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# African Liquefied Natural Gas to attract \$103 billion in 2019. **read story page 2**

## Kenya's drama, music festival winners set for Uganda



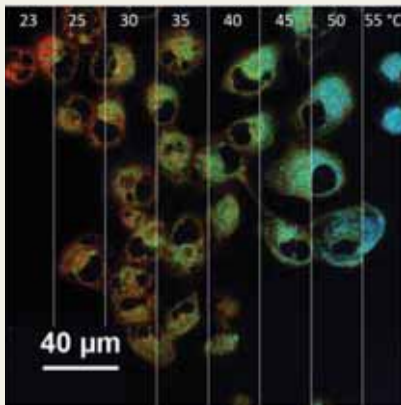
Kibabii University presents a Bukusu folk song during the Kenya National Music Festival finalists concert at Kabarak University on August 13, 2019....[read story on page 6](#)



**Traders in Uganda warned against buying food from Refugees**



**Rising to the challenge of malaria eradication**



Rice University chemists modified BODIPY molecules to serve as nano-thermometers inside cells

## New Nano-Thermometer Takes Temperature Inside Single Cells

How do you know a cell has a fever? Take its temperature. That's now possible thanks to research by Rice University scientists who used the light-emitting properties of particular molecules to create a fluorescent nano-thermometer. The Rice lab of chemist Angel Martí revealed the technique in a *Journal of Physical Chemistry B* paper, describing how it modified a biocompatible molecular rotor known as boron dipyrromethene (BODIPY, for short) to reveal temperatures inside single cells. The molecule is ideally suited to the task. Its fluorescence lasts only a little while inside the cell, and the duration depends heavily on changes in both temperature and the viscosity of its environment. But at high viscosity, the environment in typical cells, its fluorescence lifetime depends on temperature alone. It means that at a specific temperature, the light turns off at a particular rate, and that can be seen with a fluorescence-lifetime imaging microscope. Martí said colleagues at Baylor College of Medicine challenged him to develop the technology. "Everybody knows old thermometers based on the expansion of mercury, and newer ones based on digital technology," he said.

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# African Liquefied Natural Gas to attract \$103 billion in 2019

Africa is an exciting frontier in the global natural gas sector. The continent holds 7.1 percent of proven global gas reserves and is expected to contribute nearly 10 percent of global production growth through to 2024. On the demand side, Africa's large, urbanized and industrialized societies of the future will require reliable and sustainable power generation. With greenfield investments in Nigeria, Egypt, Mozambique and elsewhere reaching nearly \$103 billion this year, it is clear that liquefaction is viewed as the most profitable strategy for realizing Africa's gas potential.

By ABCAfrica reporter  
**ENERGY**

Nigeria accounts for over 50 percent of current LNG production capacity on the continent. With October 2019 seeing a final investment decision on the \$12 billion expansion of the country's liquefaction plant at Bonny Island in Rivers State. The Train 7 expansion project would increase Nigerian LNG production capacity by 35 percent, from 22 million tons per annum to 30 million. Current indications point to a positive verdict. The twenty-year old facility is owned and operated by a consortium which includes NNPC, Shell, Total and Eni. In North Africa, Egypt has successfully re-established itself as an important investment destination following the down

turn in the gas sector in 2014. In the first half of 2019, the behemoth Zohr offshore gas field produced 11.3 billion cubic meters - 3.6 times more than it did in 1H2018. The success is set to continue with reports earlier this year of a new Enidiscovey in the Nour North Sinai Concession. Evaluation is ongoing but there are hopes that the new field could rival the Zohr, which would open significant opportunities for investment in new liquification plants. In February, the Egyptian Natural Gas Holding Corporation awarded five new gas exploration concessions to Shell, ExxonMobil, Petronas, DEA and Eni in which it expects to see 20 wells drilled in June. Anadarko gave its final approval for a \$20 billion gas liquefaction and export terminal in Mozambique. The Area 1 project is



Africa is an exciting frontier in the global natural gas sector.

the single largest LNG project ever approved in Africa. And, it could be closely followed by Exxon's \$14.7 billion Area 4 development - FID is expected before the end of the year. Political stability and access

to East Asian markets could see Mozambique become a major global gas market over the next decade. Investors are also paying attention to smaller projects in countries like Mauritania, Senegal and Cameroon.

