



# Welcome 2023 EIT-Label Students!

Dr. Fabio Ferri | Label Induction Days 2023  
Education manager at EIT Raw Materials

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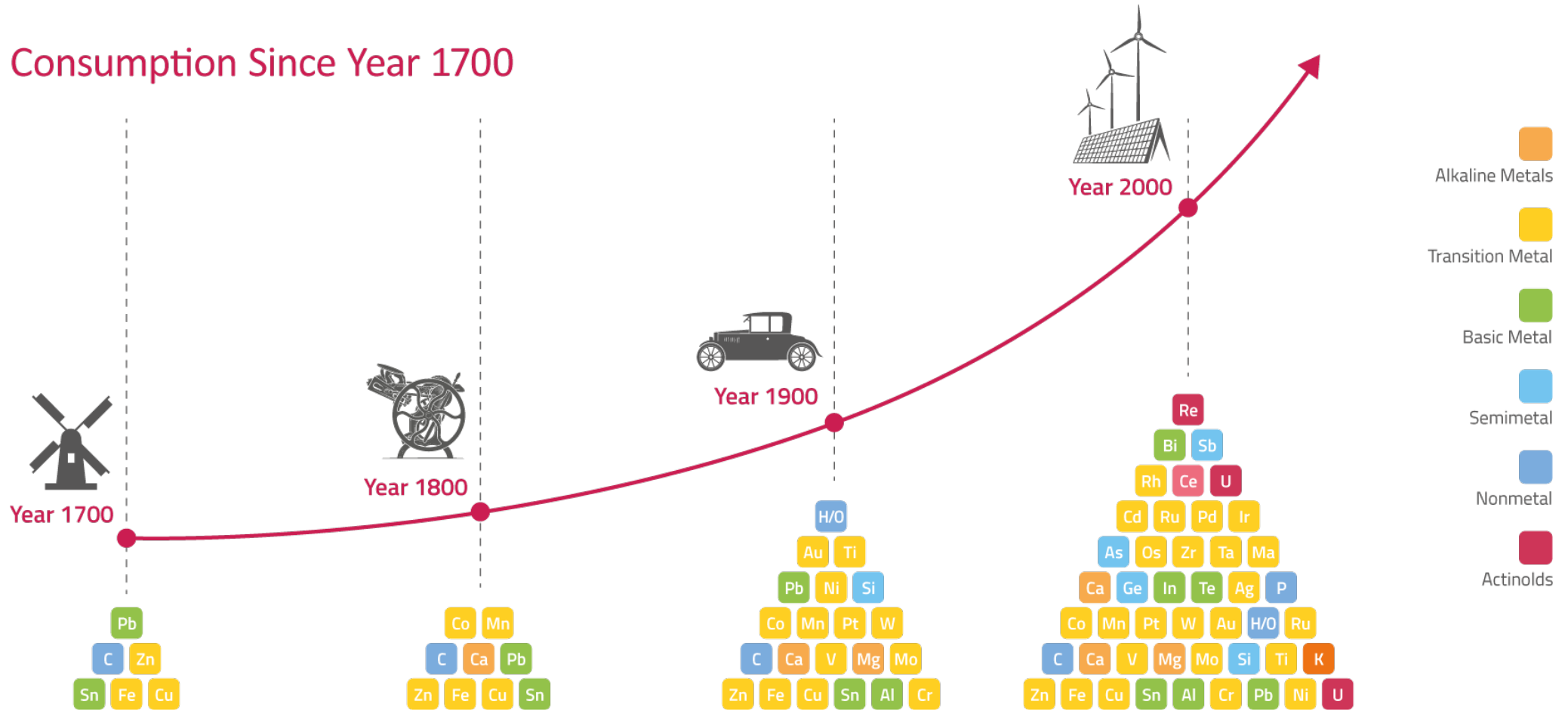
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Why are raw materials  
important for society?

# CONSUMPTION OF MINERAL RAW MATERIALS

## Consumption Since Year 1700



# EIT RAWMATERIALS AND UN SDGS

Metals, minerals and raw materials and sustainable management of natural resources, are essential in securing the transition to green energy technologies and achieving UN SDGs.

