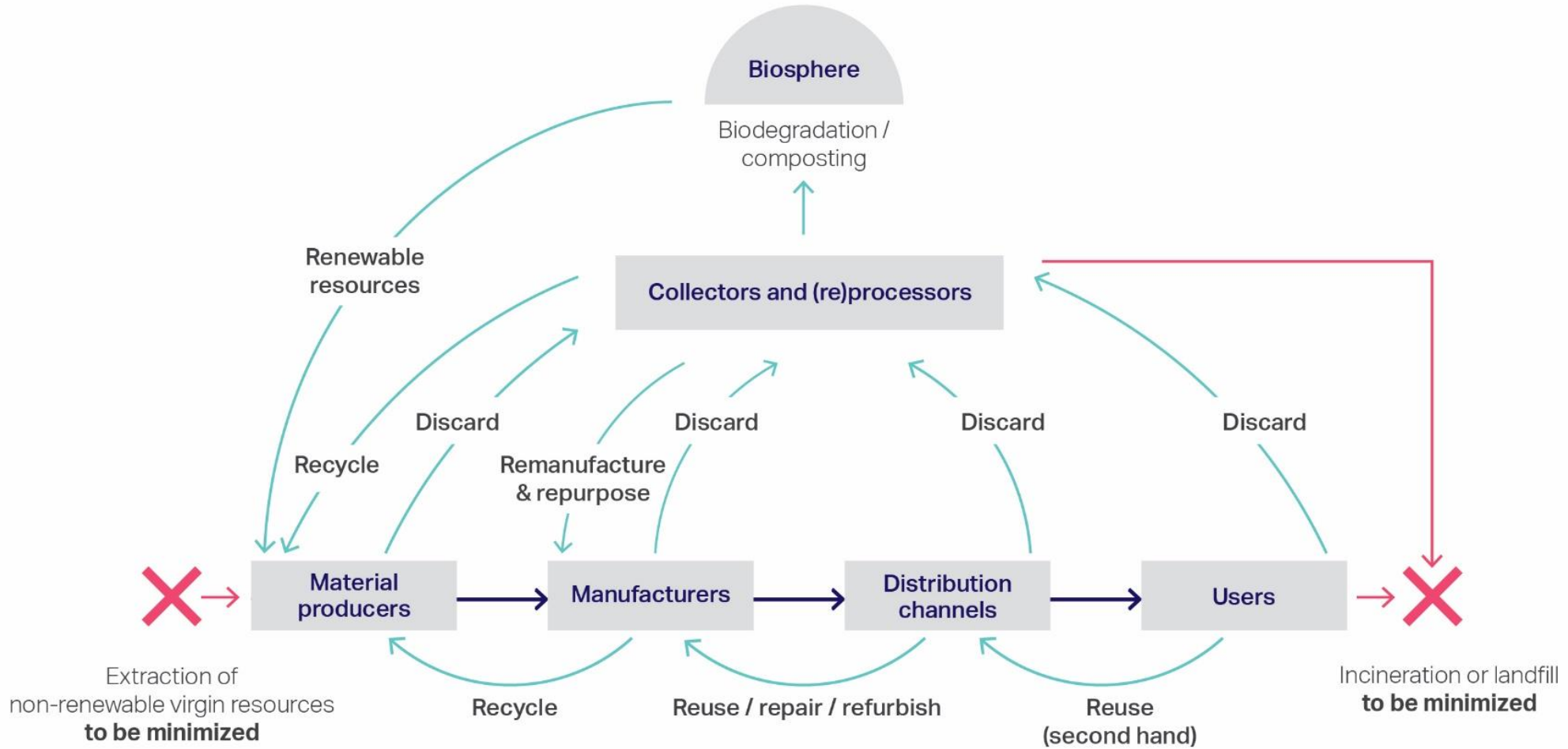
Under development

*Circular Transition
Indicators
Methodological
approach*

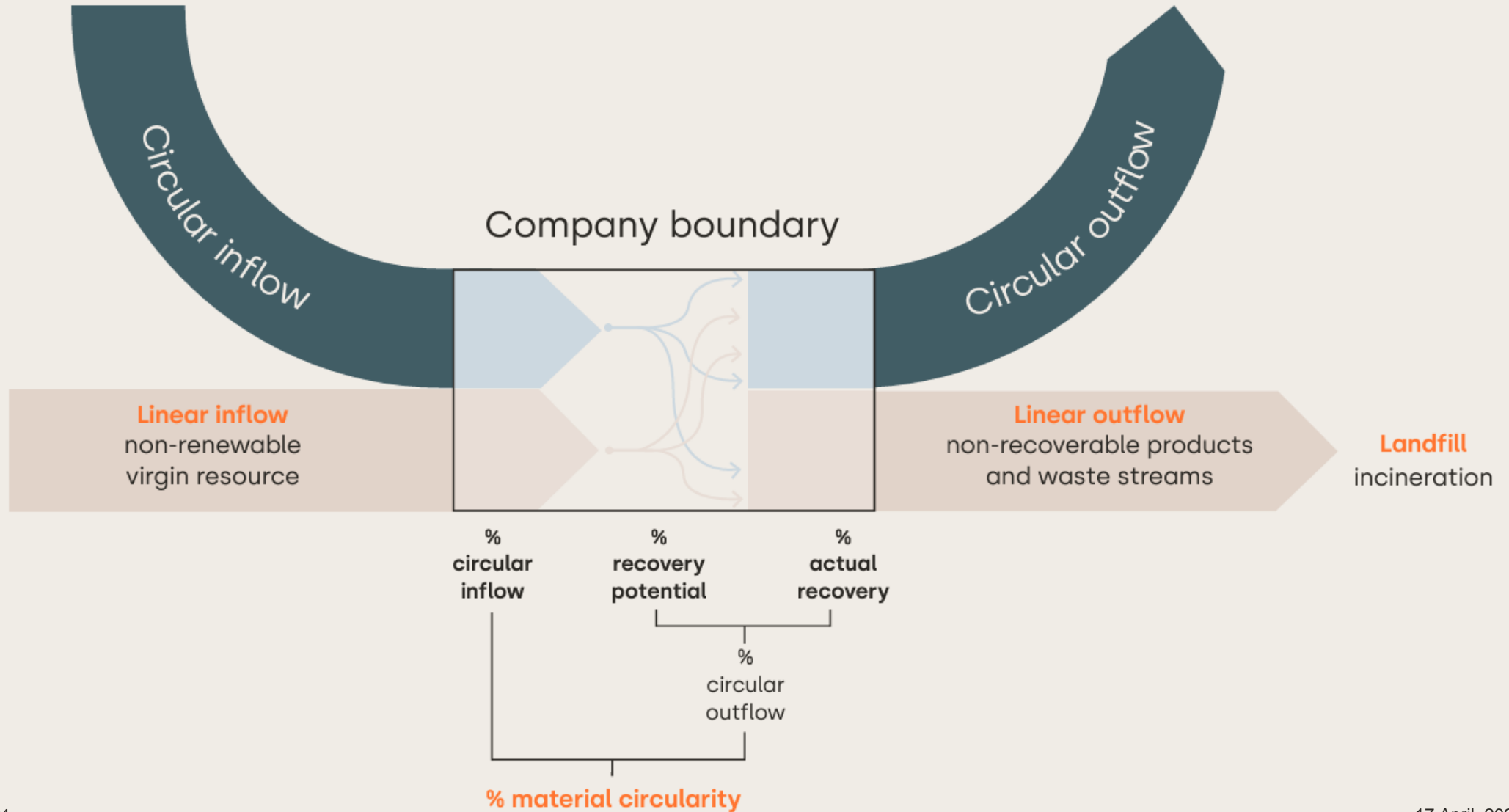


The Circular Transition Indicators

