

## A presentation in three parts

- Defining Europe's raw materials challenge
- 2 Brand new information on where we are today in meeting the raw materials challenge
- 3 Three key steps the EU must take to make sure we reach our Green Deal goals together in 2030



### The energy transition is a commodities transition

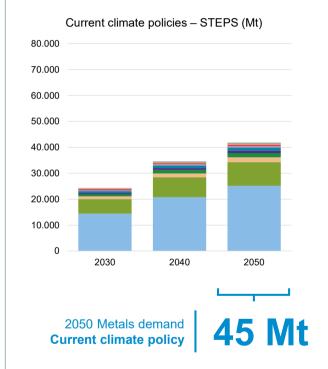
### Fact

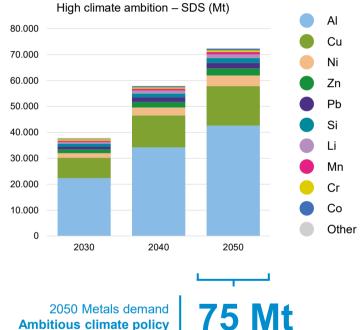
The faster the world decarbonises, the higher its metals requirements



By how much?

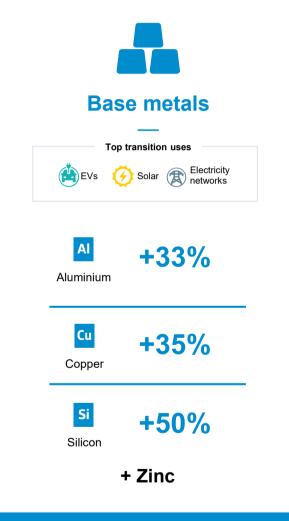
#### Total metal demand by commodity in a STEPS and SDS scenario respectively (Mt)

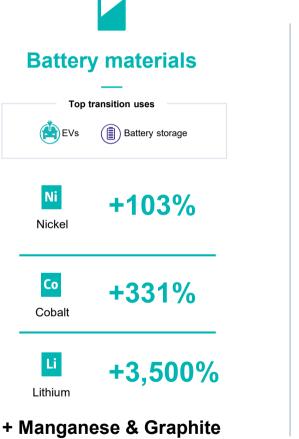




2050 Metals demand **Ambitious climate policy** 

### **Europe's energy transition =** Massive increase in metals demand by 2050







### Challenge 1

How can we overcome the ever-growing gap between metals demand and supply in the next 15 years?



( Wind

# Copper

**39 Mt** global demand in 2040\* (+ 53% from today)

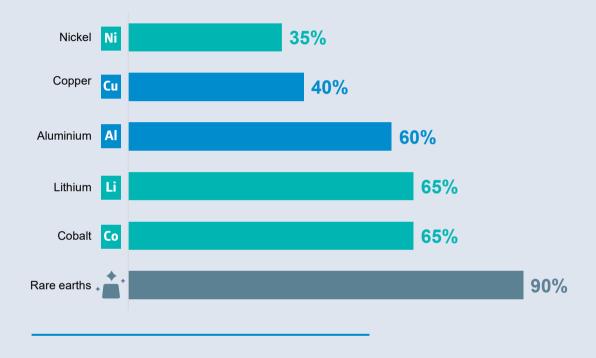


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### Challenge 2

How can we avoid filling Europe's demand gap only with imports from unsustainable single suppliers?

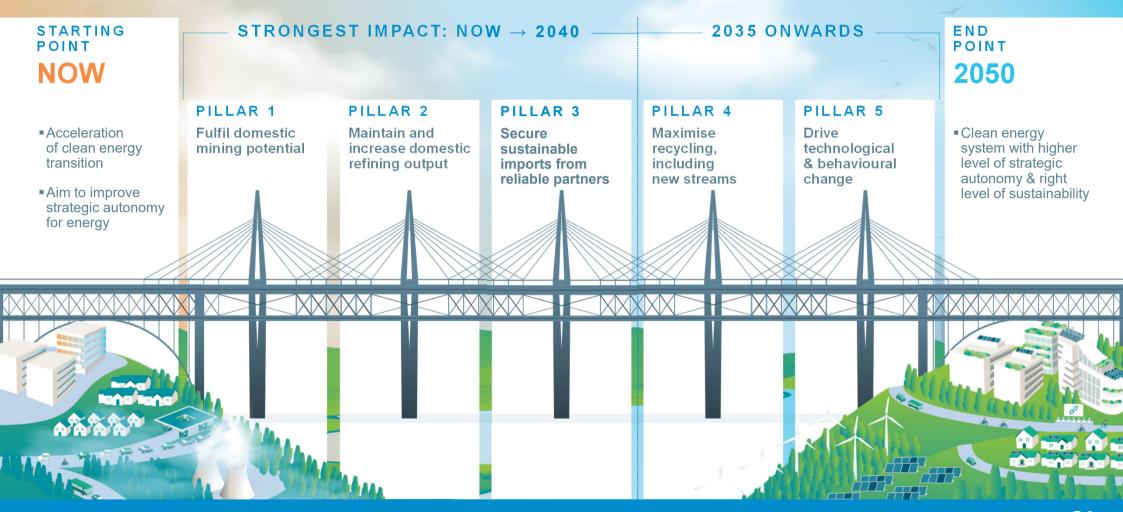
### China's share of global processing



### + Control of:

- 15 out of 17 DRC cobalt mines
- Majority of Indonesian nickel
- Growing South American lithium assets