## SUSTAINABLE DEVELOPMENT GOALS





# MATERIALS FOR SUSTAINABILITY

## Photovoltaics



## Wind Energy

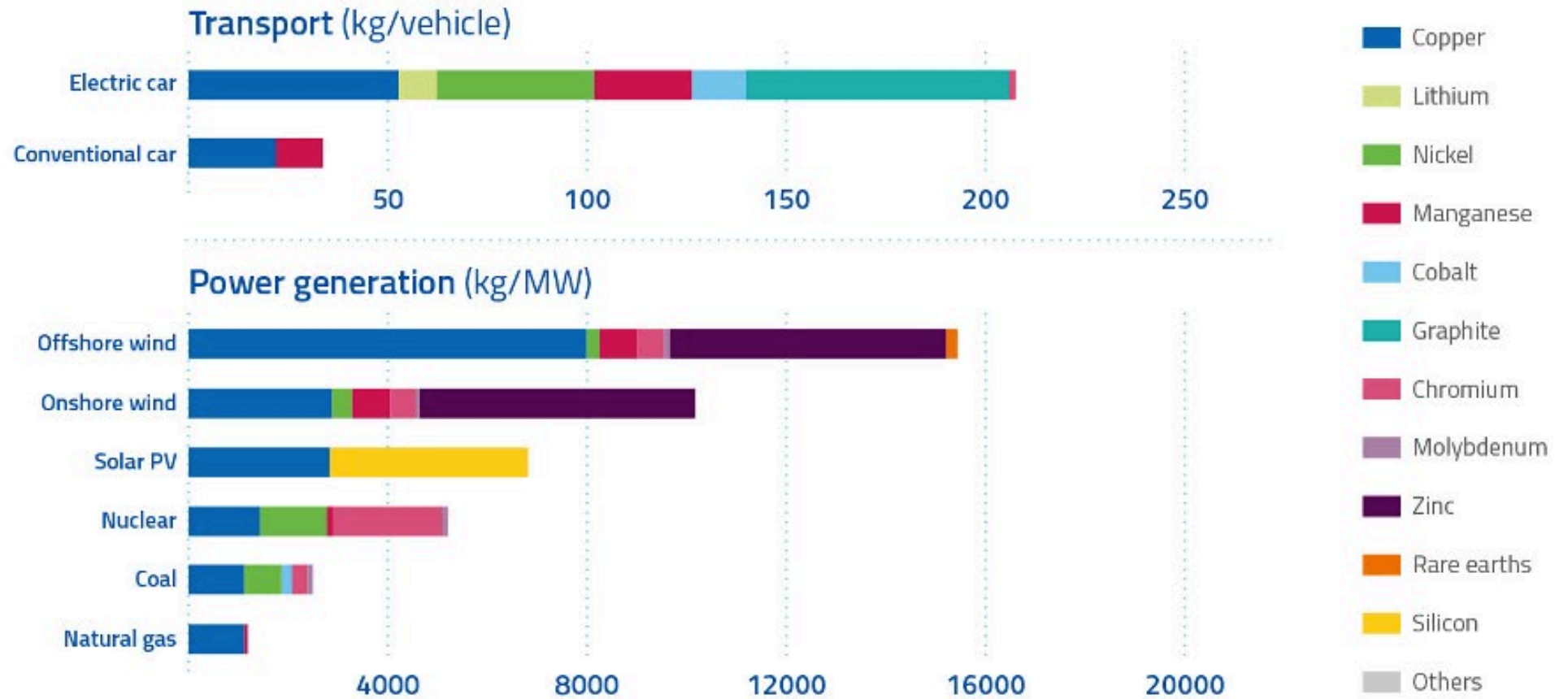


## Electric vehicle



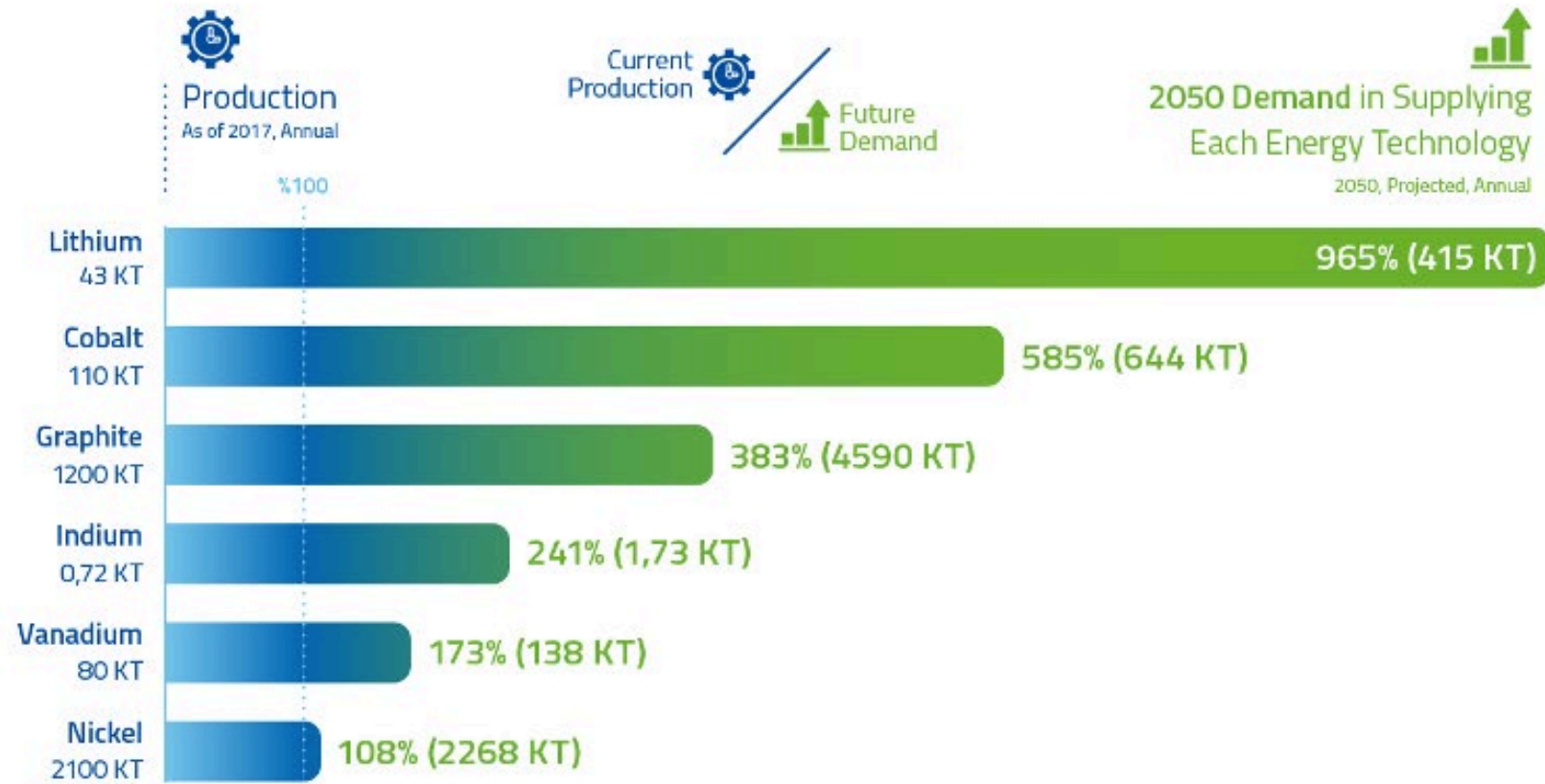
# A GREEN ENERGY TRANSITION MEANS SIGNIFICANT MINERAL USE GROWTH

Minerals used in selected clean energy technologies



Source: IEA

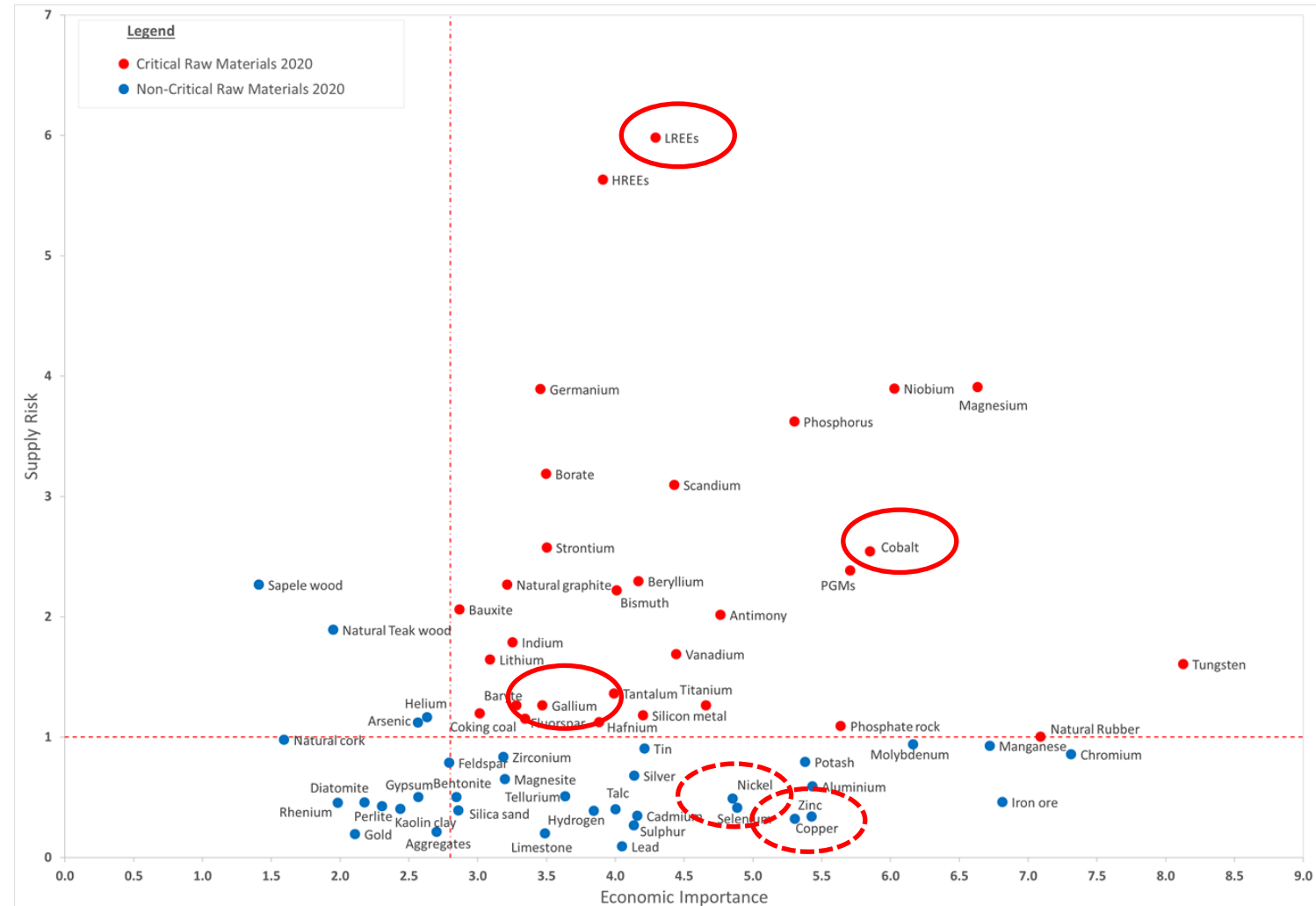