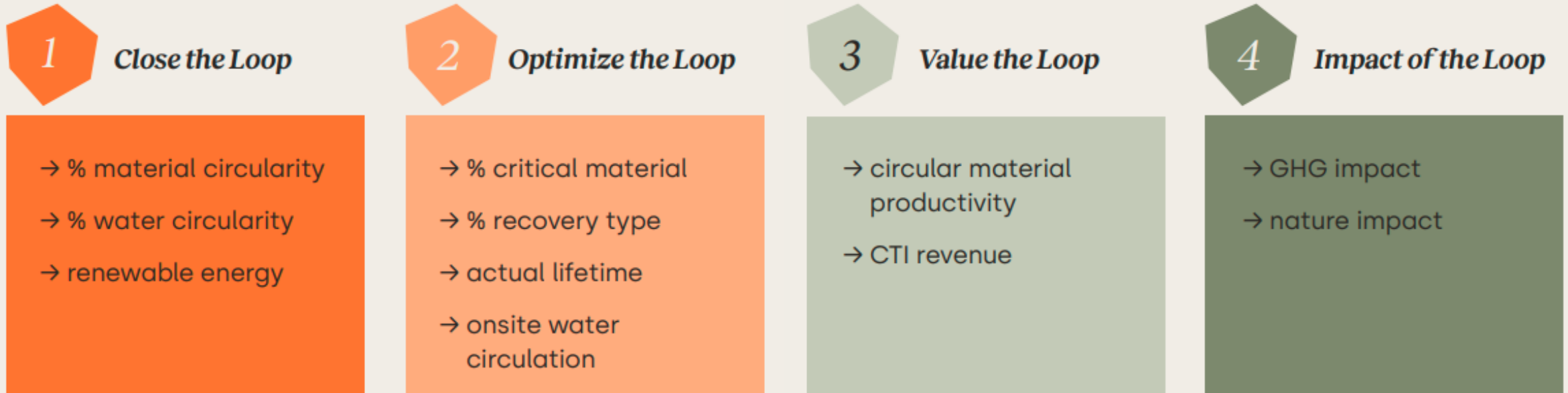
A value chain effort



CTI measures the circularity of a business by assessing physical flows

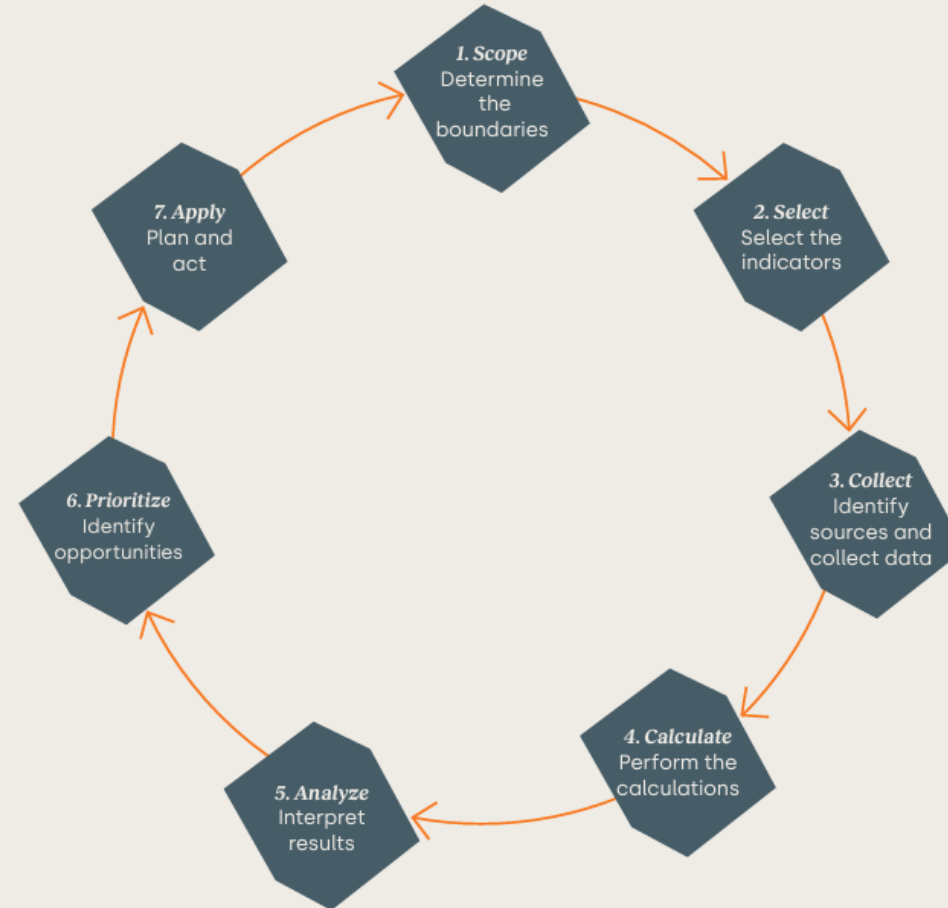


