



**ENHANCE**  
Interreg Europe



European Union  
European Regional  
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# 1<sup>st</sup> Dissemination Event

## Debate and assessment

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New incentives and more regulatory flexibility for EMAS Organizations  
More cooperation beyond participating regions  
More visibility to EMAS as a driver of Circular Economy



**EMAS**



Generalitat de Catalunya  
**Departament de Territori  
i Sostenibilitat**

# New proposals

# Nuevos incentivos



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**DATOS OPCIONALES**

EMAIL: \_\_\_\_\_; NOMBRE: \_\_\_\_\_

ORGANIZACIÓN: \_\_\_\_\_

Escribe aquí tu propuesta o idea para apoyar mejor a las organizaciones registradas EMAS o para impulsar la divulgación del Reglamento Europeo EMAS como herramienta para la Economía Circular.

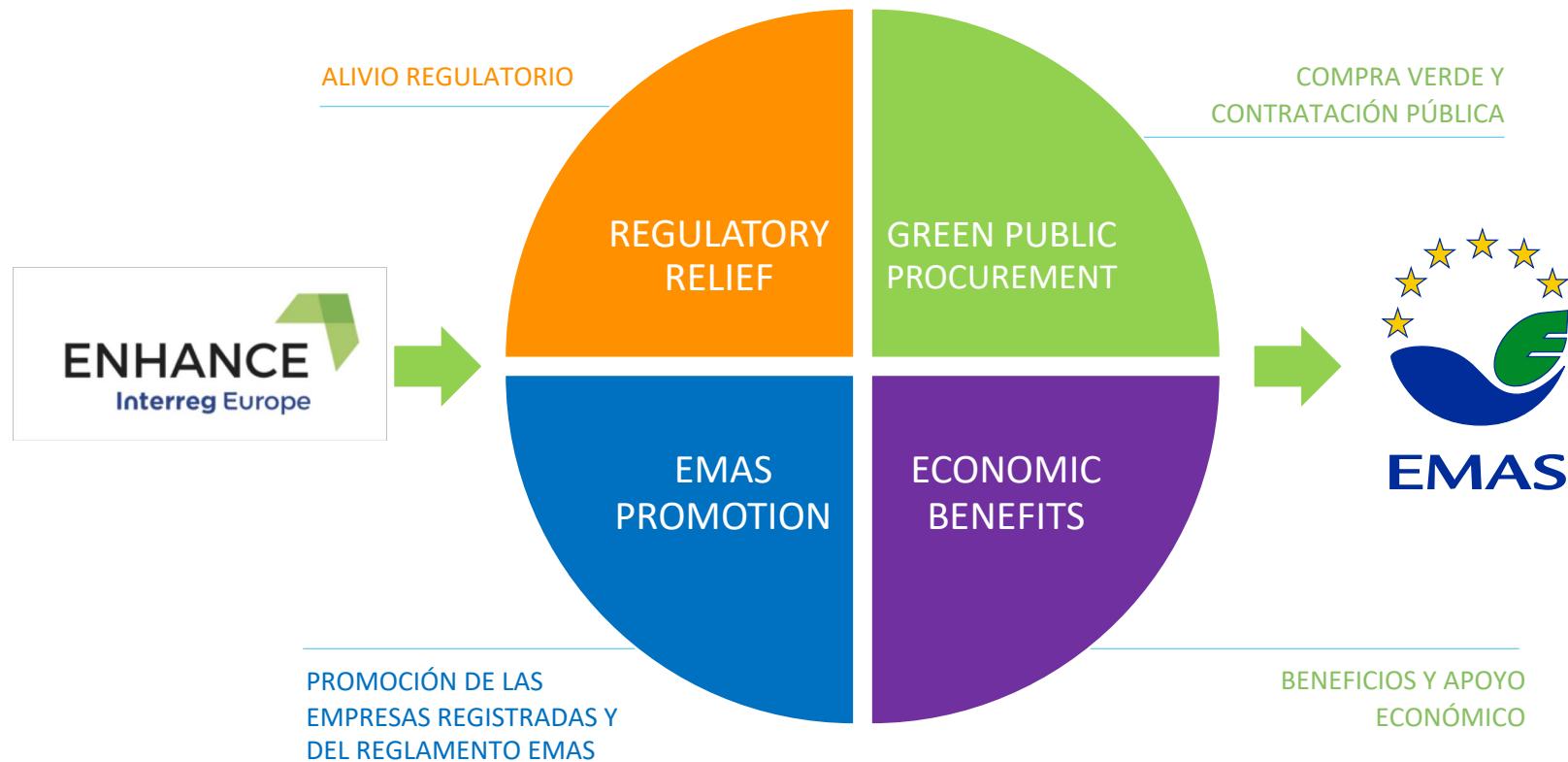
**NUEVA PROPUESTA:**

**PROMOCIÓN EMAS**  **ECONOMÍA CIRCULAR**

Gracias por tu colaboración.

