



VALTIONEUVOSTO  
STATSRÅDET

# Euroopan innovaatio- ja teknologiainstituutti

Mistä on kyse ja mikä muuttuu uudella kaudella 2021-2027?

Infowebinaari 19.1.2021

# Ohjelma ja käytännön asioita



## 9:00 Tilaisuuden avaus

Timo Haapalehto, työ- ja elinkeinoministeriö

### 9.05 EIT Horisontti Eurooppa –ohjelmassa

Petteri Kauppinen, opetus- ja kulttuuriministeriö

Keskustelua ja kysymyksiä

### 9.55 Miten KICit toimivat? Miten päästä mukaan? Esimerkkeinä EIT Food ja EIC RawMaterials

Marja-Liisa Meurice, EIT Food

Olli Salmi, EIT RawMaterials

Keskustelua ja kysymyksiä

### 10.30 Tilaisuus päättyy

- Pidäthän oman mikin vaimennettuna, kun kuuntelet.
- Chattia voi käyttää kysymysten esittämiseen ensisijaisesti. Kerro nimesi puheenvuorosi alussa.
- Teknistä tukea ei valitettavasti ole tarjolla mahdollisissa Skype-yhteyksien ongelmatilanteissa

Esitysaineisto löytyy EUTIn verkkosivulta  
<https://www.businessfinland.fi/suomalaisille-asiakkaille/palvelut/rahoitus/horisontti-eurooppa/esitysaineistoja>

EUTIn kansalliset Horisontti Eurooppa -verkkosivut  
<https://www.businessfinland.fi/suomalaisille-asiakkaille/palvelut/rahoitus/horisontti-eurooppa>



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# Euroopan innovaatio- ja teknologiainstituutti

Opetusneuvos Petteri Kauppinen  
19.1.2021



# EIT - taustaa

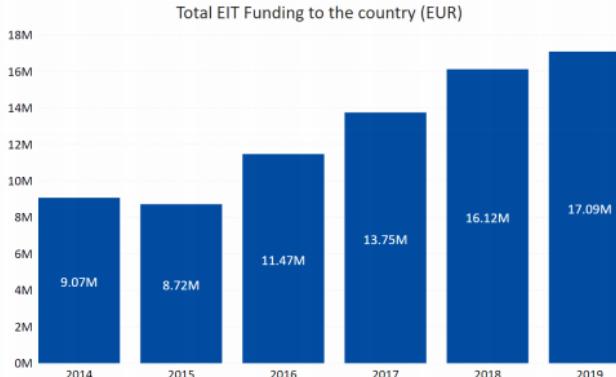
- Perustettu 2008
- Toimintaa ohjaa EIT:n asetus ja strateginen innovaatio-ohjelma sekä EU:n Horisontti-ohjelma
- Toimeenpanoa koskevat päätökset tekee hallintoneuvosto ja niiden toteutuksesta vastaa keskushallinto (Budapest)
- EIT:n koulutus-, tutkimus- ja innovaatiotoiminta järjestetään osaamis- ja innovaatio-yhteisössä, joissa on kumppaneina korkeakouluja, tutkimuslaitoksia ja yrityksiä vähintään kolmesta Euroopan maasta. Painotuksena on innovaatiotoiminta, koulutus ja yrittäjyys.
- EIT:n kahdeksan osaamis- ja innovaatioyhteisöä (KIC):
  - 2009: Ilmasto, Energia ja Digitaalisuus
  - 2014: Terveys ja Raaka-aineet
  - 2016: Ruokatuotanto
  - 2019: Valmistustekniikka ja Kaupunkiliikenne



## EIT GRANTS

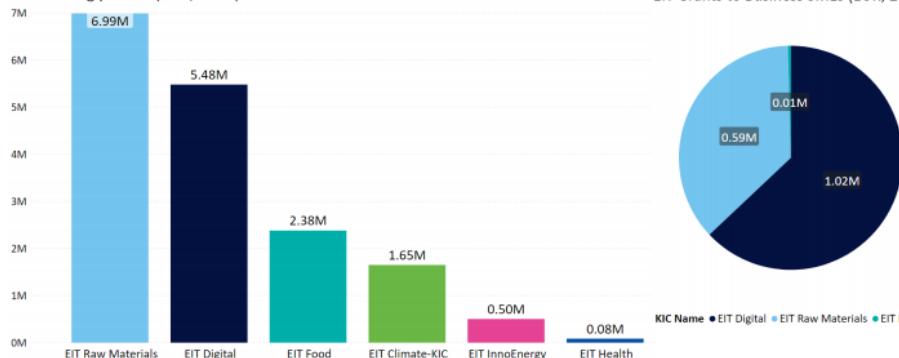


Finland received a total of **EUR 17.09 million** in EIT grants in 2019\*. This amount represents a slight increase of EUR 0.97 million compared to the funding received in 2018 and it was directed to Finnish organisations via six EIT KICs. The largest share (**EUR 11.55 million**) was dedicated to innovation and research activities. The funding included **EUR 1.62 million** to support Finnish SMEs, mainly under EIT Digital.

