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CIRCULAR ECONOMY AND EIT RAW MATERIALS COORDINATION

**PMI e sostenibilità per il rilancio dell'economia:
un esempio dalla Regione Emilia-Romagna**

Bologna, 14 maggio 2020

European strategy, ... a new action plan

- EC, 2.12.2015 COM(2015) 614 final, Closing the loop - An EU action plan for the Circular Economy Circular Economy Package
- BEI – December 2015 InnovFin advisory group
 - Access-to-finance conditions for Projects supporting Circular Economy
- EC, 26.1.2017 COM(2017) 33 final, The implementation of the Circular Economy Action Plan
 - **Informal commission expert group on support to circular economy financing**
- EC, 11.3.2020 COM(2020) 98 final, A new Circular Economy Action Plan For a cleaner and more competitive Europe
 - **Categorisation system for the circular economy. A sector-agnostic categorisation system for activities substantially contributing to the circular economy**
 - **Strategic Research Innovation Agenda on Circular Economy**

Circular Economy in Emilia-Romagna

- Smart Specialization Strategy
 - The EC (industrial symbiosis) are considered transversal priorities of the regional smart specialization strategy
- Regional law 16/2015 "Provisions to support the circular economy, the reduction of urban waste production, the re-use of end-of-life goods, separate collection and changes to the regional law 19 August 1996"
 - Permanent forum for the circular economy
- Regional plan for waste management
 - Industrial symbiosis through "Supply Chain Agreements"
- Green economy and circular economy
 - Regional green economy observatory
- Plastic FreER regional strategy
 - Actions to limit the single use of plastic

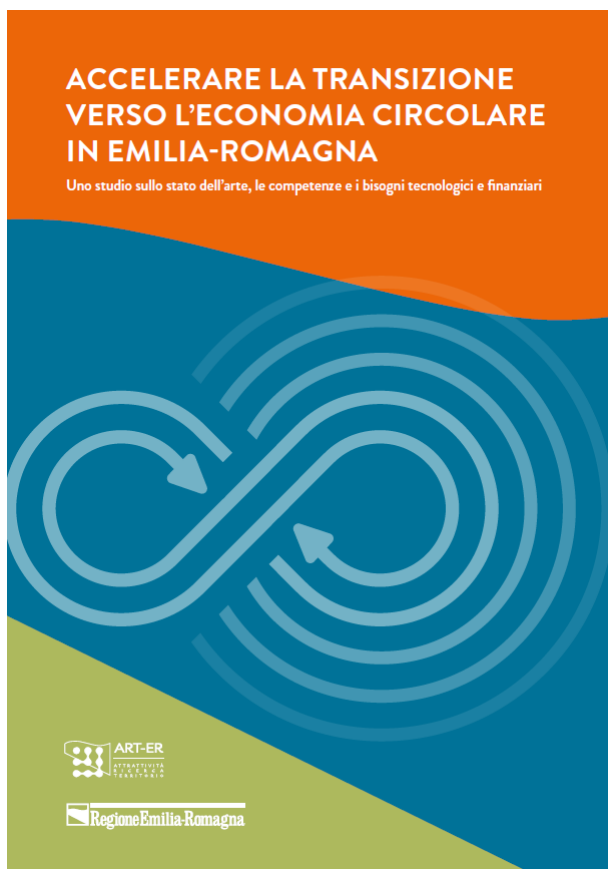
Regional Working Group on Circular Economy

The objective was to investigate: available competences, strategic objectives, ongoing transition processes, enhancement of the existing, obstacles and opportunities.

Their analysis will help to define future strategies and innovation policies with repercussions on economic and social development from a circular and sustainable perspective.




