

Clustering with the networks – the EIT RM Hub Centrum Kosice at a glance

Castilla y León –
EU Cluster Matchmaking Event

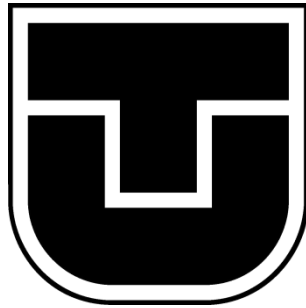
Castilla y León, 8 - 10 April 2019

Igor Ďuriška

Project department FBERG; Institute of Geosciences



- TUKE



- FBERG (Faculty of Mining, Ecology, Process Control and Geotechnologies)

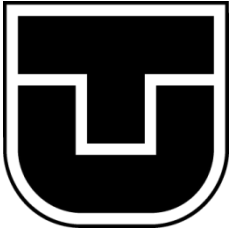


- EIT Regional HUB Center Košice



Regional Center Košice
EIT RawMaterials Hub

Faculty of Mining, Ecology, Process Control and Geotechnologies (FBERG), Technical University of Kosice – 9 faculties:



1. Mining, Ecology, Process Control and Geotechnologies - FBERG (1952)
2. Materials, Metallurgy and Recycling (1952)
3. Mechanical Engineering (1952)
4. Electrical Engineering and Informatics (1969)
5. Civil Engineering (1977)
6. Economics (1992)
7. Manufacturing Technologies (campus in Presov) (1992)
8. Arts (1998)
9. Aeronautics (former Military Academy) (2005)

TUKE has (in 2018):

- **9 013** students, approximately **10 % foreign**
- **808** pedagogical staff (professors, assoc. prof., assistant prof)
- **750** other employees (administration, technicians)



Faculty of Mining, Ecology, Process Control and Geotechnologies (FBERG), Technical University of Kosice



- Refers to heritage of the Mining Academy in Banská Štiavnica, promoted to academic level in **1762** by the Austro-Hungarian monarch Maria Theresa.
- Since **2015** FBERG (TUKE) participates in the **EIT RawMaterials** as an **Associated Partner**.
- Since **2018** in the **EIT RawMaterials** as a **Core Partner**
- **Strategic partner** of the Ministry of Environment and Ministry of Economy of the SR for defining new Slovak RM Policy.

Faculty of Mining, Ecology, Process Control and Geotechnologies (FBERG),
Technical University of Kosice

- Has a long-time cooperation with numerous mining and RM processing **companies, regional and state authorities** dealing with RM problematics.
- In Slovakia FBERG is 1 of 2 partners of EIT (the other is STU in BA)
- a member of **European Innovation Partnership, General Assembly of EIT RM, ECLC Partners Steering Committee and ESEE Education Committee**

Faculty of Mining, Ecology, Process Control and Geotechnologies (FBERG),
Technical University of Kosice