DESEO QUE MI PROPUESTA SEA VOTADA EN EL WORKSHOP: SÍ  NO  DESEO RECIBIR INFO. SOBRE SU POSIBLE IMPLEMENTACIÓN: SÍ  NO

# Incentives and regulatory flexibility for EMAS organizations



PERMITS & AUTHORIZATIONS <b>FAST-TRACK</b>	MONITORING & REPORTING REDUCTION	PERMITS'S VALIDITY EXTENSION	INSPECTION FREQUENCY REDUCTION	GREEN PUBLIC PROCUREMENT
AGILIZACIÓN Y SIMPLIFICACIÓN DE PERMISOS Y AUTORIZACIONES ADMINISTRATIVAS	REDUCCIÓN DE LA CARGA DE CONTROL AMBIENTAL Y DEL REPORTING ADMINISTRATIVO	EXTENSIÓN DE LA VALIDEZ DE PERMISOS Y AUTORIZACIONES	REDUCCIÓN DE LAS FRECUENCIAS DE INSPECCIÓN AMBIENTAL	ESTABLECIMIENTO DE CRITERIOS AMBIENTALES EN LA COMPRA Y CONTRATACIÓN PÚBLICAS
ADMINISTRATIVE FEES REDUCTION	<b>TAX BREAKS</b>	FINANCIAL <b>GUARANTIES</b> REDUCTION	FUNDING SUPPORT CREDIT ACCESS	EMAS PROMOTION
REDUCCIÓN DEL IMPORTE DE TASAS ADMINISTRATIVAS POR GESTIÓN O SERVICIOS PÚBLICOS	EXENCIONES Y DESGRAVACIONES FISCALES Y OTROS BENEFICIOS ECONÓMICOS	REDUCCIÓN DEL IMPORTE DE AVALES Y OTRAS GARANTÍAS FINANCIERAS	AYUDAS ECONÓMICAS Y FINANCIERAS	ACCIONES Y HERRAMIENTAS DE COMUNICACIÓN, DIVULGACIÓN Y APOYO A LAS ORGANIZACIONES

# Regulatory relief



## FAST-TRACK

SIMPLIFICATION IN THE APPLICATION OF  
PERMITS & AUTHORIZATIONS

### Environmental Impact Assessment. Thresholds (EAA)

The administrative proceeding for the Environmental Integrated Authorization permit is shortened at 100 days for EMAS registered companies and at 130 days for ISO 14001 certified companies. (SSUP)

Review of Environmental Authorization and License: for EMAS registered activities, the periodic review may coincide with the renewal of the EMAS Register, with the document for environmental control exemption. (MTS)

EMAS & ISO14001 are approved management systems to fulfill the energy audit report obligation (EAA&SEI)

## MONITORING & REPORTING REDUCTION

EMAS registered companies are not obliged to deliver a waste management concept if they are publishing an environmental statement (EAA)

Reduction of reporting obligations of environmental data to authorities, if all requirements are fulfilled within the environmental management system (EAA)

Companies with ISO 50001 or ISO 14001 (that includes energy audit) are exempt from the obligation to carry out energy audit every 4 years.(CENIA)

Exemption of periodic Review of Activity permit (MTS)

## PERMITS VALIDITY EXTENSION

Extension of the validity of the authorization released to waste treatment plants for dismissed vehicles (8 years instead of 5 years) (SSUP)

Exemption of periodic control for EMAS registered organizations (IPPC – I, II.1) (MTS)

The maximum time limits for granting may be extended for an activity in the aquaculture sector (MTS)