## Museveni Urges Ugandans To Master The Skill Of Reading And Writing

By Deo Kwizera  
**EDUCATION**

President Yoweri Museveni has said that the National Resistance Movement (NRM) Government is committed to achieving 100% literacy levels in the country, adding that efforts towards that goal have already borne great strides

with the current literacy rates now standing at 77% up from 43% in 1986. "Literacy rates were very low. Those who could read and write when NRM took over were at about 43%. It is now at 77%," he said. The President was speaking to delegates who attended the 3 day 11th Pan-African Literacy for All Conference at Kampala Serena



Uganda's President Yoweri Kaguta Museveni

Hotel. Under the theme 'Literacy: A Bridge To Equity' the conference seeks to see the region consolidate the gains that have so far been made in promoting literacy as well as identifying the challenges. The Reading Association of Uganda (RAU) in conjunction with its African umbrella organizations; the International Development Committee in Africa (IDC-A) and the International Literacy Association (ILA) is hosting literacy Researchers, Policy makers, Sociologists, Multilateral partners, Curriculum specialists, literacy educators to a forum of experts to share evidence-based findings, practices and policies that interrogate the role of literacy in bridging the Equity gap. Mr. Museveni assured participants that the Government of Uganda is now focusing on the development of skills as the struggle continues to eradicate the 23% illiteracy rate in the country. "We have covered much of the alphabet and numeracy, we now

have to deal with skills among the 77% as we still struggle to make the 23% also learn how to read and write and then add more content through skills," he added. He saluted the efforts of the pioneers of writing, saying that the group did a tremendous job in capturing formal writing of Bantu, Nilotic and Sudanic dialects, which was not an easy job. He used the occasion to encourage all Ugandans in particular and Africans in general to master the skills of reading and writing saying that it is a very crucial issue that should not be ignored. The Patron of the Reading Association of Uganda, Ms. Roy Tumusiime commended the President for sparing time to attend the conference. She saluted him and the NRM Government for embracing education for all, something she said has increased access to education in the country. She also saluted the Minister of Education and Sports, Hon. Janet Museveni for support to the Association.



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## NOTE FROM CEO

## Cross breed Cows to guarantee disease resistance



**KING CEASOR AUGUSTUS MULENGA**  
**CHIEF EXECUTIVE OFFICER**  
**LEADING SOCIETY TRANSFORMATION**

Cross breeding of Cows is a very important option for farmers intending to engage in commercial milk and beef production. Given the fluctuating climate conditions and the danger posed by cattle diseases, it's imperative that farmers adopt cows' crossbreeding. According to Veterinary Doctors, Livestock farmers seeking to adopt modern high yielding breeds will no longer need to import grown up animals that come from across the borders at exorbitant prices. Transferring an embryo from Michigan to Uganda is much cheaper compared to transporting a single bull at Shs20m. Chances of an imported bull adapting to the climate changes are negligible because in case of loss, it is a lot of money and for only a single animal. We need to change for better breeds and upgrade the quality and genetics for pure exotic breeds. The genetic transfer of breeds gives 50 per cent increase, in both dairy and beef production. Artificial insemination gives a farmer 50 per cent of the breed while an embryo gives pure breeds at cheaper prices with a process that takes 290 days for heifer to give birth. To ensure proper growth of the embryo and calf, a heifer must be at least three years old but after giving birth, a calf has to breast feed fully for seven months. The breeds expected would be pure and adaptable in Ugandan environmental conditions unlike one who buys an already grown up bull and cow.