Emilia-Romagna Region, Technical Expert Group on Circular Economy

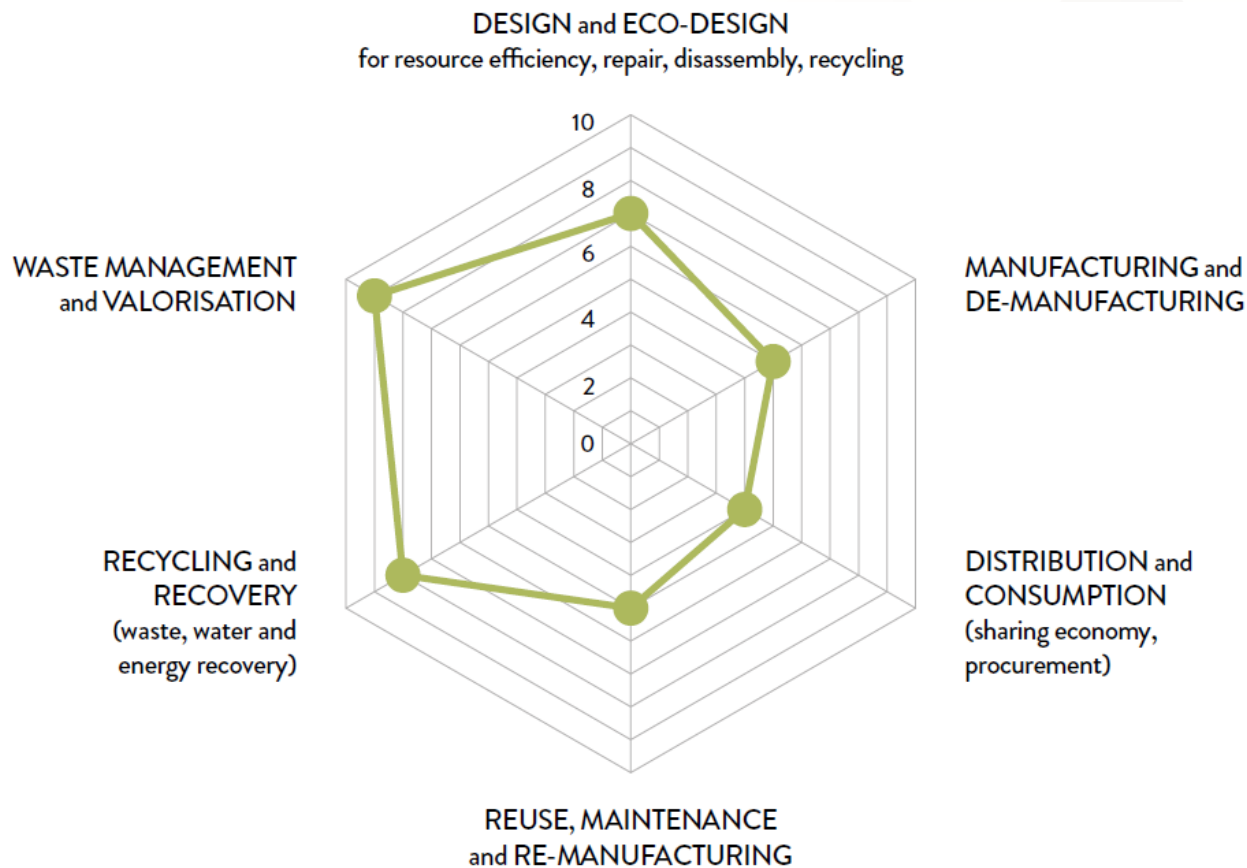


<https://www.art-er.it/2020/05/economia-circolare-accelerare-la-transizione-verso-un-nuovo-modello/>

