

Hi-Tech&Ambiente – Circular Economy

Milan, 10 June 2015

GREEN ECONOMY REPORT 2014

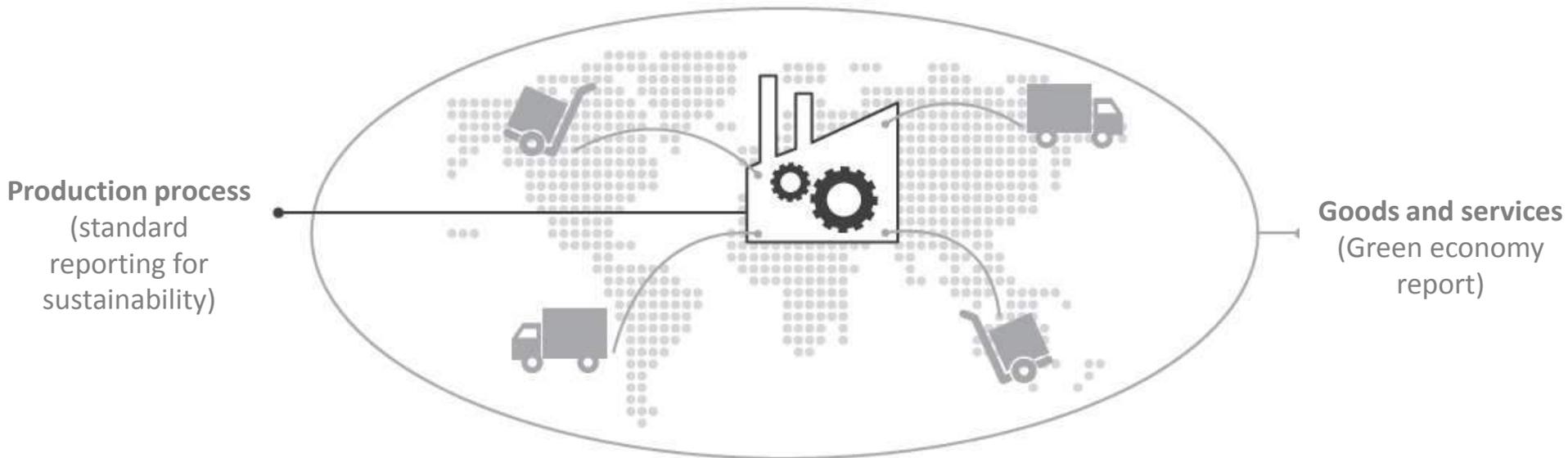
Andrea Barbabella
Head of Reporting





The green economy changes the relationship between business and environment. In a green economy, green companies refer their competitiveness on high level environmental and eco-innovation standards for products and processes and play an active role in promoting sustainability policies and the transition towards a green economy.

The Sustainable Development Foundation developed an innovative approach to sustainability reporting - the Green economy report (GER) - aimed at meeting specific needs of green companies in assessing and communicating their performances in the frame of a green economy.



IL CONSORZIO REMEDIA

LA CIRCULAR ECONOMY

I rifiuti tecnologici come risorsa

pag. 12

pag. 24

La Circular Economy nella Green Economy

La gestione dei rifiuti tecnologici nel Consorzio Remedia

pag. 32

pag. 38

I loop rigenerativi della Circular Economy

I benefici ambientali del recupero nel sistema Remedia

pag. 40

pag. 50

Le ricadute ambientali della Circular Economy

I benefici economici e occupazionali del sistema Remedia

pag. 54

pag. 58

Il valore economico della Circular Economy

Governance, stakeholder e comunicazione di Remedia

pag. 62

pag. 68

Governance e stakeholder della Circular Economy

Dispositivi PHON lampade apparecchi HI-FI forni
fotocamere orologi lavatrici laptop spruzzatori frigoriferi pannelli bilancia
TLC televisivi distributori vario grandi elettrodomestici
informatiche trapani fluorescenti macinini LED cellulari
navigatori minicomputer fotovoltaici treni bollitori
apparecchiature forni videogiochi asciugacapelli
LCD pile stampanti elettrici proiettori musicali frullatori
elettronici console elettrodomestici automatici rilevatori climatizzatori
computer tagliaerba aspirapolvere microonde
sveglie videocamere stiro cucire calcolatrici decoder macchine
rasoi lavastoviglie tostapane termostati PC
stampanti apparecchiature condizionatori ferri cottura
frigoriferi ASCIUGACAPELLI distributori smartphone

