



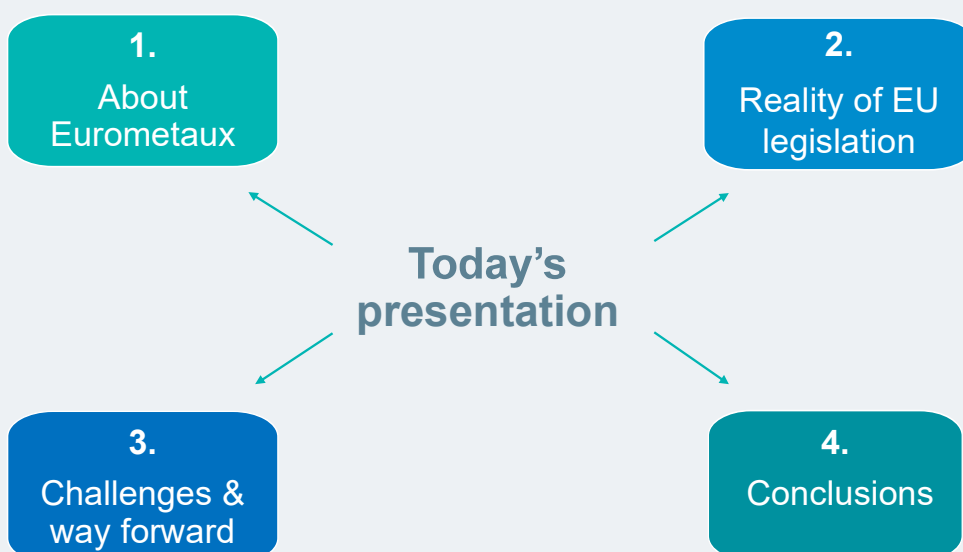
Metals recycling in Europe: regulations & recommendations

Kamila Slupek, Eurometaux

International Metals Study Groups – Joint Seminar: 'The role of recycling in meeting future demand for metals'

Lisbon, 4th Oct. 2023

Al	Cu	Ni	Pb	Zn	Au	Ag	Pt	Sb	Be	Si	Co	Mo	V	Sn	Pd	Ru	Re	Os	Ir	W	Ta	Ge	Se	Ga	Cr	Mg	Li
----	----	----	----	----	----	----	----	----	----	----	----	----	---	----	----	----	----	----	----	---	----	----	----	----	----	----	----





1. About Eurometaux

Eurometaux membership

28

Company members,
across the full metals
value chain:



Company Members:

ALBEMARLE	Aluminium Dunkerque Alcoa	BASF ANGLO AMERICAN
ATLANTIC COPPER <small>A Freeport-McMoan Company</small>	Aurubis	BOLIDEN
ECOBAT	Elkem	eraMET
GLENCORE	Hydro	KGHM <small>POLESIA MIERS</small>
ALVANCE	Livent	METALLO <small>ALUMINA GROUP</small>
M <small>HYTZEMER</small>	NORMICKEL	nyrstar
RioTinto	speira	SQM
umicore	VALE	trifmet
		Wieland

8

Commodity
associations


13

National associations

23

Associate members

Eurometaux is the decisive voice of European non-ferrous metals producers, transformers and recyclers.



Eurometaux positively influences EU legislation to support the non-ferrous metals industry.



