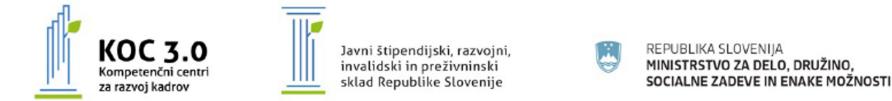
February 2021



Overview of Circularity Assessment Tools

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This event is co-financed by the Ministry of Labour, Family, Social Affairs and Equal Opportunities and the European Union through the European Social Fund.



What are most circularity assessment tools for?

> Introduction to the circular economy

> Familiarisation with the key elements of circularity

Analysis of status quo

Presentation of opportunities

Basis for further targeted recommendations

> Potential basis for future company targets (especially more advanced tools)



Measuring or assessing circularity?

MEASURING	ASSESSING
'Determining how big, how long or how wide something is.'	'Having an opinion about something.'
Quantitative	Qualitative
Clear yardstick	Judgement-based, no clear yardstick
Objective	Partly subjective

Source: Van Oppen Cécile, Croon G., Bijl de Vroe D. (2018). Circular Procurement in 8 Steps. First edition, Copper, 2018.



An overview of circularity assessments (non-exhaustive)

Greencycle Questionnaire of Best CE Practices

- Circularity Check
- ➤ Circulytics
- Circular Economy Toolkit
- Readiness Assessment Tool for the Circular Economy of MATChE
- ➤ Circular IQ



An overview of circularity assessments (non-exhaustive)

Circular Economy Standard (Intesa Sanpaolo)

≻ ING

- European Investment Bank
- Circularity Assessment Score (CAS)
- Related assessments:
 - ➢ Resource efficiency (e.g. <u>Self-Assessment Tool</u> by EREK)
 - Life cycle assessments (e.g. Fraunhofer Institute)
 - Sustainability assessments
 - Environmental assessments
 - ➤ ESG score
 - ➢ For specific industries

Greencycle Questionnaire of Best CE Practices



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- Identification of existing local CE practices
- Practice must fall in at least one of the following categories: circular product design & innovation; product reuse, repair & remanufacturing; innovative business models; materials substitution; effective supply chain & cross-sectoral collaboration; reuse of waste, heat & energy
- Minimum criteria to initiate assessment: effectiveness; efficiency; relevance; sustainability; possibility of duplication; involvement of partnerships; community involvement; political commitment

DOCUMENTING BEST CE PRACTICES

When the validation process is over and all of the above obligatory criteria for the best CE practice are met, a practice can be documented. The documentation of the practice consists out of basic descriptions and other relevant information that clearly presents a practice as the best CE practice (Table 3).

Table 3: documenting the best CE practi	ce
Basic information	
Title of the "Best Practice"	
Category (area of action):	
Name of the organization:	
Best practice contact person:	E: P:
URL of the best practice:	
Best practice address:	
Description of the best CE practice	
Introduction - should provide the context and justification for the practice and describe (a) the prablem addressed by the practice, (b) how the prablem addressed by the practice, and what are the benefits of the practice, (b) who is being diffective with the practice and how, (d) what abjectives have already been achieved and how - Implementation of the practice - should clerrly provide a description of the main activities carried out (dlaw when and	
where they were carried out), who are the key implementers or inputs needed, what were the resource implications -	
Results of the Practice	
the outputs and outcomes -	
Lessons Learnt - should clearly present the positive and negative aspects of the practice implementation/operational process (what works and what not and why).	
Conclusion - should clearly state the practice relevance to the project GreenCycle with the presentation of wider benefit of the practice and potential recommendations	

Greencycle Questionnaire of Best CE Practices (2)



- Documentation:
 - Context: the problem, how the practice affects the region, benefits
 - Implementation: what are the actions, who are the implementers
 - Results
 - Lessons learned: what works, what doesn't, why?
 - Conclusions: wider benefits & recommendations