## INSPECTION FREQUENCY REDUCTION

Reduced frequency of the environmental inspections (CENIA) - EAA - MTS

# Economic benefits and support

ADMINISTRATIVE FEES REDUCTION	TAX BREAKS	FINANCIAL GUARANTIES REDUCTION	FUNDING SUPPORT CREDIT ACCESS
<p><b>Bonuses for activities with EMAS (MTS)</b></p>	<p><b>Reduction in tax base and investment discounts (CENIA)</b></p> <p><b>SEI</b></p> <p><b>Tax benefits (MTS) (Fiscal benefits)</b></p>	<p><b>Waste treatment activities (MTS)</b></p> <p><b>Circular Economy funding programs (MTS)</b></p> <p><b>SEI</b></p>	<p><b>Funding for improving resource efficiency in SMEs (CENIA)</b></p> <p><b>RGA</b></p>

# Green procurement

## GREEN PUBLIC PROCUREMENT

CENIA / SSUP / RGA / MTS / EEA:

Construction Sector  
Waste management Sector  
Maintenance Sector  
Other sectors

# EMAS promotion

## EMAS PROMOTION · BY PUBLIC BODIES

Spreading of the Guideline for EMAS implementation in health sector (RGA)

Launching of an EMAS Club (RGA)

Information and dissemination activities (RGA)

Training of Public Authorities (EAA)

Promotion of EMAS through other voluntary environmental behavior systems or awareness, information and communication tools

By EMAS REGISTERED ORGs.

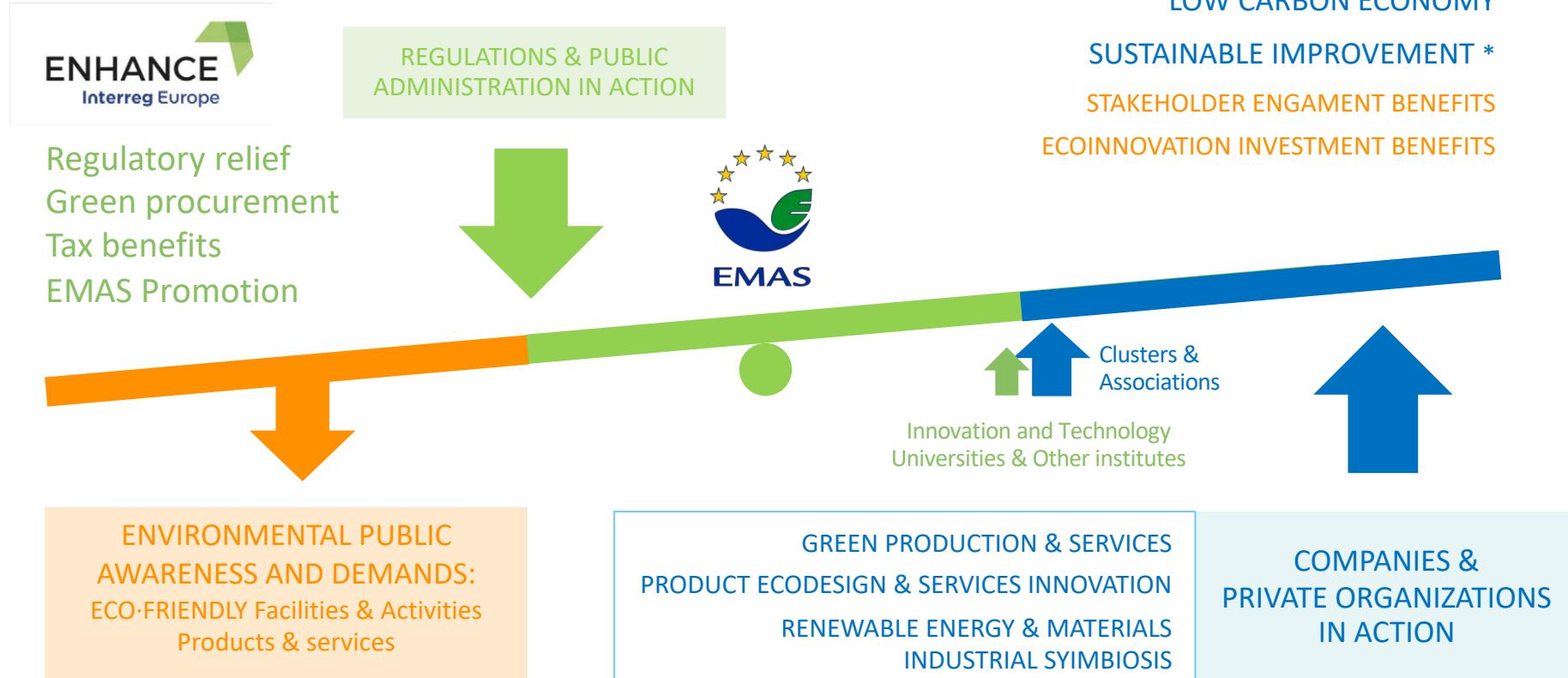


BY EMAS REGISTERED ORGs.