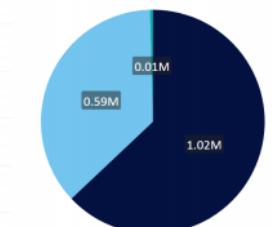


\*Data from Grant Reporting for 2019. Participating in a KIC does not automatically lead to receiving EIT Funding. Organisations can also benefit from other non-financial means.

EIT Funding per KIC (EUR, 2019)

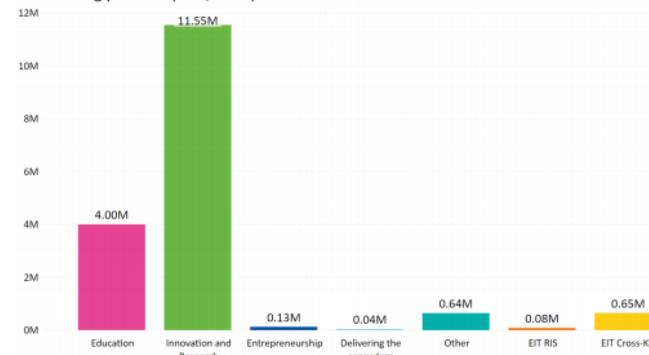


EIT Grants to Business SMEs (EUR, 2019)



KIC Name • EIT Digital • EIT Raw Materials • EIT Food  
EIT Health

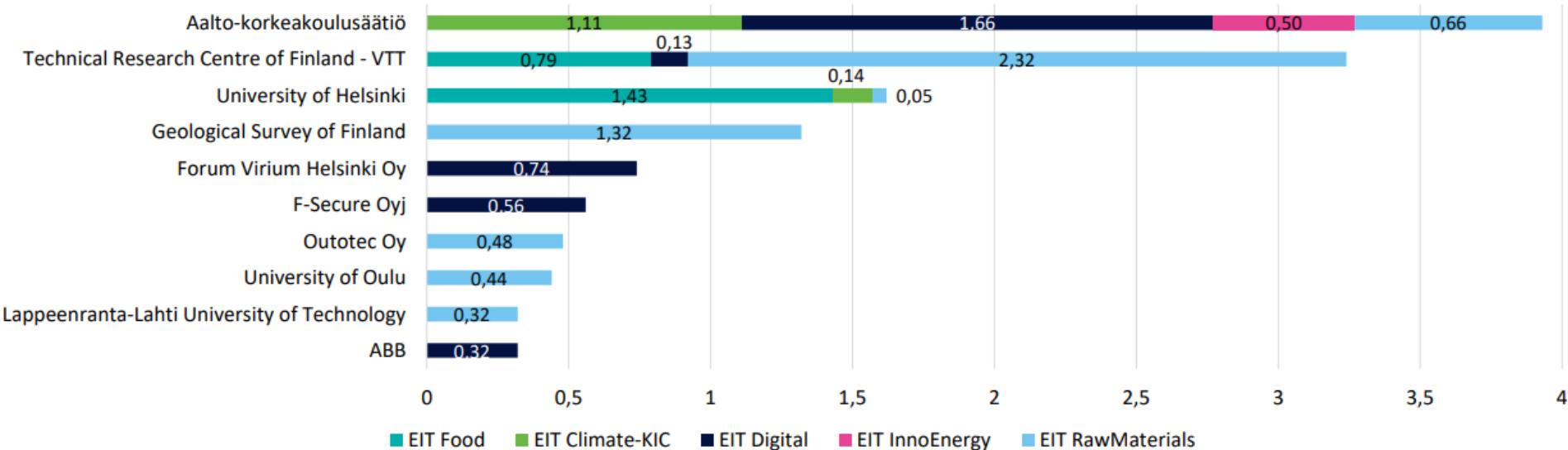
EIT Funding per area (EUR, 2019)