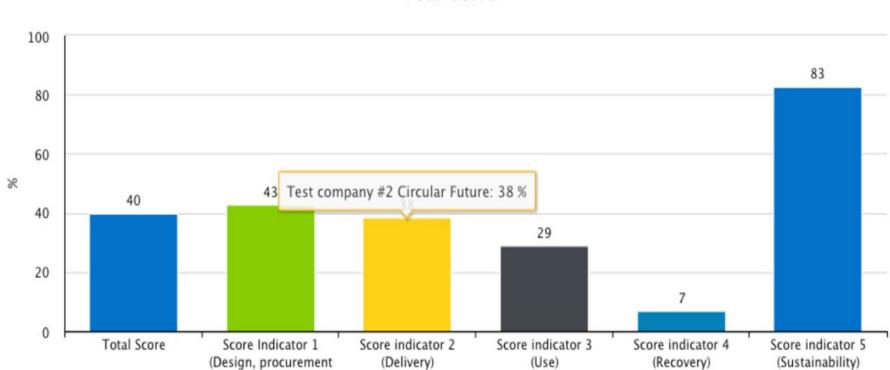
➤ <u>Relevance</u>:

- > Identifying best CE practices in the region can serve as an inspiration
- > Identifying circular frontrunners, i.e. the implementers, can help building a CE network
- Lessons learned are valuable information to newcomers









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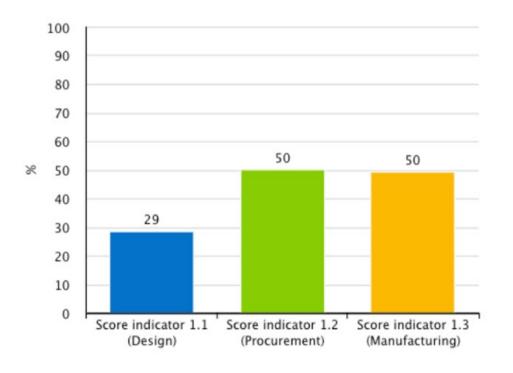
Total score



