

# RAW MATERIALS 2030: **A RALLYING CALL FOR EUROPEAN RESILIENCE**

A lasting recipe for Europe's Critical Raw Materials Act success over the next six years



Six key ingredients for a 2030 resilient Europe...

- New capacity development
- Reviving production

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- Maximizing recycling
- Securing global supplies
- Greening electricity
  - Increasing skilled labour

### And the best-in-class 'industrial kitchen' for getting us there:



A leading Executive Vice President

- New EU-level finance
- Globally competitive energy
- Regulatory alignment
- $\bigcirc$
- Assertive trade agenda

### Market incentives





# 2030 IS ONLY AROUND 20000 DAYS FROM NOW, AND COUNTING

Our 2030 trajectory is clear: The Critical Raw Materials Act sets ambitious goals for Europe to grow its metals resilience to supply the energy transition. Now, of course, the challenge is delivering on this, and with speed.

We have an achievable, six-part recipe for metals resilience, mapping out what concretely needs to happen before 2030 to really shape Europe's success.

Europe's metals industry is ready to deliver this success: We've got a rich existing industrial base and over 70 supply chain projects, ready to go across 15 countries to achieve the EU's 2030 goals for mining, processing, and recycling. We're committed to the highest environmental performance and delivering real local value.

Yet we're not the only cooks around. We're currently facing an ever-larger competitiveness gap with other regions who have so far better equipped their companies for success. Our industrial ambitions are at risk. **WE CALL FOR** the next European Commission to act with urgency to make sure we in Europe have the same wellequipped kitchen that unlocks us to fully realise our raw materials potential.

That means a flagship Industrial Deal that improves the fundamental business case for Europe's strategic industries, led by a new First Vice President.

# NOW OR NEVER THE NEXT FIVE YEARS WILL DEFINE OUR CONTINENT'S INDUSTRIAL FUTURE

### We want to lead the charge alongside policymakers

The last three years have brought unprecedented geopolitical challenges, with the path to 2030 likely to be an equally turbulent one. Securing the raw materials Europe's climate goals need will be of ever-growing strategic importance.

We have a clear window of opportunity to position resilience at the front and centre of the energy transition. And it's through thriving European industrial value chains and diversified supply that we'll deliver this, with raw materials at the foundation

But where does Europe stand today on this? Unfortunately, not where we need to be. We're currently falling behind in the race for clean technology leadership and relinquishing our core industrial strengths. At home, half of the EU's existing metals capacity and many planned raw material projects are at tangible risk of leakage.

Meanwhile, the US Inflation Reduction Act's incentives provide the simplicity and certainty that Europe can't yet equal. Already, metals investment has started to redirect, with overall investments in US manufacturing doubling since the end of 2021. Japan, South Korea, Canada, and Australia have all announced their own critical minerals investment packages in the last year.

We need a true European solution for industrial growth, avoiding a patchwork of Member State efforts. We need a real leap forward in the clean energy race.

#### **RUSSIAN INVASION**

of Europe's aluminium, zinc, silicon capacity taken offline by the energy crisis

2022

**FEB** 





# **ACLEAR RECIPE:** SIX KEY INGREDIENTS FOR A 2030 RESILIENT EUROPE

The Critical Raw Materials Act's 2030 production goals set the right trajectory. We're ready to cook up Europe's metals resilience here, with over 70 projects across 15 European Member States. But what does that look like in practice?

We propose a clear six-part recipe to ensure Europe's raw materials resilience, which we will report on in the next six critical years up to 2030. This recipe must be delivered while nurturing what we already have, setting the groundwork for further projects and action towards 2050.

## **OPENING NEW CAPACITY**

Taking a quantum leap forward

Despite a growing project pipeline, we have opened no mines in the last 15 years, and only a handful of refining and recycling plants.

#### Europe needs to open a minimum of:





recycling facilities

mines

for key strategic raw materials - with high sustainability perfomance



# **REVIVING PRODUCTION**

Restoring our strong industrial base

Europe already has a vibrant metals industry, but we've been hit hard by the energy crisis, with 50% of our aluminium, zinc, and silicon production switched off today

Europe needs to bring back online:





Today, we're on track to have the recycling capacity we need, yet leakage of our metals waste is still too high.

#### Europe needs to ensure a:



**increase in recycling's supply contribution**, per material wherever feasible, through collection, sorting, shipment improvement 2030 indicators are based on KU Leuven's 2022 Metals for Clean Energy study and further industry data sources. They are designed as feasible goals for Europe to aim for, reflecting the current project pipeline and industrial base in Europe.



