



# Research & innovation on raw materials

## Implementation of Horizon 2020 Societal Challenge 5

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# RAW MATERIALS

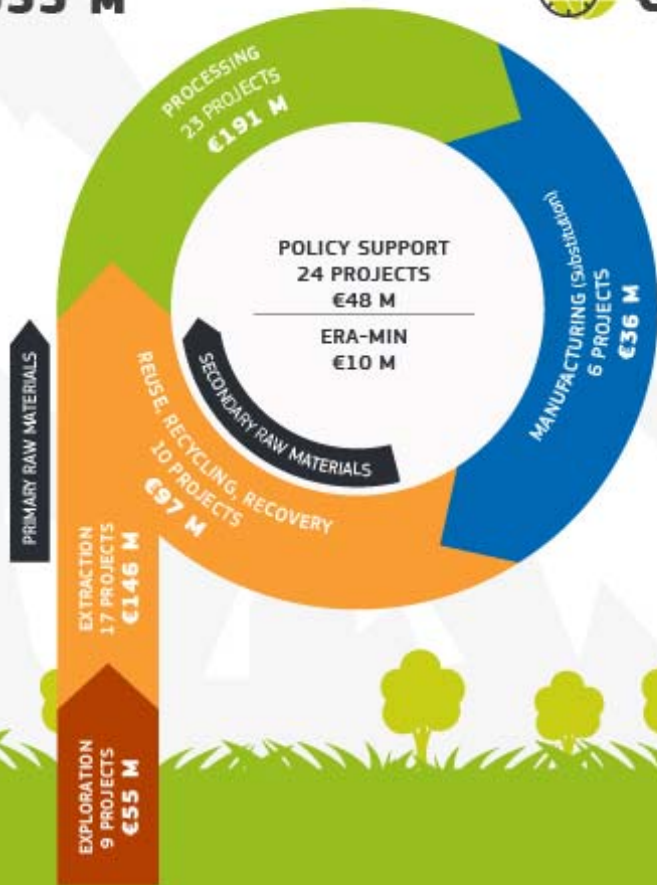
HORIZON 2020



RESEARCH & INNOVATION  
**€535 M**



POLICY SUPPORT  
**€48 M**



## Raw Materials in Horizon 2020

- The Raw Material Initiative's three pillars

Fair and sustainable supply from global markets