## Suomen osallistuminen / EIT Country Factsheets 2020



## Top National Organisations per EIT funding (Million EUR, 2019)



Suomen osallistuminen / EIT Country Factsheets 2020



# EIT:n asetuksen ja strategisen innovaatio-ohjelma (2021-2027) uudistaminen

- EIT:n väliarvointi ja hallintoneuvoston ehdotus 2017
- Komission ehdotus kesällä 2019
- Neuvoston yhteinen näkemys 11/2019 ja 2/2020
- Euroopan parlamentin yhteinen näkemys 7/2020
- Neuvoston, EP:n ja komission neuvottelut 7/2020 ->



# EIT:n rahoitus 2021-2027

- EIT:n rahoitus ja yleiset toimintaperiaatteet määritetään Horisontti Eurooppa-ohjelman asetuksessa
  - EIT rahoitus tulee olemaan noin 3 mrd. euroa
  - Edellisen ohjelmakauden rahoitus oli 2,4 mrd. euroa.
- Käynnistetään vähintään kaksi uutta innovaatioyhteisöä
  - Kulttuurin ja luovan talouden yhteisö vuonna 2022/(2023)
  - Toinen vuonna 2025/(2026)
    - Water, Marine, and Maritime; Security and Resilience; Inclusion, Integration and Migration



# Keskeisiä uudistuksia

- Sopimusten ja rahoitusmallin kehittäminen
  - EIT:n rahoitus osaamisyhteisölle voidaan sopia 3 vuodelle
  - Max. 15 (7+7) vuotinen puitekumppanuussopimus EIT:n ja osaamisyhteisön välillä
  - Asteittain laskeva EIT:n rahoitus osaamisyhteisölle (100 / 80 / 70 / 50, 40, 30, 20 %)
  - 15 v. jälkeisestä yhteistyöstä voidaan sopia yhteistyöpöytäkirjan avulla
- Avoimuuden ja seurantajärjestelmän kehittäminen
  - Informoidaan avoimemmin EIT- ja KIC-hauista
  - Seurataan KICien tuloksellisuutta, uusien keskusten perustamista sekä rahoituksen kestävyyden kehittymistä



# Keskeisiä uudistuksia

- Alueellisen ulottuvuuden vahvistaminen
  - Tavoitteena parhaiden kumppaneiden osallistuminen, avoin kaikille osallistujille, (mutta ilman aluekiintiötä)
  - KICien on huomioitava monivuotisissa strategioissa toimien alueellinen ulottuvuus (ja alueellinen tasapaino)
  - EIT:n alueellisen innovaation ohjelma (osuus EIT rahoituksesta 10-15%)
    - Kohteena "Modest and moderate innovators"
- Korkeakoulujen yritysyys- ja innovatiotoimien kehittäminen
  - Käynnistetään pilottitoimena
  - Kohteena erityisesti korkeakoulut, jotka eivät ole mukana KICeissä

# Kiitos!

# Kysymyksiä?



VALTIONEUVOSTO  
STATSRÅDET



# IMPROVING FOOD TOGETHER

OCTOBER 2020



EIT Food is supported by the EIT  
a body of the European Union

# FOOD SYSTEM CHALLENGES

At EIT Food we aim to overcome these challenges by bringing all players together and guiding and accelerating the innovation process to transform the food system

## SOCIAL



We need to feed **10 billion** people by 2050 (*UN, 2017*)



Over to **2 billion** people are currently overweight (*WHO, 2018*), while **800 million** are undernourished (*FAO, 2019*)



Up to **35%** of children under 5 globally are stunted, wasted or overweight (*UNICEF, 2019*)

## ENVIRONMENTAL



**1/3** of our food is wasted globally (*FAO, 2019*)



**70%** of global freshwater withdrawals come from the food industry (*FAO, 2016*)



Food production accounts for **26%** of greenhouse gas emissions (*Science, 2018*)

## ENTREPRENEURIAL



Only **3.4%** of all EU startups are in the food industry (*ESM, 2016*)



**9 out of 10** startups fail due to lack of a market need for their products (*Munich Business School, 2016*)



Meeting the UN SDGs could create innovation opportunities worth **US\$200 billion** for the European business sector in agrifood by 2030 (*BSDC, 2016*)

# A GUIDE TO EIT FOOD

As Europe's leading food initiative,  
we are working to make the food system  
**more sustainable, healthy and trusted**

## OUR MISSION

Our mission is to create a world where everybody can access and enjoy sustainable, safe and healthy food, with trust and fairness from farm to fork.

