

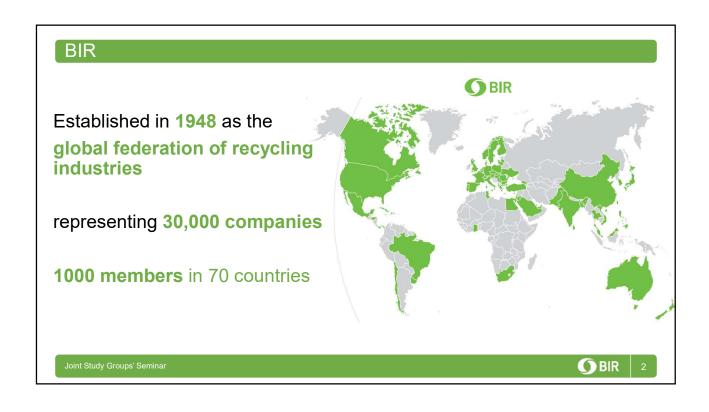


Maximising the Efficiency of Metals Recycling

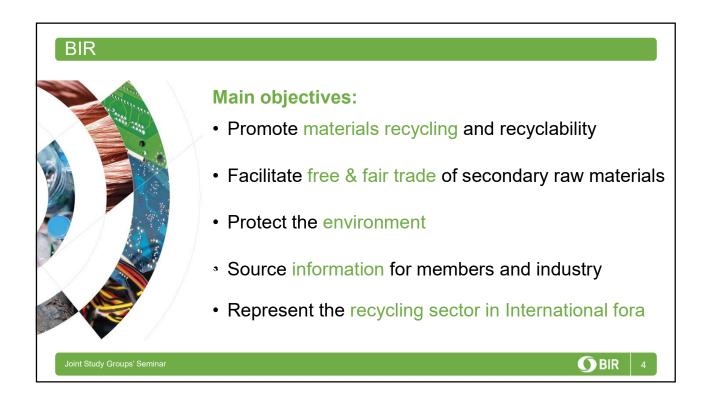
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Alev SomerBIR Trade & Environment Director

BIR - THE GLOBAL FEDERATION OF RECYCLING INDUSTRIES







Metals recycling

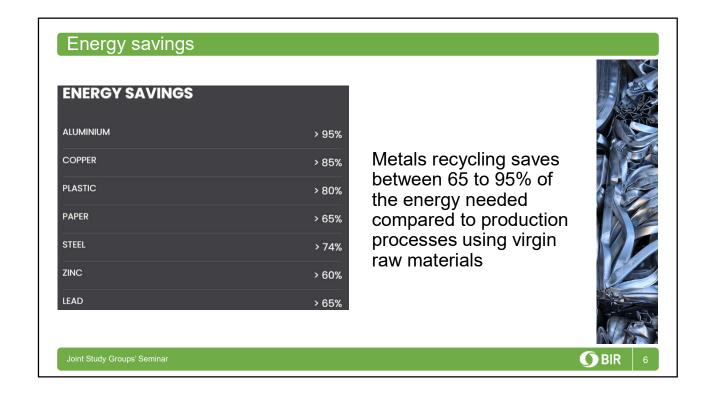
- Metals do not degrade or lose their chemical properties in the recycling process
- They can be recycled an infinite number of times
- Value chains are already largely circular
- Environmental benefits in terms of resource, energy, and CO2 savings resulting from the use of secondary materials





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Carbon footprint

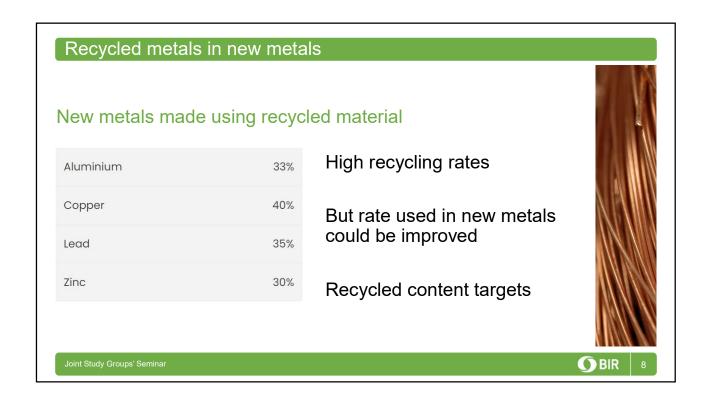
Carbon footprint for primary & secondary production

Material	Primary (ktCO ₂ e)	Secondary (ktCO ₂ e)	Savings (ktCO ₂ e/100,000t)	% Savings (CO ₂ e)
Aluminium	383	29	354	92
Copper	125	44	81	65
Ferrous	167	70	97	58
Paper	0.17	0.14	0.03	18

- Metals mining contributes to 10% of global GHG emissions
- Recycling industry is a forerunner in decarbonisation and in transitioning to "green" metals

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Positive long-term demand outlook

- Investments in the Middle East & North America
- New capacities for production of recycled aluminium for extrusion, automotive and packaging applications
- Increasing demand with EVs, digital & green energy technologies
- China's reopening following its prolonged period of tight COVID-related restrictions will eventually bring a recovery and revamping of consumption and production levels



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Role of recycling in meeting future demand for metals

Metals industry shifts to produce more from scrap to reduce carbon footprint

Scrap is an **internationally traded commodity** which benefits from **access to global markets**

- Key in suppressing industry emissions
- > Reduces primary resource consumption
- ➤ Part of **global efforts** to lower CO2 emission



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Conclusion – how to maximise the efficiency of metals recycling

- Recycled content targets to accelerate demand for recycled metals & level the playing field with extracted raw materials
- Recognition of Environmental Benefits to incentivise the environmental advantages of using recycled metals
- Collection targets & enhanced technologies to ensure effective recovery of materials
- Removing trade barriers to ensure market equilibrium and balance supply, to promote free & fair trade, and to support global climate change mitigation & circularity objectives

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