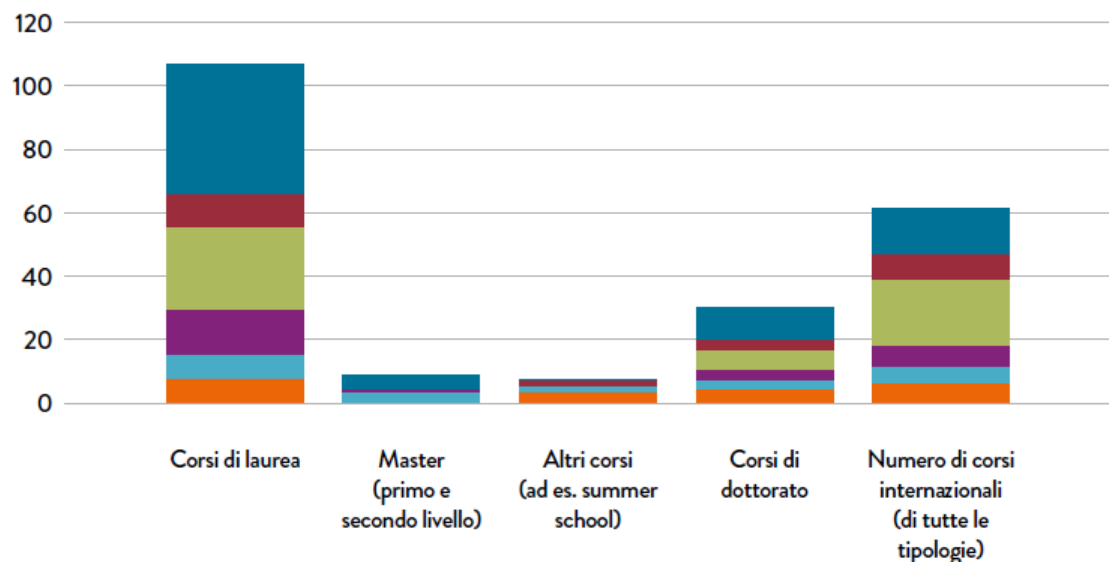
“Accelerare la transizione verso una economia circolare”

1. Legislative framework and strategic positioning in the European, national and regional levels
 2. Financial instruments
 3. Evaluation criteria and creditworthiness
 4. Technical-scientific-methodological skills
 5. Needs of the productive system
 6. Existing enhancement and good practices
 7. New demonstration actions (plastics/packaging and textiles/fashion)
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- A decorative background graphic consisting of a light gray, wavy, interconnected pattern that resembles a stylized molecular structure or a series of connected loops.