# GREEN ENERGY TRANSITION CREATES A GROWING DEMAND FOR MINERALS AND METALS



Source: World Bank Group 2019 "Climate Smart Mining" infographic

# VULNERABILITY TO SUPPLY?

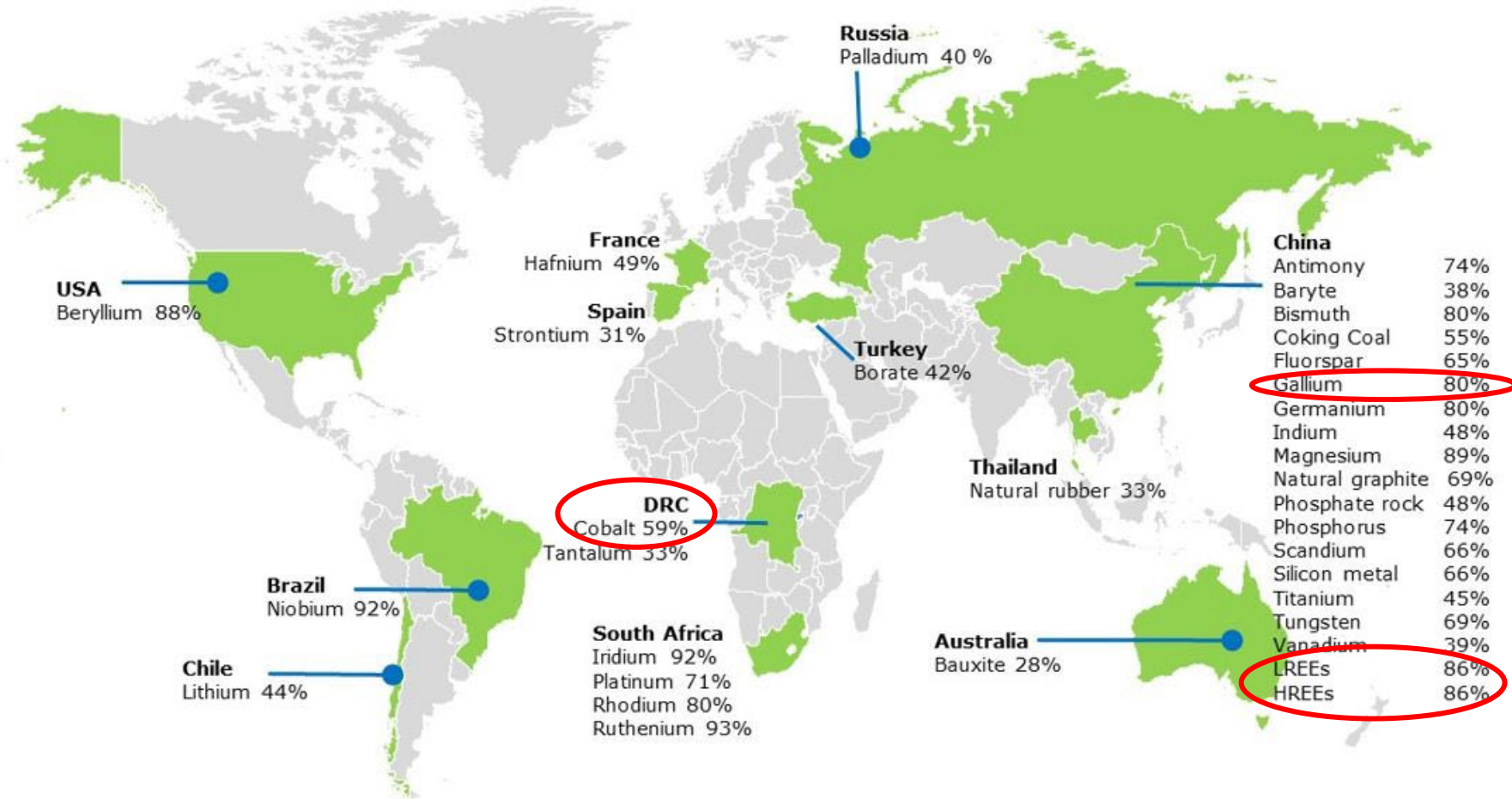
- Nexus of supply risk and economic importance
- Supply risk
  - Primary producers
  - Import reliance
  - EOL recycling rates
  - Substitutability
- Economic importance
  - Value added to the economy



Source: JRC report on the 2020 list of critical raw materials for the EU



# SUPPLY RISK: GLOBAL SUPPLY OF MATERIALS TO THE EU



Source: European Commission report on the 2020 criticality assessment





WE POWER INNOVATORS  
AND ENTREPRENEURS TO  
DEVELOP INNOVATIVE  
SOLUTIONS TO GLOBAL  
CHALLENGES AND CREATE  
GROWTH AND JOBS FOR EUROPE

