

MineHeritage newsletter, 1/2 (2021)

Other document types / Ostale vrste dokumenata

Publication year / Godina izdavanja: **2021**

Permanent link / Trajna poveznica: <https://urn.nsk.hr/urn:nbn:hr:169:537045>

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Download date / Datum preuzimanja: **2024-05-20**



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Q 1/2 2021 Newsletter

MINEHERITAGE

Supported by



Last update: 28.06.2021

MineHeritage's Final Sprint!

The MineHeritage project, sponsored by EIT and EIT RM, is now entering its last six months with several goals already achieved, thanks to the outstanding work of all Consortium Partners. MineHeritage counts now with a vast database of Historical Mining sites across Europe, all visible in our website map (<https://mineheritage-project.eu/minemap>), where you can find their location and directions to each mine's website. The project also counts with more than 30 booklets and 15 videos freely available for all on our website (<https://mineheritage-project.eu/>). Furthermore, the website already includes the MineHeritage Game! You can now have fun and test your knowledge on the European mining history (<https://mineheritage-project.eu/game>).

We invite you to discover our fifth newsletter and distribute it among your contacts. You can also follow our activities through our Website and social networks for a more interactive experience with the MineHeritage concept.



Consortium:



UNIVERSITÀ
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DI PADOVA



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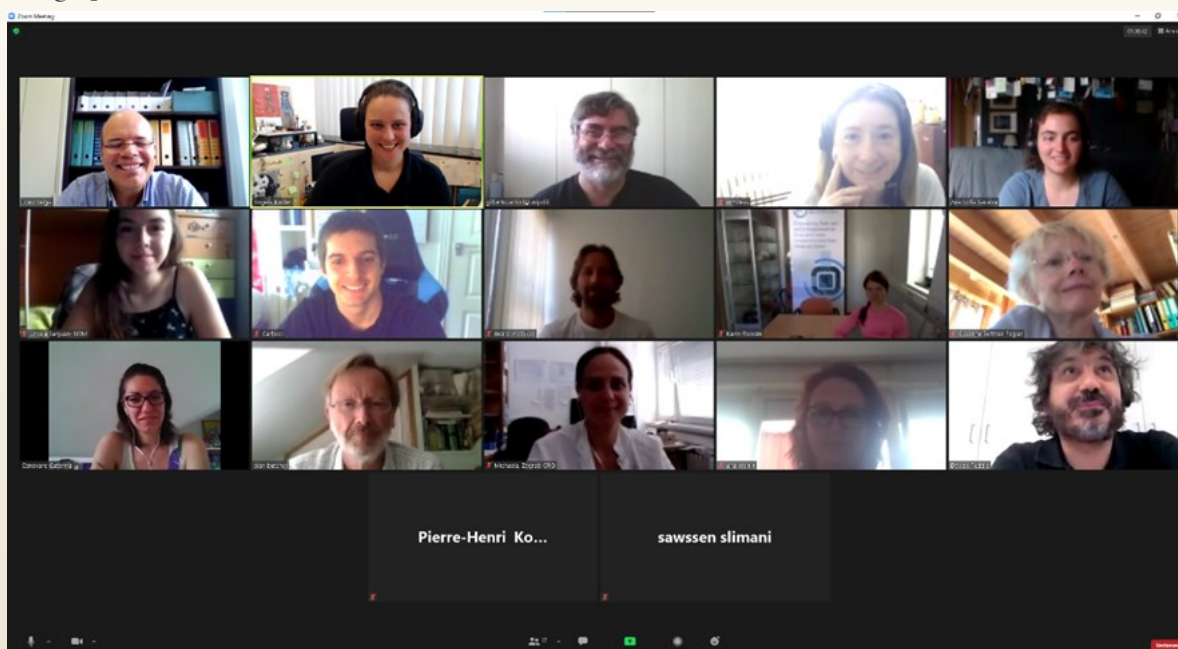
TAL
TECH



This activity has received funding from the European Institute of Innovation and Technology (EIT), a body of the European Union, under the Horizon 2020, the EU Framework Programme for Research and Innovation

Steering Committee Meeting, 16th June 2021

Due to travel limitations imposed by the current pandemic, the Consortium met online for the MineHeritage's 4th Steering Committee Meeting on June 16th. The original meeting was to be prepared by Clausthal University of Technology, where a technical visit to an historical mining site was programmed. Despite the misfortune of the impossibility to perform an in person meeting and to profit from the closer contact, the meeting counted with 18 participants from 12 partners involved. This allowed the sharing of the present point of situation of the projects activities and the discussion of future actions in the scope of MineHeritage project.