European Commission



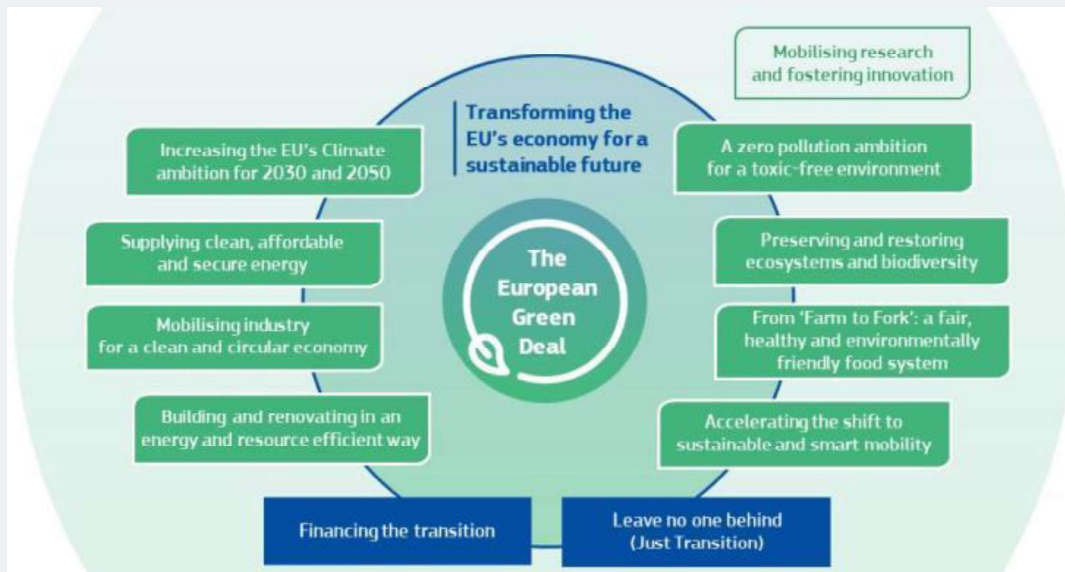
European Parliament



European Council

2. Reality of EU legislation

The EU Green Deal



A set of proposals to transform EU's economy for a sustainable future and reduce greenhouse gas by at least 55% by 2030 (compared to 1990 levels) and to achieve their zero net emissions by 2050

Metals' regulatory path for sustainability: 2023 & beyond



BR – Batteries Regulation
– final text published →
work on the secondary acts



WSR – Waste Shipment Regulation
– review on-going



CRM – Critical Raw Materials Act – new law proposed & under discussion



ELV – End-of-Life Vehicles Directive
– review has started



WEEE – Electrical & Electronic Equipment Waste Directive
– review expected 2024



PPWD – Packaging & Packaging Waste Dir.
– review on-going

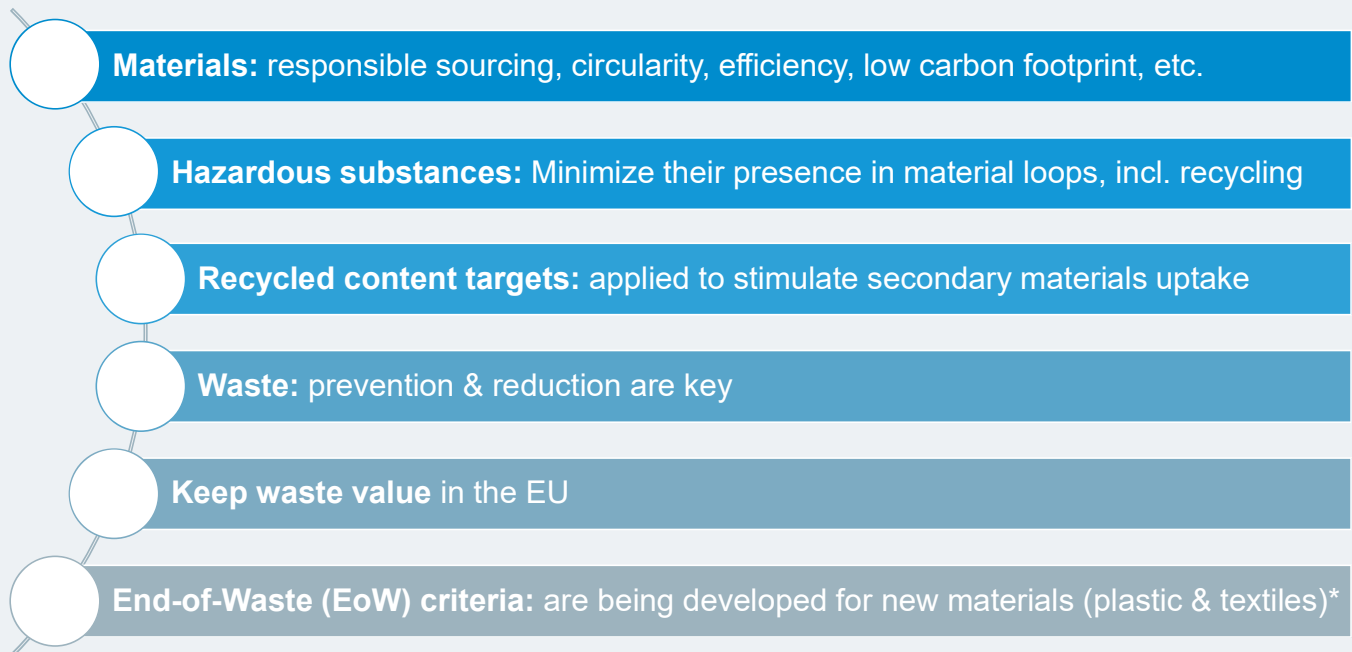


ESPR – Ecodesign for Sust. Products Reg. – new law proposed & under discussion



Provisions on chemicals in various EU regulations (e.g. REACH, RoHS)