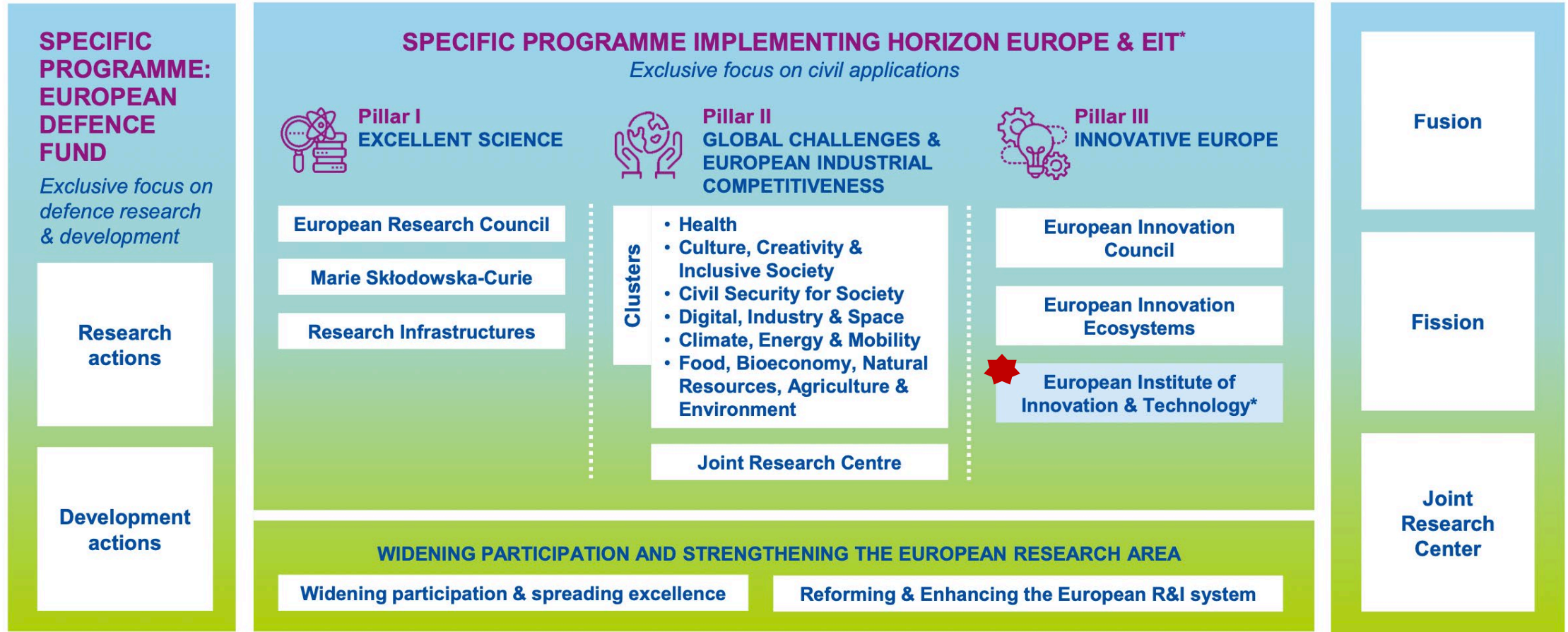


European Institute of  
Innovation & Technology

The EIT is a body of the European Union





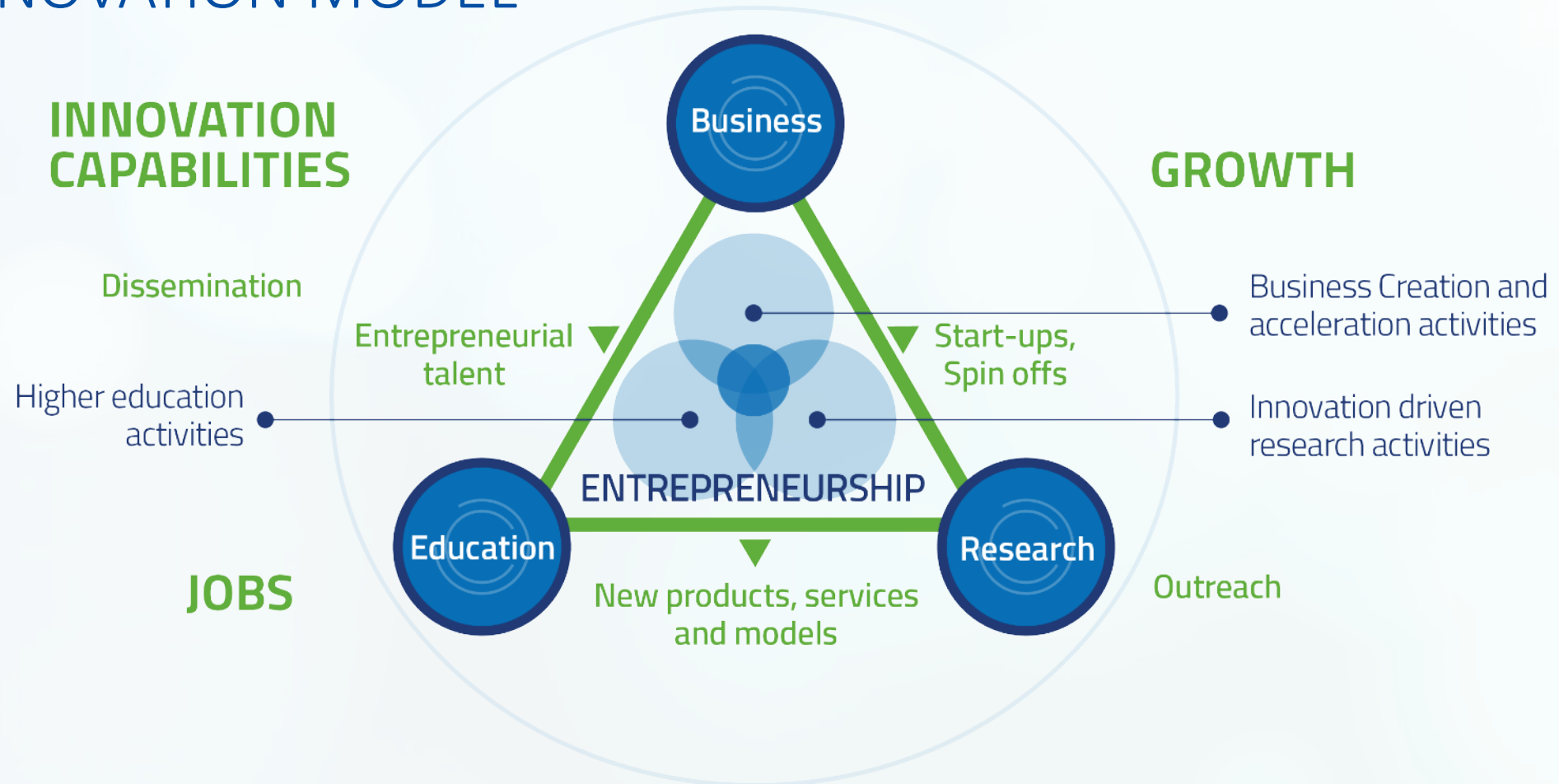


\* The European Institute of Innovation & Technology (EIT) is not part of the Specific Programme

Source: [https://research-and-innovation.ec.europa.eu/system/files/2022-06/ec\\_rtd\\_he-investing-to-shape-our-future\\_0.pdf](https://research-and-innovation.ec.europa.eu/system/files/2022-06/ec_rtd_he-investing-to-shape-our-future_0.pdf)



# EIT INNOVATION MODEL





# EIT KNOWLEDGE AND INNOVATION COMMUNITIES

2010



**EIT Climate-KIC**

Accelerate the transition to a zero-carbon economy



**EIT Digital**

Drive Europe's digital transformation



**EIT InnoEnergy**

Achieve a sustainable energy future for Europe



**EIT Health**

Give EU citizens greater opportunities for a healthy life

2015



**EIT RawMaterials**

Develop raw materials into a major strength for Europe

COMING SOON!



**EIT Water**

Contribute to a circular and sustainable water economy

2022



**EIT Culture & Creativity**

Unite Europe's creatives

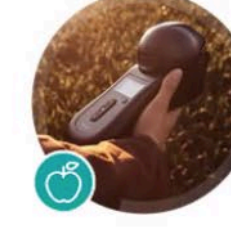
2019



**EIT Urban Mobility**

Smart, green and integrated transport

2017



**EIT Food**

Lead a global revolution in food innovation and production

# RAW MATERIALS: KEY ENABLERS FOR EUROPE'S GREEN TRANSITION

## Brown Economy

**Fossil Fuels** for combustion engines, generators and power stations: oil, gas, coal

## Transition

## Green Economy

**Functional Materials** in e-motors, energy storage, energy conversion containing, for example, Co, Li, Pt, REE, Ge, Ga, Si, V



# A PAN-EUROPEAN PARTNER NETWORK

- World's largest community in the raw materials sector
- Over 300 partners from industry, academia and research
- 22 EU countries
- 16 locations across Europe (4 more hubs by 2027)
- Headquarters in Berlin, Germany



- Countries covered by EIT RawMaterials
- EU countries
- Innovation Hub
- RIC (Regional Innovation Center)
- RIS HUB (Regional Innovation Scheme)