Regional radar of competences



Regional high education system

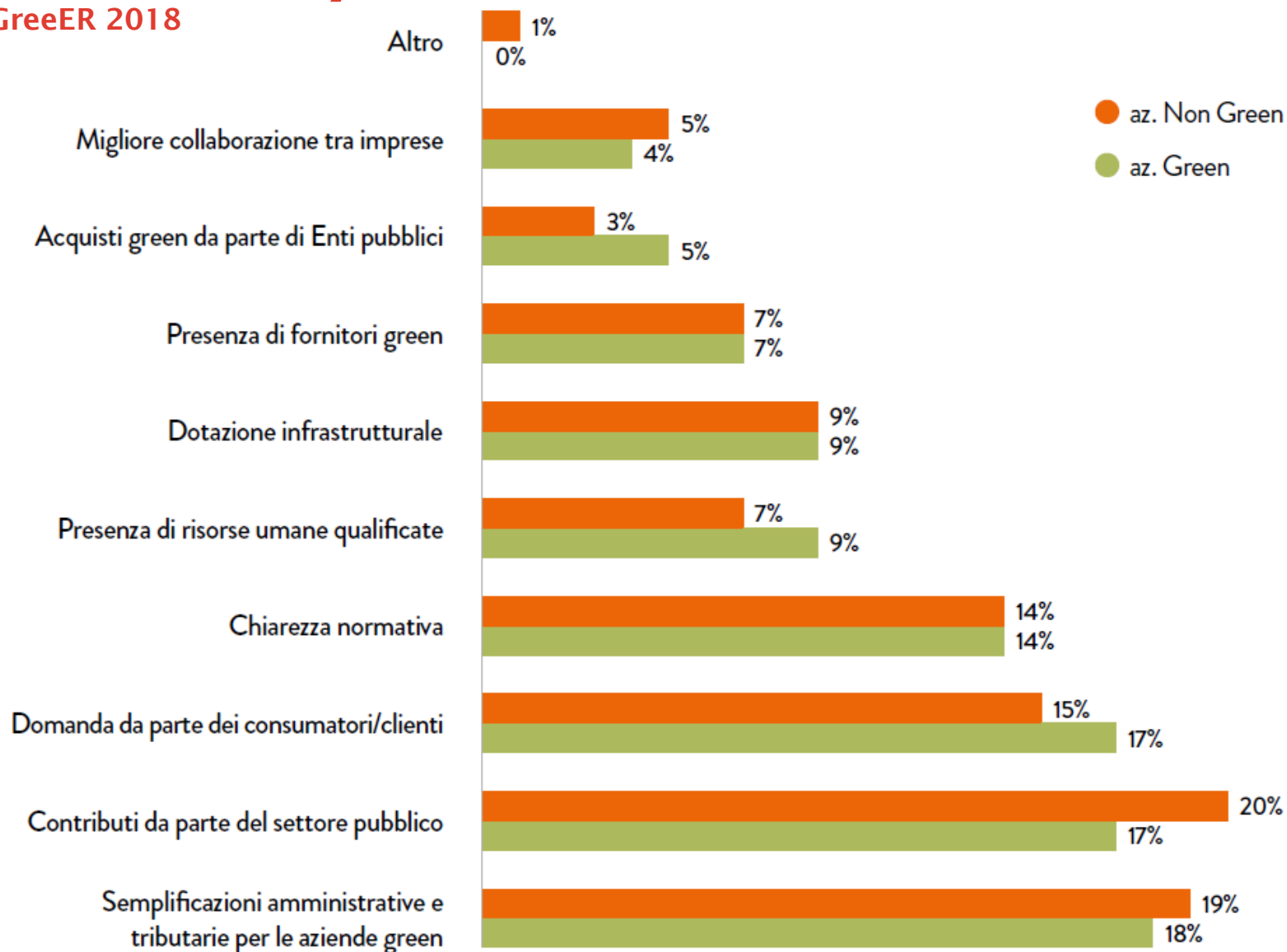


- DESIGN and ECO-DESIGN for resource efficiency, repair, disassembly, recycling
- MANUFACTURING and DE-MANUFACTURING
- DISTRIBUTION and CONSUMPTION (sharing economy, procurement)
- REUSE, MAINTENANCE and RE-MANUFACTURING
- RECYCLING and RECOVERY (waste, water and energy recovery)
- WASTE MANAGEMENT and VALORISATION

- 106 Degrees
- 9 Masters (I, II level)
- 8 summer schools
- 30 PhD courses
- 61 International

