



## EIT RawMaterials Newsletter

December 2016

### In this edition

- [A message from Dr Karen Hanghøj and Dr Andreas Klossek](#)
- [Events](#)
- [News from the CLCs](#)

Dear partners and friends of EIT RawMaterials,

As many of you know, a few weeks ago we held our General Assembly back-to-back with our Brokerage Event. Partners from all over Europe provided an overview of current projects and used the opportunity to network. We were impressed by the sheer numbers – more than 300 participants, and more than 150 pitches, with many excellent project ideas along the entire raw materials value chain. But most importantly, we are grateful to see the partners' enthusiasm to exchange knowledge and experience. This year's brokerage event again was a remarkable example of how EIT RawMaterials fosters and brings innovation to life.

In the General Assembly, partners approved an important task force to bring forward avenues for sustainability of our KIC (Knowledge Innovation Community) as a service organisation, and approved seven new members of our KIC. Please join us in welcoming EFTAS Fernerkundung Technologietransfer GmbH, the Institut de Recherche Technologique M2P, Nanomakers, the Slovak University of Technology in Bratislava, SMS group, the Technical University of Denmark and the Université Grenoble Alpes. Good to have you on board!

Similar to last year, EIT RawMaterials plans to be present at numerous events throughout 2017. We encourage you to visit our website for details on upcoming events. We will, for example, participate at the annual convention of the Prospectors & Developers Association of Canada (PDAC 2017) in Toronto, 5-8 March 2017. Being one of the largest trade shows on exploration and mining, we will use this opportunity to network, raise the visibility of the KIC and underline the relevance of the European raw materials industry. EIT RawMaterials will be present with a booth, but also host half a day of presentations and a reception. Please let us know whether you plan to go to PDAC!



Dr Karen Hanghøj



Dr Andreas Klossek

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business plan was well received by the EIT Governing Board. Based on the recommendations and budget granted, the final version was submitted on 12 December for final approval.

On behalf of the whole EIT RawMaterials team we would like to wish you a Happy Holidays and a great start into the New Year!

Dr Karen Hanghøj and Dr Andreas Klosek



## Events

### General Assembly and Brokerage Event



On 14-15 November EIT RawMaterials held the annual General Assembly and Brokerage Event in Berlin. At the General Assembly, all core and associate members were invited to participate in making strategic and relevant decisions for the future of EIT RawMaterials. The Brokerage Event had a number of parallel pitching sessions running. Each of them was held under a combination of 'Thematic Area' and 'Activity' sessions.

The pitching sessions were facilitated by EIT RawMaterials Thematic officers, Education officers, Business Developers and Co-Location Centre General Managers. With 300 participants, 150 breakout sessions, live voting, a live YouTube channel and tons of time for networking and socialising, it was a successful event!



### 8<sup>th</sup> European Innovation Summit

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EIT RawMaterials at 8th European Innovation Summit



Dr Andreas Klossek, EIT RawMaterials COO &amp; Managing Director, presenting KIC to the audience

On 14 November Dr Andreas Klossek (Chief Operations Officer, Managing Director of EIT RawMaterials) gave a speech at the European Parliament in Brussels, Belgium. The event addressed the impact of the regulatory framework and Horizon 2020 on innovation, the cooperation between EU institutions and innovation actors, and the horizontal issues in innovation, such as support for startups and entrepreneurial education.

"In KICs, it is the partners that join forces to tackle innovation issues and help to educate the entrepreneurs of tomorrow," said Dr Andreas Klossek.



Martin Jaehnert, binee Co Founder and Managing Director, introducing the start-up idea

The event also covered societal challenges of the energy, raw materials and circular economy, as well as the topic of digitalisation and innovation. Also, the summit will address how to improve science communication and how to increase dialogue with key stakeholders to strengthen the relationship between scientists, society and media.

In addition to the summit, Dr Andreas Klossek invited binee, a start-up that will receive funding from EIT RawMaterials, to present their innovative idea on an e-waste collection system.

