



DF 63: How can LCA support the circular economy?":

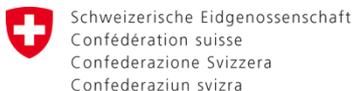


Urban mining for a circular economy – Focus on metals and developing countries perspective

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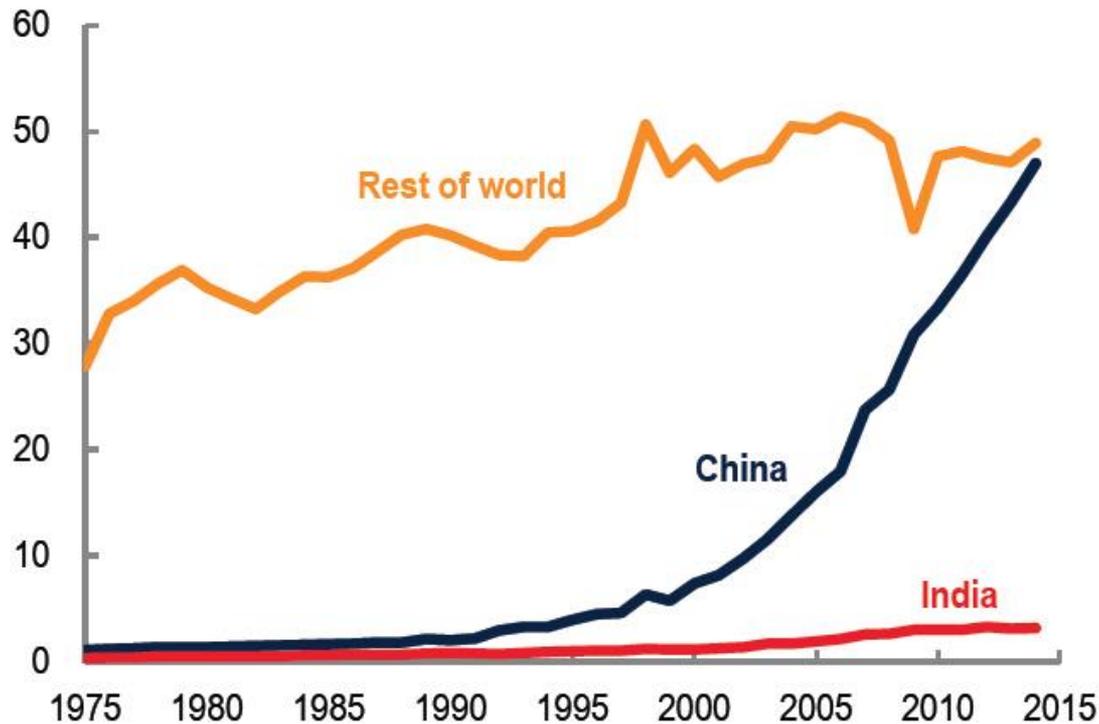
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Federal Department of Economic Affairs FDEA
State Secretariat for Economic Affairs SECO



Full Metal Consumption (millions of tonnes)



Source: World Bureau of Metal Statistics.