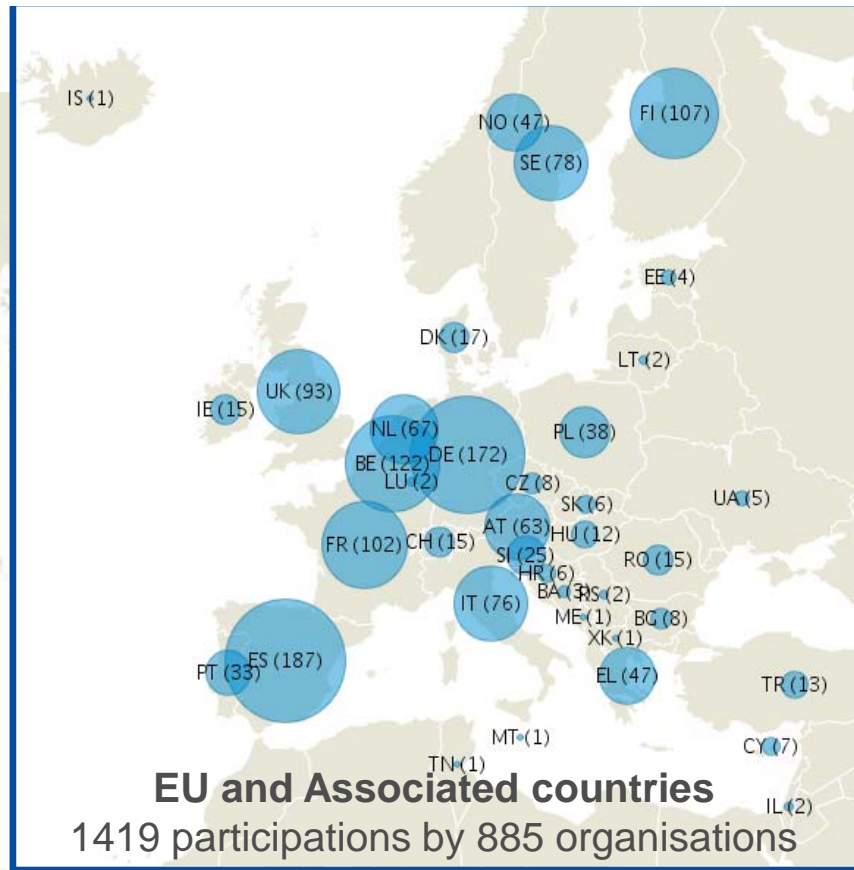
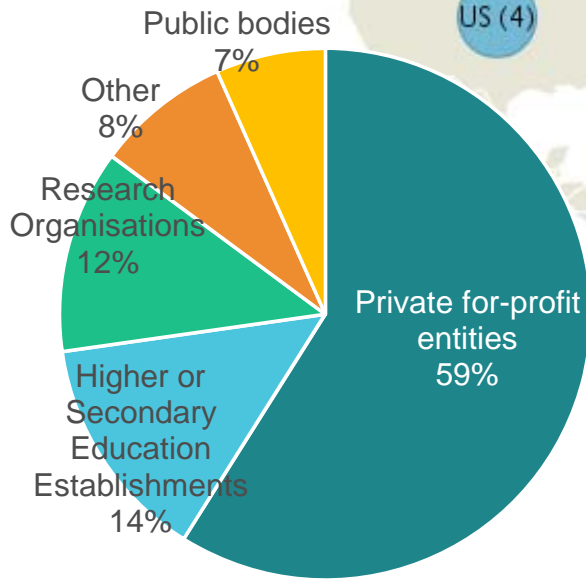
Sustainable supply from European sources

Resource efficiency and recycling

- The Work Programme is based on the Strategic Implementation Plan (SIP) established by the EIP on Raw Materials
- CRM list regularly updated, latest in 2020
- R&I along the whole value chain from extraction to recycling: policy support, R&I and demonstration

