

ECOMONDO 2021 - Le materie prime critiche e il nuovo piano di azione Europeo: strategie per un approvvigionamento più sicuro e sostenibile

Erion

RAEE e materie e materie prime critiche

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About Erion

The largest nonprofit Producer Responsibility Organization in Italy

- Owned by **2.400 Producers** of electrical and electronic equipment and batteries
- **236.000 tons of secondary raw materials** recovered in 2020
- **1,8 million tons of GHG** avoided emission in 2020

Mining? Urban mining!

We look at products placed on the market, in-stock (in use and hibernated) and generated as waste

Productivity:

- 1 ton of gold ore: 3 g of gold
- 1 ton of mobile phones: 300 g of gold



The WEEE case

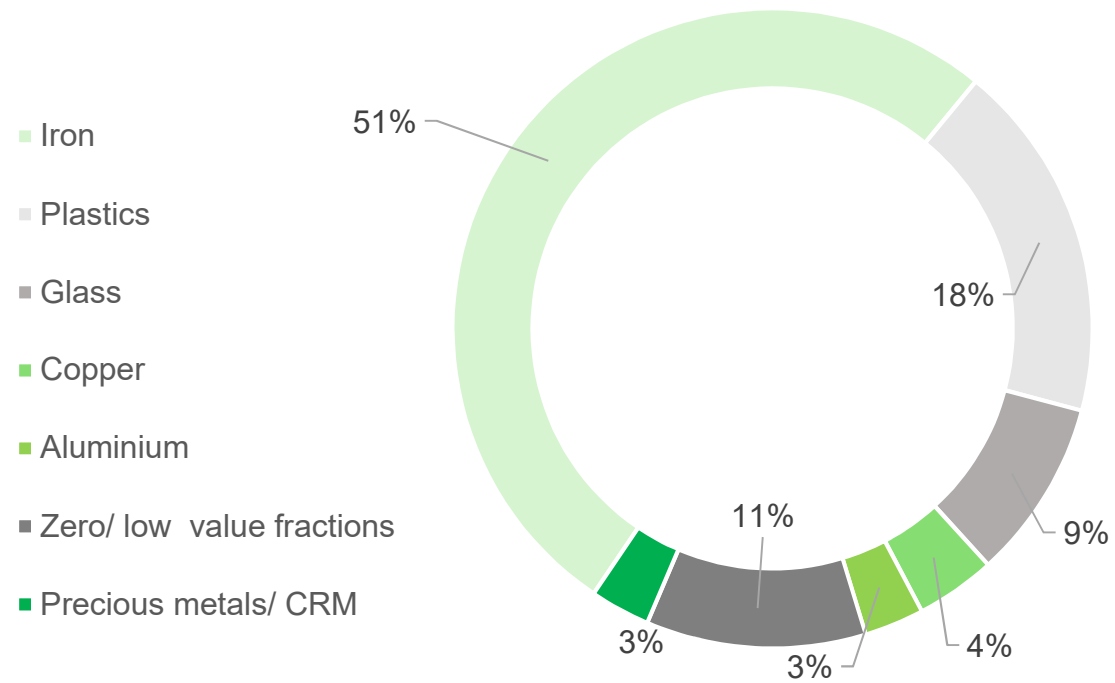
- 54 million tons per year generated worldwide (7,3 kg per capita)
- **44 million tons “lost” or not properly recycled**

Efficiency

- EU: 42,5%
- Asia: 11,7%
- Americas: 9,4%
- Africa: < 5%



WEEE: what have we got here?