# What can EMAS do to....

...make a real commitment to... **CIRCULAR ECONOMY**





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# Voting on proposals

**menti.com**

**Code: 32 64 25**

# EMAS and CIRCULAR ECONOMY

How to integrate it into the management system scheme?

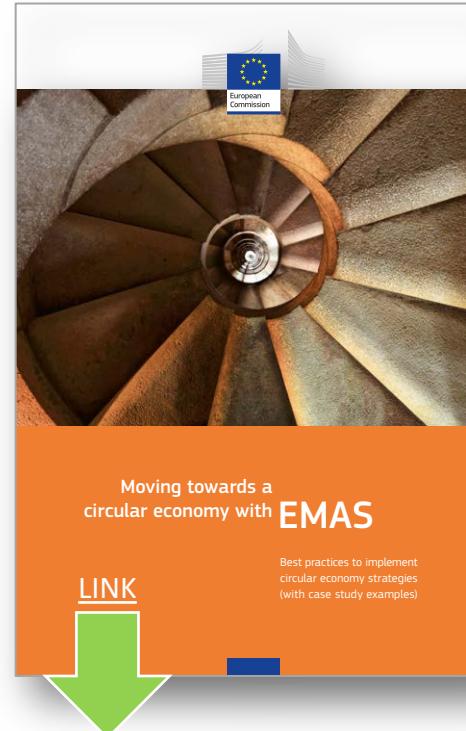


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EMAS is meant to be the worldwide premium environmental management instrument. A hallmark of an successful organization. EMAS seeks to be the most credible environmental management tool.

We'll debate on how to integrate Circular Economy in EMAS registered companies.

Pablo Chamorro  
Ecomundis



# Some facts...

Desde 1971, consumimos más recursos y producimos más residuos que la biocapacidad del planeta de asimilarlos. La economía circular puede ser parte de un plan de la EU, pero es realmente una necesidad vital de supervivencia de nuestro modo de vida. Es la única solución a la sostenibilidad del planeta y debemos conseguir integrarla en el modelo económico de forma que sea rentable y genere ocupación.

*La humanidad está consumiendo una cantidad de recursos naturales equivalente a 1,6 planetas. De seguir así, en 2020 se necesitarían 1,75 planetas, y 2,5 planetas en 2050.*

Según los datos oficiales de Global Footprint Network, en España necesitamos en 2017 **TRES VECES** los recursos disponibles dentro de nuestro territorio (3,7 hectáreas) por persona.



## CRITICAL RAW MATERIALS:

EU consumes 25% of world's CRM demand

[https://ec.europa.eu/growth/sectors/raw-materials/specific-interest/critical\\_en](https://ec.europa.eu/growth/sectors/raw-materials/specific-interest/critical_en)



## Some videos...

Oportunidades en ECONOMÍA CIRCULAR (ES-2min)

DIRECTIVOS CEDE [https://youtu.be/Lh31gRE\\_OVI](https://youtu.be/Lh31gRE_OVI)



How to become a Green SME in a Circular Economy (EN-15min)

EUROPEAN UNION <https://youtu.be/V1Tszs48xCI>



Circular Economy... it's the way forward (EN-5min)

EUROPEAN UNION [https://youtu.be/lK00v\\_tzkCI](https://youtu.be/lK00v_tzkCI)

Economía circular, la nueva economía | Internacional (ES-4min)

EL PAÍS. <https://youtu.be/oI-2PVhwCLU>

Moving towards a circular economy 2014 (EN-10min)

European Union. [https://youtu.be/URLP6a6a\\_wA](https://youtu.be/URLP6a6a_wA)

Economía Circular: “descubre lo que es antes de que reviente el Planeta”. (ES-15 min)