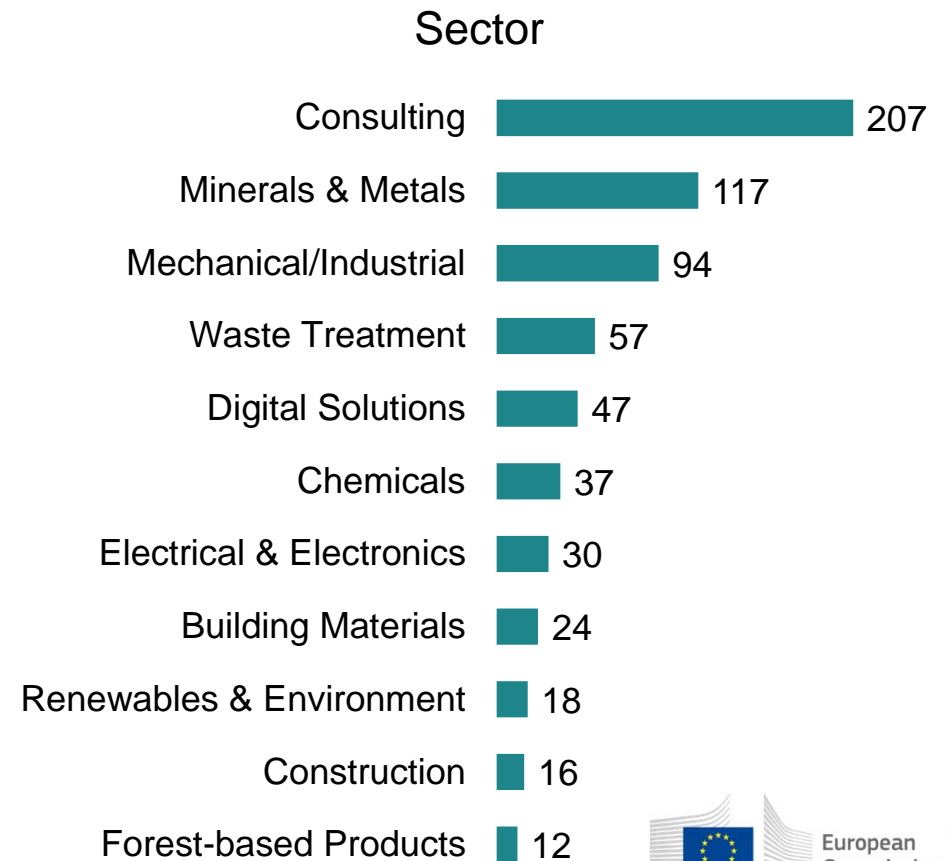
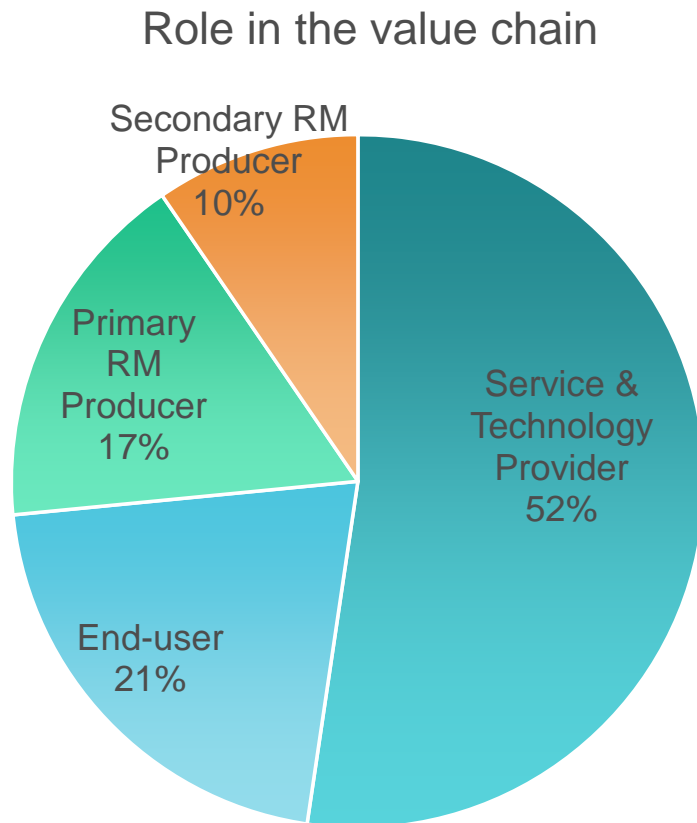
# Participation

- In all 1471 participations from 928 organisations
- International participation encouraged in most topics