CNR: Dissemination in Italian

During 2021 CNR will organize a series of online events entitled "Il Progetto Mine Heritage, una piattaforma Europea di conoscenza e comprensione" (trad. Mine Heritage Project: An European platform of Knowledge and understanding) dedicated to local dissemination of Project Output (e.g. Video, Booklet, etc).

The first event of the series was held May 29, 2021 in the framework of the XIII edition of Italian days of Mines. Davide Peddis presented an overview of the project and the video of Porto Flavia. Fabio Granitzio (associazione Mineraria Sarda), Claudia Sanna (Comune di Iglesias) and Mauro Buosi (author of the book PORTO FLAVIA, le vicende della Vieille Montagne in Sardegna) participated in the event.

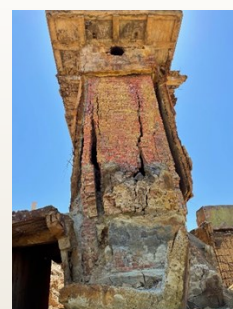
Facebook Page: <https://www.facebook.com/pages/category/Event/Notte-Europea-dei-Ricercatori-2019-Matera-622104124862010/>



MineHeritage Field Days

FCT NOVA @ São Domingos Mine, Portugal

On the 28th and 29th May, FCT NOVA team visited São Domingos Mine and village in Alentejo, South Portugal, to gather images and videos for the next MineHeritage's popular science materials. The village and the "Miner's House Museum" show the visitor the difficult life conditions of the miners and the worker's hierarchy. This mine amazed us with its unique landscape and colours capable of transporting visitors to another planet.



TalTech @ Aidu oil shale open cast, Estonia

The MineHeritage project predicts the production of videos relating to historical mining sites and raw materials in their respective countries and regions. For this reason, TalTech Department of Geology visited a closed Aidu oil shale open cast mine on May 12th, 2021, filmed with the drone, DJIMavic2Pro, and prepared the material for the next video related to the MineHeritage project, the video will be ready during the summer 2021.

Aidu oil shale quarry is located in Aidu village, Lügänuše municipality, Ida-Viru county, Estonia. It is an open-pit mine, opened in 1974. and in operation for 38 years during which approximately 90 million tons of oil shale were mined. The closed Aidu oil shale open cast mine is being turned into a sports and recreation facility.



Learning from MineHeritage

MineHeritage in class @ UGA, France

At University Grenoble Alps (UGA), MineHeritage activities have taken place in numerous classes directly impacting groups from 20 to 98 students. Classes from January to May have been held remote and were scheduled through the UGA Zoom license.



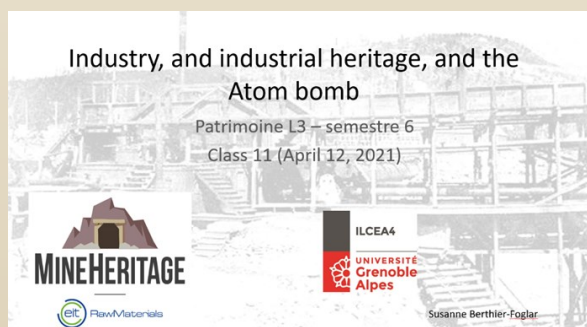
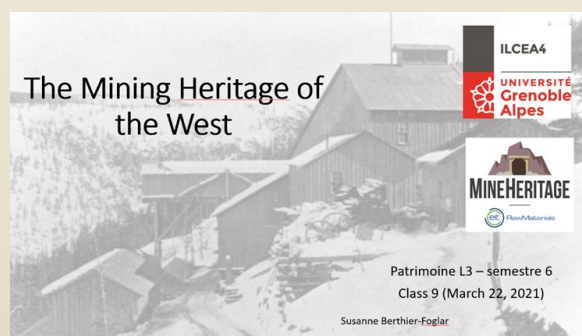
Interesting MineHeritage subjects were broached such as the importance of historic mining in the West of the United States, the problems of contemporary mining projects in Alaska, the illegal gold mines in the Amazon, the environmental discussions surrounding mining today as well as the cultural issues linked to the use of raw materials.