## OUR ROLE

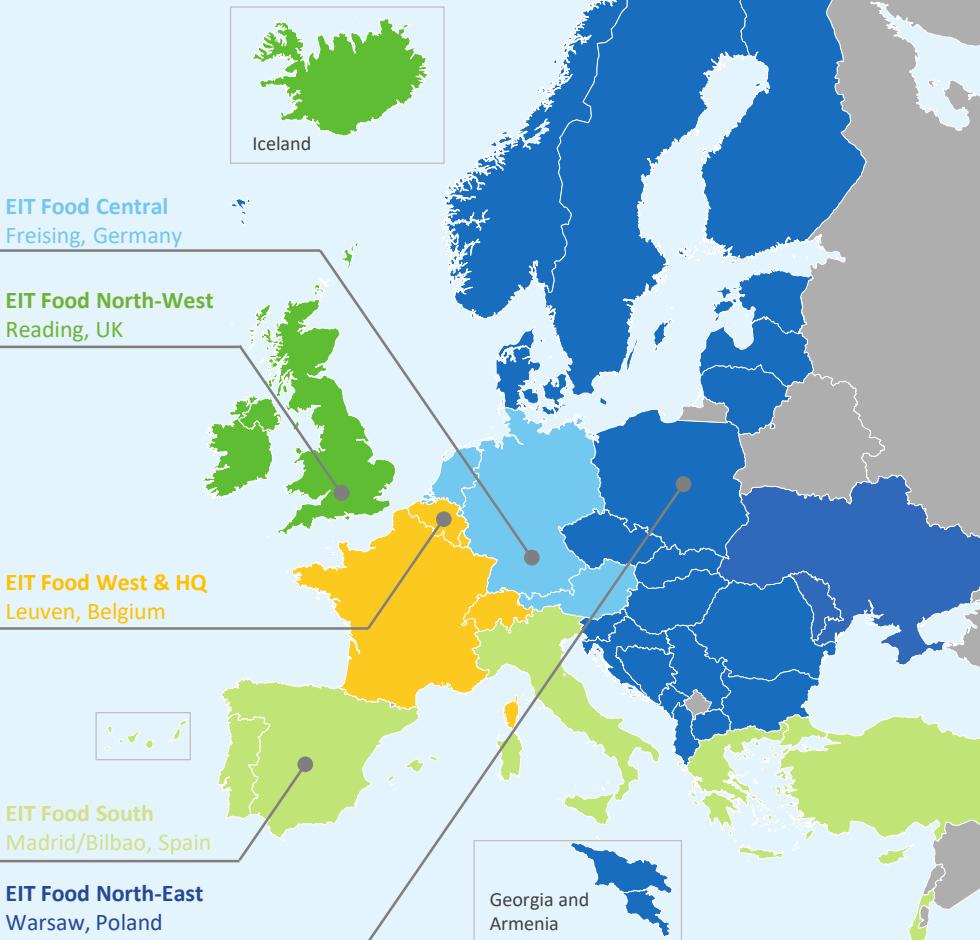
Our role is to bring all players together and guide and accelerate the innovation process that will transform the food system.

## OUR STRENGTH

Our strength comes from partners, which represent over 85 of Europe's leading agrifood companies, research institutes and universities.

The network also includes the RisingFoodStars Association, bringing together Europe's best agrifood startups and scaleups.

We are headquartered in Leuven and have regional offices in Warsaw, Freising, Reading, Leuven, Bilbao and Madrid.



# WHAT'S OUR FOCUS?

We will transform the food system by achieving our **6 Strategic Objectives**:

## Overcome low consumer trust

creating a smart food system that is inclusive and reassuring for everyone



## Build a consumer-centric connected food system

developing a digital food supply network with consumers and industry as equal partners



## Educate to engage, innovate and advance

providing 'food system' skills for students, entrepreneurs and professionals through advanced training programmes

## Create consumer-valued food for healthier nutrition

enabling individuals to make informed and affordable personal nutrition choices



## Enhance sustainability through resource stewardship

developing solutions that create a circular bio-economy



## Catalyse food entrepreneurship and innovation

fostering innovation at all stages of business creation

# OUR COMMUNITY

Our community is unique because it brings together key players from across the food value chain including industry partners, startups, research centres and universities



## OUR IMPACT IN 2019

**2m+**

Online media audience  
for EIT Food activities

**€77m**

Of investment attracted by  
startups supported, globally

**7,500+**

Learners in our skills  
based programmes

**118**

Number of startups  
supported, globally

**€3m+**

Invested in European  
countries with modest  
innovation levels

**15**

New products and services co-created with  
consumers and launched into the market