Precious materials in technological products/waste

Involucri e supporti

Ferro	Antimonio
Alluminio	Magnesio

Magneti

Motori,
Hard disk,...

Ferro	Terre rare
Cobalto	

Elettronica

Diodi, switch,
condensatori,
interruttori, transistor,
contatti, circuiti,
stampanti,
semiconduttori...

Rame	Germanio
Oro	Tantalio
Palladio	Niobio
Argento	Stagno
Antimonio	Gallio

Celle fotovoltaiche

Antimonio	Germanio
Indio	Tellurio

Avvolgimenti e cavi

Alluminio	Plastiche
Rame	

Schermi e Display

Antimonio	Terre rare
Indio	Stagno

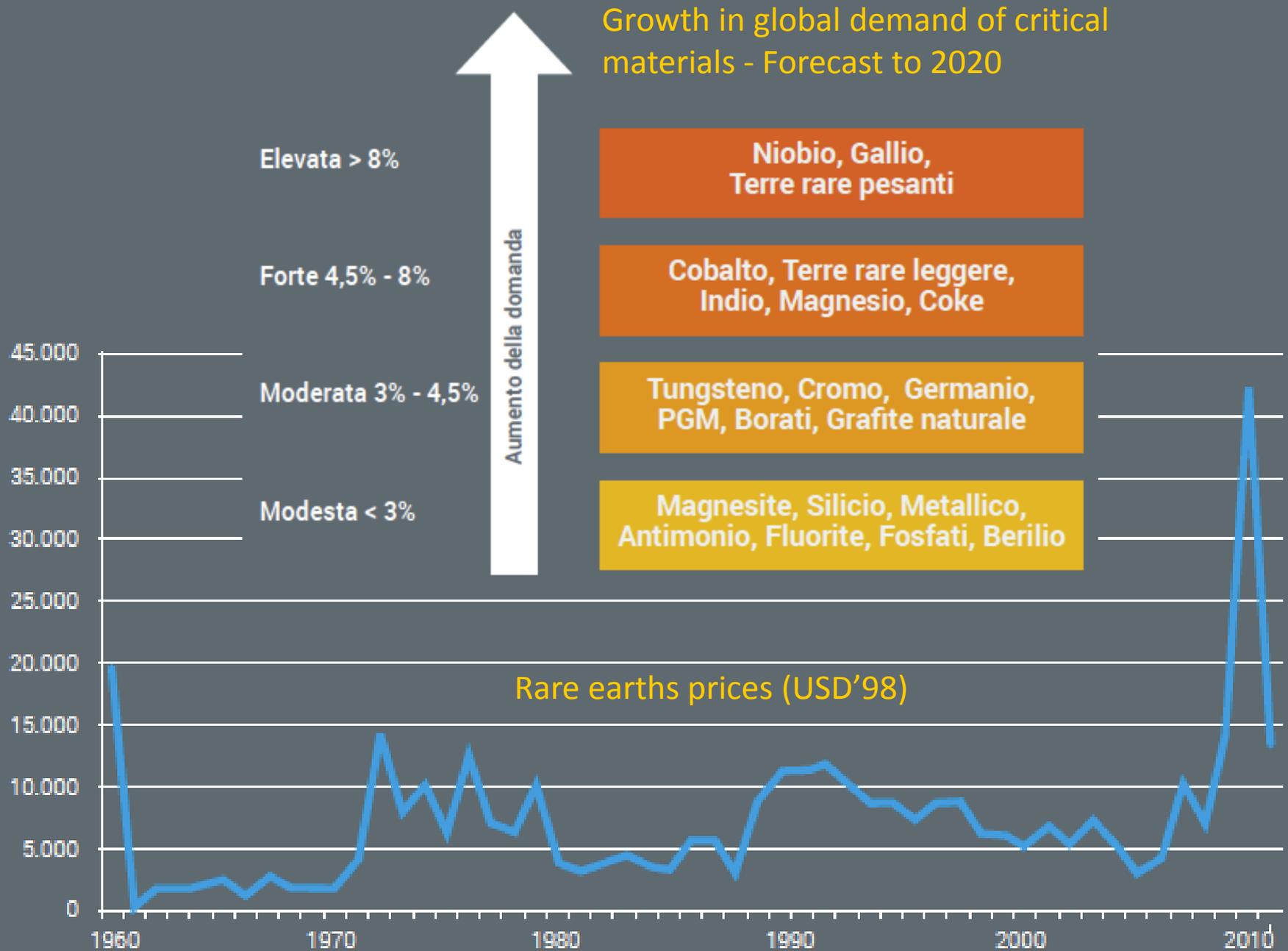
Lampade LED

Terre rare	Gallio
------------	--------

Batterie

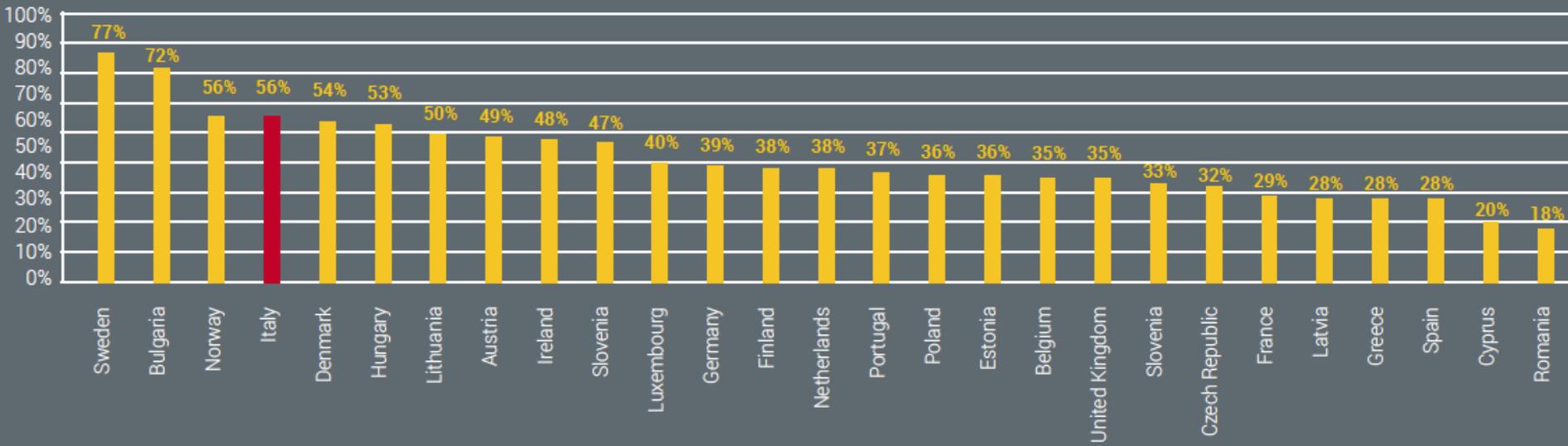
Litio	Cobalto
Piombo	

Growth in global demand of critical materials - Forecast to 2020



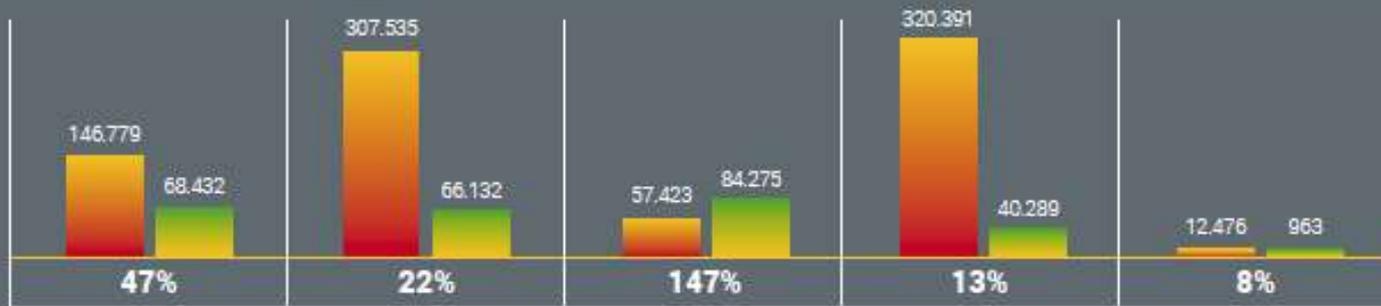
WEEE collection rate in EU countries in 2012