The MineHeritage classes at University Grenoble Alps (January to May 2021):



- March 1st, 2021: **California from the Gold Rush to Statehood** (2-hour class for English majors in Semester 6, attendance 98 students)
- March 8, 2021: **The Pebble Mine in Alaska** (2-hour class, Master in International Cooperation and Communication, Semester 8, attendance 24 students)
- March 15, 2021: **Illegal gold mining in the Peruvian Amazon** (2-hour class, Master in International Cooperation and Communication, Semester 8, attendance 24 students)

- March 22, 2021: **The Mining Heritage of the West of the United States** (2-hour class for English majors in Semester 6, attendance 98 students)
- April 12, 2021: **Industry, Industrial Heritage and the Atom Bomb in the United States** (2-hour class for English majors in Semester 6, attendance 98 students)



- January 2021 to May 2021: **Environmental problems** (18-hour class, Master in International Cooperation and Communication, Semester 9, attendance 24 students)
- January 2021 to May 2021: **Culture** (24-hour class, English majors, Semester 6, attendance 20 students)



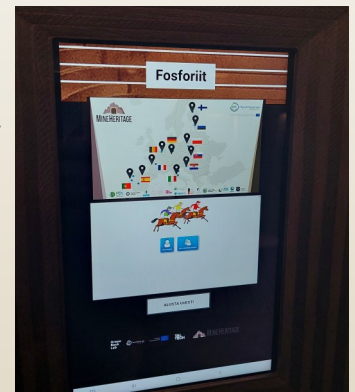
TalTech: Opening of the GreenRockLab

The GreenRockLab opened its doors in Mektory, Tallinn University of Technology, in February 2021. GreenRockLab offers teachers new opportunities to bring earth sciences to students in Estonian schools. It is also possible to book a room for the meetings. GreenRockLab is named after the glauconite sandstone found in Estonia, which is green in color. The GreenRockLab was developed under the auspices of the TalTech Department of Geology and its construction has been supported by the European Institute of Innovation and Technology (EIT) Raw Materials Network. GreenRockLab

provides an insight into earth crust topics that can not be obtained from a school bench or textbook. For example, a piece of the earth's crust - drill core is displayed for exploration to show what is really hidden in our earth's crust. Visitors can explore and touch Estonia's most important mineral resources and see the inevitable role of crustal resources in people's daily lives.

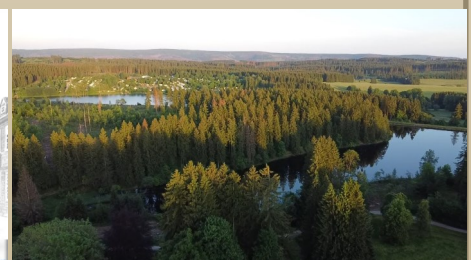


The short video, named "[Phosphorite Mining in Estonia](#)" has been developed as part of the MineHeritage project and it is also presented in GreenRockLab. Opening event outreach: over 50 people, including geography teachers from several schools all over Estonia. Students/teachers/other people are also able to visit this room hereinafter (attendance certainly reaches up to several hundred) and the room can be booked for the meetings.



TUC: MineHeritage out of the Greenscreen

Traveling and meeting others can be restricted by a global pandemic. But also, time can constrain traveling especially traveling back in time isn't so easy. For both problems, we found a workaround in the MineHeritage project by setting up a small green screen studio. Now, we can travel in time (a bit) as we did for the video on the Kaiser-Wilhelm-Schacht but can also rush through mines and times as we did for our contribution to the Steiger-Kick-Off in April. Also, the final video will incorporate greenscreen scenes combined with scenic views by a drone on the beautiful Post-Mining landscape of the Upper Harz.