# INNOVATION THEMES



## EXPLORATION

AND RAW MATERIALS RESOURCE ASSESSMENT



## MINING

IN CHALLENGING ENVIRONMENTS



## PROCESSING

INCREASED RESOURCE EFFICIENCY IN MINERAL  
AND METALLURGICAL PROCESSES



## RECYCLING

AND MATERIAL CHAIN OPTIMISATION OF  
END-OF-LIFE PRODUCTS



## SUBSTITUTION

OF CRITICAL AND TOXIC MATERIALS IN PRODUCTS  
FOR OPTIMISED PERFORMANCE



## CIRCULAR ECONOMY

DESIGN OF PRODUCTS AND SERVICES FOR  
THE CIRCULAR ECONOMY



# WORLD'S LARGEST INNOVATION COMMUNITY IN THE RAW MATERIALS SECTOR

Industry



# WORLD'S LARGEST INNOVATION COMMUNITY IN THE RAW MATERIALS SECTOR

## Research and Technology Organisations



# WORLD'S LARGEST INNOVATION COMMUNITY IN THE RAW MATERIALS SECTOR

## Universities





# INNOVATION, EDUCATION AND ENTREPRENEURSHIP ACTIVITIES

## MATCHMAKING & NETWORKING

**Digital platform:**  
RM InfoCenter

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**Events:**  
RawMaterials Summit,  
Expert Forums

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**Matches:**  
Alumni Community  
Internationalisation

## ACCELERATION

Up-scaling Innovation  
Projects

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Start-up Booster

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RM Accelerator

## ACADEMY

Master Education  
PhD Education

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Lifelong Professional  
Education

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Wider Society  
Learning

## LIGHTHOUSES

## CROSS-KIC ACTIVITIES

## REGIONAL INNOVATION SCHEME (RIS)



# EIT RawMaterials Academy

# INNOVATION IN EDUCATION – RAW MATERIALS ACADEMY

The RawMaterials Academy strives to educate the raw materials game-changers of the future and ensure that Europe cultivates a society of learners contributing to a strong EU raw materials base.

- **Master and PhD Programmes:** Strengthen students' technical expertise while fostering entrepreneurial and innovation skills and a problem solving mindset.
- **Lifelong Professional Education:** Courses offer education for raw materials professionals based industry needs.
- **Wider Society Learning:** Aims to raise awareness among young students (16-18 years) to ensure the availability of professionals in the future.



# 9 EIT-LABELLED MASTER PROGRAMMES



Master in Resources Engineering



Master in Sustainable & Innovative Natural Resource Management



Master in Raw Materials Value Chain



Master in Advanced Materials for Innovation and Sustainability



Master in Raw Materials Exploration & Sustainability



Master in Mineral Exploration



Master in Sustainable Materials

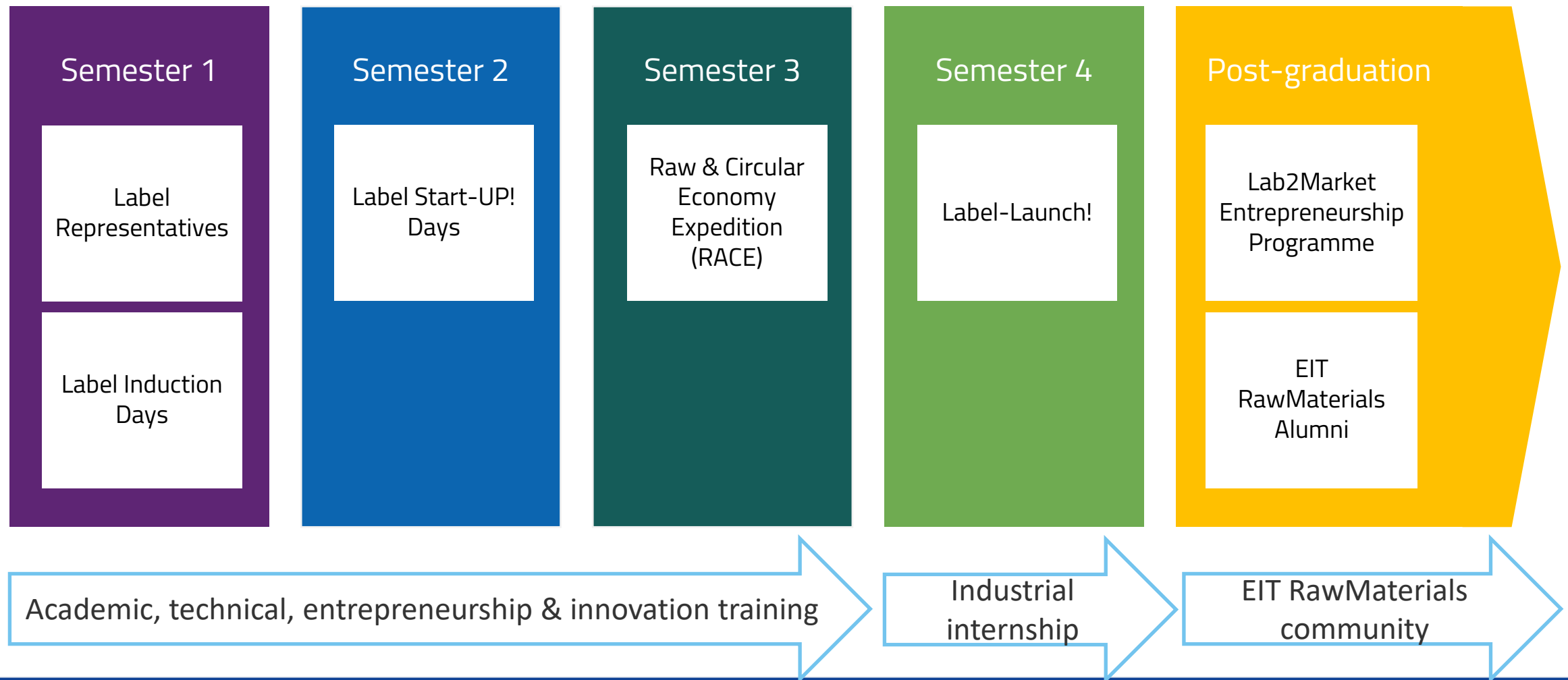


AMIR master  
Master in Advanced Materials Innovative Recycling



Master in Entrepreneurship, Innovation & Technology in Mining

# EIT-LABEL BRINGS TOGETHER STUDENTS FROM 9 MASTER PROGRAMMES



# Label Induction Days Semester 1



# Label Representatives Semester 1

# LABEL REPRESENTATIVES

## – INTERFACE BETWEEN STUDENTS AND THE ACADEMY

- Ownership of one the key Label events – Label-StartUP!
- Support in organising Label-Launch! Graduation Ceremony
- Communication interface between Academy & your Label peers/programme
- Each programme/cohort has a Label Representative

