

EASME

Executive Agency for Small and Medium-sized Enterprises

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UNEXMIN final conference 25 September 2019, Brussels

Raw materials in Horizon 2020 (and beyond)





EU Policy - "Raw Materials Initiative"

- Aim: securing sustainable supplies of raw materials
- Launched in 2008, consolidated in 2011
- Non-energy, non-agricultural raw materials
- Connecting EU external and internal policies
- Integrated strategy (3 pillars)
- Introduced list of 14 Critical Raw Materials (CRM) in 2010, updated 20 CRMs in 2014 updated 27 CRMs in 2017

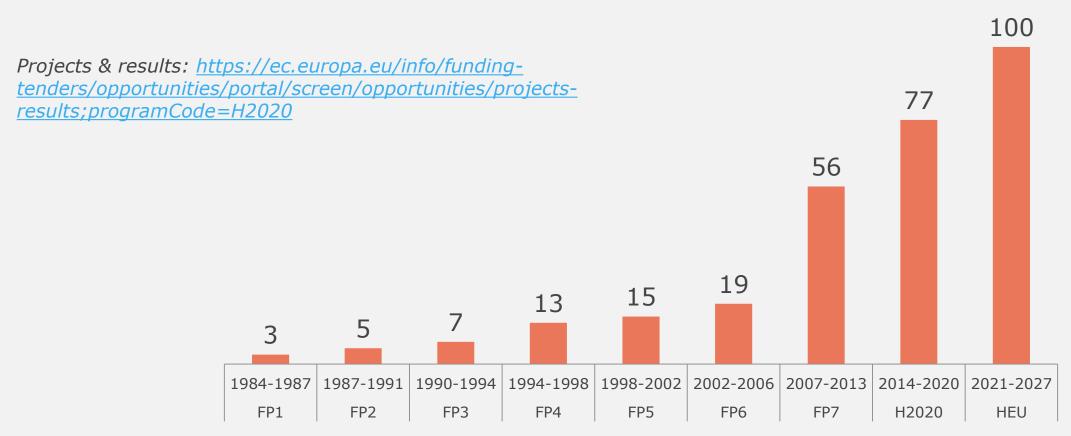
Ensure
level playing field
in access to resource
in third countries

Foster
sustainable supply
from European
sources

Boost resource efficiency and recycling



EU Research & Innovation 1984-2027



Evolution of investment in EU R&I (billion € current prices)



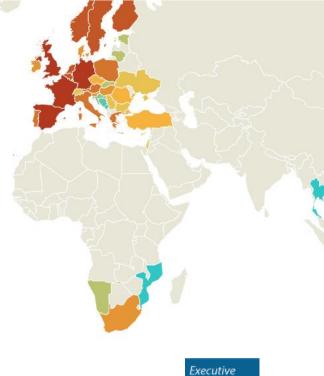


Open to the world

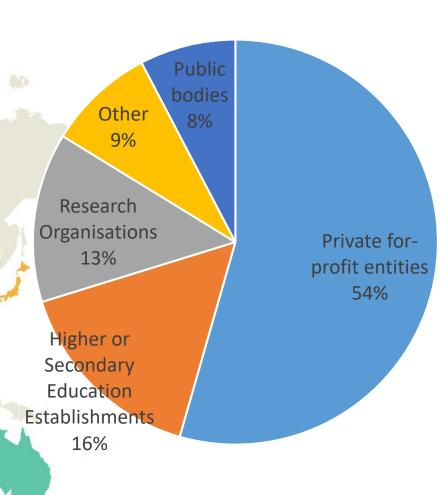
66 projects with 365 million € EU funding 1024 project participations by 668 organisations A majority from the private sector



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for SMEs

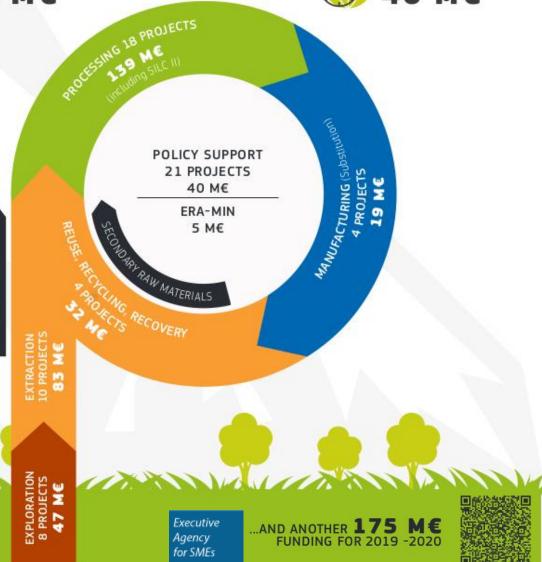








Addressing the whole value chain





EASME data hub: https://sc5.easme-web.eu/?theme=green (filter "raw materials")

Societal Challenge 5 on the EASME website: https://ec.europa.eu/easme/en/horizon-2020-societal-challenge-climate-action-environment-resource-efficiency-and-raw-materials



Agency for SMEs



"solutions developed through industrially- and user-driven multidisciplinary

consortia"



(all technological topics)





Innovation Radar

A data-driven methodology to deliver intelligence about EUfunded innovations and innovators, and their market readiness

Review by means of a questionnaire around 4 main questions:

- What are the highest potential innovations in EU funded R&I projects?
- Who are the innovators behind these innovations?
- What are the 'go to market' needs of any one of these high potential innovators?
- What can the EC do offer to help getting the innovations 'out of the lab and into the market'?

