

# Getting your innovation and innovators to the market with EIT RawMaterials

*Olli Salmi, General Manager,  
Baltic Sea Co-location Center*



# EIT RawMaterials

**Vision:** to develop raw materials into a strategic strength for the European Union by boosting competitiveness.

**Mission:** growth and the attractiveness of its raw material sector – via radical innovation, new education approaches and guided entrepreneurship.

- Securing raw materials supply
  - Designing solutions
- Closing material loops

# EIT RawMaterials considers the entire value chain of raw materials



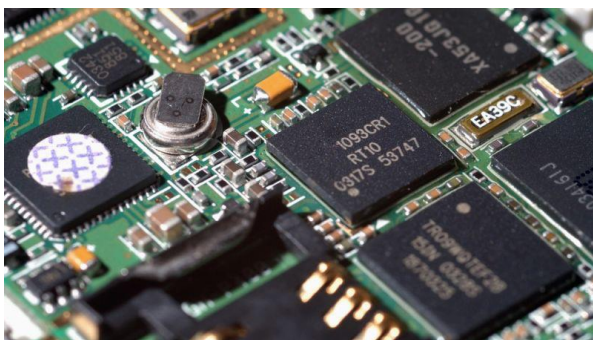
EXPLORATION



MINING



PROCESSING



SUBSTITUTION



RECYCLING



DESIGN FOR CIRCULAR ECONOMY



With EIT RM, innovations are developed by an international consortium

- The consortium is a knowledge triangle where education, research and business meet
  - Not a closed club
  - Partners develop innovations together, in international projects
  - Project types include:
    - Upscaling research to industrial use (pre-commercial)
    - MSc&PhD for business, lifelong learning
    - RIS/Internationalisation
    - Start-up funding available
  - Project sizes vary:  
0,1Meur – 5Meur
  - Next call:
    - Sept 2017 – Feb 2018
- 



- TRL 5: technology validated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 6: technology demonstrated in relevant environment (industrially relevant environment in the case of key enabling technologies)
- TRL 7: system prototype demonstration in operational environment



## Societal impacts

- Maintaining highly-qualified engineering jobs in Europe by developing economically and eco-friendly processes for the minerals industry
- Supporting Europe's minerals industry by providing new solution for better process control
- Promoting industry 4.0 application in the minerals sector and contributing to creation and protection of high-quality jobs in the IT sector
- Maintaining Europe's competitiveness and leading role in new technology fields and securing the high standard of the European minerals industry by new analyzing methods, software tools and advanced processes
- Promoting education and qualification of experts by the EIT Raw Materials-funded educational MIDICON project

## Achievements\*

- Feasibility study proving MONICALC relevance in 2017
- Extension of capabilities of integrated monitoring and control system (IMCS) in 2017
- Planning of industrial demonstration of IMCS 2017
- Confirmation tests for calcination and gasification scheduled for Q3/2017

\*status: June 2017

## Key facts

Project duration:	05/01/2016–10/31/2018
KIC:	EIT Raw Materials
Theme:	Up-scaling
EIT Raw Materials funding:	1.837.168 EUR
Number of partners:	Three core partners + three task partners

# MONICALC

Integrated System for Monitoring and Control  
of Variable Energy Requirements in  
Calcination in the Minerals and Raw Materials  
Industry

Boosting Europe's minerals industry's  
competitiveness and environmental  
sustainability by digitalization and  
advanced processes





# PhD Education Example: CEE-SIMP

- 25 Students from more than 10 countries, focusing on the entrepreneurial and innovative aspects of circular economy
  1. Online lectures (spring 2016, 2017 2018) by leading experts in circular economy and business.
  2. Students received real life industrial problems from EIT RawMaterials industrial partners to explore new business opportunities related to by-products from metal processing.
  3. Problems addressed in small, virtual teams during spring
  4. Groupwork solutions and business models presented to industrial partners at Aalto Design Factory summer camp
  5. Pitching training and competition



# Start-up funding

- Start-Up Booster: providing a support package to customers with excellent start-up ideas.
- SME Growth-booster: providing business support to existing SMEs in their expansion beyond their local reach, based on a competitive selection.
- Kick-start Funding: providing immediate funding for assessing the feasibility of promising start-up initiatives which cannot wait for the normal yearly cycle.



ROCKATHON  
MINING  
CHALLENGE

# HACK theRock!

Application deadline 19 May 2017

Details here: [eitrawmaterials.eu/rockathon/](http://eitrawmaterials.eu/rockathon/)







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



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