The methodology allows for different granularity levels in the assessment thanks to its four modules



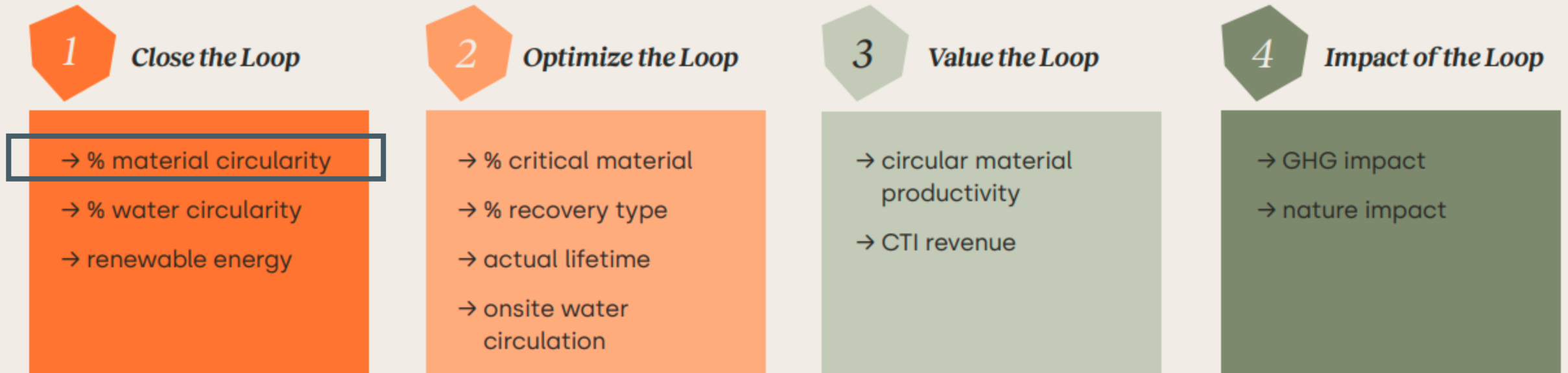
Circular Transition Indicators – Measuring progress