## Raw Materials Week



Dr Rima Dapous, EIT RawMaterials Director of Education, presenting Raw Materials Academy



Mikael Ramström, Chairman of the Partner Steering Committee in CLC North &amp; Director of Global Strategic Projects &amp; Alliances at Atlas Copco, discussing KIC projects



Eric Pirard, Professor Mineral Resources at Université de Liège, on the strength of the



PhD Students Marjaana Karhu, working at VTT Finland, and Amelie Thevenot, Université de Bordeaux, demonstrating diversity in raw materials education

On 30 November in Brussels, Belgium, as a part of the Annual Conference of the European Innovation Partnership on Raw Materials, EIT RawMaterials hosted the morning session at an event entitled "Education and training as a vehicle to improve competitiveness and business creation". Traditional

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triangle as well as students from EIT-labelled programmes and Education KAVA projects. Discussion centred around how the KIC can help to raise public awareness and make the raw materials sector attractive, innovative and competitive.

The morning concluded with “future game changers” aged 16-18 from the Wider Society Learning project RM@Schools who impressed everyone with their enthusiasm and knowledge about raw materials. You can find all of the RM@Schools projects presented and much more [here](#).



### The final meeting of RM@Schools

*“I hear and I forget. I see and I remember. I do and I understand” (Confucius):* This is the inspiring motto of RM@Schools project, a Wider Society Learning project supported by EIT RawMaterials.



Led by Armida Torregiani, from CNR (the National Research Council of Italy) in Bologna, the project involves 6 European partners of EIT RawMaterials, such as [CNR Aster](#) (Italy), [Bay Zoltán](#) (Hungary), [TU Claustahl](#) (Germany), [Wetsus](#) (Netherlands), [UPM Madrid](#) (Spain), [GeMMe](#) (Belgium). On 23 November CNR in Bologna, Italy, hosted the final conference of the RM@Schools project. More than 450 students (age 10-19 years) from schools of different levels, coming from different areas within the Emilia Romagna region, Italy, gathered to show the results and the learning pathways they have followed to understand the importance of sustainable and responsible use of raw materials in our daily life (from cell phones to photovoltaic panels). They also demonstrated how to make scientific and technological education in the raw materials field more attractive.

The RM@Schools project foresees that the students become involved in hands-on activities with Raw Materials Ambassadors, scientists who are dedicated to coach students in creating educational toolkits, and conducting hands-on experiments. The ambassadors are recruited to teach the students why raw materials are important and how cool a job as a scientist or engineer can be. Students are also encouraged to share what they have learnt, thus becoming themselves Raw Materials Ambassadors. During the conference in Bologna, groups of students presented the results of the activities developed during 2016, showing videos, conference-style PowerPoint presentations, ideas for games, results of online surveys on raw materials perception, and showcased the hands-on toolkit developed by the project. This first successful pilot will be replicated in more schools around Europe in the coming years, with the aim of building the future generation of scientists and engineers in the raw materials field.

You can follow all of the news and updates from the RM@Schools projects on the [official website](#).

To kick off the new round of EIT labelling for 2017, EIT has asked EIT RawMaterials to host an EIT Labelling Workshop for all KICs on Monday 12 December in Berlin, Germany. The workshop explained the EIT label application procedure for PhD and Master programmes and provided a platform to share experiences. There were presentations from “experienced labellers,” not just from EIT RawMaterials, but from the other KICs as well. If any partners are interested in the results of this workshop or obtaining an EIT label for a Master or PhD programme, please contact your CLC Education Officer for more information.

## U-Start

The joint campaign between EIT RawMaterials and Veolia is aiming to support European startups with sustainable ideas in the field of circular economy and urban mining.

A cooperation is proposed for startups with innovative concepts in the following fields:

- Recycling technologies for complex waste streams with a focus on high value secondary products
- Reverse logistics, monitoring and traceability, modeling urban systems, and decision support tools
- Innovative approaches to partnerships with stakeholders such as industry, citizens and the public sector



The goal of this initiative is to start cooperation with promising startups and support them with a dedicated package of financial and non- financial instruments.

The incubation program comprises business coaching by EIT RawMaterials, industrial mentoring by Veolia, funding instruments, and offices in the startup ecosystem of EUREF Campus in Berlin.

The joint call was launched on 2 June 2016 at the **Circular Economy Startup Brunch** at IFAT in Munich, Germany. More than 30 young and inspiring entrepreneurs participated and discussed their ideas with experts from Veolia, EIT RawMaterials and Berlin Partner.