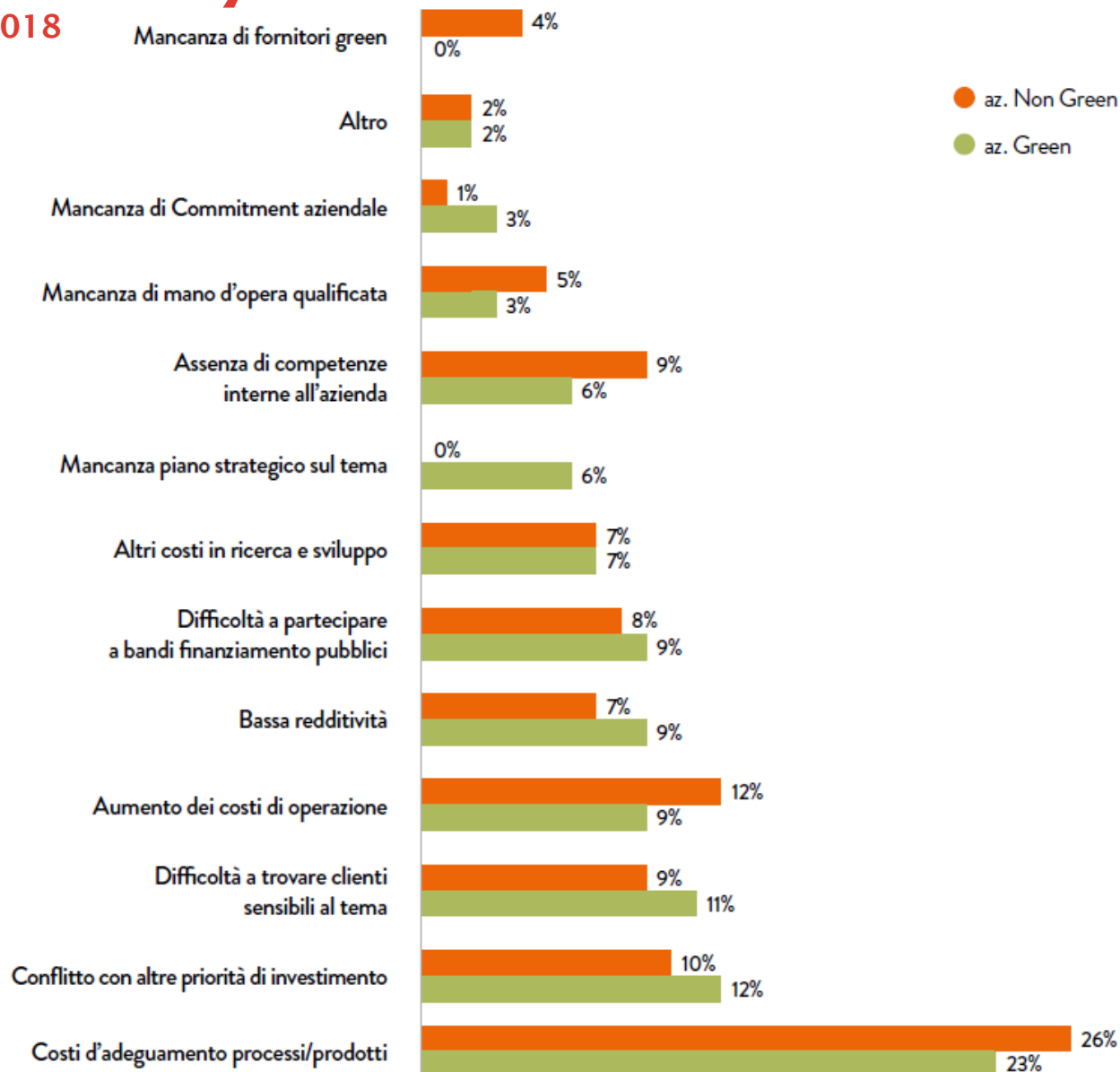
Why to invest in sustainability

Osservatorio GreeER 2018



Gaps to invest in sustainability

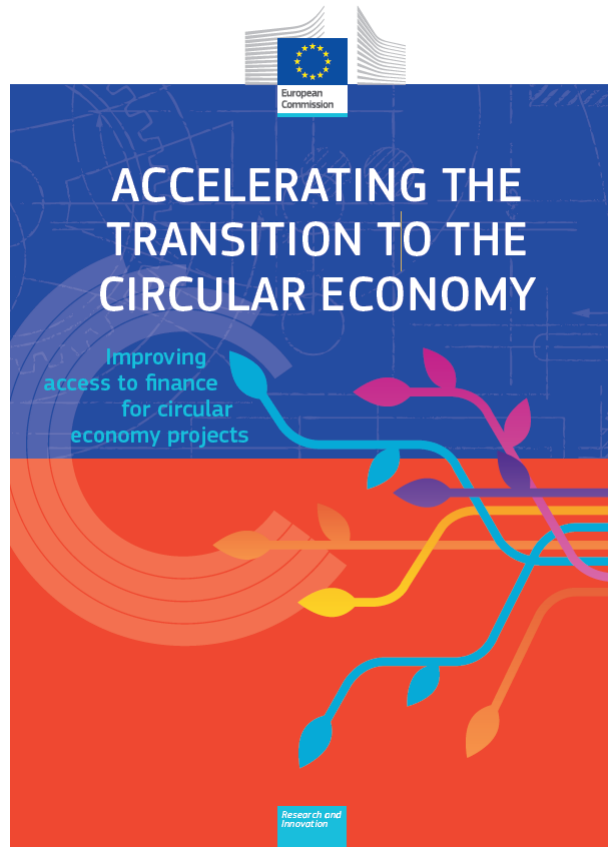
Osservatorio GreeER 2018



Best practice map



Informal Commission Expert Group “Support to Circular Economy Financing Model”



<http://ec.europa.eu/transparency/regexpert/index.cfm?do=groupDetail.groupDetail&groupID=3517>