Supporting decision making and monitoring progress



Circular Transition Indicators (CTI)

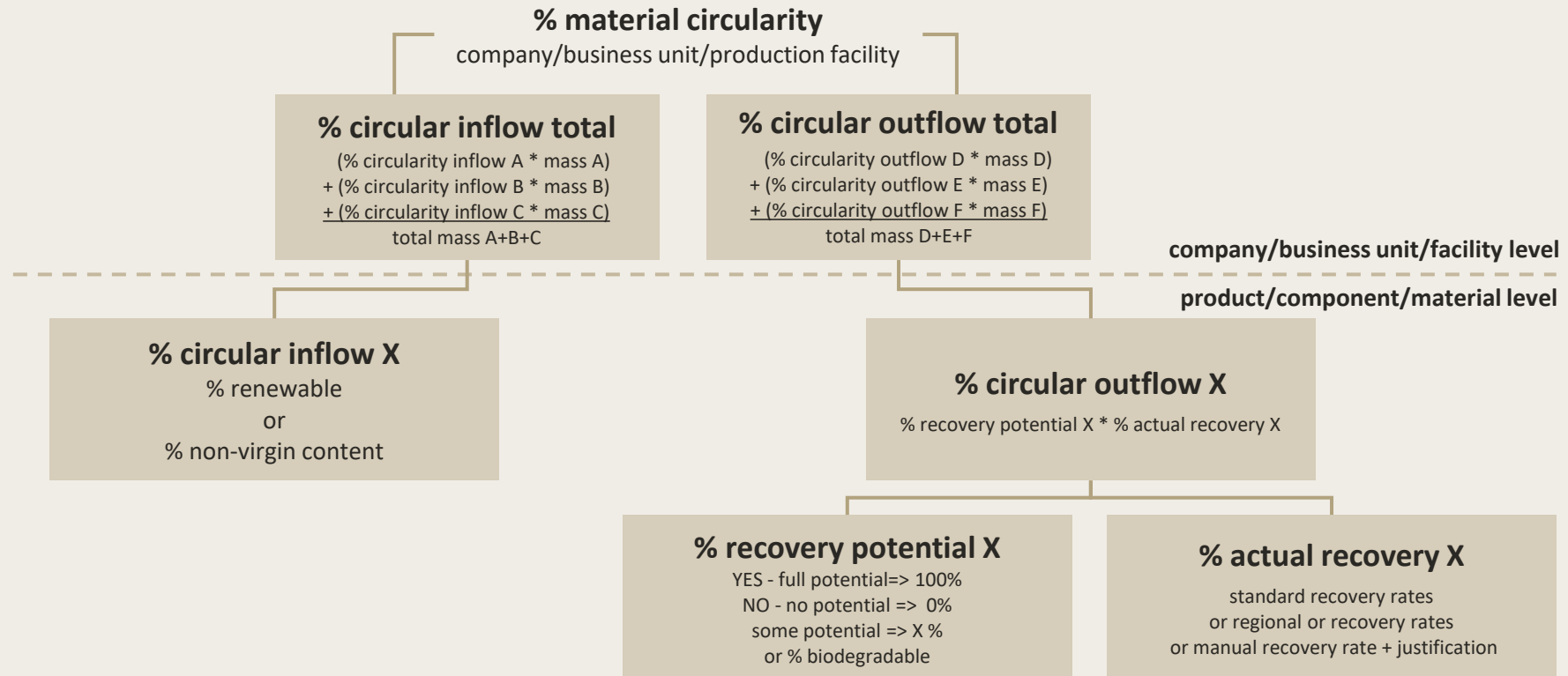
Methodology and performance indicators



Formulas and definitions for all indicators are available in the report: [Circular Transition Indicators \(CTI\) v4.0](#)