Institute of Geodesy,
Cartography and
Geographical
Information Systems



Institute of
Geosciences



Institute of
Logistics



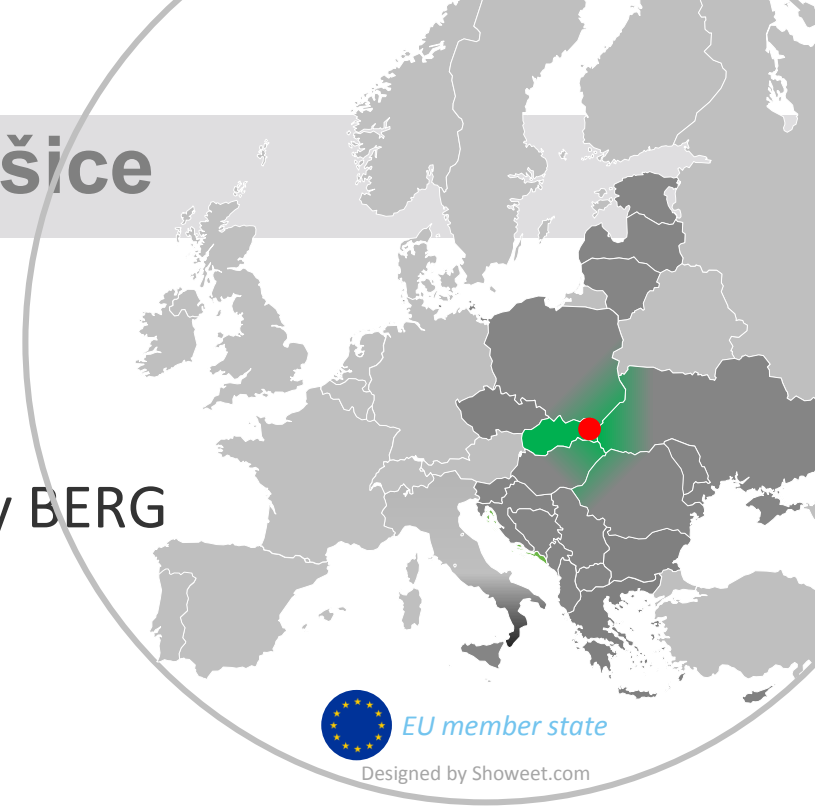
Institute of Control and
Informatization of
Production Processes



Institute of
Earth Resources

EIT RawMaterials Hub · Regional Center Košice

- Establishment EIT RM **Regional Center Košice** in **January 2018**
- Initiated and operated by Technical University of Košice, Faculty BERG
- Based in Košice/Slovakia
- Addressing in first instance:
 - the local ecosystem of **Slovakia** and in second instance
 - neighbouring (mainly Carpathian) regions of **Czech Republic, Hungary, Romania, Ukraine**