Done by independent expert public on www.innoradar.eu







COMMON SUPPORT
SERVICES FOR
DISSEMINATION,
EXPLOITATION
AND VALORISATION OF
RESEARCH AND
INNOVATION RESULTS

HOW TO APPLY?

If your project was funded under FP7 or H2020, we invite to express you interest via the online submission form: https://ec.europa.eu/research/participants/data/ref/h2020/other/comm/190906_d-e-booster_en.pdf



Timeline to the future

call 2019 - under evaluation

WP 2020 – published; submission deadlines in Feb. 2020

Raw Materials week, November 18-22 2019

Horizon Europe, 2021 - 2027



92 M€ for Raw Materials in 2020





Competitive, low carbon and circular industries

NMBP

- 1. NMBP ERA-NET on materials, supporting the circular economy and Sustainable-Development-Goals
- 2. NMBP Materials life cycle sustainability analysis (RIA)
- 3. SPIRE Tapping into the potential of Industrial Symbiosis (IA)
- 4. SPIRE Preserving fresh water: recycling industrial waters industry (IA)
- 5. SPIRE Alternative mineral resources for high volume production (IA)

SC5

- 6. Develop, implement and assess a circular economy oriented product information management system for complex products from cradle to cradle (IA)
- 7. Raw materials innovation for the circular economy (IA): processing and refining of primary and/or secondary raw materials; recycling of raw materials from end-of-life products & buildings; advanced sorting systems for high-performance recycling of complex end-of-life products, sustainable metallurgical processes
- 8. Raw materials policy support actions for the circular economy: Expert network on Critical Raw Materials (CSA)

SC3

- 9. Low carbon industrial production using CCUS (IA)
- 10. Industrial (Waste) Heat-to-Power conversion (IA)

58 M€

118.5 M€

29 M€





Innovation actions (IA)

Action primarily consisting of activities directly aiming at producing plans and arrangements or designs for new, altered or improved products, processes or services.

For this purpose they may include prototyping, testing, demonstrating, piloting, large-scale product validation and market replication.

A 'demonstration or pilot' aims to validate the technical and economic viability of a new or improved technology, product, process, service or solution in an **operational environment**, whether industrial or otherwise, involving where appropriate a larger scale prototype or demonstrator.

Projects may include limited research and development activities.





Innovation actions (IA)

make sure that research and innovation end up on the market strengthen the competitiveness of the European raw materials industries meet ambitious energy and climate targets for 2030 minimise health & safety as well as environmental impacts and risks apply a circular economy approach throughout the entire value chain gain the trust of EU citizens in the raw materials sector seek additional or follow-up funding within the projects, including from relevant regional/national schemes under the European Structural and Investment Funds (ESIF)





Innovation actions (IA)

facilitate the market uptake of solutions developed through industrially- and user-driven multidisciplinary consortia covering the relevant value chain and should consider standardisation aspects when relevant

justify the relevance of selected pilot demonstrations in different locations within the EU (and also outside if there is a clear added value for the EU economy, industry and society)

include an outline of the **initial exploitation and business plans** (with indicated **CAPEX, OPEX, IRR and NPV**) with clarified management of intellectual property rights, and commitment to the first exploitation







https://ec.europa.eu/easme/en/section/horizon-2020-environment-and-resources/2019-information-days-calls-2020



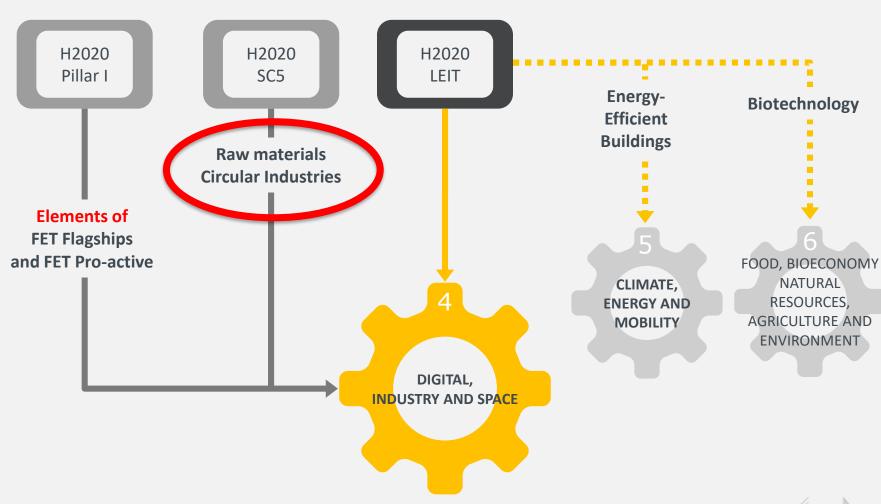


Raw Materials in Horizon Europe Commission



CLUSTER 4









Circular industries, broad lines:

- Industrial symbiosis;
- Valorisation and life-cycle assessment of materials and product streams;
- Eco-designed products, services and business models for enhanced life-cycle performance;
- Effective recycling;
- elimination (or safe handling) of substances of concern;
- sustainable supply of raw materials.







Executive

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be an expert evaluator!!!



Funding and Tenders Portal

http://ec.europa.eu/research/participants/portal/desktop/en/experts/index.html