### Step 1: Call for Nominees – Oct/Nov 2023

- Academy publishes Call for representatives and terms of reference
- Interested Label students submit Application
- Academy and LSB2022 members to answer questions

### Step 2: LSB Elections – Nov/Dec 2023

- Label students in each programme vote on their candidates
- Label student with most votes per programme will be elected
- Academy announces results in Nov/Dec

### Step 3: LSB Board Kick Off – Jan/Feb 2023

- Kick Off Meeting, combined with LSB2021 final meeting with Academy
- Meet last year's board
- Get to know LSB2023 members
- LSB action plan for Label-StartUP!

# LSB2020 FINAL MEETING, 2022





# NEXT STEPS

Interested in becoming a Label Representative for your programme?

- Be sure to specify this on your enrolment survey (coming up!)
- Get in touch with [Priya.Kumar@eitrawmaterials.eu](mailto:Priya.Kumar@eitrawmaterials.eu)
- Look out for an email from your programme coordinator
- Even if you're not standing for Label Representative, be sure to vote for your choice of candidate!

# LABEL INDUCTION DAYS 2023 - EIT-LABELLED PROGRAMMES SURVEY

SCAN THE QR CODE  
OR USE THE LINK BELOW TO TAKE THE SURVEY

<https://eitrm.eu/InductionDays2023>





# Label-StartUP!

## Semester 2

# LABEL-STARTUP! DAYS

EIT RM supported start-ups will be invited to participate and provide their testimonial experience on how to set up a company; how to fail and how to start again; how does a "day in the life of a RM entrepreneur" look like

Takes place alongside the EIT RawMaterials Summit, Europe's premier raw materials event

Work on challenges set by the participating start-ups and present your work to the entrepreneurs

Support you with matching and networking with start-ups – internships, thesis research projects

Costs covered by EIT RawMaterials (up to 150 EUR travel costs per participant reimbursed)

Programme will be developed by the EIT RawMaterials Academy and Label Representatives



# LABEL-STARTUP! DAYS 2023



15-16 May 2023 in Berlin



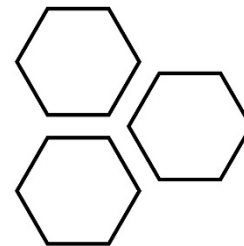
60 participants from 6 labelled programs



6 EIT RawMaterials supported start-ups - providing challenges, inspiration & presentation of internship and thesis opportunities



10 Pitches



# Raw & Circular Economy Expedition (RACE) Semester 3

# RACE IS DESIGNED FOR SUSTAINABILITY PIONEERS

The RACE is a **2-week challenge-based learning programme** across the raw materials value chain that unites sustainability pioneers to **connect, learn, and innovate** for the pressing, raw material challenges Europe's Green Transition.



**50%**

of programme is **groupwork**  
Student teams develop **business solutions** to pre-defined challenges

## study tours

to see European excellence at Partner facilities

## 2-week

learning journey along the Raw Material supply chain

Expert Lectures

Study tours

HR sessions

Groupwork

Pitching ceremony



5 team leaders – PhD, young researchers





# RACE 2022 TESTIMONIALS

Check on social media: #EITRACE

“That was absolutely fantastic, everything was perfectly organized and the quality of all the presentations given by the speakers was very impressive! great job! <3”

“This RACE event is definitely the best experience I have had in my life. The organisation was top tier. The site visits we had were very informative, especially LKAB (the best visit). Taught us of the work that goes into planning a mine and how difficult it is to move an entire community just so iron ores can be mined. All the organisers were amazing. And all participants were really friendly and helpful. I am truly honoured to have been selected for this event I have met amazing people through this and I am eternally grateful for that”

“Overall, RACE 2022 was indeed a beautiful experience and I would not trade the event for anything”

“It was excellent there is no other word to say”



# RACE 2023

The Raw and Circular Economy Expedition

22 July – 5 August



RawMaterials  
ACADEMY

Co-funded by the  
European Union



# Label-Launch!

## Advancing Your Career

### Semester 4



# LABEL-LAUNCH! 2022

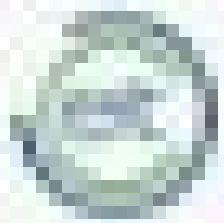
Watch the video: <https://youtu.be/6CM7ovWWJJE>



# LABEL-LAUNCH! GRADUATION CEREMONY

- Label pre-graduation ceremony for all Label graduates
- Learn valuable skills to launch your career
  - Interview skills
  - CV writing
  - Networking
- Network with industry professionals
- Programme will be developed by the EIT RawMaterials Academy and Label Representatives





Erasmus+

Label - Launch!



Erasmus+  
Erasmus+  
Erasmus+  
Erasmus+



# Lab2Market programme





# lab **2**market



Co-funded by the  
European Union



# WHAT IS IT

EIT's Lab2Market is a year-based innovation programme, designed to provide students in the raw materials sector with all the skills necessary to create successful solutions for their research and help them transform their ideas into start-ups.