# OUR ACTIVITIES

## EDUCATION

Attracting, developing and empowering talent to lead the transformation of the food system

### EXAMPLES



[Global Food Venture Programme](#)

[Focus on Farmers](#)

[Food for Thought](#)

## INNOVATION

Fostering collaboration across the entire food system to develop innovative technologies, products and services

### EXAMPLES



[SeaCH4nge](#)

[From Waste to Farm](#)

[Digital Twin Management](#)

## ENTREPRENEURSHIP

Supporting innovative impactful entrepreneurs and startups to deliver new food innovations and businesses across Europe

### EXAMPLES



[FeJuice](#)

[Delicious Data](#)

[Redefine Meat](#)

## PUBLIC ENGAGEMENT

Engaging with people so they become change agents of the food system

### EXAMPLES



[Annual Food Agenda](#)

[Food Unfolded®](#)

[Future of Food](#)

# OUR ACTIVITIES – EDUCATION

Attracting, developing and empowering talent to lead the transformation of the food system



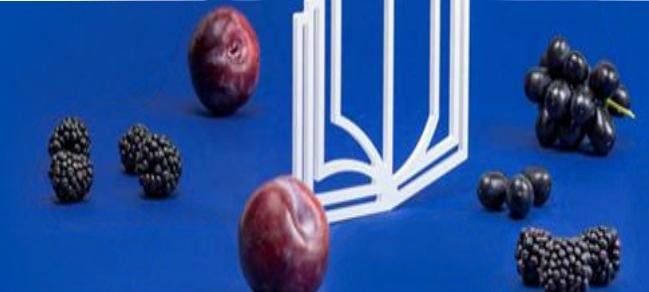
## GLOBAL FOOD VENTURE PROGRAMME

The Global Venture Programme fosters the entrepreneurial skills of PhD students working on agrifood challenges through mentoring, bootcamps, networking events and pitch competitions. Successful candidates include Catarina Chemetova, who founded the startup "FiberGlob" upon participation, converting local waste-streams into a high-quality growing soil for agriculture.

[READ MORE >](#)

## FOCUS ON FARMERS

Focus on Farmers uses a wide range of professional educational activities to accelerate the uptake of agricultural technologies by farmers, from farm visits and attending national shows to facilitating 1-2-1 peer mentoring support. The programme has already engaged over 6,000 farmers and continues to reach more as it grows.

[READ MORE >](#)

## FOOD FOR THOUGHT

Our online courses have helped over 50,000 learners understand the food system, how to make better food choices and how technologies can contribute to sustainability. With a 4.4 rating, Food for Thought is one of our most successful courses running on FutureLearn. Together with experts in the field, learners explore the relationship between food, gut and brain.

[READ MORE >](#)

# OUR ACTIVITIES – INNOVATION

Fostering collaboration across the entire food system to develop innovative technologies, products and services



## SeaCH4nge

SeaCH4nge is developing an easily accessible seaweed that reduces methane emissions from cattle, lowering their environmental impact. Throughout the research process, the potential of different seaweed forms on methane reduction is being tested, as well as their impact on animal welfare and product quality.

[READ MORE >](#)

## FROM WASTE TO FARM

The From Waste to Farm project is experimenting with innovative ingredients such as insect larvae in poultry feeding. Insect larvae not only serve as a rich protein source, they also feed on inedible produce, tackling locally produced food waste and building a better food system that is fit for the future.

[READ MORE >](#)

## DIGITAL TWIN MANAGEMENT

The linking of digital twins along the food value chain enhances its transparency and enables a more rapid reaction during food safety events, ultimately reducing food production losses and recalls. Already recognised at the EIT INNOVEIT-awards, this innovative project will productise its Digital Twin Management apps in 2021.

[READ MORE >](#)

# OUR ACTIVITIES – ENTREPRENEURSHIP

Supporting innovative impactful entrepreneurs and startups to deliver new food innovations and businesses across Europe



## FEJUICE

FeJuice is a 'functional food' startup with an all-female team, supported by our Seedbed programme. Their juices, smoothies and ice creams are formulated according to a unique, scientifically based algorithm to increase iron levels in the blood, helping those with anaemia - including women at reproductive age, pregnant women and vegans.

[READ MORE >](#)

## DELICIOUS DATA

Delicious Data, a Food Accelerator Network participant, developed a cloud-based online interface using machine learning to help catering companies forecast food demand that is twice as precise as usual planning methods – meaning higher margins, less food waste and more time to focus on their businesses.