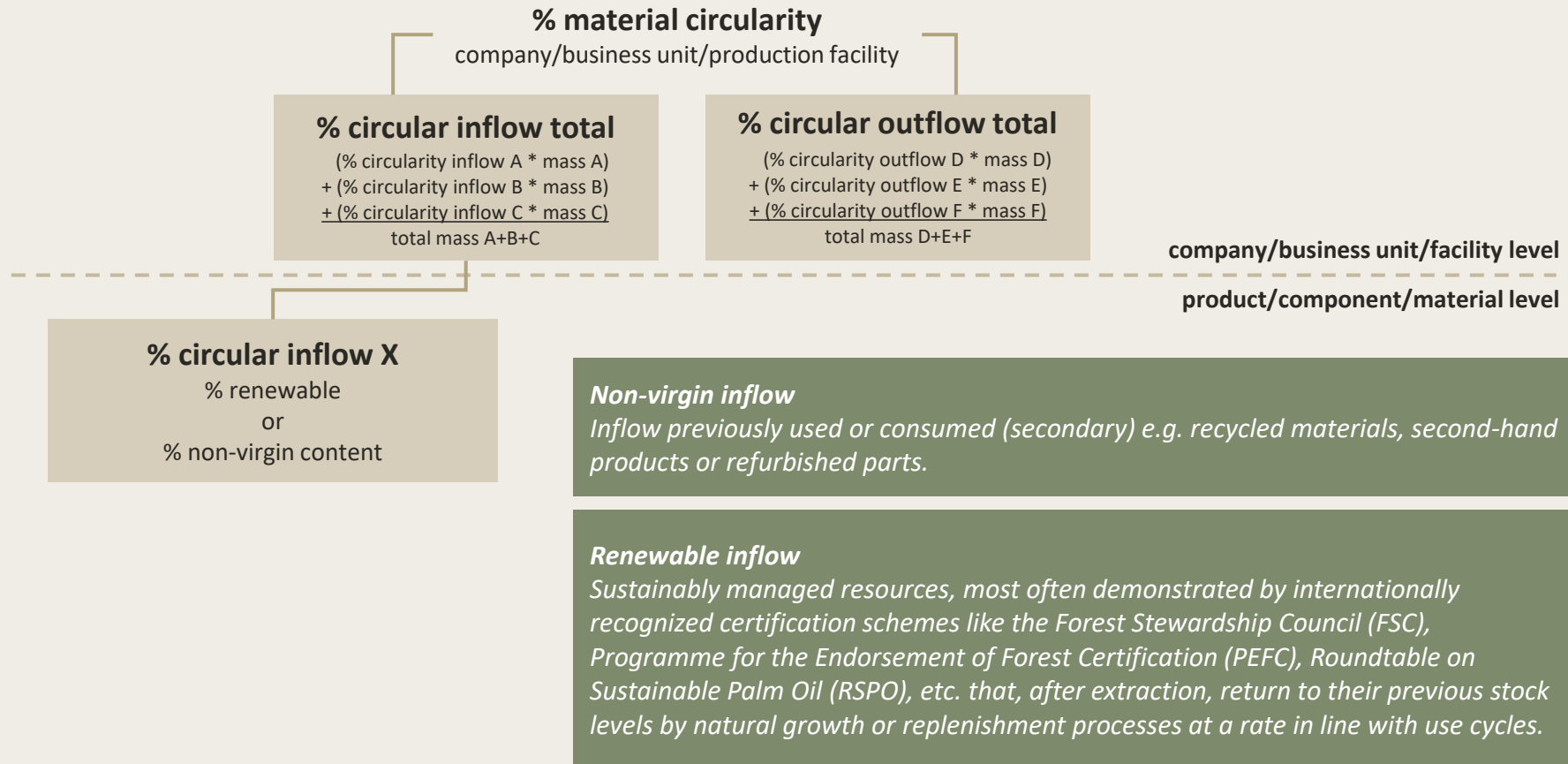
Circular Transition Indicators – Close the Loop