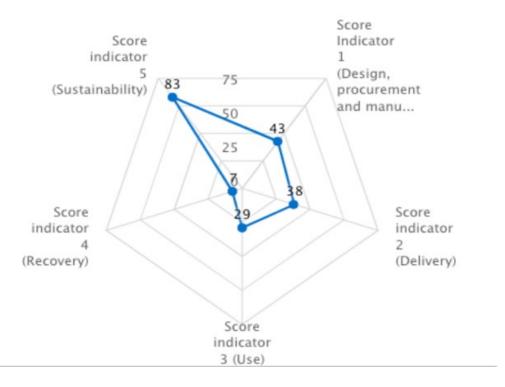




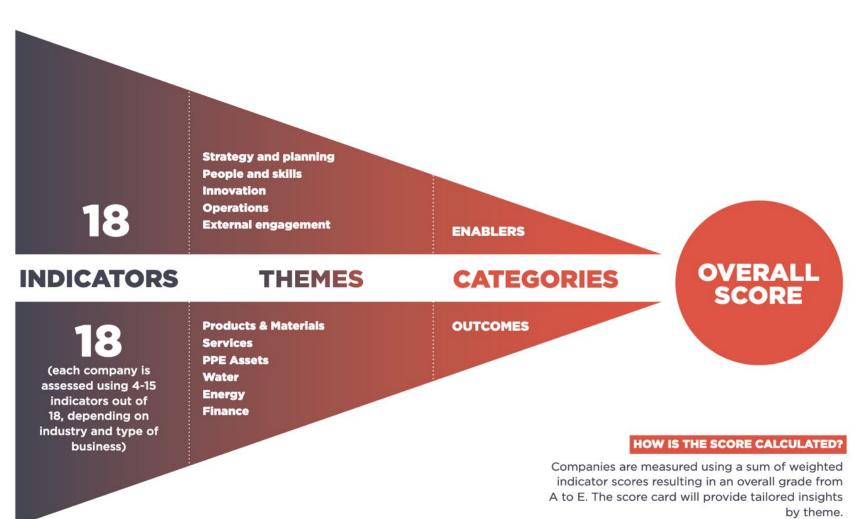
Design, procurement and production



Total score

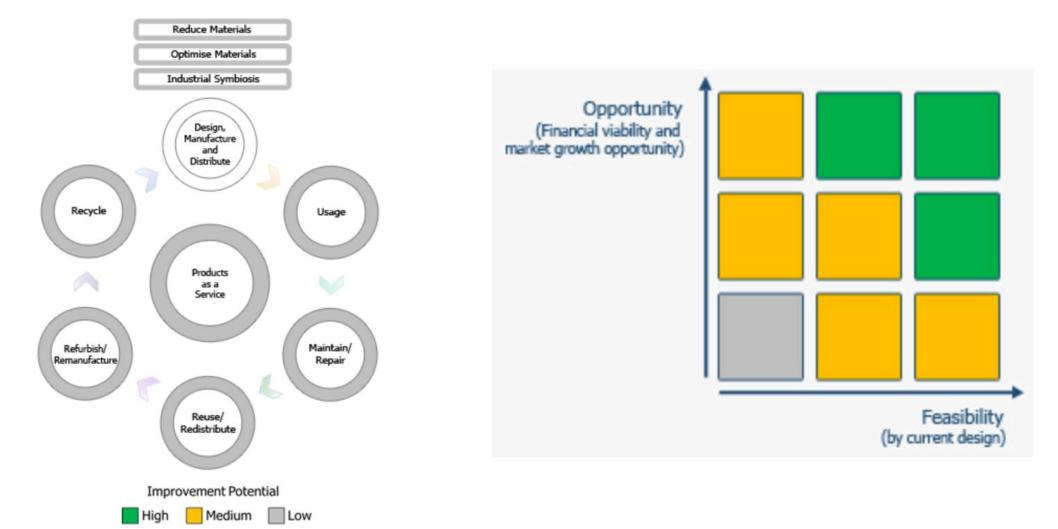








Circular Economy Toolkit



Readiness Assessment Tool for the Circular Economy of MATChE



- Readiness assessment along 8 key dimensions:
 - Organisation: internal business capabilities, change management knowledge and skills
 - Strategy and business model innovation
 - Product and service innovation
 - Manufacturing and value chain
 - Use, share and data
 - Support and maintenance
 - Take-back and end-of-use
 - Policy and market

Readiness Assessment Tool for the Circular Economy of MATChE (2)



- Results:
 - Readiness profile
 - Internal benchmarking: which parts of the company are doing better
 - External benchmarking: comparison with other anonymous companies

Circular IQ





Powered by KPMG, Circle Economy and MVO NL



Circular IQ (2)

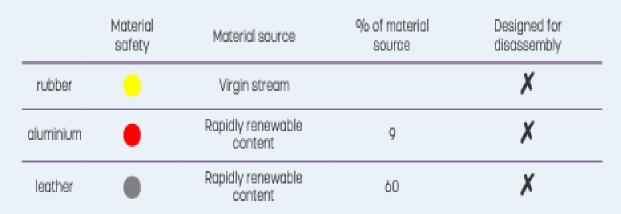


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PRODUCT CIRCULARITY BREAKDOWN



Material has been assessed by an independent third party, using supplier declarations and an assessment report.

Material is free of substances that are on the C2C Banned List Substances, taking into account accepted thresholds. Information based on supplier declaration

Material is free of substances that are an REACH Banned List Substances, taking into account accepted thresholds. Information based on supplier declaration

Material contains C2C Banned list substances, or substances on REACH above accepted thresholds.