[READ MORE >](#)

## REDEFINE MEAT

Redefine Meat, part of our RisingFoodStars network, has developed the world's first 3D printed, plant-based alt-steak product. The team worked with leading butchers, chefs, food technologists and taste experts to digitally map over 70 sensorial parameters of meat to create sustainable, high-protein, no-cholesterol steaks that look, cook, and taste like beef.

[READ MORE >](#)

## OUR ACTIVITIES – PUBLIC ENGAGEMENT

Engaging with people so they become change agents of the food system



### ANNUAL FOOD AGENDA

The Annual Food Agenda is a communication project powered by EIT Food. Its main goal is to engage consumers, encouraging them to think about the food they eat and involving the entire value chain.

[READ MORE >](#)



### FOOD UNFOLDED

FoodUnfolded® is our public platform that reconnects people with the origins of their food. With over 35K followers on Instagram, it is the place to share the latest innovations in our food system and enable an open and honest dialogue on food between the public, academia, startups and industry.

[READ MORE >](#)



### FUTURE OF FOOD

The Future of Food is an event that brings together EU Policymakers, EIT Food Partners and other key stakeholders active in research, innovation and education, along the whole food value chain. The conference provides a platform to discuss future trends and priorities in food innovation in Europe.

[READ MORE >](#)

# WE'RE PART OF EIT: EUROPE'S ONE-STOP SHOP FOR INNOVATION

## What is the EIT?

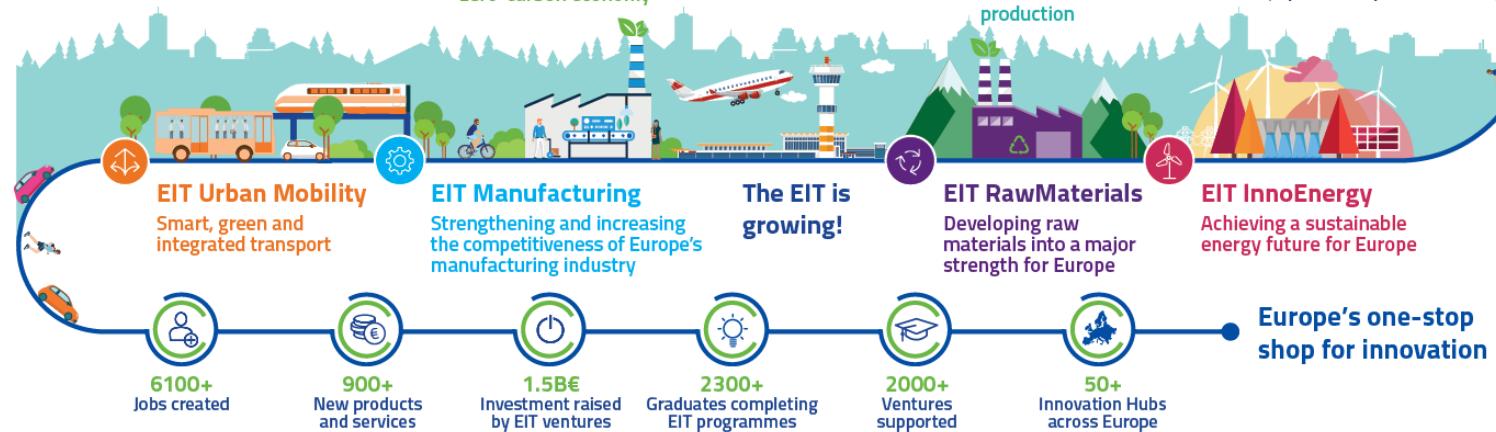
The European Institute of Innovation and Technology (EIT) drives innovation in Europe by supporting entrepreneurs, innovators and students across Europe to turn their best ideas into reality.

## How does the EIT work?

-  Trains a new generation of entrepreneurs
-  Develops innovative products and services
-  Power start-ups and scale-ups



The EIT's Innovation Communities create and find innovative solutions to major societal challenges



# WHY SHOULD YOU JOIN THE EIT FOOD COMMUNITY?

## PARTNERS...

gain unparalleled access to a network of Europe's leading agrifood businesses, startups, universities and research organisations

## CURIOUS MINDS...

benefit from the latest online courses, education programmes and professional development opportunities so they can have a positive impact in society



## ENTREPRENEURS...

are provided with expert mentoring, tailor-made entrepreneurship programmes and easy-to-access funding to enable them to launch, accelerate and scale agrifood businesses

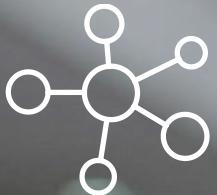
## THE PUBLIC...