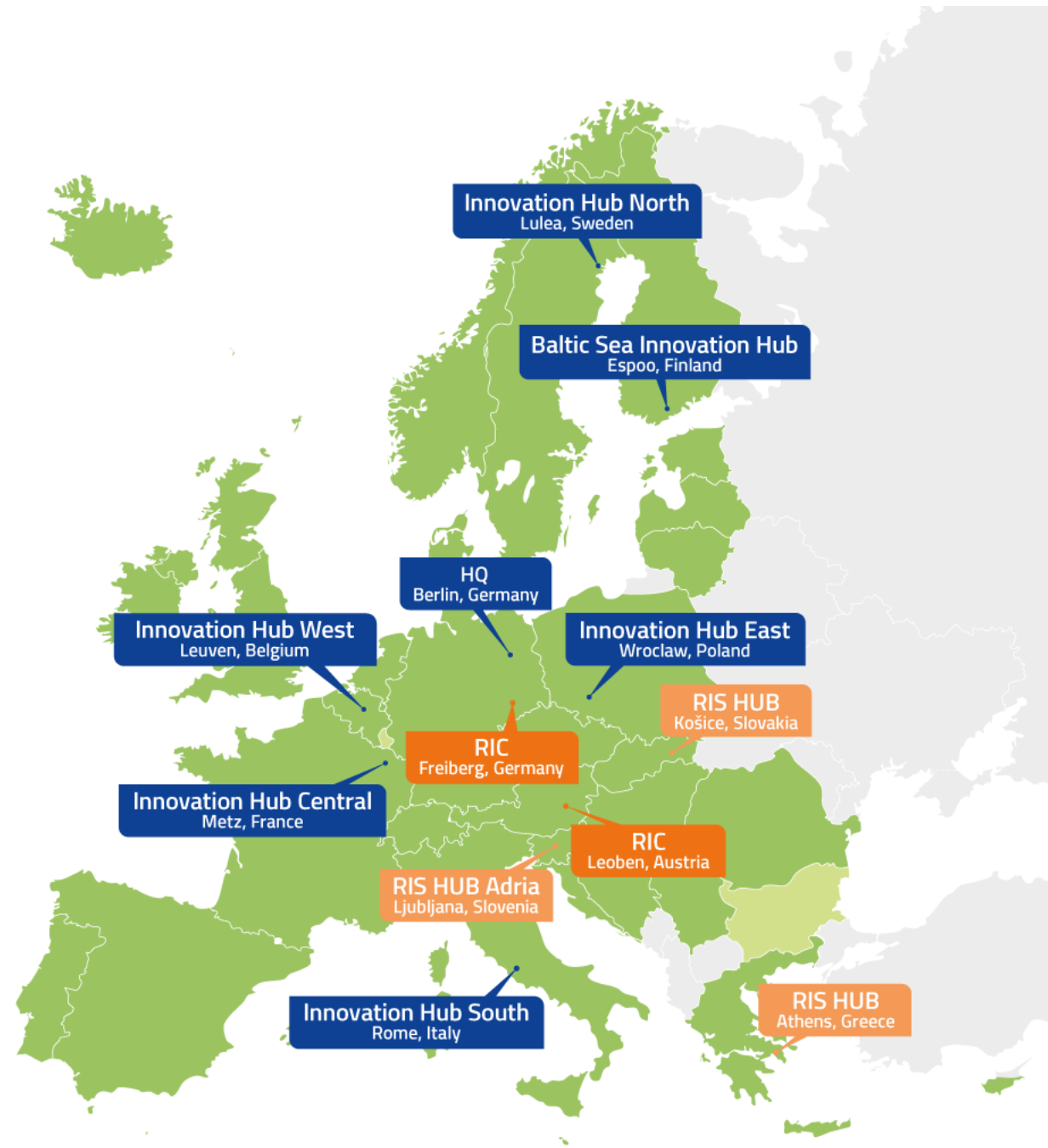


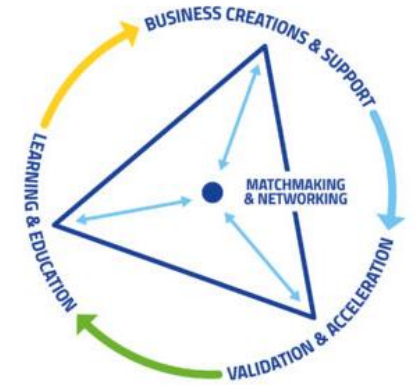
Geographical position



Regional Center Košice
EIT RawMaterials Hub

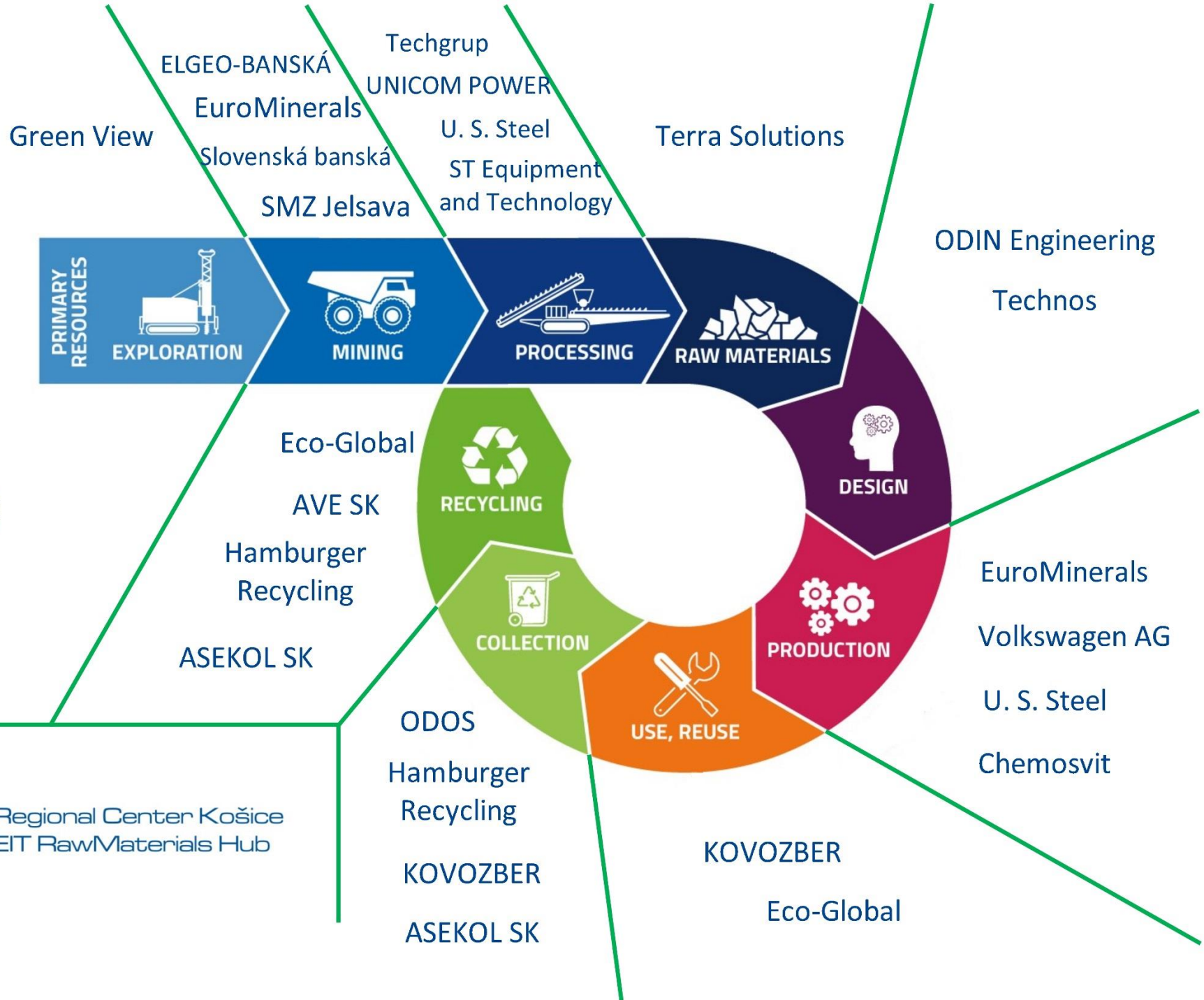
- Countries covered by EIT RawMaterials
- EU countries
- Innovation Hub (Co-Location Center)
- RIC (Regional Innovation Center)
- RIS HUB (Regional Innovation Scheme)





- **RCK establishment:** January 2018, managed by Faculty BERG, TUKE
- **Main objective:** to mobilize all stakeholders of the **Knowledge Triangle**, to support local ecosystem and to increase the innovation potential of our region
- **Target group:** all the value chain of RM, not only the mining sector





2018 activities - Networking

- Slovak Chamber of Commerce and Industry meeting (03/2018),
- Kosice Self-Governing Region meeting (04/2018),
- Matchmaking and Networking event in High Tatras (05/2018) – successful event highly positive rated by our Innovation Hub General Manager CLC East *Krzysztof Kubacki*
- 84% satisfaction of attendees, 77% found new contacts



Ciel: Pozdvihnúť inovačný potenciál v regióne

