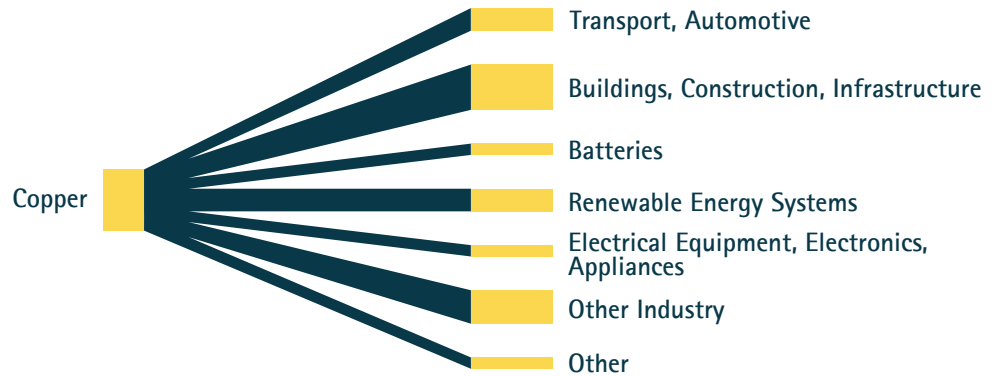


# METALS ECOSYSTEM AND CIRCULARITY: COPPER'S ROLE

**METALS ARE STRATEGICALLY IMPORTANT TO EUROPE'S VALUE CHAINS AND AT THE FOREFRONT OF LOW-CARBON SOLUTIONS**



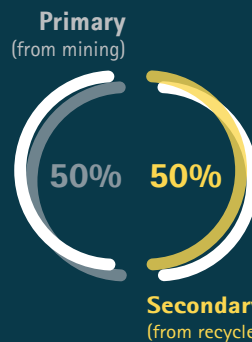
**CIRCULARITY IS AN INTRINSIC PART OF THE BUSINESS MODEL OF EUROPE'S METALS INDUSTRY**

## Copper

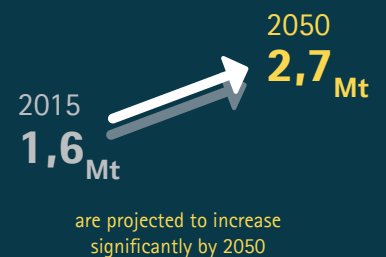


is a permanent material that can be endlessly recycled

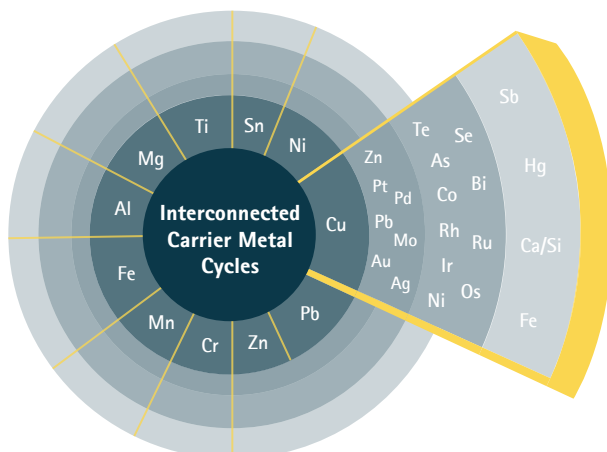
## Copper production in Europe



## European recycling volumes



**EUROPE'S METALS RECYCLING INDUSTRY OPERATES IN AN INTEGRATED ECOSYSTEM**



- Copper is a 'carrier metal' for a wide range of other non-ferrous metals – refining and recycling of copper is, therefore, Europe's most important route to access precious and critical metals.
- State-of-the-art recyclers are able to recover 20+ metals from complex copper products and applications.
- Copper metallurgy is used as the starting point for recycling electronics waste and other complex products.

- Essential carrier metals
- Highly valuable co-elements that dissolve in the carrier metal and have considerable own production infrastructure
- Valuable co-elements that have no, or limited, dedicated production infrastructure
- Co-elements that end up as residues or emissions