Material component safety unknown and/or absence of supplier declaration

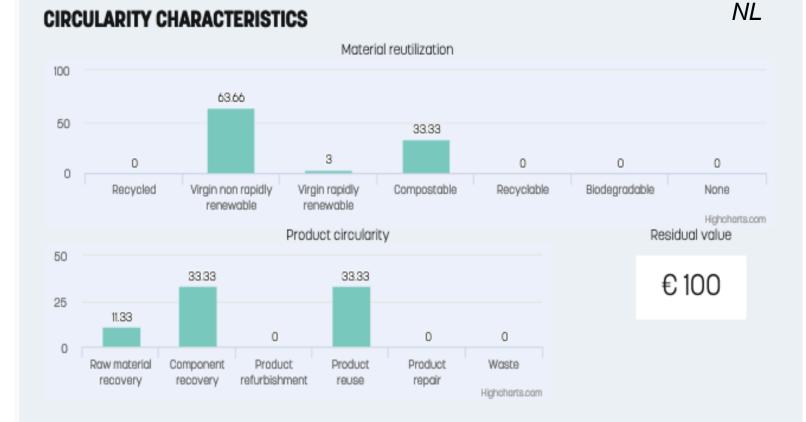
This Product Circularity report provides an overview of the key circularity characteristics of this product. These characteristics are based on authorized information from company and its supply chain partners. It shows insights in key circularity supply chain information and provides transparency. For questions visit http://www.circularig.com/circularity

Circular IQ (3)





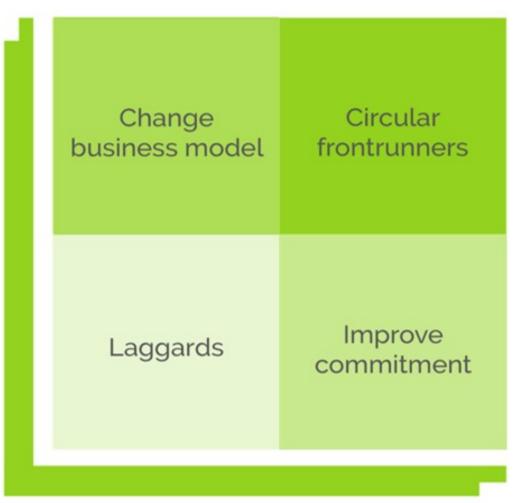
Powered by KPMG, Circle Economy and MVO





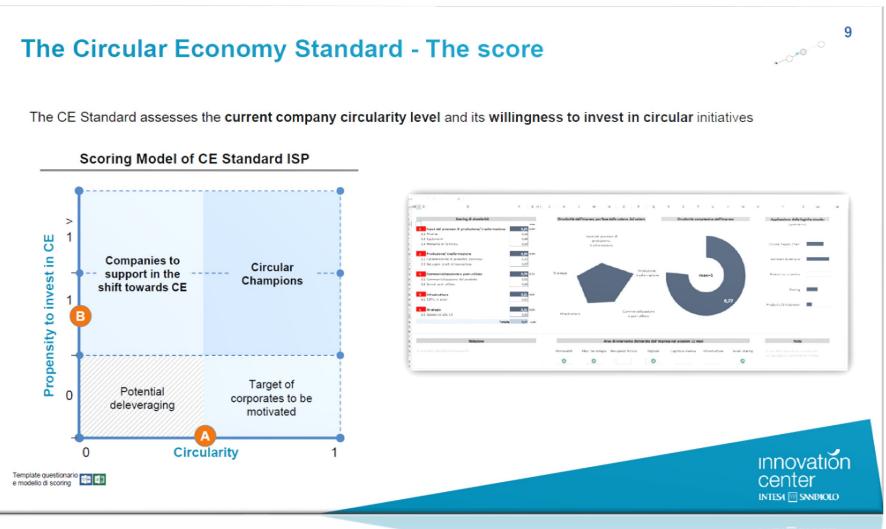
Circularity Assessment Score (CAS)

Commitment to circular transformation



Business model potential

Circular Economy Standard by Intesa Sanpaolo





Self-Assessment Tool

ypes	Current prototype: Hotels and restaurants
:e	
eetse	
A.	
	Food waste X
d	
sing	How do you manage your food waste?
	We introduced several measures to minimize waste of food and drinks.
1 •	We have introduced some measures to reduce waste of food and drinks, but we want to do more.
20	
and	Cancel Confirm
cs	
sing	
s and	
ring	
and rking	
NIN'Y	
	B Reset my results



	Mot	oility	×
Do you pro	vide bicycle rental and	support e-mobility for your	guests?
• Yes, we provide:			
bicycle rental			
support e-mobility			
No, we do not provide a	ny of these services		
	Cancel	Confirm	