FUNDACIÓN COTEC. <https://youtu.be/Lc4-2cVKxp0>



# Some videos...



## ECONOMIA CIRCULAR Organizaciones



Explainer: The Circular Economy (ES-1 min)  
UNILEVER. <https://youtu.be/2kzCOW99szU>

Liam – An Innovation Story (ES-1 min)  
APPLE. <https://youtu.be/AYshVbcEmUc>

## EMAS Divulgativos



Crear vínculo entre oportunidades de negocio y desempeño ambiental 2015 (ES 4 min)  
EUROPEAN UNION <https://youtu.be/vCSRXF0cnEo>

## EMAS Redes sociales



TWITTER: @EMAS\_EUEcolabel [https://twitter.com/EMAS\\_EUEcolabel](https://twitter.com/EMAS_EUEcolabel)  
FACEBOOK: @ EMAS & EU Ecolabel <https://www.facebook.com/EMAS.EUEcolabel/>

# Lo primero es lo primero...

How to integrate it into the management system scheme?

## 1. Incorporar la EC a nuestras políticas y compromisos

- *¿Cómo nos afectará la escasez de recursos?*
- *¿De qué tiempo disponemos para reaccionar?*
- *¿Qué beneficios podemos obtener?*

## 2. Introducir la EC en el Plan estratégico y en el modelo de negocio

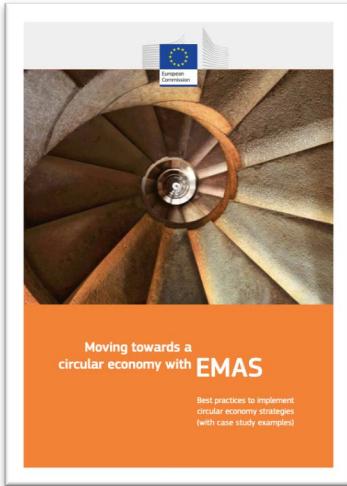
## 3. Establecer un Plan Director/ Proyecto para la EC



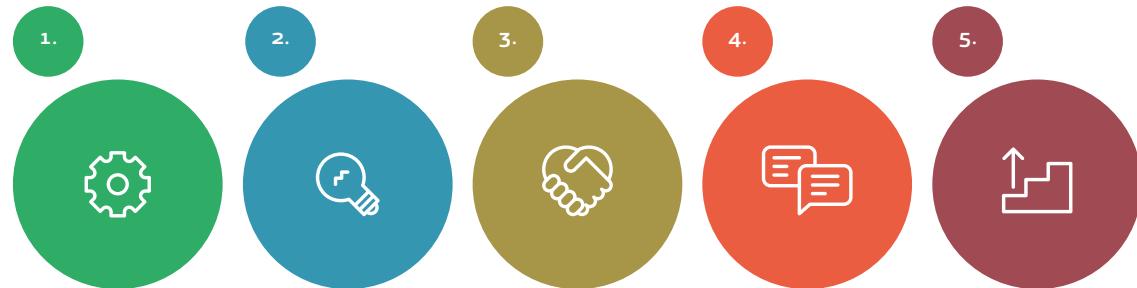
## ¿ Y el Sistema de gestión ambiental ?

¿Herramienta de planificación, medición y seguimiento de la EC ?

¿Herramienta de sensibilización e implicación de los trabajadores ?



[http://ec.europa.eu/environment/emas/pdf/other/report\\_EMAS\\_Circular\\_Economy.pdf](http://ec.europa.eu/environment/emas/pdf/other/report_EMAS_Circular_Economy.pdf)



### Identify potential material loops

Inventory the material flows in your organisation and identify how they can be optimised.

### Consider innovative business models

Understand the users need and consider developing a new business model to satisfy these needs, while creating added value and saving resources.

### Involve employees and other stakeholder

Brainstorm with your employees, establish partnerships with the local community, commit clients, etc.

### Develop a message

Create a narrative for your circular economy strategy to engage more stakeholders.

### Test, learn and improve

Research, benchmark, and design, the measure impacts and collect feedback to improve.

On the journey to a circular economy, a few questions may help an organisation to set ambitious strategies:

Yes	No
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#### Identify potential material loops

- Do I know exactly which resources my organisation is using?
- Can I reduce my resource consumption?
- Can I find ways to make better use of them, through recovery, reuse, refurbishment or recycling? In other words, can I create more material loops in my organisation and beyond?
- Have I considered the entire life cycle of my products or services, to optimise resource and eliminate waste through the whole value chain?
- Can I optimise my resource consumption with other partners?
- Can I make use of other organisations' by-products or waste or trade the ones I have?