Target 2019 = 65%
Target 2016 = 45%

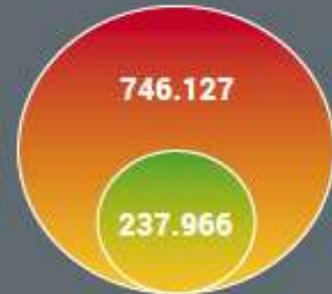
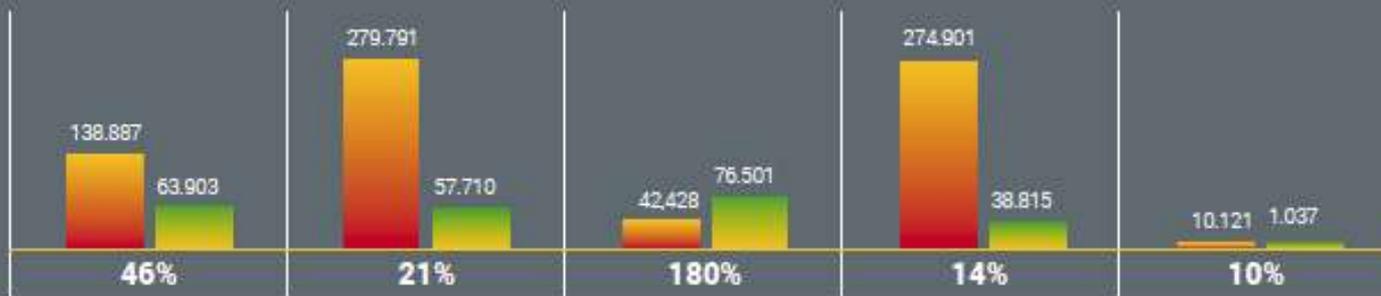


WEEE collection performance in National Collective Systems (tons)

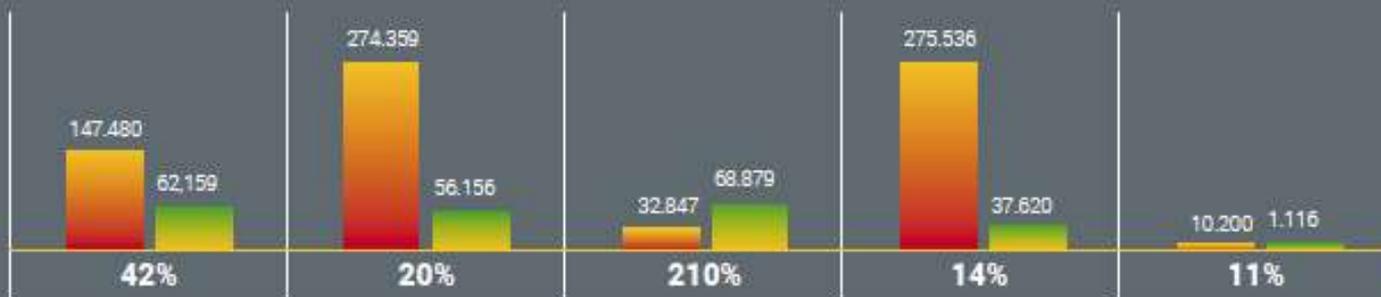
2011



2012



2013



R1

Freddo e clima (frigoriferi, congelatori, condizionatori e scaldacqua)

R2

Grandi bianchi (lavatrici, lavastoglie, forni, piani cottura, etc.)

