



**MADI**

Minerals Africa Development  
Institution

# MADI AFRICA

Times

Newsletter

December - 2021 - Issue

## SEASONS GREETINGS FROM ALL OF US AT **MADI!**



### MESSAGE FROM CHAIRMAN

Feliz Navidad...Merry Christmas and A Happy 2022  
Thank you for supporting us through 2021;  
Thank you for being a part of our work;  
Thank you for showing up and contributing;  
Thank you for watching, listening and learning with us;  
Thank you for your interest in the African mineral resource sector;  
Thank you for growing with us;  
Thank you for being you.

Blessed Holidays!  
See you in 2022

### MESSAGES FROM THE MADI TEAM

Greetings,  
We thank the good Lord for taking us through 2021 and we are thankful for each and every one of you that walked our journey as MADI with us. This year has been tremendous for us and you are the key reason for this.

As we enter 2022, we would like to assure you of greater things to come from MADI and we hope for your undying support as it has always been. We would like to wish you joyful holidays for you and your family. May the joy of the Lord under-guard you.  
**Elizabeth Byarugaba , Chief Operations Officer MADI**

Hi There,  
Congratulations on braving yet another challenging year! Your resilience throughout the year begs a worthy celebration this holiday season. As we move into 2022, we are again presented with a blank page to make ourselves and the world around us a better place in our different endeavours. Remember, it is not what we do but how we do what we do that defines us.  
I hope 2022 is a great storyline for you and I wish you great health and achievement this year.  
**Okot Olaa- Advisor to MADI Management**

Warm greetings everyone,  
I would like to firstly thank God for the year 2021 and all the experiences and wonderful things it has brought. I would also like to thank the team at MADI for their hard work and for going above and beyond to make seemingly impossible things possible. And to you our dear reader, thank you for your support. May God keep blessing you. Happy 2022!  
**Raymond Amumpeire - ICT and Technical Lead MADI**

Hello,  
Thank you for being with us in 2021. We are thankful that God has kept you alive and healthy. We wish you happy holidays. God bless you.  
**Janet Nsabuwera - Administration MADI**

The beginning of every year marks seed and harvest time for all of us. May your 2022 be bountiful and may it come with blessings. To all our partners and colleagues, thank you for your support. We look forward to transforming Africa for the better TOGETHER.  
**Charlotte Kwitonda - Informations Officer MADI**



# HIGHLIGHTS

In the year 2021, despite all odds such as the wide-spread COVID-19 Pandemic, Minerals Africa Development Institution (MADI) has grown by leaps and bounds. Here are some of our highlights from 2021.

## AMREC PILOT PROJECT



In collaboration with the Makerere University Business School (MUBS), Uganda's Ministry of Energy and Mineral Development, Heriot-Watt University and Edinburgh Business School, MADI was able to implement an African Mineral and Energy Resources Classification and Management System (AMREC) pilot project.

The technical team carried out fieldwork activities in various districts in Uganda such as Mubende Kasanda District, Isingiro and Kasese to collect data that would later be used to make informed decisions on the status of minerals in Uganda

## MADI-SOKOKUU AFFILIATION



With a view of promoting African SMEs in the minerals sector and other related sectors, MADI joined hands with Aetrade Marketplace to promote trade on the 'Made in Africa' Digital Platform Sokokuu-Africa

## FIRST EVER MADINI CONVENTION 2021



Over the 19th and 20th of August 2021, we successfully held the first ever MADINI Convention, attracting over a thousand attendees with many dignitaries, experts and distinguished panellists brought together to discuss pertinent issues. The Convention brought together thousands of participants from 40+ countries, with several sessions over 2 days. Using platforms such as our Website, You Tube, Facebook Live and Zoom, participants were able to follow the conversation.

We would like to take this opportunity to thank you all for attending our first ever MADI MADINI CONVENTION. MADI would also like to thank our partners and various stakeholders who aided in organizing the first ever MADI MADINI CONVENTION, the biggest mineral resource sector convention of its kind in Africa.

The theme this year was DEMYSTIFYING AFRICAN PARTICIPATION IN THE MINERALS VALUE CHAIN and we believe justice was done to this theme and we look forward to the next MADINI Convention.

## REBRANDING



The Minerals Africa Development Institution in collaboration with The Economic Misfit under the able leadership of Okot Olaa undertook the process of rebranding MADI and restructuring its website. The team at Economic Misfit worked closely with the MADI team to ensure that they see to the implementation of the MADI vision to create a robust platform to de-risk the Africa minerals sector for sustainable development.

## WE MOVED! OUR NEW SOCIAL MEDIA HANDLES

As earlier announced to our dear readers and partners, our social media handles changed this year. For more information about MADI's work, you can now follow us on:

Facebook: Minerals Africa Development Institution

Twitter: @AfricanMADI

LinkedIn: Minerals Africa Development Institution

Instagram: @AfricanMADI

Contact us on our new email address: info@mafi.africa

Or visit our website: <https://madi.africa>

## COLLABORATION WITH AFRICA LEGAL SUPPORT FACILITY (ALSF)



The Africa Legal Support Facility and MADI presented their 2021 webinar series focused on sustainable mineral resource development in Africa. The objective of the series was to improve participants' knowledge and expertise in sustainable mineral resources management and development on the African Continent for inclusive growth and sustainable development of African economies. In 2021, we were able to hold two webinars of the six-part series and these were held in June 2021.