Vytvoriť diskusnú platformu pre podniky a tvorcov legislatívy pozdĺž celého hodnotového reťazca nerastných surovín bolo cieľom Matchmaking a Networking podujatia, ktoré sa uskutočnilo 10. až 11. mája 2018 vo Vysokých Tatrách.

Účasťou konferencie boli aj praktický workshop, ktorý priniesol možnosti vyjadriť názory, prekážky a problémy zainteresovaných strán v oblasti spolupráce a zavádzania inovácií. Svoje aktivita a návrhy okrem zástupcov Ministerstva hospodárstva SR a univerzít prezentovali aj fakt, že zúčastnení partneri dospejú hneď k niekoľkým dohodám o spolupráci vrátane konkrétnych projektových návrhov. Organizátorom podujatia bolo len nedávno zriadené regionálne EIT RawMaterials HUB centrum Košice a zúčastnili sa na ňom aj zástupcovia Koicej regionálnej komory a medzinárodnej spolupráci sa v týchto kruhoch etablovala až do takej miery, že sa manažment EIT RM rozhodol v Košiciach založiť svoje pracovisko. A tak Európsky inovačný a technologický inštitút EIT, Slovenská republika stále patrí k štátom, ktorých inovačný potenciál v malých a stredných podnikoch je relatívne nízky.