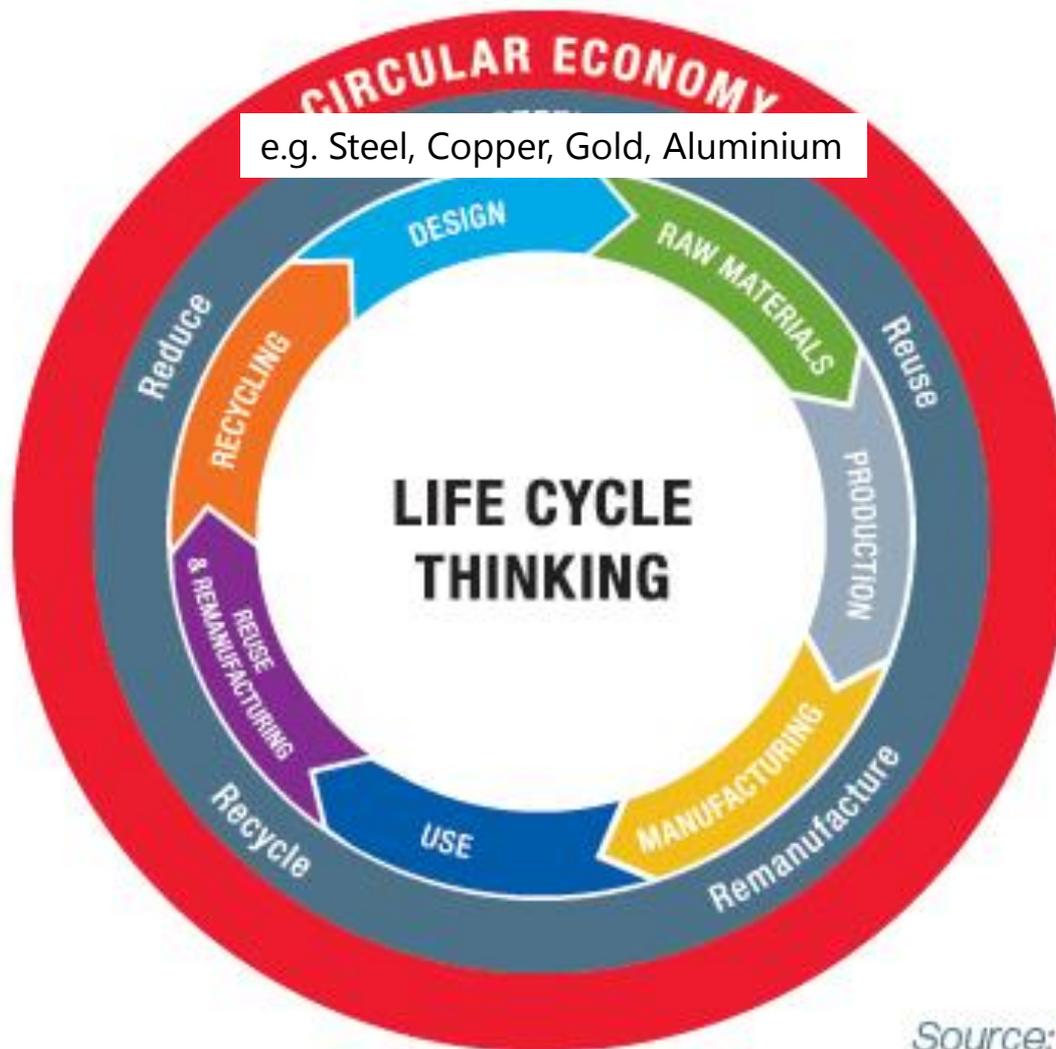
Note: Last observation is 2014. The six metals are included: aluminum, copper, lead, nickel, tin and zinc.



The availability of many metals in future will be ensured through changes in lifestyles and technological innovations that incorporates secondary materials (urban mining).



To make the circular economy work, we need to keep the scrap in the loop: urban mining





Recycling offers opportunities but also poses risks. Urban mining in developing countries is more efficient. However, more than 90% of recovered metals is done informally.

Informality



~ 25 000 people recycle plastic in New Delhi, India

Threats



Environmental pollution, health hazards, other

Opportunities



"Urban Mining"