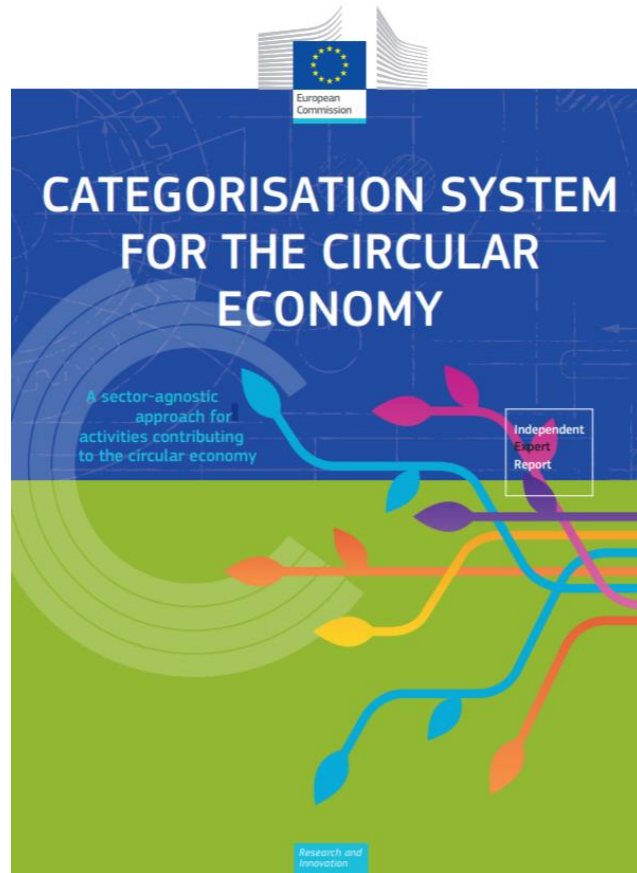
https://ec.europa.eu/info/publications/accelerating-transition-circular-economy_en

Improving access to finance

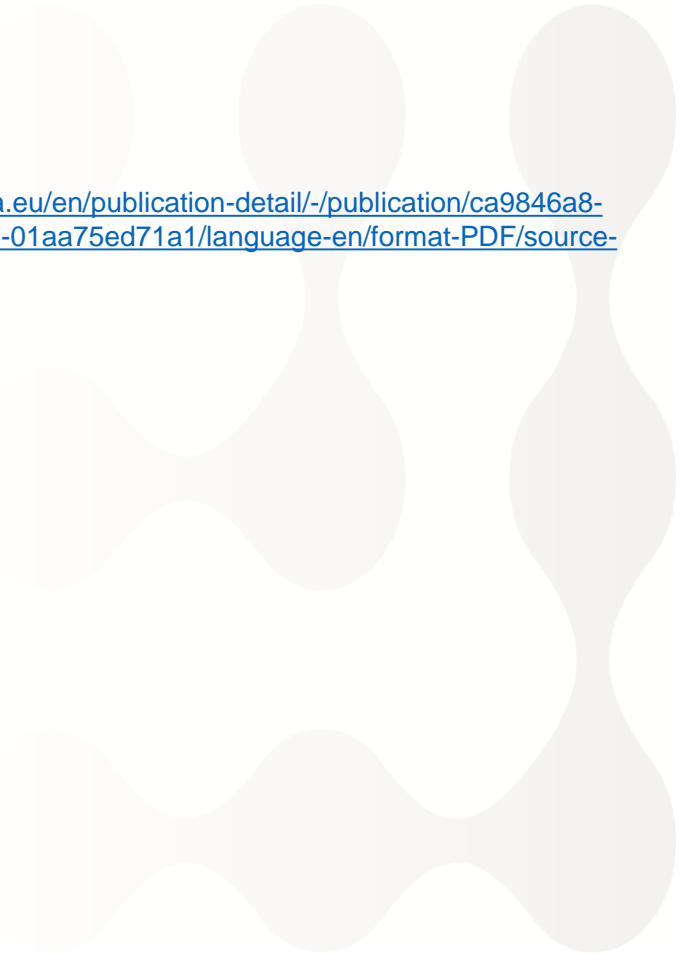
Technological and non-technological barriers (capacity building), limiting to a single company function, a single company or to a small number of companies. Examples of barriers:

- 1.** linked to the need to **develop and acquire internally skills** and technologies, in order to be able to review its products, processes and procedures in a short time and **maintaining same quality standards**
- 2.** transition requires a radical change in the business model of companies
- 3.** strong **interconnection along the overall value chain** (consumers, businesses, public bodies)
- 4.** economic/financial barriers, linked to high **investment, management and planning costs**; lack of adequate financial instruments that can favor the transition
- 5.** **regulations, legislative and governmental practices**, which often limit the adoption of already circular practices