# SECURING CLOBAL SUPPLY

Funding for the partnerships we need

Today, in contrast with our global competition, the EU funds no raw materials projects in resource-rich third countries.

#### Europe needs to fund at least:



third-country raw materials-related projects through the Global Gateway programme or other tools on the basis of priority strategic partnerships and a robust trade strategy

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## **DECARBONISING ELECTRICITY**

Providing access to abundant, decarbonised electricity

Metals is Europe's most electrified industry, yet currently misses the decarbonised electricity it needs.

#### Europe needs to supply:



of globally competitive, decarbonised electricity

to its strategic metals supply chains (The equivalent to the Netherlands' annual consumption)

6

### **INCREASING SKILLS** Training and attracting skilled workers

to bridge the skills gap

If we continue on our current course, we'll face a critical shortage of skilled workers.

Europe needs to train: 1000000s

# RESILIENCE POTENTIALS EUROPE'S 2030 RAW MATERIALS PROJECT PIPELINE

Through securing final investments and reviving production, Europe can meet some or all of its Critical Raw Materials Act benchmarks for aluminium, cobalt, copper, lithium, nickel, and silicon. More projects are still needed for EU 2030 goals, especially for midstream refining, e.g. graphite, manganese, gallium, germanium, magnesium, rare earths

**EUROPE'S MINING POTENTIAL** (% of 2030 mined needs) From opening new mines and expanding existing ones



For some critical metals, like platinum group metals, Europe only needs to strengthen the strong base and trade links it already has. A thriving metals ecosystem will ensure Europe's resilience not only for the metals designated as strategic or critical, but also all those others necessary for our transitioning economy - from zinc to lead to silver.

#### EUROPE'S PROCESSING POTENTIAL (% of 2030 processed needs)



From opening new processing plants and reviving curtailed capacity

Europe = EU + EEA, Lower aluminium, silicon production today reflects idling of smelters.

### Europe's 2030 projects pipeline for strategic metals and minerals

Note: Electric Vehicle battery recycling projects not included on map, but the main recycling source for lithium, cobalt, nickel, manganese etc.



**EUROPE'S RECYCLING POTENTIAL** (% of 2030 needs) From securing investment and optimising sorting, collection, and shipments



Europe = EU + EEA, silicon also well recycled in aluminium alloys, nickel well recycled in stainless steel



# URGENCY: AN INDUSTRIAL DEAL, LED BY AN EXECUTIVE VICE PRESIDENT

LET'S BE CLEAR, Europe's next policy cycle is 'make or break' for our continent's industrial future in the energy transition.

Introducing an EU Industrial Deal by June 2025 means we'll have fewer than 1,700 days to reach our 2030 raw materials and clean tech targets.

Urgency: Europe simply can't afford to wait a single day longer to put in place a robust EU Industrial Deal led by an Executive Vice President, with a top-down policy agenda implemented across all Directorate Generals.

A truly ambitious EU Industrial Deal means creating a 'European kitchen' that rivals the world. This 'European industrial kitchen' needs five central components to lead the way.

### NEW EU-LEVEL FINANCE

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Europe's clean supply chain goals will require new and simplified EU-level finance to compete against the US IRA and other global programmes.

#### HOW:

- Deliver a **Sovereignty Fund** for manufacturing, including a strong raw materials focus, capable of rivalling our global competitors.
- Set up a **Raw Materials Bank** inspired by the Hydrogen Bank, which provides time-limited output-based support, applicable both to operating and capital costs of strategic projects.
- Introduce a new package of **State Aid guidelines** focused on OPEX as well as CAPEX, including scaling-up critical raw material production, emission reduction projects, and facilitating consumption of decarbonised electricity.

2 GLOBALLY COMPETITIVE ENERGY

#### WHY:

European investment and competitiveness requires real action to address today's ongoing high energy prices, especially for the electricity-intensive raw materials supply.

#### HOW:

- Massively accelerate the **roll-out** of low-carbon, renewable and nuclear energy capacity, including removing barriers to **renewables power purchase agreements** and their uptake by electricity-intensive industries (e.g. shaping and firming costs).
- Create a bridging solution for keeping electricity-intensive industries viable while power prices remain high, **through new tools** and the different national support actions from the last two years ensuring an EU level playing field.
- Preserve the Emissions Trading System indirect cost compensation scheme until at least 2030, to partially offset the indirect carbon costs paid even when consuming fully decarbonized electricity.



#### WHY:

Europe's CEOs this year ranked Europe's regulatory complexity and incoherence as its biggest competitiveness barrier.

#### HOW:

• Deliver an overall proposal for measures to eliminate contradictions and unnecessary complexity in existing EU legislation.