R3

Televisori e monitor

R4

Piccoli elettrodomestici, elettronica di consumo, apparecchi d'illuminazione e altro

R5

Sorgenti luminose

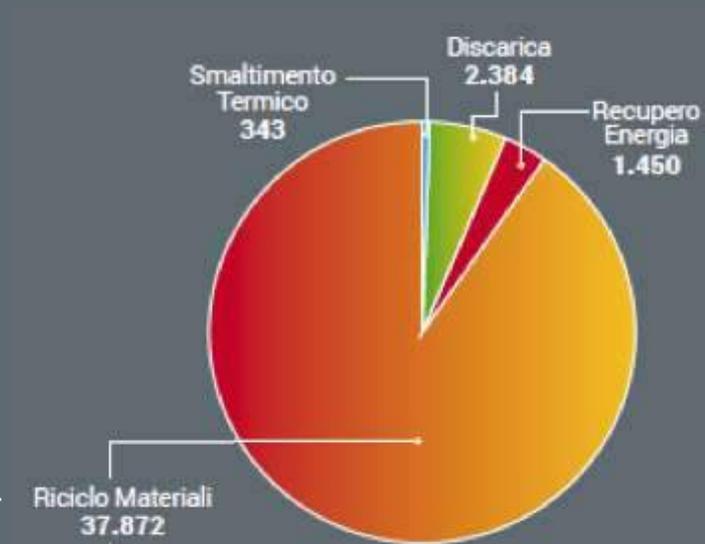
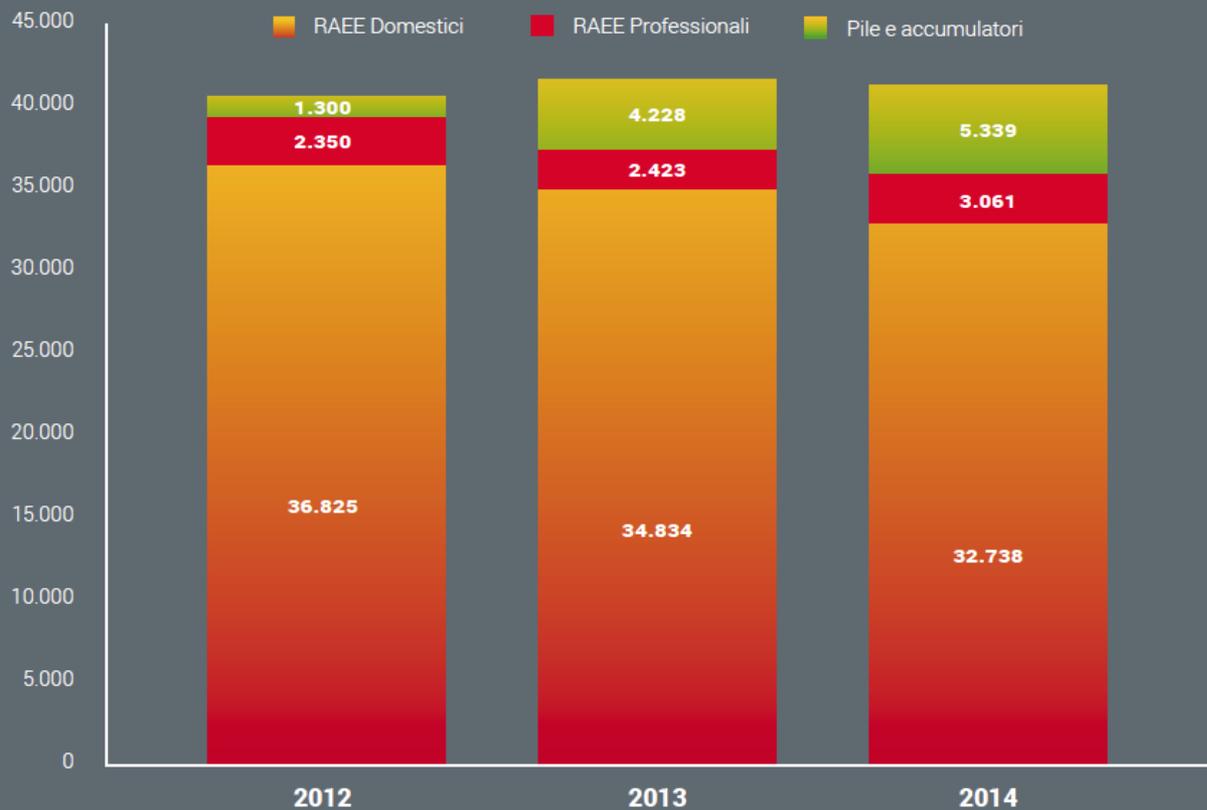