By the deadline of 26 June, 23 applications were received, from which 10 teams passed the first round. After detailed discussions on ideas, business models and upscaling potential, 5 candidates were invited to pitch their idea in front of an expert jury, consisting of three representatives from Veolia and EIT RawMaterials respectively.



## The winners

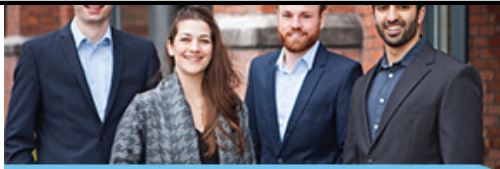
From all 5 well performing teams during the pitching, the jury decided to fund Pendula and Extractive jointly in the U-Start program. binee will be funded by the EIT RawMaterials kick-start funding program.

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Young and talented Pendula team

Pendula is an online waste management system that claims to offer waste producing companies as well as recyclers a platform to track secondary resources, arrange time efficient pick-ups and collect sustainability metrics.

Extracthive

The inspiring French team working on a high-quality recycling-technology for fiber-reinforced plastics will ensure these valuable materials, with a growing market in the lightweight sector, are kept in the loop.



Inspiring team of Extracthive start-up



Innovative team from binee

binee

binee is ad-sponsored e-waste collection system. By motivating users to bring back old electronic devices it aims at increasing the collection rate and creating transparency along the secondary value chain.

# News from the CLC's



Matchmaking and Networking



Learning and Outreach



Business Creation and Support



Validation and Acceleration



## EVENTS

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**EIT RawMaterials' Breakfast Talks at Slush 2016 in Helsinki, Finland:** On 30 November we started Slush 2016 by paying a visit to our colleagues' event from EIT Digital and stopping by our partners' VTT and Aalto University, booth. The 2-day event gathered 17 000 people and 2000 start-ups from all over the globe. It was full of inspiring talks from notable speakers, including 100 start-ups pitching for a chance to win 500 000 euros and stories of start-ups which previously participated and are now running a successful business. On 1 December CLC Baltic Sea invited everyone for EIT RawMaterials Breakfast Talks, where participants had a chance to meet innovative start-ups selected for funding by the KIC as a part of the start-ups booster challenge.



CLC Baltic Sea team together with supported start-ups

The list of supported start-ups by CLC Baltic Sea includes:



[ALINA](#) provides organoclay production technology, that helps paint and composite material producers to extend product life-time, diminishing rate of biodegradation.



[Collo](#) is an electrical analyser that can cost-effectively observe the state of particles in liquids.



[GIM](#) is an expert in mobile robotics, navigation, environment perception and modelling.



[OWA Group Oy](#) is a Nordic centre with expertise in the water and waste treatment sector.



[Process Genius](#) is a company specialising in cutting-edge 3D online services aimed at industrial process plants and the sales organisations that supply them.

Congratulations to all the participating and selected start-ups for inspiring and creative ideas!

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## EVENTS

### Upcoming



**ReMining and process residues in Berlin, Germany:** On 18-19 January the event, organised together with Helmholtz Institute Freiberg for Resource Technology, will bring together experts from all sides of the knowledge triangle to discuss opportunities for the processing of secondary deposits, and the extracting of valuable minerals and elements from them in a sustainable manner. For more information and to register, please click [here](#).



**Idea Camp: Circular Economy and New Materials in Budapest, Hungary:** On 26-27 January EIT RawMaterials together with Bay Zoltán invites you to participate in the Idea Camp. The event will be a great platform for collecting business ideas that can be supported by EIT RawMaterials and creating partnerships for the EIT RawMaterials KAVA call closing in March 2017, and will facilitate networking between the KIC partners and other potential partners from Eastern Europe. If you have an innovative idea that you would like to present and share with other participants, please click [here](#) for more details on participation.



**CLC North**

## EVENTS

### Upcoming



**Innovation, Research and Entrepreneurship workshop in Stockholm, Sweden:** On 30 January CLC North together with Luleå University of Technology and SIP STRIM invite you to participate in the Innovation, Research and Entrepreneurship workshop. This workshop is organised as part of the Future Mine and Mineral Conference. Participants of the workshop will find out



more about EIT RawMaterials and our activities, gain further insight into Swedish mining innovation projects (i.e. reduction of nitrogen discharges in mining processes and the multi-scale 4D geological modelling of the Gällivare area) and learn more about projects in the SIP STRIM, the strategic innovation project for the Mining and Metal producing Industry.