#### Consider innovative business models

- Have I identified which service my product or service is providing for its users?
- Could I provide the same service while increasing my resource efficiency, for example through a new business model such as leasing?
- Could I partner with other organisations to test a new business model?
- Is there any support available in my region?



#### Involve employees and other stakeholders

- Have I put in place processes to involve my employees?
- Does my organisation provide the right environment for idea generation?
- Can I involve other stakeholders in my circular economy strategy?



#### Develop a message

- Have I defined my value proposition?
- Can I effectively communicate to my stakeholders how it fits into a circular economy?
- Have I identified innovative ways to share my story with them?



#### Test, learn and improve

- Have I identified new ways to improve my resource efficiency?
- Can I test my ideas in real conditions and with my partners?
- Have I implemented processes to collect feedback?



# .... Otras relaciones

## ISO 14001:2015 y EMAS

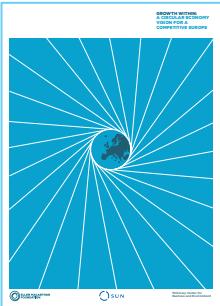
- Revisión inicial. Implementación EMAS
- Análisis del Contexto. Recursos limitados
- Compromiso y liderazgo :  
Plan estratégico y modelo de negocio
- Perspectiva del Ciclo de Vida
- Aspectos ambientales indirectos
- Indicadores básicos y pertinentes (sectoriales)
- Necesidades y expectativas de los Stakeholders hacia nuestra organización y a la inversa....  
Nuestras necesidades y expectativas hacia los stakeholders



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GROWTH WITHIN:  
A CIRCULAR ECONOMY VISION  
FOR A COMPETITIVE EUROPE

## Download



<https://www.ellenmacarthurfoundation.org/publications>

<https://www.ellenmacarthurfoundation.org/es/economia-circular/concepto>

<https://www.circulardesignguide.com>

## RUN A WORKSHOP

with these workshop packages and resources. It's free and easy to get started. [Read more >>](#)

## EXPLORE METHODS

that help you understand, define, make, and release circular innovations. [Read more >>](#)

## READ A STORY

about pioneers in circular design and how they applied the concept to their own innovations.

[Read more >>](#)



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FIGURE 10 THE RESOLVE FRAMEWORK

EXAMPLES	
<b>REGENERATE</b> 	<ul style="list-style-type: none"><li>Shift to renewable energy and materials</li><li>Reclaim, retain, and restore health of ecosystems</li><li>Return recovered biological resources to the biosphere</li></ul>
<b>SHARE</b> 	<ul style="list-style-type: none"><li>Share assets (e.g. cars, rooms, appliances)</li><li>Reuse/secondhand</li><li>Prolong life through maintenance, design for durability, upgradability, etc.</li></ul>
<b>OPTIMISE</b> 	<ul style="list-style-type: none"><li>Increase performance/efficiency of product</li><li>Remove waste in production and supply chain</li><li>Leverage big data, automation, remote sensing and steering</li></ul>
<b>LOOP</b> 	<ul style="list-style-type: none"><li>Remanufacture products or components</li><li>Recycle materials</li><li>Digest anaerobically</li><li>Extract biochemicals from organic waste</li></ul>
<b>VIRTUALISE</b> 	<ul style="list-style-type: none"><li>Books, music, travel, online shopping, autonomous vehicles etc.</li></ul>
<b>EXCHANGE</b> 	<ul style="list-style-type: none"><li>Replace old with advanced non-renewable materials</li><li>Apply new technologies (e.g. 3D printing)</li><li>Choose new product/service (e.g. multimodal transport)</li></ul>

Source: Company interviews; Web search. S. Heck and M. Rogers, *Resource revolution: How to capture the biggest business opportunity in a century*, 2014.





<https://www.ellenmacarthurfoundation.org/resources/apply/circularity-indicators>



## Circularity Indicators

This tool provides a methodology and tools to assess how well a product or company perform in the circular economy with these workshop packages and resources. It's free and easy to get started.

### **Material Circularity Indicator (MCI). Complementary risk and impact indicators for products:**

Examples for complementary risk indicators include **material price variation, material supply chain risks, material scarcity and toxicity**. Complementary impact indicators can include, for example, **energy usage and CO2 emissions**.