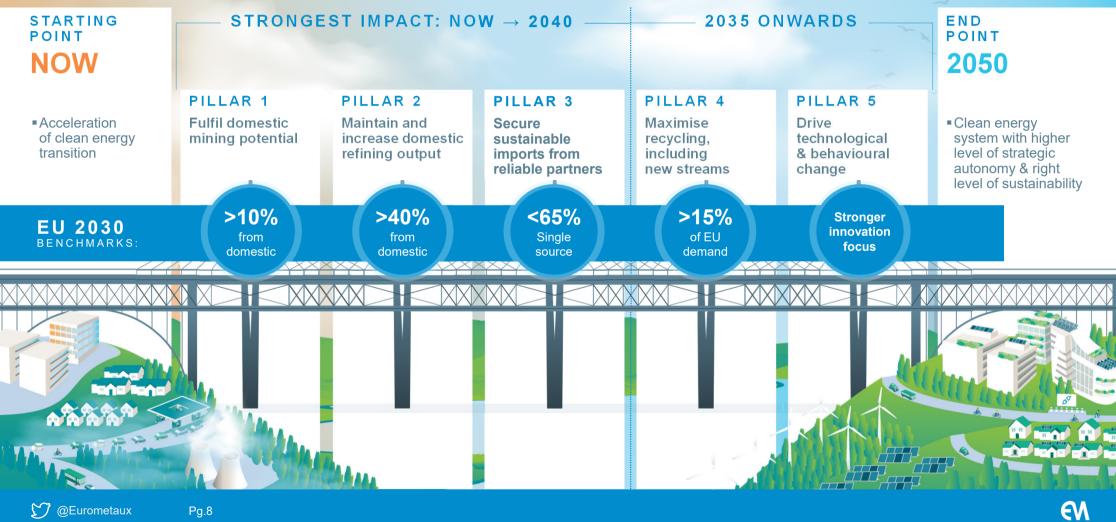
### Five necessary pillars for Europe's metals & clean energy bridge



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### **EU Critical Raw Materials Act: 2030 targets for building this bridge**



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The burning question for our work ahead

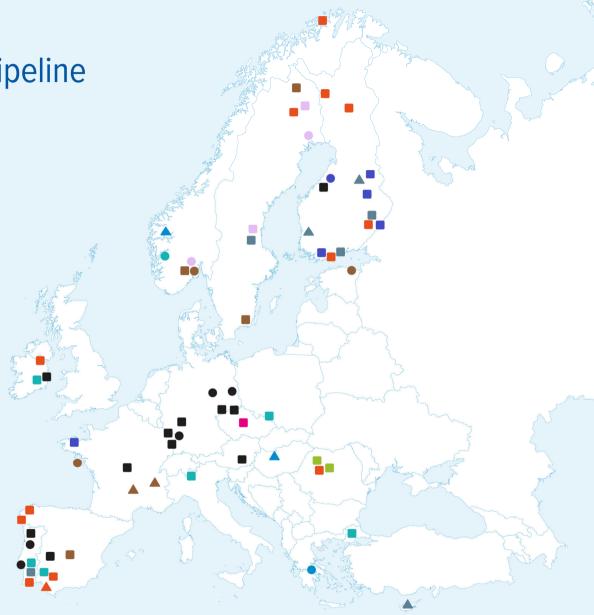
# To what extent is Europe on track in meeting these four 2030 benchmarks?

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

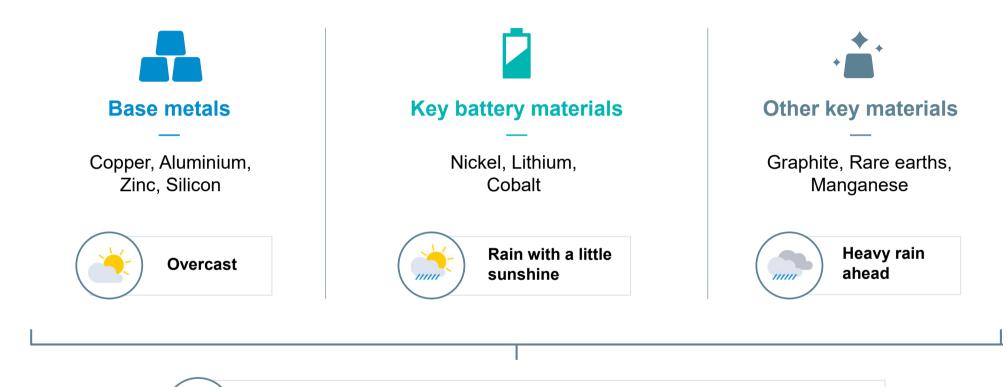




Note: Electric Vehicle battery recycling projects not included on map, but the main recycling source for lithium, cobalt, nickel, manganese etc.