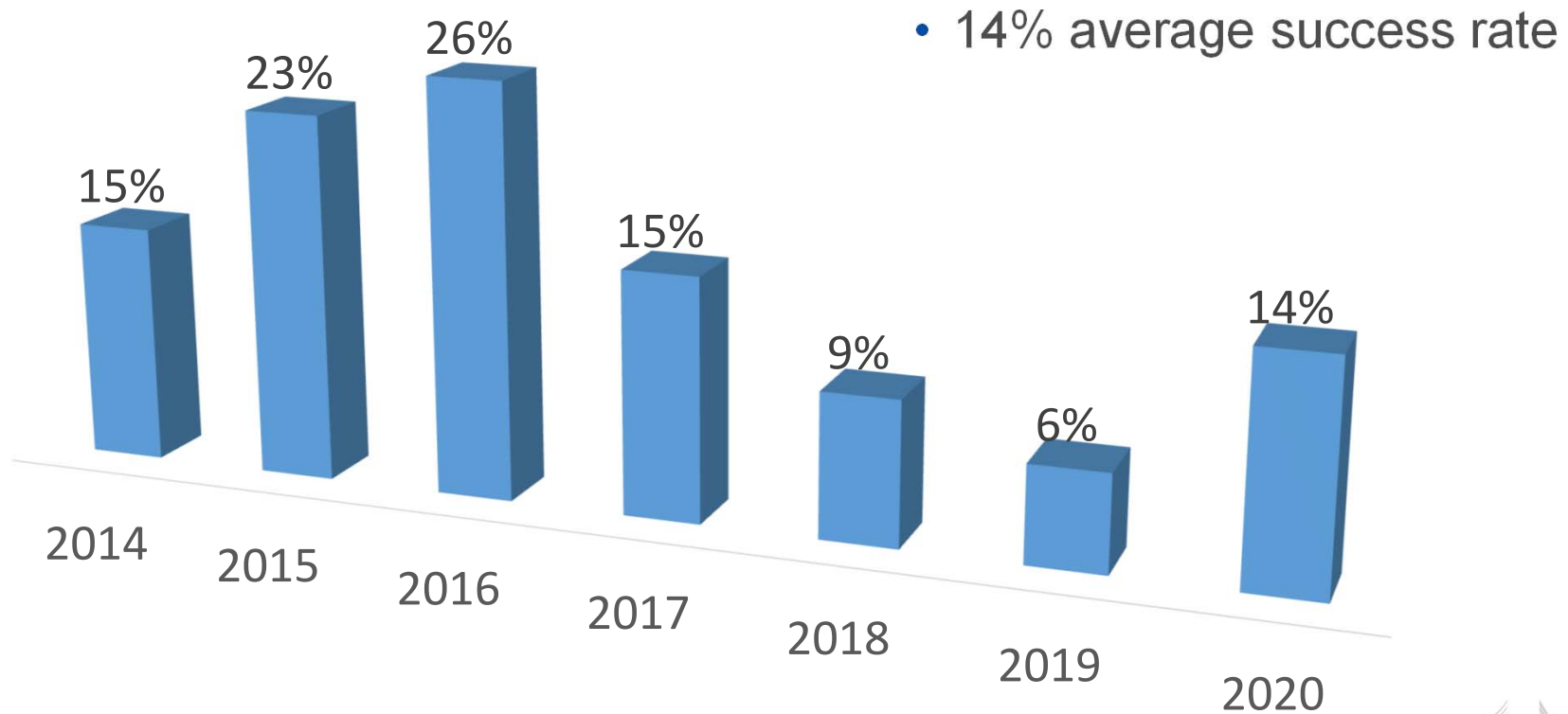
**Third countries**  
52 participations by 41 organisations

# Private sector participation



From the work of Vijayarengan Rajendran and Ugo Miretti

## Proposal success rate 2014-2020



# Spreading results

- Environment and resources data hub
- Horizon Dashboard
- Horizon Results platform
- Horizon Results Booster
- Innovation Success Stories
- CORDIS
- Raw Material Information System (RMIS)