Immessi



Raccolti

Remedia collection of technological waste (tons)



The environmental benefit of Remedia activities in 2014

MATERIAL FOOTPRINT

Net balance: -80 tons ...or 220
Airbus 380

WATER FOOTPRINT

Net balance: -705.000 m³
...or the water requirements
for production of 550 t of
grain



CARBON FOOTPRINT

Net balance: -39.000 tons
CO₂eq ...or 8.000 cars for
30.000 km/y

LAND FOOTPRINT

Net balance: -382 ha ...or
500 football fields

CARBON FOOTPRINT



Impatti
+29.853
t CO₂eq

Impatti per processo di recupero | **% su totale**

Logistica	6,3%
Trattamenti per il recupero	45,7%
Riciclo industriale	30,0%
Recupero Energia	13,0%
Smaltimento in discarica	2,9%
Smaltimento termico	2,1%

Benefici
-69.155
t CO₂eq

Benefici per processo di recupero | **% su totale**

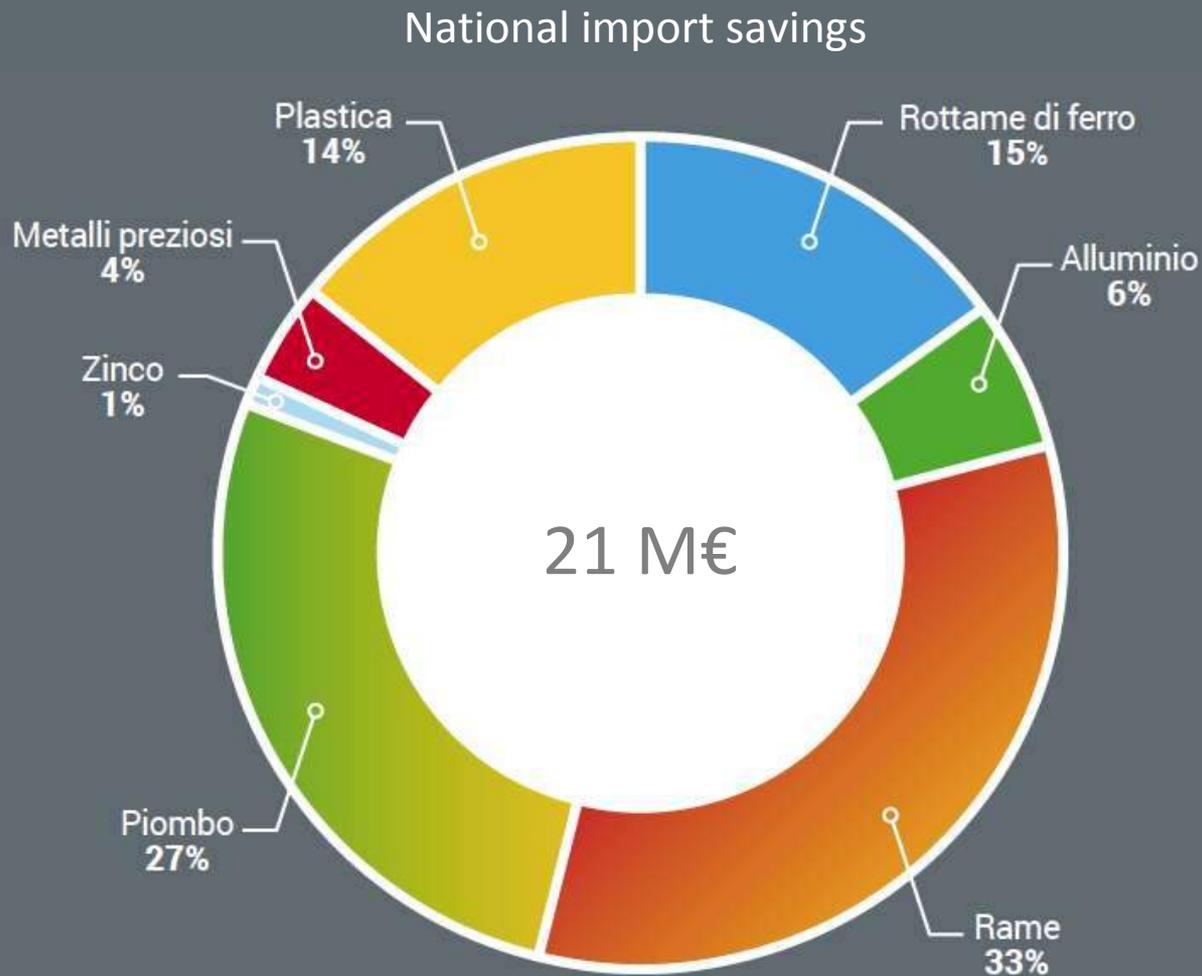
Recupero Energia	3,4%
Riciclo di Materiale	96,6%

Bilancio complessivo
- 39 mila t CO₂eq
di emissioni in
atmosfera evitate

Benefici riciclo di materiale | **% su totale**

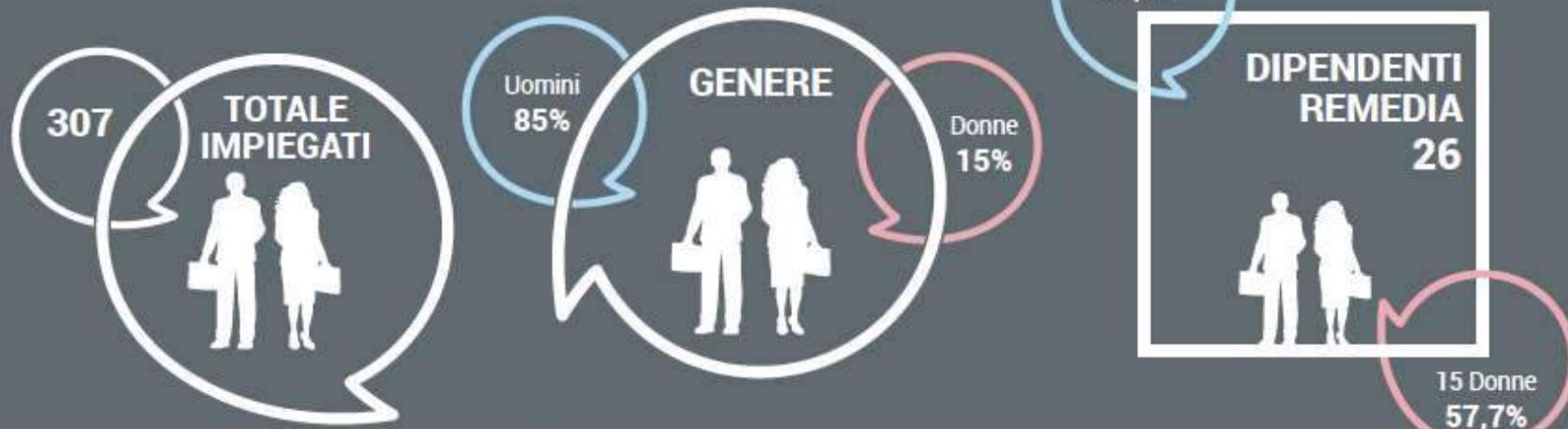
Alluminio	16,5%
Metalli Ferrosi	28,5%
Rame	6,1%
Piombo	10,3%
Vetro	11,0%
Plastica	22,5%
Altro	5,1%

