



# Raw Materials in Horizon Europe

# Materias primas en Horizonte Europa

Jornada Informativa Convocatorias y Programa de Trabajo 2021-2022

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# Raw Materials in Horizon 2020 (2014-2020)

**~ EUR 600 mln budget**

|                            |             |             |
|----------------------------|-------------|-------------|
| Exploration                | 9 projects  | EUR 55 mln  |
| Extraction                 | 17 projects | EUR 146 mln |
| Processing                 | 23 projects | EUR 191 mln |
| Substitution               | 6 projects  | EUR 36 mln  |
| Reuse, recycling, recovery | 10 projects | EUR 97 mln  |
| Policy support             | 24 projects | EUR 48 mln  |

## Sample topic:

Raw materials innovation for the circular economy: sustainable processing, reuse, recycling and recovery schemes

TOPIC ID:

CE-SC5-07-2018-2019-2020

<https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/ce-sc5-07-2018-2019-2020;callCode=H2020-SC5-2018-2019-2020;freeTextSearchKeyword=;matchWholeText=true;typeCodes=1;statusCodes=31094501,31094502,31094503;programmePeriod=null;programCcm2Id=31045243;programDivisionCode=31047972;focusAreaCode=null;geographicalZonesCode=null;programmeDivisionProspect=null;startDateLte=null;startDateGte=null;crossCuttingPriorityCode=null;cpvCode=null;performanceOfDelivery=null;sortQuery=submissionStatus;orderBy=asc;onlyTenders=false;topicListKey=topicSearchTablePageState>

# EU Action Plan on Critical Raw Materials

- 1 Launch the European Raw Materials Alliance
- 2 Develop sustainable financing criteria for mining
- 3 Develop R&I on waste processing, advanced materials and substitution
- 4 Map the potential supply of secondary CRM from EU stocks and wastes
- 5 Identify investment needs for mining projects that can be operational in 2025
- 6 Develop expertise and skills in mining
- 7 Deploy Earth observation programmes for exploration, operation and post-closure environmental management
- 8 Develop R&I projects on exploitation and processing of CRMs
- 9 Promote responsible mining practices for CRMs
- 10 Develop strategic international partnerships to secure CRMs supply

# Raw Materials in Cluster 4

Three **policy objectives** will be pursued across the cluster, in synergy with other EU instruments and initiatives:

1

Ensuring the competitive edge and autonomy of EU industry

2

Fostering climate-neutral, circular and clean industry

3

A major contribution to inclusiveness

## 10 Key R&I Orientations

9

Circular Industries

10

Low-carbon and Clean Industries

# EU Action Plan on Critical Raw Materials

## Action 3

Launch critical raw materials research and innovation in 2021 on **waste processing, advanced materials** and **substitution**

## Action 4

Map the potential **supply of secondary** critical raw materials from EU stocks and wastes and identify viable recovery projects by 2022

## Action 7

Deploy **Earth-observation** programmes and **remote sensing** for resource exploration, operations and post-closure environmental management

## Action 8

Develop Horizon Europe R&I projects on processes for **exploitation** and **processing** of critical raw materials to **reduce environmental impacts** starting in 2021

## Action 9

Develop strategic **international partnerships** to secure a diversified and sustainable supply of critical raw materials

## Action 10

Promote **responsible mining** practices for critical raw materials

# Raw Materials topics in 2021\*

|   |   |
|---|---|
| 1 | Innovation for responsible EU sourcing of primary raw materials, the foundation of the Green Deal |
| 2 | Building innovative value chains from raw materials to sustainable products                       |
| 3 | Sustainable and innovative mine of the future   |
| 4 | Reducing environmental footprint, improving circularity in extractive and processing value chains |
| 5 | Building EU-Africa partnerships on sustainable raw materials value chains                         |
| 6 | Identifying future availability of secondary raw materials  |
| 7 | Developing climate neutral and circular raw materials   |

\*Draft Work Programme, March 2021

# Raw Materials topics in 2022\*

|   |  |
|---|--|
| 1 | Monitoring and supervising system for exploration and future exploitation activities in the deep sea                           |
| 2 | Technological solutions for tracking raw materials flows in complex supply chains  |
| 3 | Earth observation technologies for the mining life cycle in support of EU autonomy and transition to a climate neutral economy |
| 4 | Developing digital platforms for the small scale extractive industry   |
| 5 | Streamlining cross-sectoral policy framework throughout the extractive life-cycle in environmentally protected areas           |
| 6 | Innovative solutions for efficient use and enhanced recovery of mineral and metal by-products from processing of raw materials |

\*Draft Work Programme, March 2021

# Thank you



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