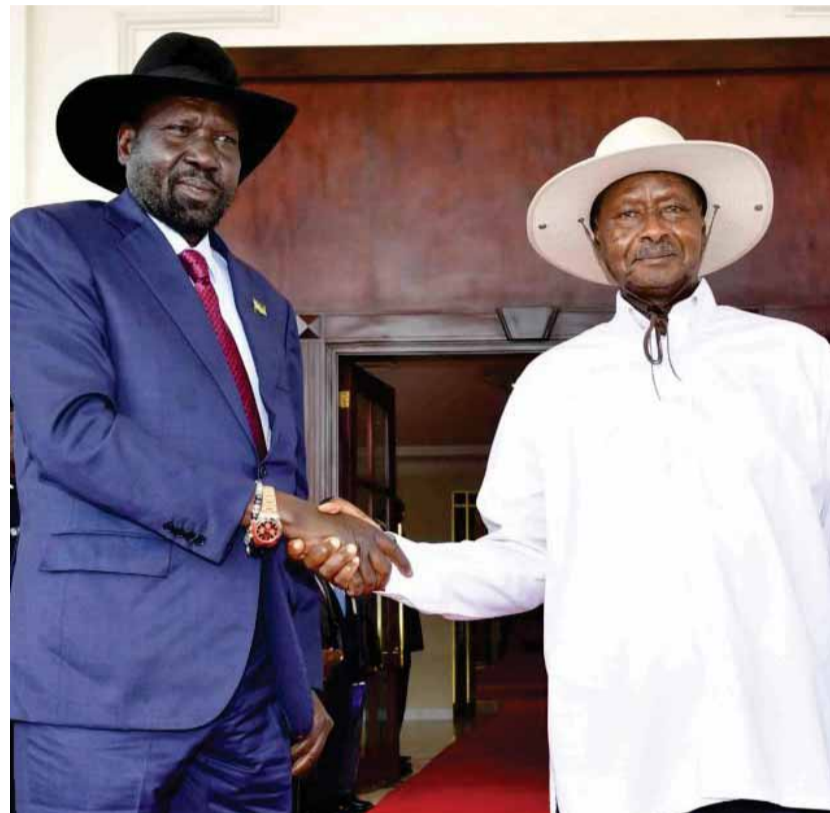
## Presidents Museveni, Salva Kiir hold bilateral meeting in Entebbe

President Yoweri Museveni and his South Sudan counterpart Salva Kiir have held bilateral discussions at State House, Entebbe on matters pertaining to the 2 sister countries. President Kiir arrived in Uganda on Saturday for a 2-day working visit at the invitation of his host. The two leaders' bilateral discussions also included matters relating to the extension of the road and electricity to South Sudan's Capital, Juba.

By Gloria Mbabazi  
**RELATIONS**

President Museveni told officials of the 2 countries at the conclusion of the tete-a-tete discussions with his guest, that the people of South Sudan do not need war but peace and elections in order to stabilize their country. On his part, President Salva Kiir talked about the situation in his country since 2013. "Now the guns are almost silent.

The forces that are still resistant are not a big threat. "I welcome all those that are willing to return home to participate in the transitional government before the national elections that are underway for people to take decision on who is to lead them," he said. President Museveni also introduced President Kiir to members of the East African Business Council (EABC) who had earlier held a meeting with President Museveni whom they briefed on the Council's plans to build a vibrant private sector ecosystem through increased national, regional and global engagement with the East African Government, people and business community.



President Museveni receives President Salva Kiir of South Sudan at State House Entebbe on Saturday Aug 24, 2019.

## Traders in Uganda warned against buying food from Refugees

By Gloria Mbabazi  
**REFUGEES**

Traders operating in and surrounding areas of refugee camps have been



Traders in Uganda warned against buying food from Refugees.

warned against trading in food supplies meant for refugees. This is in connection with reports implicating traders of targeting refugee settlements to buy food distributed to refugees by UN and its partner agencies, there by leaving refugees stranded. According to world vision, Uganda currently hosts 1.3 million refugee families and an accompanied children as they settle into new homes set up in refugee settlements. food distribution which is part of the humanitarian exercises has now ever been faced with challenges of starvation as most refugees have had a tendency of selling off relief supplies to get money and there after staying hungry. Ronald Apeku a world vision Humanitarian officer working at improving refuge settlement in the west Nile district of Arua says they have resorted to sensitizing of refugees as a measure to prevent them from selling food and staying Hungry.