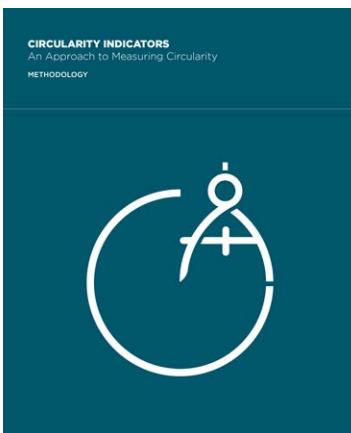
<https://www.ellenmacarthurfoundation.org/resources/apply/circularity-indicators>

## Material Circularity Indicator (MCI).



It assigns a score between 0 and 1 to a product (or company) assessing how restorative or linear the flow of the materials for the product (or the company's products) and how long and intensely the product (or the company's products) is used compared to similar industry-average products.

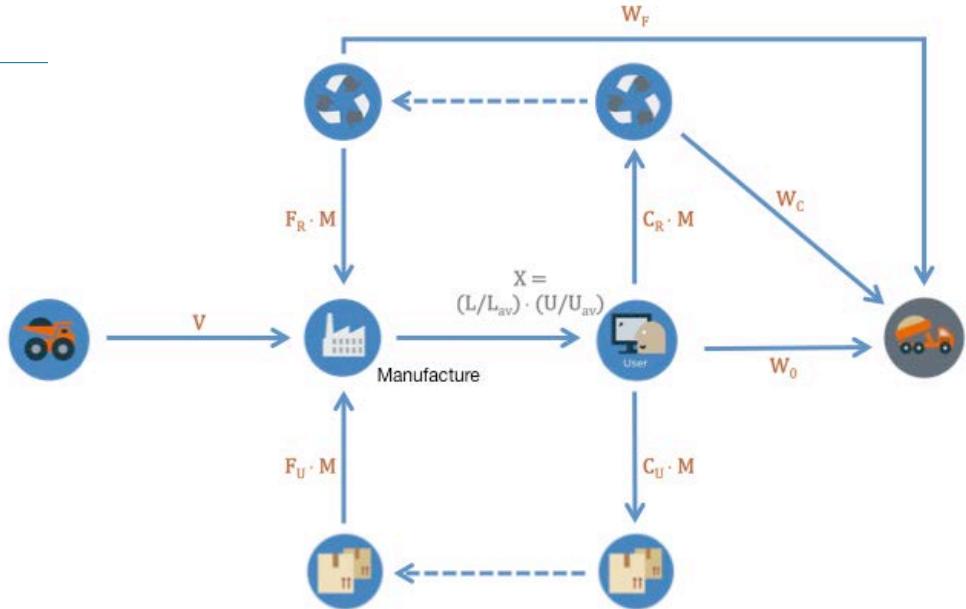
MCI



Should we use an MCI indicator as a Basic EMAS reference?