**CLC West**

## EVENTS



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**European Materials and Venture Forum 2017 in Ghent, Belgium:** On 8-9 February the forum will create a space to discover more than 30 innovative companies in the materials sector and to get in touch with prominent investors across Europe and beyond. At the end of the second day, a dedicated EIT RawMaterials-University of Ghent evening will be organised in addition to the forum, where the KIC will also be presented and represented in the different sessions. For more details, please click [here](#).


**CLC South**

## EVENTS

### Past



**Idea Camp on Lightweight Materials for the Automotive Industry in Barcelona, Spain:** On 1-2 December around 80 people, including experts and entrepreneurs from 7 European countries, attended the conference organised by the Consell General de Cambres de Catalunya (the General Council of Chambers of Commerce of Catalunya) and EIT RawMaterials. The theme of the event was dedicated to the analysis of the challenges and of the new technologies and materials that in the near future will allow the reduction of the weight of vehicles, by reducing costs and decreasing consumption.



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Xavier Ferràs, Dean of the Faculty of Business, UVic-Universitat Central de Catalunya



Pier Luigi Franceschini, EIT RawMaterials CLC South General Manager, speaking about the Business Ideas Competition in Raw Materials

The conference was inaugurated by: Núria Bertriu, Director General of Industry at the Government of Catalunya; Pere Casals, the President of the Chamber of Commerce of Manresa and President of the Committee on Industry of the General Council of Chambers of Commerce of Catalunya; and Vicenç Aguilera, the President of the Cluster of the Automotive Industry of Catalunya and of the Circuit de Catalunya.

During the conference participants had a discussion with the group of international experts on technology and materials for lightweight construction, additive technologies and key competences for the training of future professionals in the sector. For more information, please visit the [official website](#) of the event.



Dr Frank Brückner, Head of Additive Manufacturing at Fraunhofer IWS, on additive and hybrid technologies

## People



Timo Haapalehto

### Timo Haapalehto, Programme Manager, HQ

Timo Haapalehto holds a Doctoral Degree in Science in Technology from the Lappeenranta University of Technology. Being a member of the Sherpa group of the EIP on Raw Materials and having worked with various organisations in several European countries, Timo has a broad professional experience in research, innovation and industry policies. In 2009, Timo joined the Finnish Permanent Representation to prepare the chairing of the Research Working Party of the EU Council during the Finnish EU Presidency. His major task was to lead and finalise the negotiations to launch the 7<sup>th</sup> Research, Development & Innovation Framework program, FP7. When the Commission then begun preparing a new Innovation Strategy, Timo joined the European Commission's DG ENTR as a seconded national expert in the Innovation Union preparation team. In 2011, he was contributing to the launch of the European Innovation Partnership on Raw Materials, before joining the Technical Research Centre of Finland, VTT. At VTT, his main tasks were to build consortia

services that VTT offers to its clients. From 2012, Timo was involved in the consortium preparation phase and the design of the consortiums core processes, such as strategy definition, contribution to the drafting of the Business Plan, the building of an IP policy, and definition of the call system. This included acting as a member of the interim management team during 2015, and assisting the permanent management team during 2016. In October 2016, Timo joined the EIT HQ team as a Programme Manager.



### **Wesley Crock, Education Officer, CLC West**

Wesley Crock holds a Master's degree from the Technical University of Delft, Netherlands, whereby his research results illustrated the theoretical potential of the Dutch urban mine and the salience of secondary recovery in reducing neodymium criticality. He has more than 8 years of international experience with product and material flows and for the United Nations University programme on sustainable cycles in Germany.

As manager of the pioneering UN E-waste Academy for policymakers, waste operators and recyclers in 2012 and 2014, Wesley developed and implemented a 5-day interactive curriculum to strengthen e-waste competencies and cultivate lasting collaboration along the lifecycle of electronics and their wastes in Ghana and El Salvador respectively. He also administered the UN E-waste summer school for PhD researchers in 2009, 2010 and 2011 in 5 EU Member States and cooperated with the UNEP International Resource Panel to develop a MOOC on global metal flows.



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