EU product & waste regulations – main trends observed



* Existing EU EoW criteria cover already: aluminium, copper, iron & steel scrap, glass cullet

Key aspects for metals' recycling embedded in the EU regulation

	Collection	Recycling and/or recovery	Recycled content	Substances restrictions
Batteries Regulation – final law	X	X	X (Targets for: Co, Pb, Li, Ni)	X Specific procedure to restrict use of substances
End-of-Life (ELV) Directive – legislative proposal	X	X	X (The legislative proposal has it for plastic. For other materials feasibility assessment is needed first.)	X Pb, Hg, Cd and Cr(VI) are prohibited in new cars except in defined exemptions
WEEE Directive – current text	X	X		X via RoHS Directive
Packaging & Packaging Waste (PPWD) Directive – legislative proposal	X	X	X	X No restrictions but minimisation of hazardous subst. presence
Ecodesign for Sust. Products Regulation (ESPR) – legislative proposal		X Product recycling & recovery of materials as product's aspect	X Recycled content as product's aspect	X Proposal to include definition of Substances of Concern (SoC)
Critical Raw Materials (CRM) Act – legislative proposal		X	X Proposal for permanent magnets (e.g. Nd, Dy, Pr, Tb)	



3. Challenges & way forward

Recycling limits & solutions

- **Metals long average lifetime** in the economy (e.g. 30 years for copper) may create a gap between available secondary material and demand
- **Product design becomes increasingly complex** → *design for recycling*
- **Product 2nd life** (via repair, reuse, remanufacturing, repurposing, etc.) → *careful considerations whether to extend product lifetime or to recycle it*
- **Collection** is still too low vis-à-vis the official targets (e.g. WEEE, batteries, ELV) → *improve separate collection of certain waste streams, raise consumer awareness*
- **Sorting** → *investments into the state-of-the-art technologies*
- **Recycling infrastructure** → *needs to get ready for new, complex waste streams of meaningful volumes expected in 10-15 yrs time (e.g. EVs & its batteries, PV panels)*
- **Shipment of waste within the EU** → *must be facilitated combined with a fast-track shipment procedure to pre-consented facilities and supported by the e-system to exchange documents*
- **Scrap leakage** → *has to be prevented by reinforcing controls at the EU borders*

On-going & future revisions of the EU waste & product legislation must address these factors



4. Conclusions

Conclusions

Collection, sorting & recycling

- Direct waste to the right collection channels (e.g. separate collection for e-waste, batteries, etc.)
- Maximum collection & sorting of all metal-containing waste is key
- Recycling must be:
 - Done according state-of-the-art technologies & be ready for the new waste streams
 - Maximised to deliver metals for 2050 EU Green Deal objectives

Coherent legislative framework

- Many dossiers are at the legislative proposal stage, either as a newly proposed law or scheduled/undergoing revision
 - *The best moment to call for coherence of all sustainability aspects (Circularity, Criticality, Climate contribution, Chemicals) across EU policies*

2024 – Elections to the EU institutions: the EU Parliament (June) and the EU Commission (Q3-4)

THANK YOU

Kamila SLUPEK
Sustainability Director
slupek@eurometaux.be

 [@Eurometaux](https://twitter.com/Eurometaux)

www.eurometaux.eu

Avenue de Tervueren 168, Box 13 | B-1150 Brussels | Tel: +32 (0) 2 775 63 11 | eurometaux@eurometaux.be

Al Aluminium	Cu Copper	Ni Nickel	Pb Lead	Zn Zinc	Au Gold	Ag Silver	Pt Platinum	Sb Antimony	Be Beryllium	Si Silicon	Co Cobalt	Mo Molybdenum	V Vanadium	Sn Tin	Pd Palladium	Ru Ruthenium	Re Rhenium	Os Osmium	Ir Iridium	W Tungsten	Ta Tantalum	Ge Germanium	Se Selenium	Ga Gallium	Cr Chromium	Mg Magnesium	Li Lithium
-----------------	--------------	--------------	------------	------------	------------	--------------	----------------	----------------	-----------------	---------------	--------------	------------------	---------------	-----------	-----------------	-----------------	---------------	--------------	---------------	---------------	----------------	-----------------	----------------	---------------	----------------	-----------------	---------------