... INDICADORES DE LOGÍSTICA INVERSA

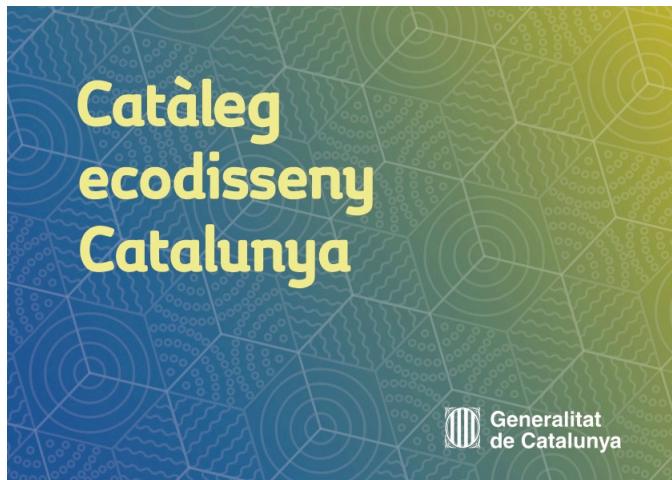
Symbol	Definition
$M$	Mass of a product
$F_R$	Fraction of mass of a product's feedstock from recycled sources
$F_U$	Fraction of mass of a product's feedstock from reused sources
$V$	Mass of virgin feedstock used in a product
$C_R$	Fraction of mass of a product being collected to go into a recycling process
$C_U$	Fraction of mass of a product going into component reuse
$E_C$	Efficiency of the recycling process used for the portion of a product collected for recycling
$E_F$	Efficiency of the recycling process used to produce recycled feedstock for a product
$W$	Mass of unrecoverable waste associated with a product
$W_0$	Mass of unrecoverable waste through a product's material going into landfill, waste to energy and any other type of process where the materials are no longer recoverable
$W_C$	Mass of unrecoverable waste generated in the process of recycling parts of a product
$W_F$	Mass of unrecoverable waste generated when producing recycled feedstock for a product
$LFI$	Linear Flow Index
$F(X)$	Utility factor built as a function of the utility $X$ of a product
$X$	Utility of a product
$L$	Actual average lifetime of a product
$L_{av}$	Actual average lifetime of an industry-average product of the same type
$U$	Actual average number of functional units achieved during the use phase of a product
$U_{av}$	Actual average number of functional units achieved during the use phase of an industry-average product of the same type
$MCI_P$	Material Circularity Indicator of a product
$N_i$	Normalising factor used to aggregate product-level MCIs using a weighted average approach; the index $i$ refers to a specific product range or department
$MCI_c$	Material Circularity Indicator of a company



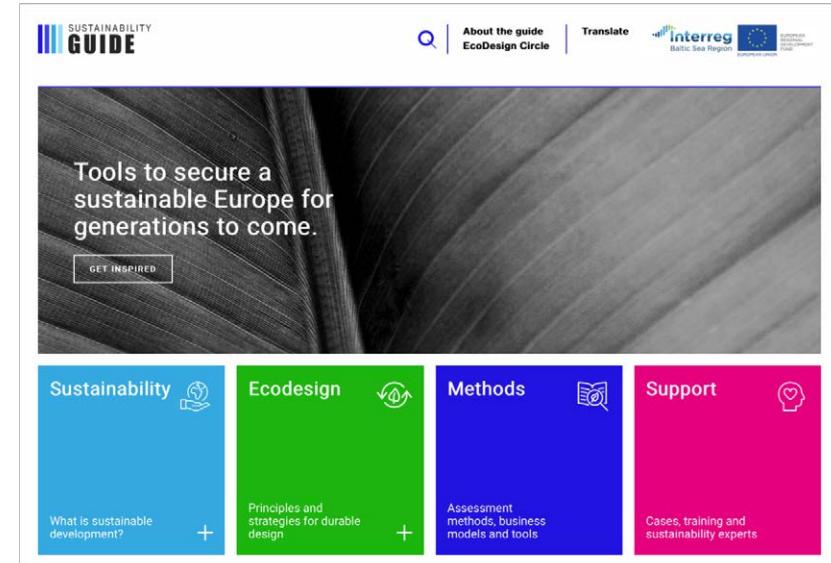
**Figure 3: Diagrammatic representation of material flows**

Any product that is manufactured using only virgin feedstock and ends up in landfill at the end of its use phase can be considered a fully 'linear' product. On the other hand, any product that contains no virgin feedstock, is completely collected for recycling or component reuse, and where the recycling efficiency is 100% can be considered a fully 'circular' product. In practice, most products will sit somewhere between these two extremes and the MCI measures the level of circularity in the range 0 to 1.

- Ejemplos de Ecodiseño



[http://mediambient.gencat.cat/es/05\\_ambits\\_dactuacio/empresa\\_i\\_produccio\\_sostenible/estrategia\\_ecodisseny/cataleg-ecodisseny-catalunya/](http://mediambient.gencat.cat/es/05_ambits_dactuacio/empresa_i_produccio_sostenible/estrategia_ecodisseny/cataleg-ecodisseny-catalunya/)



SUSTAINABILITY GUIDE

Tools to secure a sustainable Europe for generations to come.

GET INSPIRED

Sustainability 

What is sustainable development?

Ecodesign 

Principles and strategies for durable design

Methods 

Assessment methods, business models and tools

Support 

Cases, training and sustainability experts

<https://sustainabilityguide.eu>

<https://www.ecodesigncircle.eu/about-ecodesign>

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Voting on proposals

[menti.com](https://www.menti.com)

Code: 32 64 25

Thank you !

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