INTERVIEW WITH KRZYSZTOF KUBACKI, GENERAL MANAGER EIT RAWMATERIALS CLC EAST

11. 5. 2018, NOVÝ SMOKOVEC, VYSOKÉ TATRY

Krzysztof, could you tell the readers of an interesting general about the main mission of the EIT RawMaterials and what EIT RawMaterials offer to our stakeholders as an an innovation partner from EITRM?

...the general mission of the innovation platform of EIT RawMaterials is to create the network of European companies and their...

...the EIT RawMaterials Hub Regional Cluster Košice is a platform for the cooperation of companies and their...

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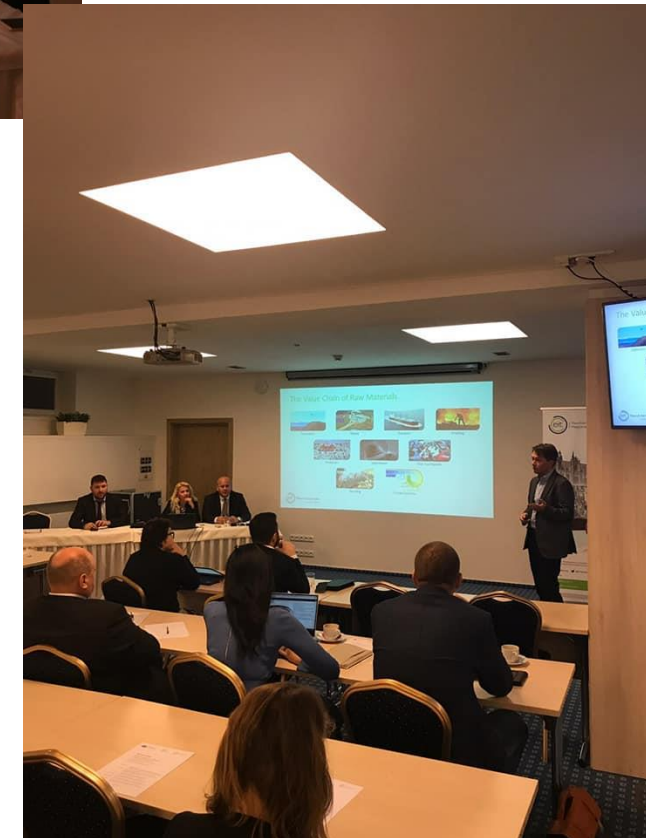
2018 activities - Networking

- Meeting with **STU** (09/2018),
- **HUB and Climate KIC meeting** – possibilities of Cross-KIC cooperation (10/2018),
- **Brokerage event** Berlin (10/2018),
- **RawMaterials Week** Brussels (11/2018),
- **Bilateral meeting** in (11/2018) with Western Slovakia Stakeholders (Industry, Academia, Research) Bratislava,



2018 activities - Networking

- **Slovak Chamber of Commerce and Industry - InnoService event (11/2018)**
- Meeting in **Ostrava (ČR) academia – VŠB TU Ostrava, FBERG TUKE, local authorities** - Ministry of Industry and Trade Czech Republic and *industrial stakeholders* (11/2018),
- Meeting with Climate-KIC representatives (joint event in December in Košice),
- Sharing the events and practical information from EIT RM to local stakeholders (throughout 2018)



Activities 2018 - Other

- Survey of the Regions needs in the Education field (for ESEE Education Committee)
- Online Marketing and external communication to relevant stakeholders
- Facebook: <https://www.facebook.com/hubkosice/>
- LinkedIn: <https://www.linkedin.com/company/hubkosice/>
- Webpage: <http://hub.fberg.tuke.sk>
- Promo video: https://www.youtube.com/watch?v=5j8FtuL_e8Y
- World Café sessions – Travel lectures on TUKE – with focus on RM awareness increasing (3 times so far)
- Elementary and secondary school workshops and lectures