CTI headline indicator: % material circularity



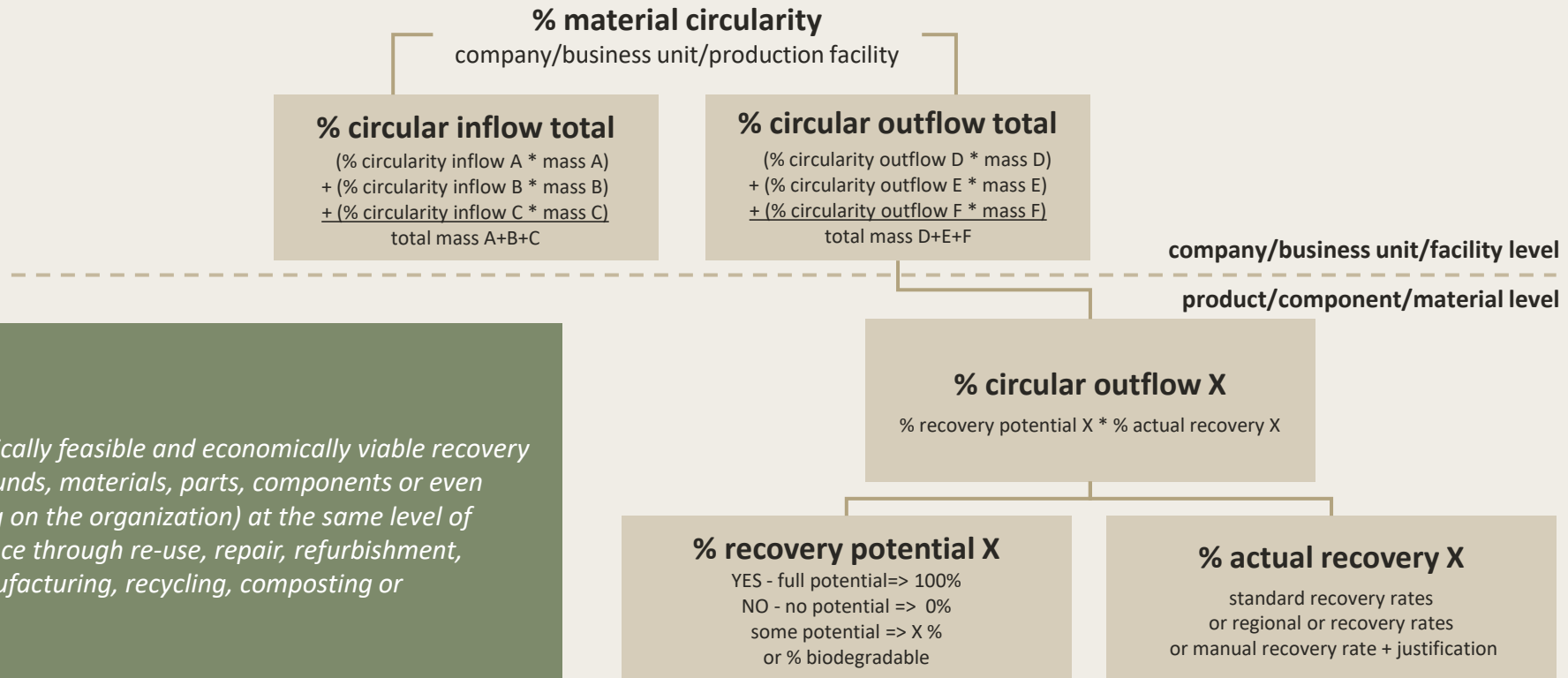
Circular Transition Indicators – Close the Loop

CTI headline indicator: % material circularity



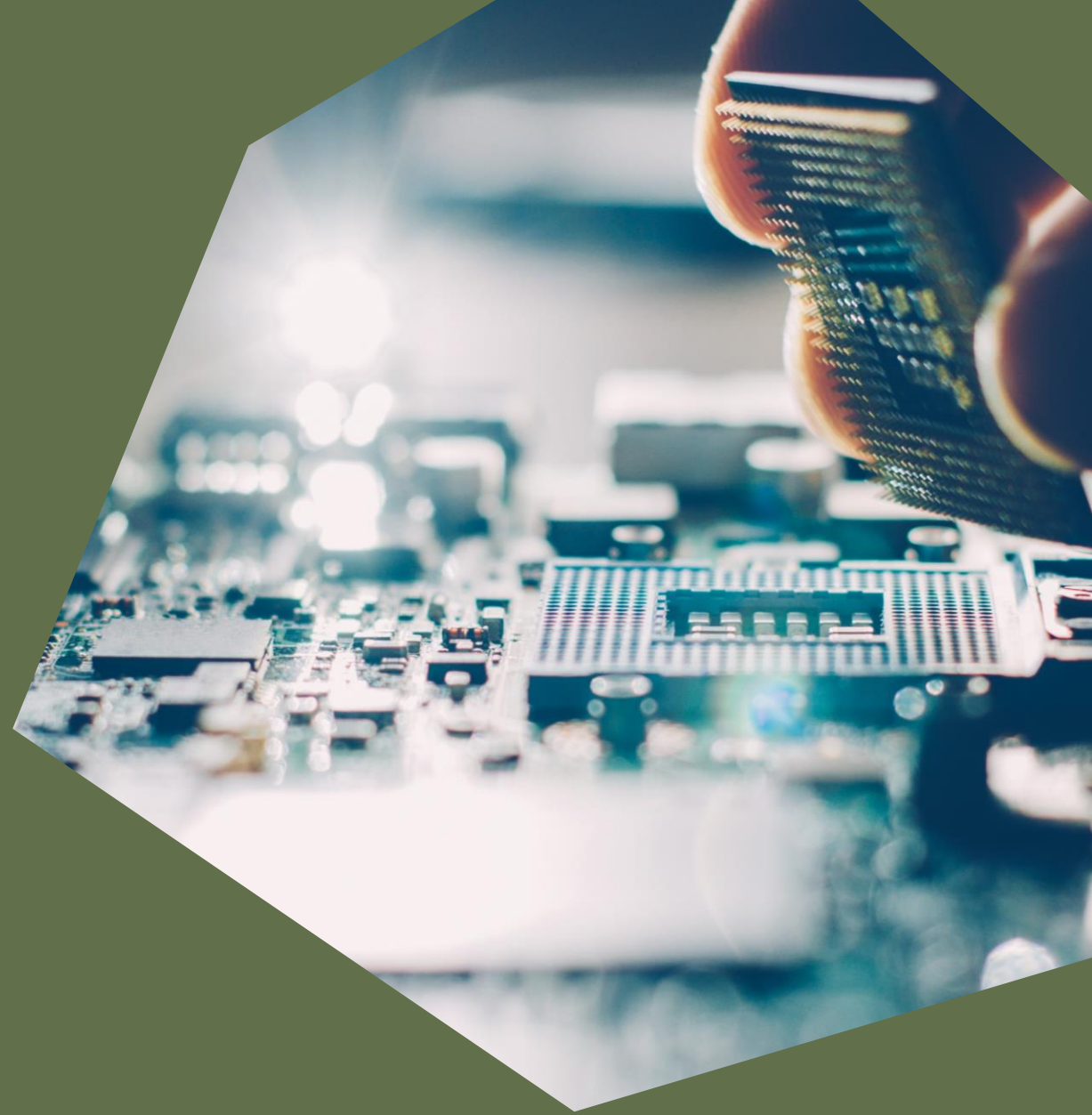
Circular Transition Indicators – Close the Loop