## 01

The 1<sup>st</sup> EIT RM Innovation Programme for Labelled Students

## 02

A hands on experience to begin their entrepreneurial journey

## 03

Step-by-step guidance to launch a startup

## 04

A direct connection with the market and EIT RM Network



# EIT RM Lab2Market Programme

Cohort 1 2023



## Phase 1 & 2 Metrics

### Bootcamp Trainings

50+ hours in total

### Coaching Sessions

250 hours of 1:1 mentoring

### BRL Improvement

From no idea to BRL 6

### TRL Improvement

From TRL 2 to TRL 4



# Winners





Co-funded by the  
European Union



Lab2Market 2023 – Cohort 2 | P...

Apply by January 16, 2024

[View Submission Instructions](#)

#### DESCRIPTION

The RawMaterials Lab2Market Programme objective is to generate spin-offs and new sustainable solutions through the outcomes of research, knowledge and experience of EIT-Labelled Master Programs students, EIT-Labelled Master Programs Alumni and the European PhD student community in the RawMaterials sector.

Use the form bellow to edit or finalize your submission.

Note: This submission is in draft mode. Click [here](#) to submit and finalize

3688

This submission's unique ID.

#### 1. Project Name

If you could launch a start-up based on your research or idea, what would you call it?\*

Untitled Submission

#### A. General Info [\(Click to view less/more...\)](#)

#### 2. Representative First Name\*

Please note, that the representative (the one submitting this form) should be eligible for submitting in the Programme (e.g., an enrolled student in an EIT-Labelled master's programme).

Max Length (chars - including spaces): 50, Min Length (chars - including spaces): 2

#### 3. Representative Last Name\*

**Cohort2 selection now open – deadline 16<sup>th</sup> January 2024**



# MORE SUPPORT FOR ENTREPRENEURS

## Jumpstarter:

Idea of innovation that can make an impact in the raw materials sector – across all innovation themes

## Accelerator:

3-stage programme for start-ups that consider they already have an innovative offering (at TRL4-6)

## Booster Call:

For Start ups and SMEs



# EIT RawMaterials Alumni



# WHAT IS EIT RAW MATERIALS ALUMNI?

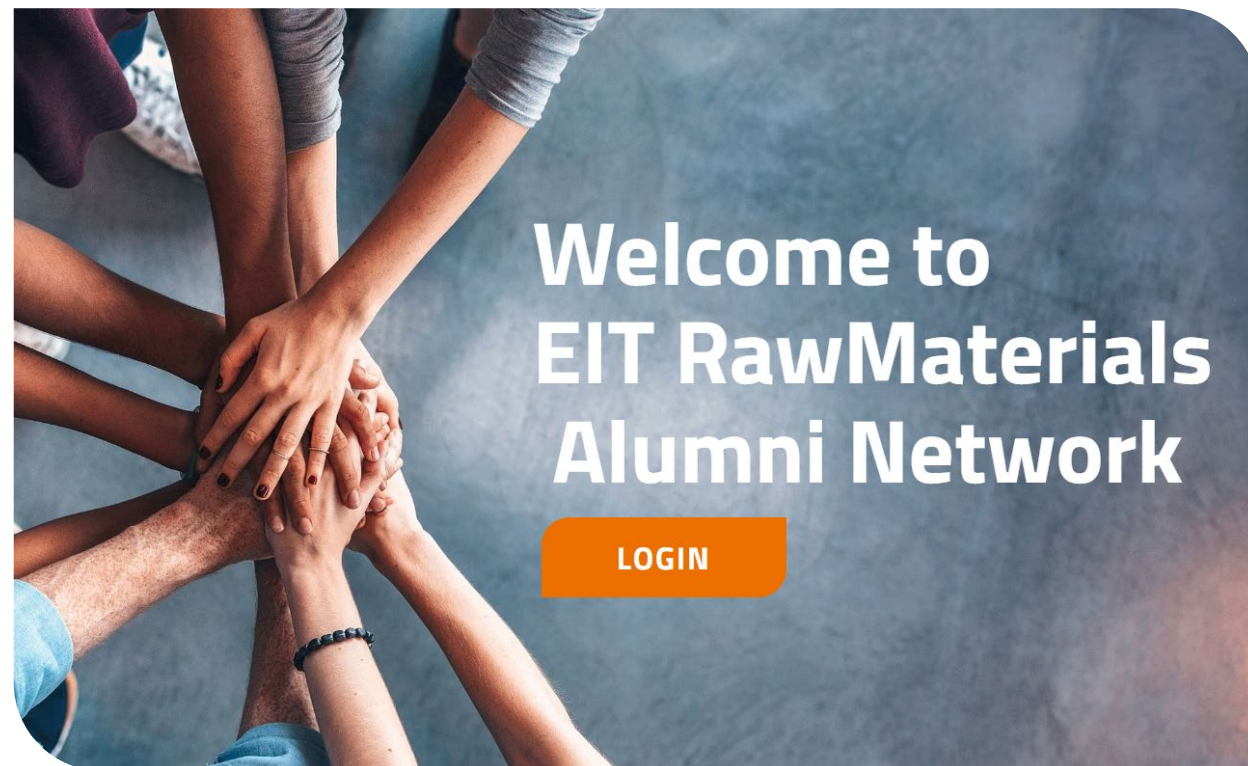
- a professional network for individuals
- over 900 members and counting
- unites participants from acceleration, business creation and education activities, such as Jumpstarter, Labelled programmes, short courses and events

# INVITATION TO EIT RAWMATERIALS ALUMNI

## The platform for those connected to the EIT RM

- new events, services and opportunities to connect beyond the lifetime of projects
- help to access existing events and services for students and jobseekers
- access to industry advisors and career development opportunities

[alumni.eitrawmaterials.eu](https://alumni.eitrawmaterials.eu)



# GET UPDATES FROM RM ACADEMY & JOIN ALUMNI NETWORK!

SCAN THE QR CODE TO DOWNLOAD THE APP  
OR USE THE LINK BELOW TO SIGN UP

[alumni.eitrawmaterials.eu](https://alumni.eitrawmaterials.eu)

- Be sure to use your programme name
- Await acceptance to the group then link your profile to LinkedIn







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[eitrawmaterials.eu](http://eitrawmaterials.eu)



EITRawMaterials