MineHeritage @ Dissemination events

4.6.2021 @ FCT Nova: "The C Factor"

The Project Coordinator was invited to participate in The C Factor event organized by the department of Conservation and Restauration of FCT NOVA with the aim of connecting people from the several areas of expertise related to Heritage. The MineHeritage project was presented in this online event raising the attention of several participants who were keen to know more about the project.



29.1.2021 @ UNIZG-RGNF: Long Night of Museums at Radboj Museum, Radoboj

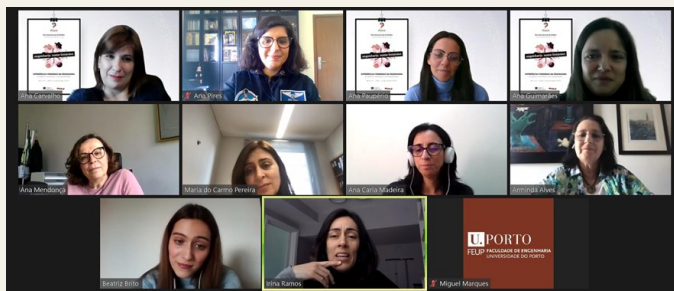
Main event was premiere of MineHeritage video „Radoboj”. [Link](#) to the video on Radoboj was active since 15:00. More than 700 people saw the video in first several days .

1.4.2021 @ TalTech: Virtual Open Doors Day

Virtual Open Doors Day of the TalTech School of Science in April, 2021 - Due to the restriction of Covid-19, Open Doors Day took place virtually. It was an opportunity to visit a virtual environment for exploring crustal topics and projects, virtual conversations with researchers and students etc. TalTech Department of Geology worked out its own virtual environment, named as MineralCafe.

8.3.2021 @ INESC TEC: Women's Experience in Engineering, Online Meeting, International Women's Day

This meeting was a great opportunity to meet other women, that breathe engineering, work, make science, educate, develop technology and are also moms, wives, daughters, etc... everyday women... It was a day to share experiences, lives, sacrifices, passions and much more, such as several projects where APires is involved, namely MineHeritage Project.



23.2.2021 @ INESC TEC: Online event at CLOSER Company

Meeting with the Closer Consulting community gathered for their Kick Off 2021, where APires was able to talk a out several projects where she is involved and about her work as a researcher .



20.4.2021 @ CUT: Steiger KickOff

CUT contributed with a video on the role of a Steiger in today's and historic mining to the KickOff of the Steigercollege. The video was presented during the synchronous event attended by 40 persons. The video is available under this [link](#).



10.5.2021 @ UNIZG-RGNF: Science festival @ Technical museum Nikola Tesla, Zagreb

Lecture held by Marta Mileusnić for high school students „Mine treasure under the feet of our ancestors”

Very successful lecture as several highschool pedagogues were present and asked the video of lectures for use as cross-curricular topics (eg. geography, history, economy).

14.5.2021 @ UNIZG-RGNF: Exhibition „Industrial Heritage of Hrvatsko Zagorje”

- Museum of the peasant revolts
- 14th of May – 26th of September 2021
- MineHeritage brochure „Radboj” is being disseminated; QR code of MineHeritage projekt is visible all the time at the exhibition

14.4.2021 @ FCT Nova: Expo FCT

EXPO FCT is a FCT NOVA initiative aiming to facilitate the choice of University degrees by pre-university youths, through demonstrations and activities in science and engineering. This year the event had to be entirely online and for the dissemination of MineHeritage a quiz was made and is still available in [EXPO FCT Website](#).



9.4.2021 @ INESC TEC: "Engineers for one day"

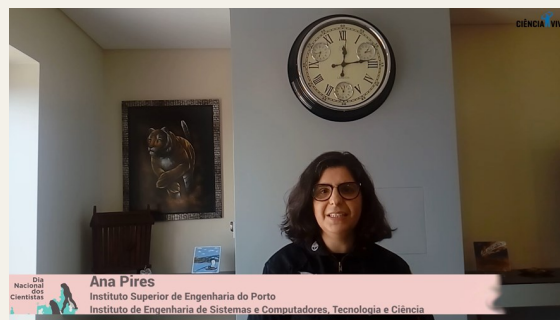
“Engineers for one day”, online Meeting, this year the Workshop was about Girls in Engineering and Technology, where it was possible to show several projects where APires is involved.