World Café sessions – Travel lectures on TUKE – with focus on RM awareness



- Lecturers from our faculty are speaking about their travel experiences – focus on RM

- Iceland
- Latin America
- Madeira



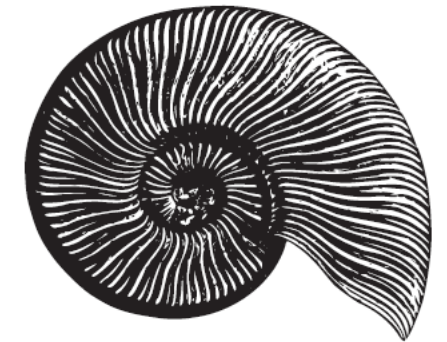
Elementary and secondary school workshops and lectures

- in the hall of Geoscience exposure of FBERG
- spreading awareness of RM importance



TECHNICKÁ UNIVERZITA V KOŠICIACH
FAKULTA, BANÍCTVA, EKOLÓGIE, RIADENIA A GEOTECHNOLÓGIÍ

Geovedná expozičia



Mineralogická expozičia

Ložisková expozičia

Paleontologická expozičia

Expozičia krasu



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www.ugv.fberg.tuke.sk

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EIT Regional HUB
Regional Center Košice
EIT RawMaterials Hub

Home



Save-the-date/ Matchmaking and Networking event in High Tatras



Business Idea Competition



Startup and SME booster Call



Founding of the HUB Center in Kosice



EIT RIS

Upcoming milestones:

SAT 31 MAR 2018
Startup and SME booster výzva

SAT 31 MAR 2018
Business Idea Competition výzva

THU 10 MAY 2018 FRI 11 MAY 2018
Lunch-to-lunch/ Matchmaking and Networking event

Follow us on Facebook

EIT Regional HUB Center ...
26 Páči sa mi to

Poslať správu

Vám a 6 ďalším priateľom sa to páči

EIT Regional HUB Center Košice
približne pred týždňom

Startupisti a MSP, s dobrým nápadom máte možnosť sa do konca marca uchádzať o 60 tisíc EUR od EIT RawMaterials. Viac informácií nižšie.

Newsletter

Zadajte svoj email a my Vám z času na čas zašleme užitočné informácie.

Email Address*

First Name

Last Name



2 0 ZDIELAŤ

UPRAVIŤ VIDEO

skumu v oblasti nerastných surovín. Vzniklo tu Regionálne HUB vysunuté pracovisko EIT RawMaterials, najväčšej inovačnej n). Jeho cieľom je pospájať lokálne kontakty a podnikat' ich k

Successes 2018

- Ekolive startup success (top 10) in EIT Jumpstarter Competition
- company is finding solutions for low-cost bioremediation and heavymetals removal from tailing piles



EIT Regional HUB Center Košice
Uverejnil používateľ Tomáš Pavlík [?] · 1. februára · 🌐

Jedinečná možnosť pre začínajúcich podnikateľov a MSP získať podporu až do 60 000 EUR na oblasť nerastných surovín. Minulý rok sa to podarilo nášmu startupu Ekolive, takže šance sú reálne 😊

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Booster Call 2019 to support #Startups and #SMEs develop innovative products and services that can produce impact in the #rawmaterials sector.
Apply for up to EUR 60 000 funding here:
<https://eitrawmaterials.eu/booster-call-2019/>

A banner for the 'START-UP AND SME BOOSTER CALL'. It features the 'eit RawMaterials Connecting matters' logo at the top left. The main text 'START-UP AND SME BOOSTER CALL' is in large, bold, green and blue letters. Below this, it says 'The Call 2019 is open throughout the year with the deadlines: 15 MARCH | 14 JUNE | 20 SEPTEMBER'. On the right, there is a circular inset image showing a man in a white lab coat and blue gloves looking at a tablet. The background of the banner is a blurred image of a laboratory or office setting. At the bottom right, there is a small text box: 'This activity has received funding from the European Institute of Innovation and Technology (EIT) under the EIT RawMaterials scheme under the EIT RawMaterials 2019, the EIT RawMaterials Programme for Research and Innovation'.