Informal Commission Expert Group “Support to Circular Economy Financing Model”



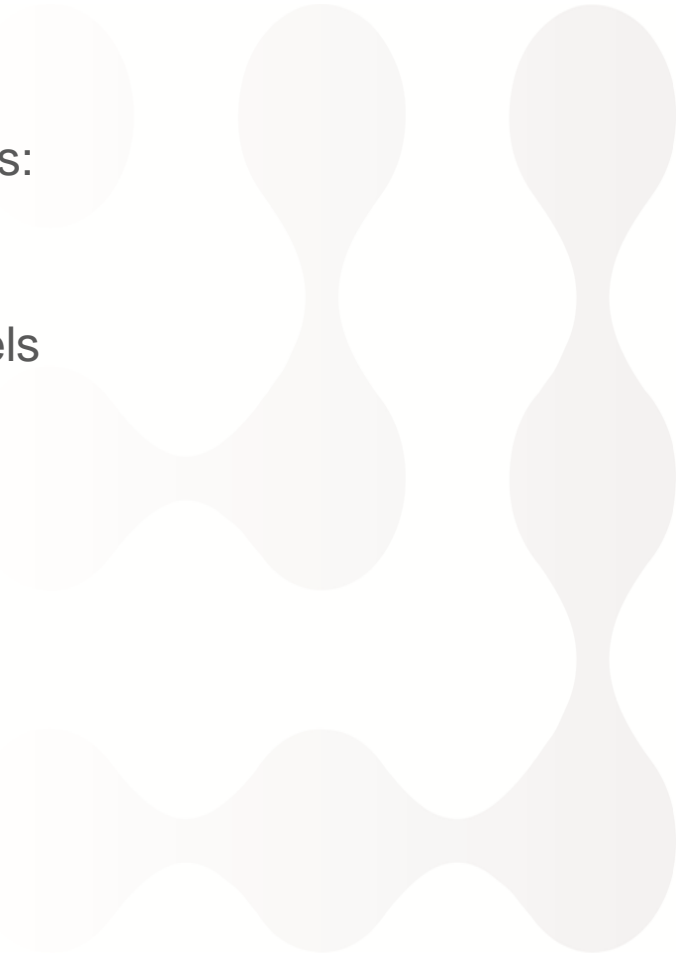
<https://op.europa.eu/en/publication-detail/-/publication/ca9846a8-6289-11ea-b735-01aa75ed71a1/language-en/format-PDF/source-120460723>



Categorisation system for the circular economy

The 14 circular categories are organised in 4 groups:

1. Group 1 - Circular Design and Production Models
2. Group 2 - Circular Use Models
3. Group 3 - Circular Value Recovery Models
4. Group 4 - Circular Support



Categorisation system for the circular economy

- 1.a Design and production of products and assets that enable circular economy strategies (increased resource efficiency, durability, functionality ...)
- 1.b Development and deployment of process technologies that enable circular economy strategies
- 1.c Development and sustainable production of new materials (including bio-based materials) that are reusable, recyclable or compostable
- 1.d Substitution or substantial reduction of substances of concern in materials, products and assets to enable circular economy strategies
- 1.e Substitution of virgin materials with secondary raw materials and by-products
- 2.a Reuse, repair, refurbishing, repurposing and remanufacturing of end-of-life or redundant products, movable assets and their components
- 2.b Refurbishment and repurposing of end-of-design life or redundant immovable assets (buildings/infrastructure/facilities)
- 2.c Product-as-a-service, reuse and sharing models based on, inter alia, leasing, payper-use, subscription or deposit return schemes
- 2.d Rehabilitation of degraded land to return to useful state and remediation of abandoned or underutilised brownfield sites
- 3.a Separate collection and reverse logistics of wastes as well as redundant products, parts and materials enabling circular value retention
- 3.b Recovery of materials from waste in preparation for circular value retention and recovery strategies
- 3.c Recovery and valorisation of biomass waste and residues as food, feed, nutrients, fertilisers, bio-based materials or chemical feedstock
- 3.d Reuse/recycling of wastewater
- 4.a Development/deployment of tools, applications, and services enabling circular economy strategies



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