## MADI SPONSORSHIP OF 6 OUTSTANDING JEWELLERS AT VICENZAORO EXPO IN ITALY



Minerals Africa Development Institution in conjunction with Africa Business Council was able to sponsor a group of 6 outstanding women from all over Africa to exhibit their jewellery at the Vicenzaoro Jewellery Boutique Expo in Italy. This event was run from 10th September to 14th September 2021.

The 6 outstanding women were selected from all over Africa and they are:

**Dr. Haingo Raheisoa, Madagascar**

**Ms. Grace Njapau, Zambia**

**Ms. Mecktilder M. Mchomvu, Tanzania**

**Ms. Zinhle Ngiba, South Africa**

**Ms. Olaronke Olajide, Nigeria**

**Ms. Felicia Acheampong, Ghana**



## MADI-PROF. CALESTOUS JUMA ESSAY COMPETITION



Minerals Africa Development Institution in partnership with the Calestous Juma Legacy Foundation proudly presents the first ever

**MADI - Prof. Calestous Juma Essay Competition**

**Theme**

**Changing Mindset: Transforming Africa's Mineral Resource Sector for Sustainable Development**

**Deadline for submissions 30th November 2021**

Applicants have to be between **18-30 years** of age with legitimate citizenship in an African country.

For the Essay Questions and Submission Guidelines, visit: [info@madi.africa](mailto:info@madi.africa) or follow us on our **social media handles**

**Prizes to be won**  
1st prize - 700USD, 2nd prize - 350USD, 3rd prize - 175USD

[www.madi.africa](http://www.madi.africa)

Minerals Africa Development Institution (MADI) in partnership with the Calestous Juma Legacy Foundation (CJLF) in 2021 presented the inaugural MADI-Prof. Calestous Juma Essay Competition. We sought to bring together great young African minds to deliberate on solutions to persisting problems that plague Africa's mineral resource sector, both at a national, sub-regional and continental level. We invited essays from all over Africa on relevant thematic areas affecting the mineral resource sector along the value chain as we position ourselves for Africa's social and economic structural transformation, inclusive growth and sustainable development.

The theme for our essay competition was "Changing Mindset: Transforming Africa's Mineral Resource Sector for Sustainable Development" and we received over 50 essays from all over the continent within the time frame of August to December 2021 and these are being reviewed by our esteemed judges as we speak.

## THE CITIZENS' CONVENTION ON MINING



**CITIZENS' CONVENTION ON MINING 2021**

5TH ANNUAL CONFERENCE

Thur 28 | OCT | 2021  
10AM - 2PM

Join via **Zoom**  
#CCM\_Ug2021

28 October  
Virtual Event

**CITIZENS' CONVENTION ON MINING 2021**  
5th Annual Conference

**THEME**  
Transforming East Africa's mineral sector for inclusive and sustainable Mineral Exploration

**SPEAKER**  
Dr. Frank Mugenyi  
Executive Chairman  
Minerals Africa Development Institution

This event organized by Global Rights Alert is meant to enable forward looking engagement and discussions on harnessing the potential of East Africa's mineral wealth for sustainable regional development.

This year, along with other partners, MADI was privileged to be one of the organisers of this great event which attracted hundreds of people to learn and engage on pertinent topics.

## MADI COLLABORATION WITH NEXT GENERATION EXPLORERS AWARD ASSOCIATION (NGEAA)



MADI was proud to collaborate with the Next Generation Explorers Award Association (NGEAA). This collaboration aimed at supporting the development of future African geoscientists for responsible and sustainable African mineral resource development.

MADI and NGEAA teamed up to support Africa's mineral sector by focusing on local knowledge development whereby African geoscience students can enhance their university-acquired and collaborative group skill-sets on relevant applications used in the African and worldwide mineral exploration industry.

## LAKE KATWE MINERS' SACCO IN KASESE PROJECT

MADI under the ACP-EU Development Minerals Programme was able to implement a project in Lake Katwe to enhance and strengthen the capacity of ASM miners and traders in Katwe salt mining to enhance productivity ,create jobs,increase income and safeguard from the COVID-19 spread. This project was successfully implemented as the LAKE KATWE SALT WINNERS CO-OPERATIVE SAVINGS AND CREDIT SOCIETY LIMITED was launched.

## MADI COLLABORATION WITH AGATE PROJECT



The Minerals Africa Development Institute was proud to form a partnership with the Agate Project Ltd from Australia. This collaboration will feature a number of key aspects such as:  
Research and Training in the field of earth sciences  
Building Networks  
Capacity building and shared knowledge bases  
Educative experiences and opportunities

## MADI PARTICIPATION IN AFRICAN UNION COMMISSION EXPERT GROUP MEETINGS



In November 2021, MADI was privileged to be part of the AU Expert Group Meetings to develop guidelines on Artisanal and Small-Scale Mining (ASM) strategy and application of the Model Mining law by AU members. This meeting was held between 1st to 5th November at the Hilton Hotel in Nairobi, Kenya.