CTI headline indicator: % material circularity



Recovery *The technically feasible and economically viable recovery of nutrients, compounds, materials, parts, components or even products (depending on the organization) at the same level of functional equivalence through re-use, repair, refurbishment, repurposing, remanufacturing, recycling, composting or biodegrading.*

Circular Transition Indicators for Electronic devices



Circular Transition Indicators

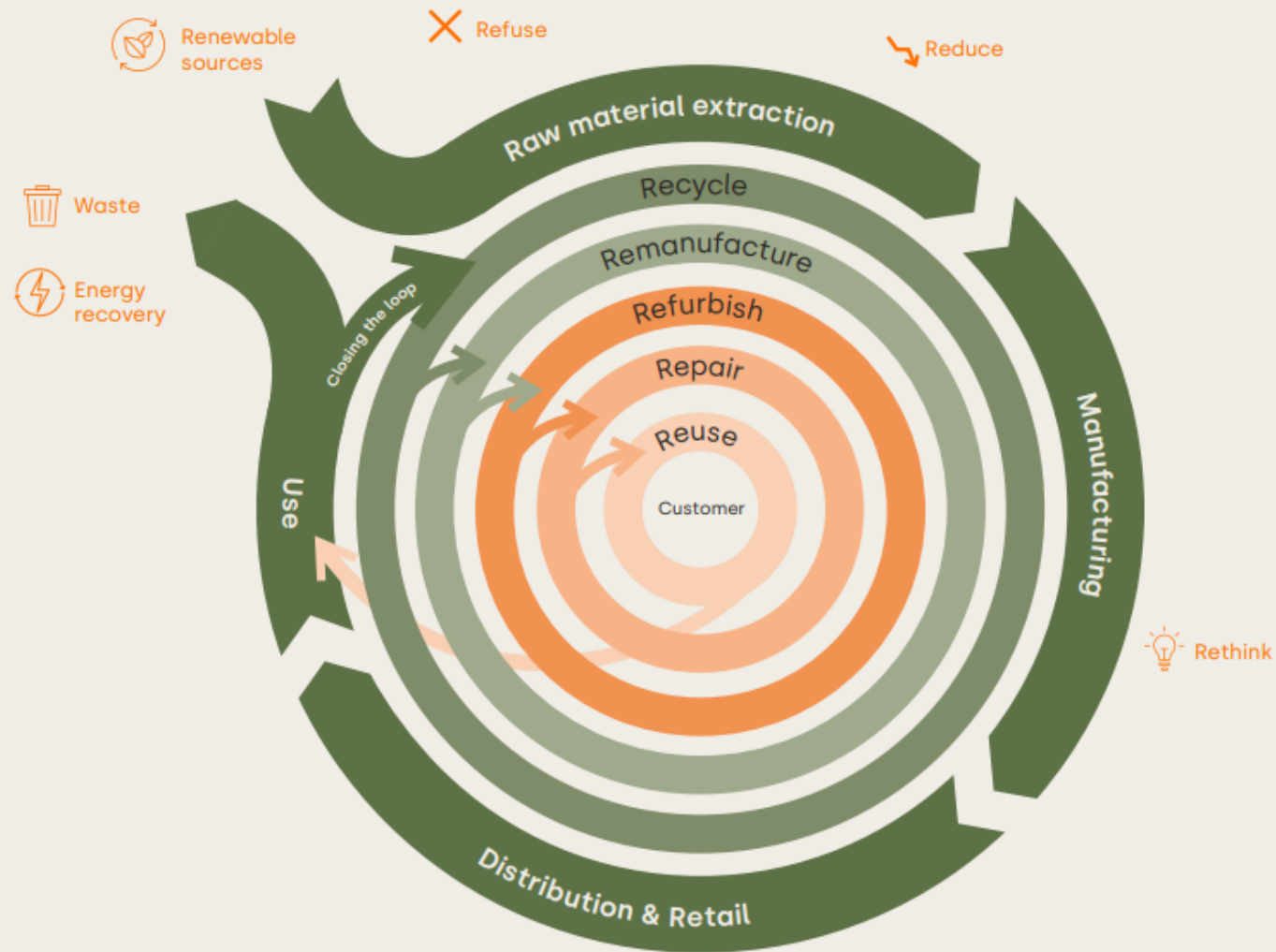
Sector guidance – Electronic devices

Developed through close consultation with leading companies in the sector and facilitated by the Circular Electronics Partnership (CEP). It empowers value chain stakeholders to:

- Define **circularity roadmaps** and **measure progress** based on credible quantitative baselines;
- Drive **strategic decision-making** based on the **benefits and trade-offs** of different circularity strategies;
- Provide a clear **view of sustainability impacts** – whether on climate or nature – and underscoring the tangible outcomes of circularity initiatives;
- Promote **accountability and transparency** with a foundation in quantitative measures.



Transitioning towards a circular electronics value chain



Source: [Circular Transition Indicators for Electronic Devices](#)

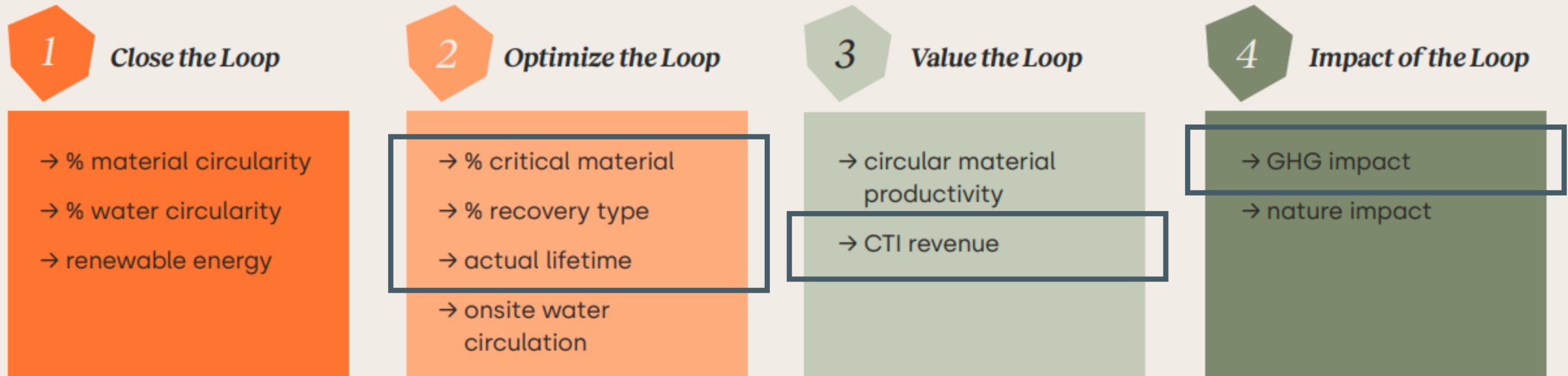
CTI assessment levels – Electronics value chain

Material	Component	Product	Business unit	Company
<ul style="list-style-type: none"> → Metals such as lithium, cobalt, nickel, copper, aluminum and gold → Plastics → Glass → Silicon 	<ul style="list-style-type: none"> → Semiconductors → Circuit boards → Cables and wires → Other product parts, such as screens, keyboards, mice 	<ul style="list-style-type: none"> → Batteries → Laptops → Tablets → Phones → Routers → Cameras → Smart home devices → Chargers → Printers → Other consumer electronics or IT equipment 	<ul style="list-style-type: none"> → B2B → B2C → Technology → Manufacturing and production → After-sales services and repair → Take back operations → Closing the loop: preparation for reuse → Single subsidiary → Single business unit producing one product category 	<ul style="list-style-type: none"> → Aggregated company level covering all business units → Aggregated group level covering all subsidiaries

Source: [Circular Transition Indicators for Electronic Devices](#)

Circular Transition Indicators (CTI)

Sector guidance – Electronic devices



Formulas and definitions for all indicators are available in the report: [Circular Transition Indicators \(CTI\) v4.0](#) and [Circular Transition Indicators for Electronic Devices](#)

Thank *You*

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