Successes 2018

- establishing project and education cooperation with industry partner **euroTalc s.r.o.**
- upscaling project proposal with them as a key partner
- one of the richest global deposits of talc located Gemerska Poloma (Košice selfgoverning region)
- estimated minimum deposit reserves of 85 million t. of high purity talc



2018 outputs

- Cooperation concluded from the meeting with Western Slovakia stakeholders

Mr. Rettka from the company **UNICOM-POWER** is going to submit the project proposal with acronym **PuriGram** under the leadership of UNI Leoben in cooperation with Technical University of Kosice (proposal number 19031). The project is aimed at purification of the Graphite using the membrane system with a purity level higher than 95%. Also, STU (Mr. Cuninka) is submitted the RIS KAVA project aimed at the treatment of the water using zeolites. They have included there Zeocem company. RCK has provided them guidance on the project consortium building and also help with registration of the proposal.

- Cooperation concluded from the meeting with **KOVOZBER** company

Joint project proposal within Slovak grant scheme from Slovak Research and Development Agency (APVV). The project is concerning on recovery of the preparation process for the treatment of used catalysts. KOVOZBER was also attending the Matchmaking and Networking event in the High Tatras where they agreed with the U.S. Steel Kosice on a sampling.

- Cooperation concluded from the meeting with **EuroTalc** company

Joint project proposal with acronym **MineTalc** is going to be submitted in cooperation with the Technical University of Kosice. The project is aimed at backfill mining optimization for low-strength deposits (proposal number 19007). Thanks to bilateral meetings we have also opened a question of cooperation with EuroTalc in educational activities, which is currently in the process.



- Cooperation concluded from the meeting with **Koral** company

Networking 2019

- 04/2019 - Mladá Boleslav meeting with ŠKODA AUTO University
- established by automobile manufacturer **Škoda Auto**
- helping them establish contact with EIT RM for the future project corporations



Plans for 2019

- Continuation of the **networking activities/Bilateral meetings** not only in **SK** (Ministry of Economy, Kosice-Self Governing Region, EuroTalc, Kovoerber, other relevant SMEs or policymakers) and **CZ** (Ministry of Industry and Trade, Czech Geological Survey, Ostrava VŠB)
- *Year 2020 extending of networking activities to other RIS countries (Hungary, Ukraine and gradually to Romania and Bulgaria)*
- 05/2019 Joint session of **RC Adria, RC Košice, RC Greece** under EIT RM. Date: May in Berlin (besides Raw Materials Summit)
- Further contribution to the **KIC RM ESEE Education Strategy**
- **Summer school of Innovative Technologies in the field of RM** (for PhD. students from RIS countries) in Banská Štiavnica
- Continuation of **World Café discussions on Raw Materials** in the hall of Geoscience exposure
- **Transfer of applied science to business** – two weeks training in High Tatras for 12 students in RM field (RIS countries)
- Business creation - Business Idea Accelerator (for RIS startups)