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# Technology to help curb fraud in banks

By Gloria Mbabazi  
**SECURITY**

The Deputy Governor of the Bank of Tanzania Dr Bernard Kibesse is rooting for security and privacy of customer information. Dr Kibesse wants the banking industry to utilise the technology at their disposal to secure customers' trust. He was addressing middle and senior level cadres in the financial services sector, academia, government and regulatory bodies from six countries gathered in Arusha to discuss ethics and best practices in digital banking and finance. "Trust is the central ethical pillar for financial service professionals. Much as we handle the money belonging to other people, we must earn their trust," he said. The annual forum 19th East African Banking School which seeks to address merging challenges and

opportunities for fintech was organised by bankers of Kenya, Tanzania and Uganda. Experts from Nigeria, India and the US were in attendance. While East Africans have been sending and receiving money and loans instantly courtesy of new and radical transformations in financial services, the executive director of the Tanzania Institute of Bankers Patrick Mususa warned of emerging challenges brought by the innovations. He cited fraud and lack of laws and regulations to control vices. Gilbert Om'mbongo, the acting chief executive of Kenya Institute of Bankers, said the basis for embracing technology should be trust and integrity. "If the systems perform well, our economies will also grow," he added. He said Kenya witnessing cyber crime where bank staff conspire with con artists. But by using digital and agent channels to move



Experts warn of emerging challenges brought by innovations.

customers out of banking halls, banks have extended alternative channels, downsized branch networks

and capacity, thereby eliminating some services from the halls. Some of this technology has, however, also

introduced some disruptions in the financial services, sector such as staff reassignment and redundancy.

## SEACOM invests in fibre capacity to support cloud computing



SEACOM is already providing direct broadband access to corporate customers through its SEACOM Business arm.

By Gloria Mbabazi  
**FIBRE**

Pan-African service provider SEACOM has announced plans to double

the data capacity on its broadband submarine cable system from 1.5 terabytes to 3 terabytes. The move will see more businesses on the continent utilize emerging tech-

nologies such as cloud computing. SEACOM CEO Byron Clatterbuck says the decision is informed by the increasing demand for cloud-based data processing by companies with multinational operations across the continent. "It's not just about connecting from Africa to Europe and Asia anymore," Clatterbuck said. "A lot of content and computing power is moving onto the continent, so connectivity requirements are becoming more regional, and specifically inter regional. With such a complex

environment, greater capacity is essential." SEACOM is already providing direct broadband access to corporate customers through its SEACOM Business arm. As a partner to African business, the undersea broadband cable services provider has already enabled cloud-based operations for a variety of companies through high-speed, secure and reliable connectivity to platforms such as Microsoft Azure and Amazon Web Services. Going forward, the company says it plans on expanding

further inland, widening fibre access across the continent while targeting large and medium corporations with its premium offerings. "You will see more terrestrial cables being laid, and the quality of those builds will get better," Clatterbuck explained. He added "This isn't to say there aren't challenges. There is along way to go in terms of basic infrastructure provision, relating to roads, rails and highways, all of which make it easier and more affordable to deploy fibre-optic networks.

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## WHO and Africa CDC agree on joint actions to improve health security in Africa

The World Health Organization (WHO) and the African Union Commission (AUC) through its Africa Centres for Disease Control and Prevention (Africa CDC) have deepened their ties by endorsing an ambitious action plan that aims to tackle health security challenges facing the continent. The two organizations signed an agreement outlining clear mechanisms for collaboration that will maximize existing synergies.

By Gloria Mbabazi  
HEALTH

Her Excellency Amira Elfadil, African Union Commissioner for Social Affairs and Dr Matshidiso Moeti, WHO Regional Director for Africa participated in the endorsement ceremony on the margins of the 69th session of the WHO Regional Committee for Africa which is taking place this week in Brazzaville, Republic of the Congo. The agreement operationalizes a relationship which began in August 2016 when

Africa CDC was established. "It is three years to the day since WHO and Africa CDC joined forces. It is fitting, therefore, that today we are embarking on an even closer collaboration, one which will allow us to improve African health systems and save African lives," said Her Excellency Amira Elfadil, "by combining our strengths we can achieve this." The action plan identifies key areas for cooperation with particular emphasis on emergency preparedness and response, and health security in the overall context of health sys-

tems strengthening.