The economic benefit of Remedia activities in 2014



The social benefit of Remedia activities in 2014

Job creation from Remedia activity in 2014

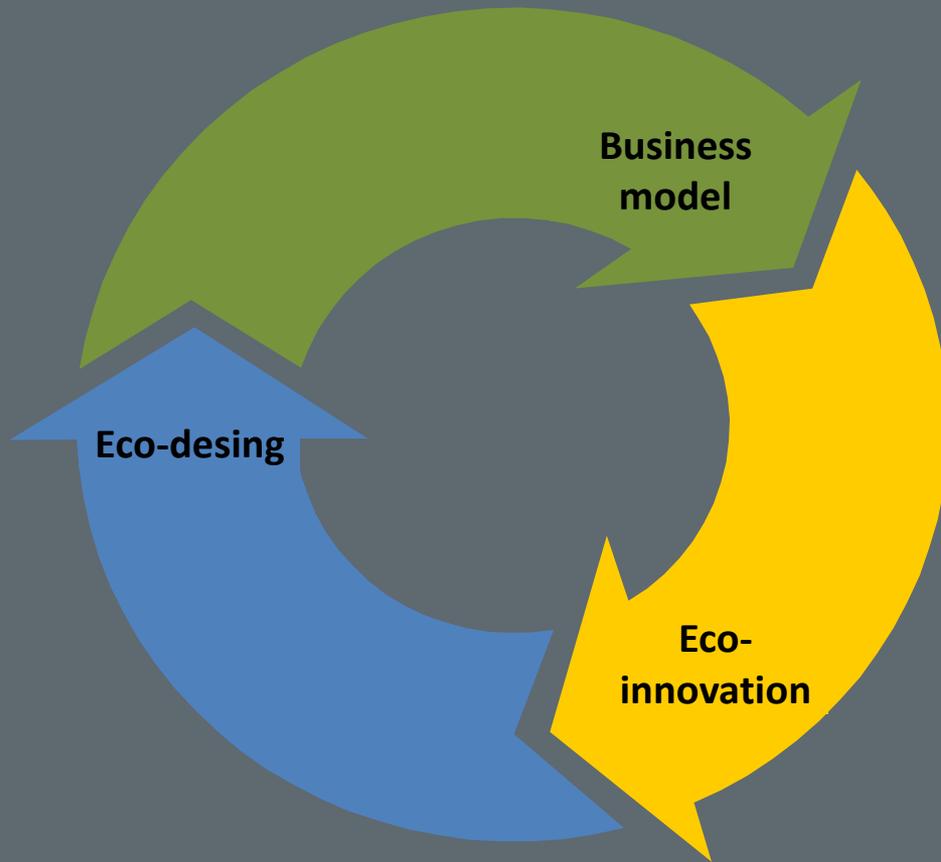


la filiera

Remedia



The way towards a circular economy: connecting core-green and go-green companies



The Sustainable Development Foundation identifies two different categories of green companies:

- **core-green companies**, as those organization focusing on the production of environmental goods and services in accordance to a roadmap towards a green economy transition;
- **go-green companies**, as those organizations embodying high environmental standards in their business models both for production and marketed products, although not focusing on environmental goods and services.

Thanks for your attention!

GREEN ECONOMY
REPORT 2014