can engage in a dialogue with the food industry and co-create the future food system through access to our innovative events, digital platforms and public engagement activities

## CHANGEMAKERS...

are supported in taking their ideas from concept to market so they can launch new innovative products, ingredients and solutions to deliver healthier, trusted and more sustainable food

# LET'S CREATE THE FUTURE OF FOOD TOGETHER!



Become part  
of our  
community



Share  
your ideas



Help us  
transform the  
food sector

CONTACT DETAILS  
[info@eitfood.eu](mailto:info@eitfood.eu)



FIND OUT  
MORE AT  
[EITFOOD.EU](http://EITFOOD.EU)



RawMaterials  
Connecting matters

# Bringing innovation to market with EIT RawMaterials

19 January 2021

Olli Salmi ([olli.salmi@eitrawmaterials.eu](mailto:olli.salmi@eitrawmaterials.eu))



EIT RawMaterials is supported by the EIT,  
a body of the European Union



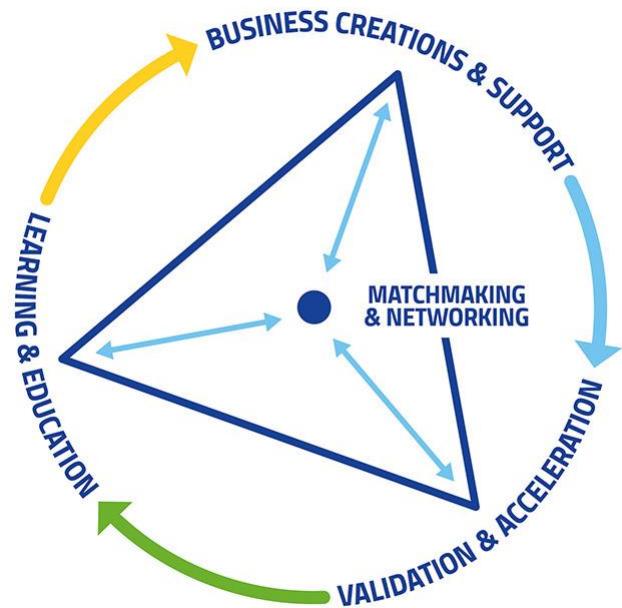
# Innovation in Raw Materials

EIT RawMaterials **vision** is to develop raw and advanced materials into a major strength for Europe.

Its **mission** is to advance Europe's transition to sustainability by driving innovation along the raw material value chain

EIT RawMaterials **strategic objectives**:

1. **Securing raw materials supply:** Global industrial leadership must build on a solid supply of sustainably extracted and processed raw materials both from European and non-European sites
2. **Designing solutions:** By accelerating and upscaling the design and production of advanced and engineered materials, the KIC will counter the trend of advanced materials development moving from Europe to other regions
3. **Closing material loops:** Optimizing the efficient discovery, characterization, processing and flow of materials to move towards 'zero waste', a core target of circular economy.



# World's largest innovation community on raw materials

- Coverage of the entire raw materials value chain
- More than 300 partners
- 22 countries
- Six Innovation Hubs across Europe
  - Baltic Sea Innovation Hub (FI, SE, EE, NO), 39 partners (22 project partners)
- Headquarter in Berlin, Germany



# EIT RawMaterials boosts innovation through a variety of tools.

**MATCHMAKING & NETWORKING**

RM InfoCenter

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Events:  
RawMaterials Summit,  
Open Innovation Events

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Matches:  
Alumni Community,  
Internationalization

**ACCELERATION**

Up-scaling –  
Innovation Projects

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Start-up Booster  
- 3 annual cut-offs

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RM Accelerator

**RM ACADEMY**

Master Education,  
PhD Education

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Lifelong Professional  
Education

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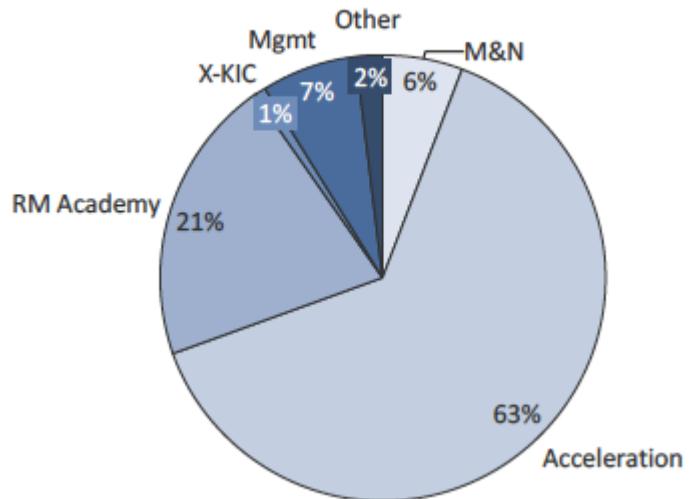
Wider Society  
Learning

