FDIS – FINAL DRAFT...

ISO 59 004 – Circular Economy – Terminology, principles and guidance for implementation

ISO 59 010 Circular Economy – Guidance on business models and value networks	ISO 59 020 Circular Economy – Measuring and assessing circularity performance	ISO 59 040 Circular Economy – Product Circularity Data Sheet	ISO 59 014 Environmental management and circular economy – Sustainability and traceability of secondary materials recovery– Principles and requirements
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ISO TR 59 031 – Circular Economy – Performance based approaches ISO TR 59 032 – Circular Economy – Review of business model implementation



Relationship between ISO 59004, ISO 59010 and ISO 59020 (59014 Secondary Materials and 59040 Circularity Data Sheet)

In this family of standards, ISO 59004, ISO 59010 and ISO 59020 are interconnected as shown in Figure 2 and support organizations in implementing a transition towards a circular economy.



Figure 2 — Relationship between ISO 59004, ISO 59010 and ISO 59020

3.3.12

Residuo

recurso (3.3.11) que ya no se considera un activo ya que, <mark>en ese momento</mark>, proporciona un valor insuficiente al titular.

Nota 1 a la entrada: El titular puede optar por retener, desechar o transferir los residuos.

Nota 2 a la entrada: Se puede asignar valor a un residuo como resultado de una necesidad de otra parte interesada, momento en el que el recurso ya no se considera residuo.

Nota 3 a la entrada: La asignación de valor a los residuos como recurso está vinculada, en parte, a la tecnología disponible (por ejemplo, la minería en vertederos).

Nota 4 a la entrada: Algunas regulaciones requieren que el poseedor se deshaga de ciertos tipos de residuos, mientras que otras asignan valor a los desechos.

Nota 5 a la entrada: Debido a que los recursos incluyen el contenido de energía o el potencial energético de los materiales, dicha energía, cuando se libera durante un proceso y no se recupera para otro uso, puede considerarse un residuo.







Figure 7 — Circularity measurement taxonomy



and circular objectives (maintain a circular flow of resources by retaining, recovering and adding to their value)

Figure 8 — Data acquisition process



Figure 9 - Documentation to assess the quality



Figure 10 – Steps for assessing circularity performance



ANEXO A. (Normativo)

Indicadores "Core" obligatorios

Figure A.1 – 100 percent resource inflow formula



Figure A.2 – 100 percent resource outflow formula





ANEXOS Informativos

Anexo B – Indicadores opcionales Anexo C – Métodos complementarios Anexo D – Circularidad y SDGs

ANEXOS de ejemplos

Figure H.1 - Beverage container manufacture system and boundaries







Indicator legend

Resource inflows:

- A.2.2 share of used tools processed
 (= reconditioning) of total tools produced
- A.2.3 share of recycling content (= tool: recycled wolfram carbide) in carbide rods
- A2.4 Average renewable content of inflow

- Resource outflows:
- A.3.3 % actual reused products and components derived from outflow
- A.3.4 % actual recycled material derived from outflow
- A.3.5 % recirculation of outflow in the biological cycle (no
- renewable material in inflow, therefore not applicable) • A 3 X number of recondition cycles before recycling
- A.3.X number of recondition cycles before recycling (additional indicator)

Energy:

• A.4.2 Average % of energy consumed that is renewable energy

Water:

- A.5.x % water reduction in process (additional indicator)
- A.5.3 % water discharged in accordance with quality requirements
 Economic: No indicator used