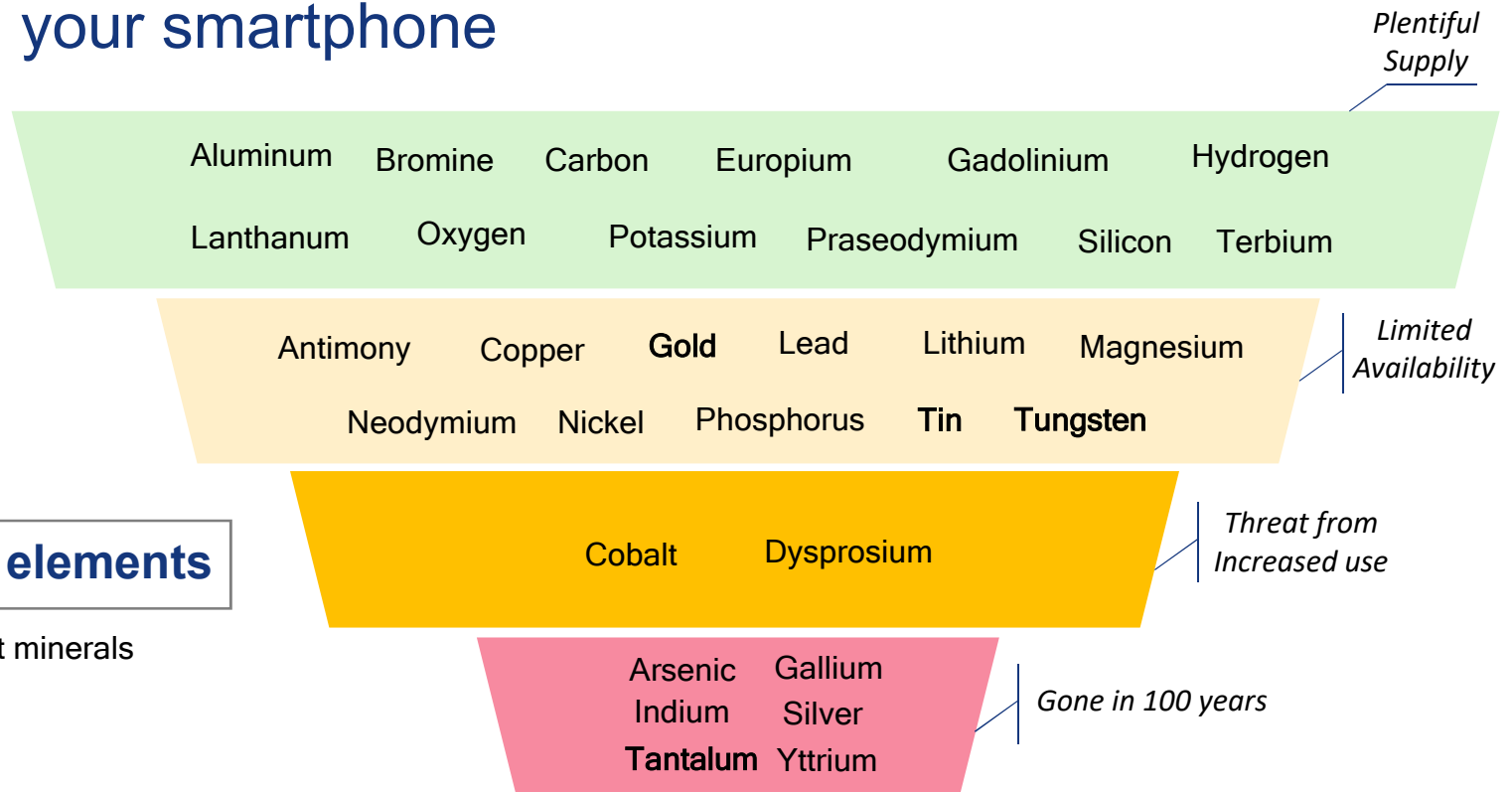
Source: Erion Recycling Report

Inside your smartphone



> 30 natural elements

In bold: from conflict minerals



Source: European Chemical Society

The EU leads the way

- 12 million tons of e-waste generated per year
- 5 million tons properly collected and recycled

Circular Economy Action Plan

Focus on EEE as a strategic industry

1. Eco-design
2. Durability – Repairability
3. Key role of EPR schemes
4. Incentives to employ secondary raw materials in designing new products
5. Remanufacturing
6. Consumer awareness
7. Collection systems
8. Better legislation

Outlook for Italy



RECYCLING INFRASTRUCTURE

- No second level facilities



EXTENDED PRODUCER RESPONSIBILITY

- Overall effective but room for improvements



LEGISLATIVE FRAMEWORK

- Simplifications for retailers
- EoW
- Recycling Decree
- Control Committee
- Poor incentives for “green products”



ECODESIGN

- Focus on energy, not so much on materials' circularity



CULTURAL SHIFT – CONSUMER AWARENESS

- Only 36% of the Italian population know what a RAEE is



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