## Europe's 2030 potential is there, but what's the current forecast?



And we all know the energy crisis has brought major thunderstorms for everyone

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# Base Metals: Existing EU capacity mostly already exceeds 2030 benchmarks



	F	Production Goals	<b>Diversification goals</b>		
2030 EU SUPPLY PROJECTIONS	MINING	PROCESSING	RECYCLING	MINING (TOP IMPORTER)	PROCESSING (TOP IMPORTER)
cu Copper	35-40%	85%	55%	20%	20%
Zn Zinc	30-50%	100%	40%	20%	-
Al Aluminium	3%	43%	45%	<b>65%</b> (Guinea)	20%
si Silicon		73%	4%		40%

# **But** the energy crisis has brought existential storms





EU aluminium & zinc capacity offline in 2023



EU silicon capacity offline in 2023

30%

### Priority question

Can Europe afford to deindustrialise further?

Key battery metals: 2030 benchmarks are mostly achievable if uncertain projects are taken forward by latest 2025

2030 EU SUPPLY POTENTIAL	MINING	PROCESSING	RECYCLING	1 <sup>st</sup> Supplier Mining	1 <sup>st</sup> Supplier Processing
Ni Nickel	Up to 22%	Up to 50%	15%	50%	30%
Lithium	0-39%	Up to 54%	10%	-	55%
Co Cobalt	Up to 7%	Up to 40%	15%	<b>75%</b> (DRC)	20%

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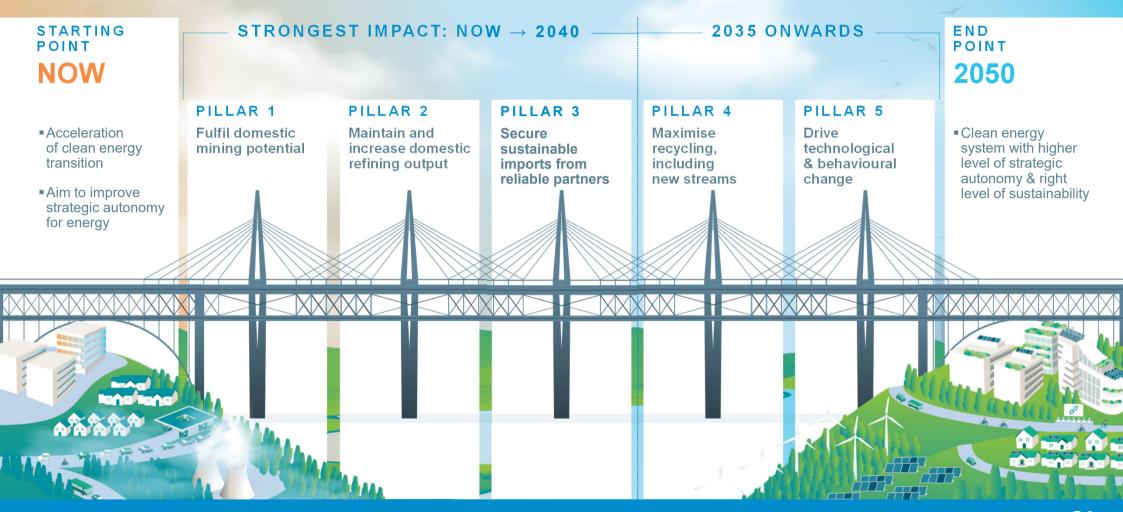
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# Other key raw materials: Europe off track today for meeting 2030 benchmarks



<ul> <li>2030</li> <li>EU SUPPLY PROJECTIONS</li> </ul>	MINING	PROCESSING	RECYCLING	1 <sup>st</sup> Supplier Mining	1 <sup>st</sup> SUPPLIER PROCESSING
Mg Manganese	0-20%	0-20%	10%	-	-
Graphite	0-20%	0-20%	<5%	<b>100%</b> (China)	<b>100%</b> (China)
Rare earths	0-20%	0-20%	0%	<b>100%</b> (China)	<b>100%</b> (China)
Mn Magnesium	0-20%	0-20%	15%	<b>100%</b> (China)	<b>100%</b> (China)

### Whatever the forecast, Europe's raw materials bridge must be built



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How can we create the strong foundation for a lasting raw materials bridge?



### OPERATIONAL COMPETIVENESS

### PERMITS THAT WORK FOR ALL

EU: A STRONGER GLOBAL PLAYER

Action to address high EU capital / operating costs

EU-level Critical Mineral Fund, inspired by IRA's clarity and simplicity (+ *energy costs!*) Effective streamlining to fix today's 10 year project delays

Accelerated permitting timelines while keeping environmental checks

A stronger global agenda, securing supplies while keeping level playing field

Valid EU alternative to China "resources at all costs" model + action on global distortions

## **Read more!**



www.eurometaux.eu/metalscleanenergy



POLICYMAKER SUMMARY