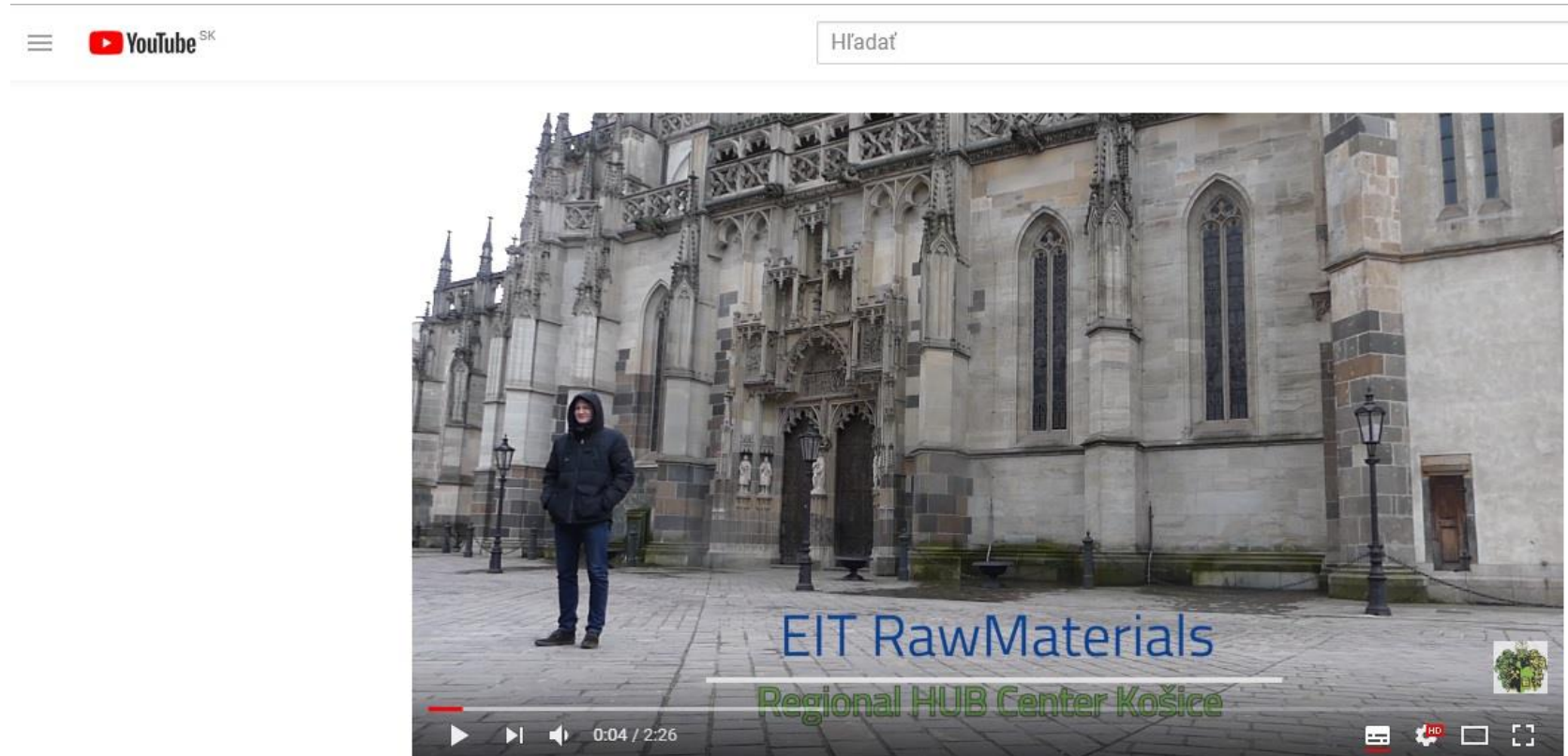


igor.duriska@tuke.sk
<http://hub.fberg.tuke.sk>



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

- Promo video: https://www.youtube.com/watch?v=5j8FtuL_e8Y



Regionálne HUB centrum Košice

289 zhliadnutí

👍 2 💬 0 ➦ ZDIELAŤ ⋮



Tomáš Pavlík

Zverejnené: 9. 3. 2018

UPRAVIŤ VIDEO

Košice sú metropola inovácií a výskumu v oblasti nerastných surovín. Vzniklo tu Regionálne HUB centrum Košice, čo je v podstate vysunuté pracovisko EIT RawMaterials, najväčšej inovačnej komunity na svete (v rámci surovín). Jeho cieľom je pospájať lokálne kontakty a podnikat' ich k

ZOBRAZIŤ VIAC