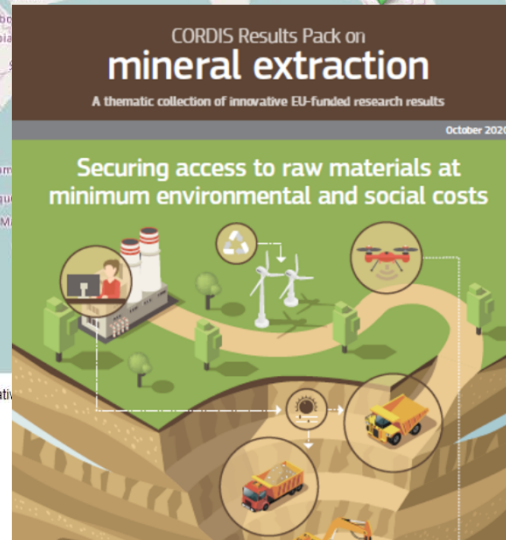
📍 Coordinator
📍 Participant
📍 Demo site

👤
€
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+



**CORDIS**  
Results Pack on  
mineral exploration  
Sustainable  
innovative solutions  
for mineral  
exploration

<https://europa.eu/!Vb43Ch>



<https://europa.eu/!Kv76PM>



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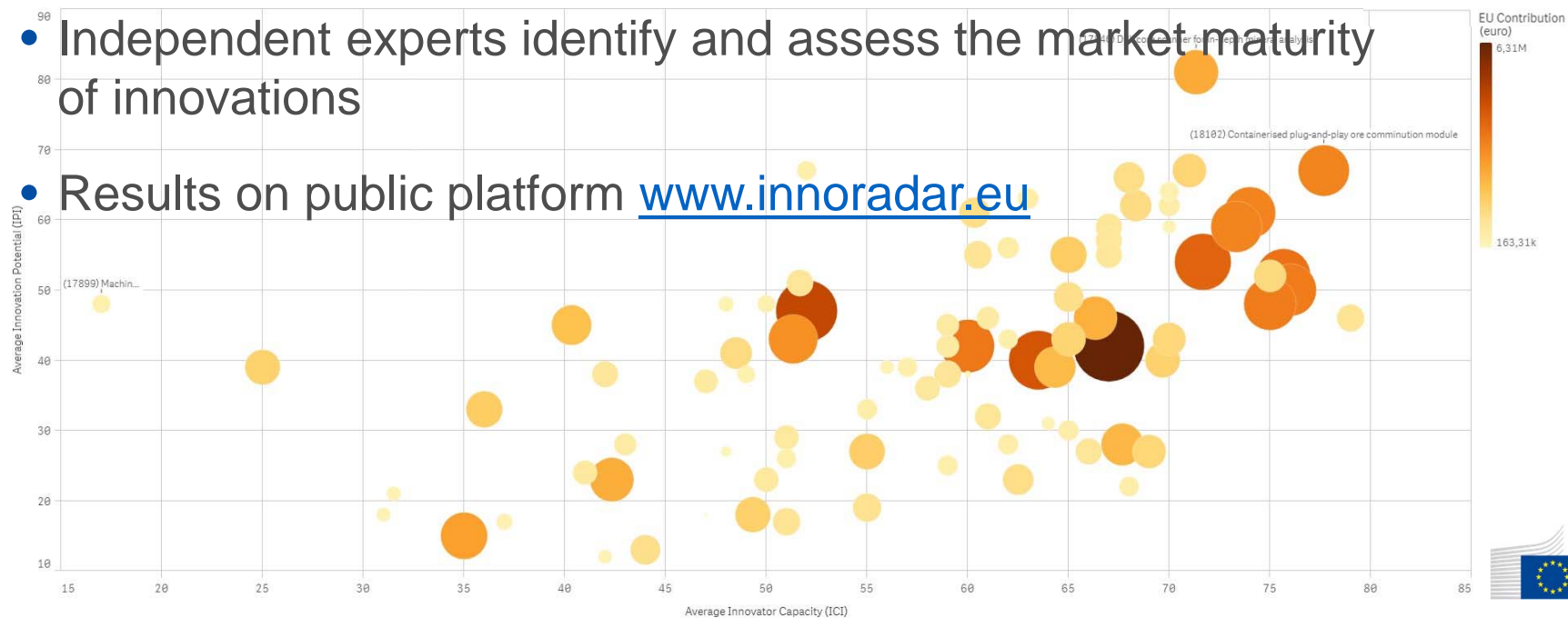
# Innovation Radar



- Methodology to identify high potential innovations and innovators in EU-funded projects

Innovation Cloud - Distinct Innovations by IPI and ICI scores

- Independent experts identify and assess the market maturity of innovations
- Results on public platform [www.innoradar.eu](http://www.innoradar.eu)



Size and color represent participants EU Contribution (euro)

# Enjoy the workshop



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# Raw Materials in the near future

- RM are an important element of the EU's industrial strategy, and a key factor in achieving the twin transitions
- Crucial for strategic value chains (including e-mobility, batteries, renewable energies, pharmaceuticals, aerospace, defence and digital applications)
- Continuation of the EU's raw materials policy, aiming to secure a sustainable supply of raw materials (especially critical raw materials, CRM)
- New list of CRM; 10-point Action Plan on CRM
- European Raw Materials Alliance set up
- In Horizon Europe, Raw Materials are in Cluster 4
  - Nearly € 300 million for R&I projects on Raw Materials for the first 2 years
  - tackling the vulnerabilities in the entire EU raw materials value chain, from sustainable and responsible exploration, extraction, processing, recycling, contributing to building the EU knowledge base of primary and secondary raw materials and ensuring secure, sustainable and responsible access to (critical) raw materials.