16.5.2021 @ INESC TEC: Remembering National Day of Scientist (Dia Nacional do Cientista)

Promoted by the Pavilhão do Conhecimento - Centro Ciência Viva where it was possible to share the thoughts and feelings of APires as a researcher.

Video and Facebook page



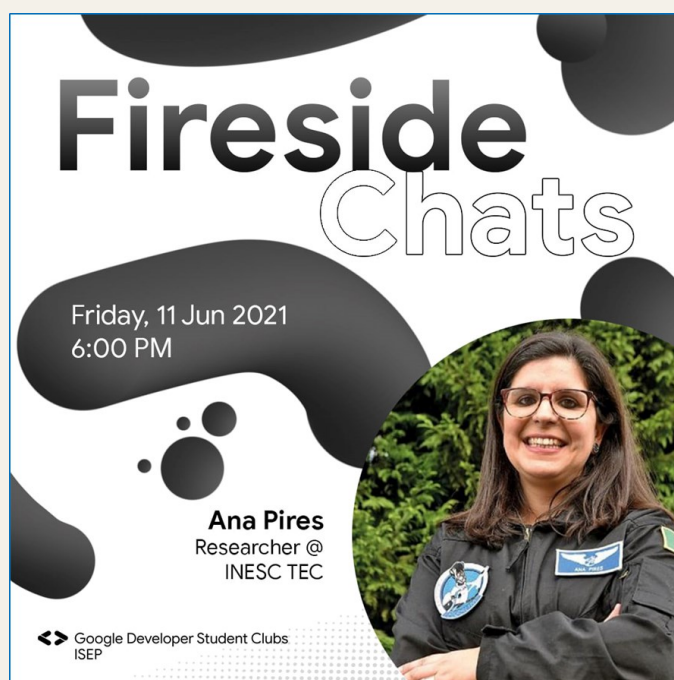
7.6.2021 @ UNIZG-RGNF: 10th International ProGEO Symposium

7th – 10th June: [Link to the event](#), Watch the [VIDEO](#)

Short oral presentation held by Marta Mileusnić: Interconnection between cultural and geological heritage at four Croatian historic mining sites:

11.6.2021 @ INESC TEC: “Fireside Chats” Online Meeting

Organized by Google Developer Student Club – ISEP, where it was possible to discuss with several students the work of APires as a researcher at the Centre for Robotics and Autonomous Systems of INESC TEC, and present all the projects where she is involved, including the MineHeritage Project.



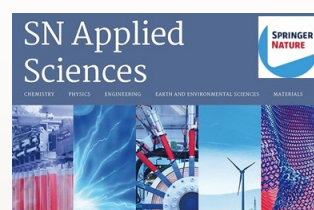


MineHeritage Publications

@INESCTEC

- ⇒ Pires, Ana. "Pires A., Dias A., Santos T., Oliveira A., Azevedo F., Ferreira A., Almeida J., Ferreira A., Chaminé H.I. and Silva E. (2021).

"Methodological insights from unmanned geotechnology systems in a rock quarry: aerial imagery, field surveys and GIS mapping". Applied Sciences - Springer Nature: under review



- ⇒ Pires, Ana. "Pires A., Dias A., Rodrigues P., Silva P., Santos T., Oliveira A., Ferreira A., Almeida J., Martins A., Chaminé H.I. and Silva E. (2021)(2021).

GeoTec: A System for 3D Reconstruction in Underground Environment (Aveleiras Mine, Monastery of Tibães, NW Portugal) "Advances in Geoengineering, Geotechnologies, and Geoenvironment for Earth Systems and Sustainable Georesources Management". Book Series [Advances in Science, Technology & Innovation], in press. (expected date for publication late 2021)



@SUT

- ⇒ **"Trace of iron mining in Poland"**, planned to be sent to Minerals in September/October .Authors: Wrona Paweł; Rózański Zenon; Pach Grzegorz; Niewiadomski Adam

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