**Lighthouses**

**CROSS KIC ACTIVITIES**

**REGIONAL INNOVATION SCHEME (RIS)**

Budget 2015-2022: 400 M€ + partner contr.  
Budget 2020 – Total 120 M€



# IMPROVED CALL MECHANISM

- From a single yearly call to multiple calls per year: lead time of around six months from submission to project
- Calls will be open to organizations that are not partners of EIT RawMaterials at the time of proposal submission, however all members of the consortium be (or become) partners of EIT RawMaterials by the time the project starts
- **Next calls launched:**
  1. March 2021 (projects starting in January 2022)
  2. November 2021 (projects starting in July 2022)
- **Two stage evaluation:**
  - **1<sup>st</sup> stage (dl 2 months from launch): 3-4 p submission**, evaluated based on objectives and outcomes, impact, market potential and financial backflow (not applicable to higher education), quality of consortium
  - **2<sup>nd</sup> stage (dl 6 months from launch): full proposal**, evaluation based on broader set of criteria similar to previous EIT RawMaterials calls



# SUPPORT

- Additional information on the new calls will be provided:
- through webinars, the first one to be scheduled at the time of the launch of the KAVA 8 call (early March 2021)
- at the EIT RawMaterials Brokerage Event (format tba), to be scheduled in March 2021
- at the Proposal Days (online events), to be scheduled in March to April 2021
- through regular contact with your Innovation Hub staff



# UPSCALING

- **Upscaling projects** are innovation projects based on validated technologies that need additional step(s) for upscaling, demonstration or implementation
- The **objective of upscaling** is to bring the technology to market, as a product, service or process – no later than 3 years after the project has ended
- **TRL 5** (technology validated in relevant environment) required at the beginning of the project, minimum **TRL 7** (system prototype demonstration in operational environment), at the end of the project
- Projects must demonstrate a contribution to the KIC's financial sustainability in case of successful commercialization
- Projects must develop a Go To Market Strategy, clearly indicating the commercializing partner and their role in the consortium

# UPSCALING PROJECT EXAMPLE

## NEWECO

**Partners:** ERAMET IDEas (Lead Partner), Aalto University, Boliden, University of Liege

**Description:** Acceleration of Industrial Innovation to Secure High-Quality Nickel Supply

**Aim:** Strengthen Europe's market in strategic metals by developing a new production process to transform metallic concentrate into pure nickel, cobalt, copper and other valuable and strategic metals

**EIT RawMaterials Connection:** Upscaling project (1.06.2016 – 31.05.2018), EIT Innovators Award Nominee 2018



Olivier Sutterlin, Research and Environment Public Affairs Representative, Eramet



# EIT RawMaterials Industry Partners throughout Europe



# Innovation in Education – RawMaterials 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 especially among young people (16-18 years) to ensure the availability of professionals in the future.



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## HIGHER EDUCATION INITIATIVE

## HEIs—“HIGHER EDUCATION INSTITUTIONS” INITIATIVE

- **Background** : under the new Strategic Innovation Agenda (SIA) 2021-2027, the European Commission expects EIT and the KICs to **raise the bar** and create systemic impact by strengthening innovation ecosystems. One specific objective to achieve this will be to achieve the following:
  - ❖ Increase the entrepreneurial and innovation capacity of higher education institutions (HEIs)
  - ❖ Integrate HEIs in the innovation ecosystems
- **EIT Raw Materials** : has asserted itself as a leader in the HEI Initiative Working Group and produced a **concept note** in June 2020, which was shared with the EIT, the Working Group and Task Force Chair, and that propose 2 main steps :
  - ❖ Step 1 : an HEI self-assessment using HEInnovate tools to determine where the HEI is strong and weak and therefore, allow each HEI to customize an innovation strategy and action plan
  - ❖ Step 2 : leverage the KIC investment in entrepreneurial and innovational education tools, models, concepts and initiatives and integrate them at institutional level to bring the HEIs from their baselined self-assessment results to the anticipated entrepreneurial and innovation capacity targets and impact.



RawMaterials  
Connecting matters

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



EITRawMaterials



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# Kysymyksiä ja keskustelua



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