	Cleanin	g agents	\times
Do you consid	er environmental asp	ects when choosing c	leaning agents?
Yes, we use en	vironmentally friendly	detergents and cleani	ng methods only.
O We try to avoid	d most damaging prod	ucts in our cleaning p	rocesses.
O We do not pay	attention to the dama	iging effects of our cle	aning products.
	Cancel	Confirm	





Comparison of tools

ΤοοΙ	Author / publisher	Aim	Focus	Pros	Cons
Greencycle	Interreg Alpine Space	For regions to identify circular frontrunners, but could also help SMEs	Best practices	Serves as a first idea and overview of circular practices, no detailed information needed	No graphs or visuals as a result, very general
Circularity Check	Ecopreneur , MVO Nederland, WeSustain	For SMEs, as well as bigger companies, investors, procurement officers, subsidy scheme officers to assess the circularity of the company's products	Products and services (life cycle approach), strategic, systemic	Good simple overview with five indicators that can be examined in detail	Extensive questionnaire (60 questions)



Comparison of tools (2)

ΤοοΙ	Author / publisher	Aim	Focus	Pros	Cons
Circulytics	Ellen MacArthur Foundation	Supports a company's transition towards the CE, aimed towards bigger companies	Company level, entire operations	Simple structure, but detailed information, access to a vast amount of resources supporting the tool, such as videos	Big effort to fill in this extensive questionnaire, some questions are very relative and hard to answer
CE Toolkit	Circular Economy Toolkit	For companies to understand opportunities in the CE	Products and services	Includes an introduction and case studies	Doesn't consider difficulties in tackling change, doesn't consider the customer
MATChE	MATChE, C-Voucher	For companies to understand their CE and internal readiness to change	8 dimensions (see slides)	Readiness profile (including capabilities) and recommendations	Time-consuming and rather complex, no overall score



Comparison of tools (3)

ΤοοΙ	Author / publisher	Aim	Focus	Pros	Cons
Circular IQ	Circular IQ, European Commission, powered by KPMG, Circle Economy and MVO NL	For companies to understand circularity in their supply chain	Products, materials	Detailed analysis of products including the supply chain	Does not include other aspects of circularity in the company, not suited for services
Circularity Assessment Score (CAS)	Giacomelli media, Circular Business Academy	For SMEs and larger companies, as well as for banks and investors	Business model	Result is simple and easy to understand (matrix), concise questionnaire	Difficult to perceive potential of business potential



Comparison of tools (4)

ΤοοΙ	Author / publisher	Aim	Focus	Pros	Cons
Self-Assessment Tool	EREK	For SMEs to explore the CE and understand their status quo	Resource efficiency (mostly energy) in daily operations	Visualisation, entertaining, no need to finish in one session	No connection to the product / service the company offers, in- depth knowledge of resource use needed



Conclusions

> Target of most assessments:

≻ SMEs

➢ No or little experience in CE, but interest

≻ Focus of most assessments:

Products (life cycle) and services

Struggle between many complex questions to provide in-depth report and user friendliness to make it accessible for SMEs without CE experience

➤ Measurement vs. assessment

> All tools need more submissions to improve and increase their relevance



Relevant links

- <u>https://www.alpine-space.eu/projects/greencycle/deliverables/d.t.1.2.2_guidelines-for-identification-of-existing-local-ce-practices.pdf</u>
- <u>https://ecopreneur.eu/circularity-check-landing-page/</u>
- <u>https://ellenmacarthurfoundation.wufoo.com/forms/circulytics-application/</u>
- <u>https://www.ellenmacarthurfoundation.org/assets/downloads/Circulytics-question-indicator-list.pdf</u>
- <u>http://circulareconomytoolkit.org/Assessmenttool.html</u>
- <u>https://c-voucher.com/circularity-marketplace/online-tools/</u>
- <u>https://ec.europa.eu/environment/ecoap/scalingcircularbusiness/solution/circular-iq_en</u>
- <u>https://www.resourceefficient.eu/tools#/?image=demo</u>
- <u>https://group.intesasanpaolo.com/en/sustainability/environment/green-products/support-to-circular-economy</u>
- <u>https://www.circularbusiness.academy/circularity-assessment-score/</u>