 Add a clearer focus on investment predictability into Europe's chemicals policy and other upcoming waste/product legislation, while streamlining the implementation of the Green Deal's existing policies.

• Apply caution in the introduction of the **Carbon Border Adjustment Mechanism**, making sure that the mechanism is capable of working as intended, keeping a level playing field for European producers and avoiding excessive costs.

 Apply a systematic competitiveness stress test against which each new policy should be evaluated, including all pieces of legislation awaiting implementation.



#### WHY:

As geopolitical tensions escalate, Europe needs to secure its place in the new global order, especially for responsible securing critical raw materials.

#### HOW:

- Strengthen the use of EU trade defence measures to address proven global distortions in raw materials supply chains, including faster protection for those most at risk of dumping – as well as other trade policy tools.
- Launch a dedicated Global Gateway raw materials investment plan for financing overseas projects in the EU, backed by the European Investment Bank, export credit agencies, development finance institutions, and others.
- Act further to keep strategic raw materials recycled in Europe especially through the right classification and shipment facilitation for emerging waste streams like battery black mass.



#### WHY:

Europe needs to incentivise its downstream industries to buy higher cost low-carbon and local materials, especially those strategic raw materials most vulnerable to global pricing shifts.

#### HOW:

- Publish a dedicated **strategy on low-carbon products**, using evidence-based methodologies for lifecycle carbon accounting.
- Evaluate the use of **Contracts for Difference** to ensure stability for prospective producers of specific critical raw materials which are the most vulnerable to global pricing distortions from China's market dominance.
- Propose VAT exemptions or other market incentives for products supplied with low-carbon materials and/or locally-produced strategic raw materials.

# GETTING THE LONG-TERM PATHORSUSTAINABLE MATERIALS

**WE ARE** actively supporting the European Commission's delivery of a Metals Industry Transition Pathway later in 2024, to ensure these six ingredients are delivered coherently with the wider Green Deal.

The energy transition away from consumable fossil fuels is also a materials transition towards permanent metals that will remain in circulation for decades. This has major lifecycle benefits. But to ensure sustainability, Europe must address the potential for adverse impacts at each stage of the metals lifecycle.

#### Achieving 2050 Minimising our direct Ensuring responsibility Involving our local communities climate-neutrality environmental footprint across global supply chains Maintaining a transparent dialogue Integrating decarbonised Controlling our emissions to air, Using due diligence and electricity to reduce our carbon water, and soil, while keeping certification schemes to with the communities around our footprint by 81%, combined with our workers healthy guarantee high ESG standards operations, addressing their condirect emission breakthroughs from our global suppliers cerns and ensuring local benefits



**WE ARE** striving to be responsible material stewards for the energy transition, from the mine through multiple product lifecycles.

Europe's resilience goals are an opportunity to take better control of raw materials sustainability, avoiding unhealthy dependencies.

WE ARE committed to mine, process and recycle the EU's strategic metals with a best-in-class footprint, minimising impacts of the energy transition on environment and health. For us, the **Circular Economy** is a major long-term driver in improving Europe's self-sufficiency

Further advancing our recycling technologies and processes

Working with customers on reducing material intensities

Minimising waste across our operations

# MEMBERS

### **Commodity Associations**

European Aluminium	Nickel Institute	International Lead Association	Euromines
International Copper Association Europe	European Precious Metals Federation	International Zinc Association	Cobalt Institute
National Members			
Agoria Belgium	BAMI Bulgaria	Johnson Matthey UK	WVMetalle Germany
Association of Finnish Steel	A3M France	Norsk Industri Norway	WKO Austria
and Metal Producers	ElvalHalcor Greece	Metaal Nederland	
Assomet Italy	IGMNiR Poland	Alro Romania	
Associate Members			
European Powder Metallurgy	Arsenic Consortium	Frit Consortium	Selenium/Tellerium Consortium
Association	Boron Consortium	International Lithium Association	Tin Consortium
EuroAlliages	Catalysts Europe	International Molybdenum	Titanium Dioxide Industry
EUROBAT	European Carbon and Graphite Association	Association	Consortium
International Antimony Association		IMAT	Borates Consortium
Recharge	European High Temperature Insulation Wool Industry	Iron Consortium	International Platinum Group Metals Association
Vanitec		Rare Earth Consortium	

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Eurometaux - European Association of Metals Avenue de Tervueren 168 1150 Brussels, Belgium eurometaux@eurometaux.be @Eurometaux **Eurometaux** is the united voice of European non-ferrous metal miners, processers, transformers, and reyclers - representing over 1000 production sites and projects, and employing 500,000 workers. Our materials supply the energy and digital transition, and we are committed to responsibility and security for Europe.