Circular Economy (CE) is approached differently in developing countries

Focus on productivity and efficiency.
Technologically driven

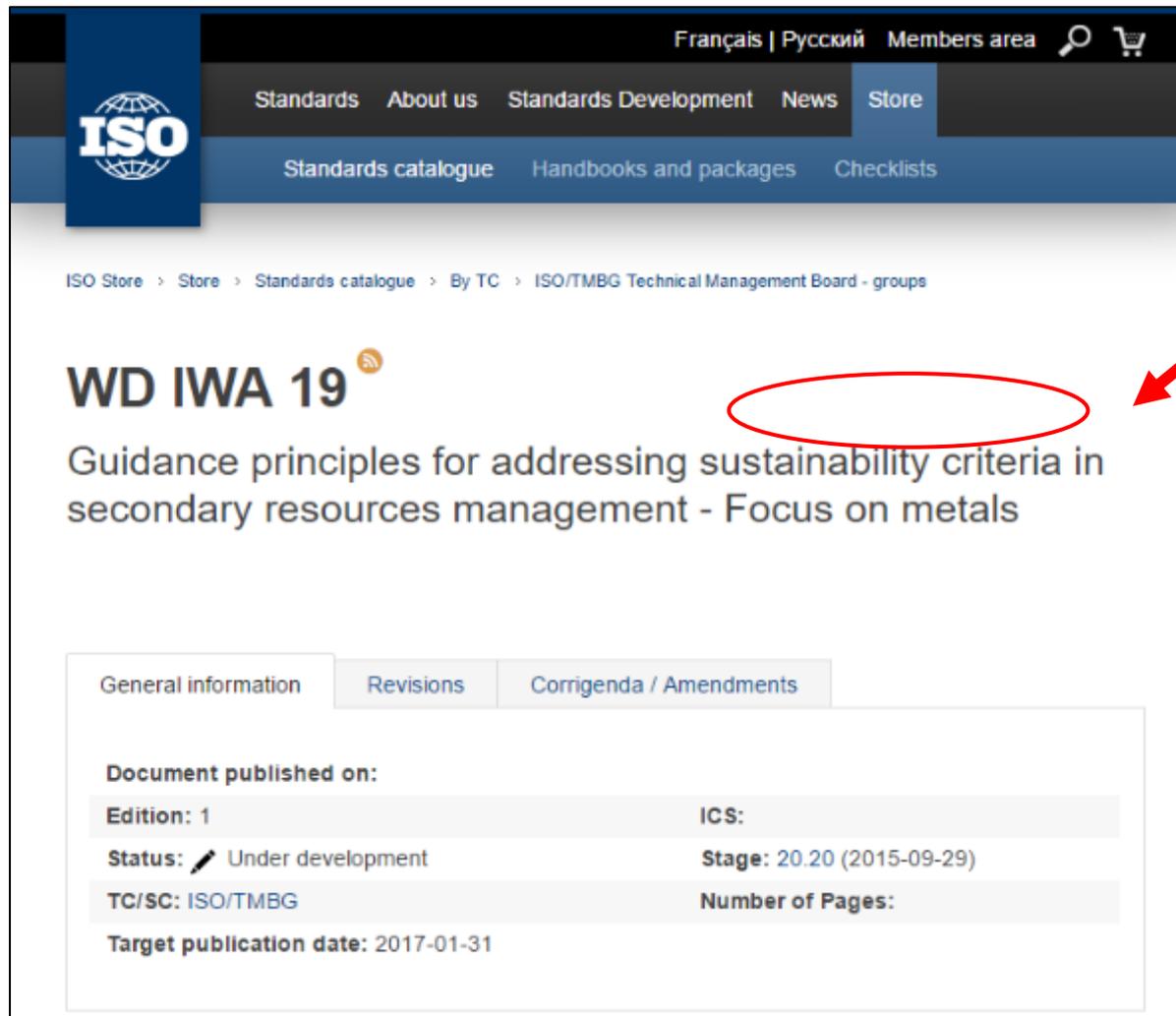


Focus on resources management.
People driven.

CE in developing countries should evolve towards more responsible urban mining and be embedded in national policies.



Supporting Urban Mining in small and informal recycling activities: ISO International Workshop Agreement 19, Dec 2016



ISO Store > Store > Standards catalogue > By TC > ISO/TMBG Technical Management Board - groups

WD IWA 19 ^{SD}

Guidance principles for addressing sustainability criteria in secondary resources management - Focus on metals

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Economic Operators in the scope

Any individual, enterprise, association, cooperative or organisation involved in **Subsistence Activities (SA)**, **Unofficial Business Activities (UBA)** or **Official Business Activities (OBA)**



Transportation of:

- ➡ waste that contains metals or prepared fractions containing metals
- ➡ products
- ➡ secondary metals



Sustainability Requirements: Five Guidance Principles

1. Enabling safe, healthy and equitable working conditions



3. Conserving and protecting the environment and natural resources



To be banned or improved

5. Implementing a sustainable management approach



Sustainability Requirements: Five Guidance Principles



5. Implementing a sustainable management approach

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Mejoramos las condiciones de vida de la población, mediante el desarrollo de una minería de oro responsable.



Thank you!

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SUSTAINABLE
RECYCLING
INDUSTRIES