## MADI NEWS

## MADI COLLABORATION WITH iELEVATE

**MADI is proud to be collaborating with a team of like-minded innovative young people with a vision for the betterment of Africa from iELEVATE. This partnership will include knowledge resource sharing, social networking, and other aspects as necessary. MADI is excited to work with the team from iElevate.**



# INTERESTING READS

## DIGITIZING AFRICA'S MINES

By Landry Signé

Mineral resources are a critical source of revenue for Africa. In 2019, minerals and fossil fuels accounted for more than a third of exports from at least 60 percent of African countries. The continent produces around 80 percent of the world's platinum, two-thirds of its cobalt, half of its manganese, and a substantial amount of chromium, leaving it in a strong position to benefit from growing demand for these minerals. Moreover, Africa is believed to have some of the world's largest untapped mineral reserves.

Unfortunately, a lack of systematic geological mapping and exploration means that the full scope of the continent's resources remains unknown. To unlock mineral-rich African countries' full potential, mining companies and African governments must embrace Fourth Industrial Revolution (4IR) technologies. Artificial intelligence (AI), automation, and big data can help mining firms limit damage to the environment, improve working conditions, reduce operating costs, and boost productivity.

The adoption of efficient renewable-energy systems already is helping the mining sector reduce its environmental impact. Autonomous 4IR technologies complement the clean-energy transition by cutting fuel consumption in processes such as loading, hauling, crushing, and drilling. According to one estimate, driverless technology could lead to a 10-15 percent decrease in fuel use on mine sites.

Better use of data and analytics can improve mine performance as well. Mining companies generate enormous amounts of data throughout their operations, but only a few use it in a way that provides real value. This represents a major missed opportunity, because advanced analytics can optimize mine planning, increase yields, and reduce equipment downtime. In South Africa, a 30-year-old mine boosted its mineral recovery by 2 percent by applying advanced analytics to its main processing steps.

A worker packs cardboard boxes of cocoa liquor at Choco-Ivoire factory in San Pedro October 2, 2010. A new cocoa grinding factory started operations in Ivory Coast this week, director of export firm SAF Cacao Ali Lakiss told Reuters late on Tuesday, nudging Ivory Coast a step closer to being the world's top grinder.

The Syama mine in Mali is another example of a site that has benefited from digitalization. In 2015, Resolute Mining took over operations at Syama and transformed it into the world's first purpose-built automated mine. Employees use a fiber-optic network connected to above-ground control centers to manage and monitor all activities, from the clearing of the drill point to extraction, loading, and hauling. Although the initial investment was steep, the changes are expected to cut mining costs by 30 percent and improve overall efficiency. The machines can operate 22 hours a day, and there is no time lost due to shift changes.

4IR technologies will define the future of mining. But while they represent tremendous opportunities for boosting productivity, improving safety, and mitigating the environmental impact of mining, they also raise legitimate concerns. Many of the new technology-enabled jobs require skilled workers that the labor market cannot supply, implying limited employment opportunities in the absence of educational and training programs to reskill workers.

One proposed solution is for mining companies to use the profits gained from the higher margins made possible by the introduction of new technologies to train relevant workers in AI and machine learning. And new curricula in schools can teach the tech skills the next generation will need for 4IR-enabled jobs—including with the mining companies.

Another possibility is for mining companies to encourage the development of other local industries to reduce communities' dependence on the mine for employment. In Mauritania, mining companies finance a number of ventures that encourage local economic development, including a jewelry production facility, a brick-making plant, and an agricultural cooperative.





Industry leaders and policymakers must work together to capitalize on the opportunities that digitalization brings. Many mining companies are reluctant to invest in new operations that require a stable regulatory framework, because they do not trust African governments' capacity to enforce compliance. As a first step, governments must change that perception. After all, the economic benefits of digitalization extend to governments and local communities. As mines become more productive—and more profitable—national governments will have more revenue to spend on investment in infrastructure, like roads, schools, and health clinics.

Mines that embrace the digital transformation will increase their production, run more efficiently and effectively, and be more environmentally sustainable. They will set new standards for workers' health and safety, and they could contribute to reskilling through educational and training programs. In short, they will disrupt Africa's mining sector; but the advantages of digitalization, if harnessed correctly, will far outweigh the risks.





# // MINERAL COMMODITY PRICES

Source: WORLD BANK COMMODITIES PRICE DATA

Commodity	Unit	November 2021 (Price Average)	December 2021 (Price Average)
Aluminium	\$/mt	2,636	2,696
Copper	\$/mt	9,729	9,551
Iron Ore	\$/mt	96.2	117.0
Lead	\$/mt	2,330	2,302
Nickel	\$/mt	19,933	20,016
Tin	\$/mt	39,159	39,423
Zinc	\$/mt	3,311	3,399
Gold	\$/toz	1,822	1,790
Platinum	\$/toz	1,038	945
Silver	\$/toz	24.2	22.5

Available at <http://www.worldbank.org/commodities>





**MADI**

Minerals Africa Development  
Institution

