



# Circularity Indicators \_ The Advisor

Target the Right C-Indicators  
Unlock the C-Potential of your Products



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## The Circularity Potential Indicator (CPI) Tool (beta version)

The CPI aims at evaluating the circularity potential of industrial products during: (re-)design, development or benchmarking phases. The CPI provides practical keys for improving and monitoring the circularity performance of products and associated business practices. The CPI is computed through a guided questionnaire of twenty attributes (ATT#) impacting the circular economy (CE) performance of a product.

The twenty attributes are based on a literature review and grouped in the four building blocks (BB#) of the CE defined by the Ellen MacArthur Foundation.

Circularity Performance Indicator <i>Unlock the Circularity Potential of your Product</i>		Circularity Score of the Product = (out of 100)	0.00
BB#1 - Circular Product Design (sub-score / 25)			0.00
ATT#1 - Materials selection and combination compatibility (sub-score / 5)			0.00
Number of different materials	Select Answer <input type="button" value="v"/>		
Technical recyclability of materials combination	Select Answer <input type="button" value="v"/>		
Material contamination (coating, paints, and material mixing)	Select Answer <input type="button" value="v"/>		
ATT#2 - Modular product design, adaptability and flexibility			0.00
Is the product contained standardised components	Select Answer <input type="button" value="v"/>		
Has the product being design with a modular mindset	Select Answer <input type="button" value="v"/>		
ATT#3 - Design for disassembly and easy end-of-life sorting			0.00
Handling and manoeuvrability of the product (for a single user)	Select Answer <input type="button" value="v"/>		
Number of different distinct components (regarding the size of the product)	Select Answer <input type="button" value="v"/>		
Joints and connections numbers (regarding the size and number of components)	Select Answer <input type="button" value="v"/>		
Joints and connections types	Select Answer <input type="button" value="v"/>		
Joints and connections accessibility	Select Answer <input type="button" value="v"/>		
Disassembly cost and time (regarding value of the product)	Select Answer <input type="button" value="v"/>		
Tools required for disassembly	Select Answer <input type="button" value="v"/>		
ATT#4 - Design for upgradability			0.00
Possible options of upgradability	Select Answer <input type="button" value="v"/>		
ATT#5 - Design for maintainability and longevity			0.00
Wear and tear indicator or information	Select Answer <input type="button" value="v"/>		
Possibility of maintenance and repair	Select Answer <input type="button" value="v"/>		
Accessibility, visibility, reachability and identifiability of key components	Select Answer <input type="button" value="v"/>		
BB#2 - New Business Model			0.00
ATT#6 - Design for PSS & Product-as-a-Service			0.00
Is the manufacturer currently retain ownership of the product	Select Answer <input type="button" value="v"/>		
ATT#7 - Leasing or rental schemes			0.00
Leasing or rental offers for the product	Select Answer <input type="button" value="v"/>		
ATT#8 - Aftersales services - Customized services related to the product			0.00
Number of services (among diagnosis, preventive maintenance, repair service, warranty)	Select Answer <input type="button" value="v"/>		

ATT#9 - Take-back offers		0.00
Take-back schemes	Select Answer	
ATT#10 - Partnership networks, Sharing platform or Industrial Symbiosis		0.00
Is there any other forms of collaboration between manufacturers, retailers, customers	Select Answer	
BB#3 - Reverse Cycles		0.00
ATT#11 - Traceability of products and components all along lifecycle		0.00
Is the product included any form of connectivity allowing tracking or traceability	Select Answer	
Is there any information-sharing system or database between stakeholders all along value chain	Select Answer	
ATT#12 - Efficiency and cost of take-back processes		0.00
Organisation of the take-back process	Select Answer	
Profitability (cost to return product to facilities compared to product value)	Select Answer	
ATT#13 - Collection infrastructures and mechanisms		0.00
Collection infrastructures (sorting and other mechanisms)	Select Answer	
ATT#14 - Treatment facilities (remanufacturing and recycling) features		0.00
Treatment facilities taking up end-of-life operations	Select Answer	
Remanufacturing or recycling costs (compared to original components, primary materials value)	Select Answer	
Facilities capacity regarding amount of products	Select Answer	
Technical documentation for end-of-life handling (e.g. dismantling instructions) available	Select Answer	
ATT#15 - Collaboration between actors involved in EoL value chain		0.00
Is there any consortium, mutual or shared interest among actors to a closed-loop supply chain	Select Answer	
BB#4 - Favourable System Conditions		0.00
ATT#16 - Product conditions at the end-of-life (residual value)		0.00
Value degradation of material for recycling	Select Answer	
Physical deterioration of component for reuse or remanufacturing	Select Answer	
Quality and reliability of recycled materials or remanufactured products	Select Answer	
ATT#17 - Stakeholders' willingness, behaviours and motivations		0.00
Rethinking incentives and pro-active attitude from companies to enhance the circular economy	Select Answer	
Users' awareness of environmental issues, sustainability and circularity	Select Answer	
Users' emotional links to the product	Select Answer	
Communication to users on possibilities of reuse, recycle or dispose properly their products	Select Answer	
ATT#18 - Policy framework		0.00
Waste legislation concerning the product	Select Answer	
Mandatory percentage of reuse or recycling imposed	Select Answer	
Is the product concerned by EPR (Extended Producer Responsibility)	Select Answer	
Mandatory ecodesign standard for reuse and repair	Select Answer	
ATT#19 - Second-hand market characteristics		0.00
Presence of second-hand market for the product	Select Answer	
Market demand for remanufacturing products	Select Answer	
Markets for secondary raw materials of the product	Select Answer	
Availability of spare parts of the product	Select Answer	
ATT#20 - Financial incentives and mechanisms supporting CE approaches		0.00
Is there any financial support, by government or environmental agencies, to foster CE incentives for the product	Select Answer	