A joint task force with five technical working groups will guide the efforts in the areas of partnerships and resource mobilization, monitoring the progress in implementing International Health Regulations, public health emergency preparedness and response; strengthening surveillance and laboratory capacities and antimicrobial resistance. "With an acute public health emergency striking Africa every three to four days, a strong partnership between WHO and Africa CDC is critical," said Dr Moeti, "WHO has decades of experience in providing technical support to countries, while Africa CDC has access to the highest levels of African leadership. Together we can achieve our ultimate goal of a healthier Africa that is better able to cope with outbreaks and other health emergencies." The two organizations agreed to mobilize resources for key activities together and work to ensure that their efforts are complementary and synergistic. In order to maximize their combined impact, the workplan will be jointly monitored every six months.



Africa CDC agree on joint actions to improve health security in Africa

## South Sudan to move cargo faster

By Allan Kagawa  
TRANSPORT

The South Sudan National Revenue Authority (NRA) and TradeMark East Africa (TMEA) have entered a trade facilitation agreement to help Juba to promote trade and diversify from oil revenues by establishing modern systems for faster clearance of goods. The deal will link South Sudan to the Regional Electronic Cargo Tracking system (RECTs), which is currently implemented on the Northern Corridor in Kenya, Uganda, Rwanda and the DRC through the respective

revenue and Customs administrations. RECTs is a web-based integrated system used to monitor transit cargo from departure to the final destination. NRA Commissioner General Olympio Attipoe said the move is important as Juba aims to reduce the cost of security bonds, theft and diversions, and enhance security on the transit route from the port of Mombasa. TMEA says it hopes the unity government expected to be inaugurated in November will materialise. "We are committed to doing our part, but it has to be stressed that we need a government of national unity to stick to the peace



South Sudan has signed a deal that will link it to the Regional Electronic Cargo Tracking system

deal and start doing good work for the citizens in November," said TMEA CEO Frank Matsaert at the signing of the deal with the NRA last Friday.

## Development Bank of Southern Africa and Green Climate Fund partner to boost climate investments



The Development Bank of Southern Africa (DBSA) and the Green Climate Fund (GCF) signed an agreement to boost climate investments

By Gloria Mbabazi  
INVESTMENT

The Development Bank of Southern Africa (DBSA) and the Green Climate Fund (GCF) signed an agreement, which will kick-off a programme to accelerate investments into climate projects and break market barriers. The agreement seals the GCF's investment of USD 56 million into the DBSA's Climate Finance Facility (CFF), a first-of-its-kind climate finance facility in Africa using a pioneering Green Bank model. The programme will target South Africa, Namibia, Lesotho, and Eswatini, but has a strong potential to be replicated in other developing countries to rapidly scale up private sector climate investments. The CFF will break existing market barriers to climate financing by providing credit enhancements such as subordinated debt tranches and tenor extensions to de-risk and increase the bankability of climate projects in order to crowd-in significant investments from commercial banks and project sponsors. "Climate change is a severe and growing threat that affects Africa's economies, natural resources, livelihoods and social stability. The signing of this agreement today is a significant milestone that represents our concerted effort to address climate change and contribute to the broader low-carbon and resilient development trajectory in Southern Africa," says Patrick Dlamini, Chief Executive of the DBSA. "The CFF will enable the DBSA to increase our finance support to climate friendly projects in the region and crowd in private capital investors."

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# Kenya's drama, music festival winners set for Uganda

Top performers in the just-concluded Kenya National Music Festival and Kenya National Drama Festival will stage their artistic items in Uganda during the East Africa Music, Dance and Drama Festival. The festival will be held on August 30 to September 5, at Fort Portal. Kenya has separate drama and music festivals, unlike Uganda, Rwanda, Burundi and Tanzania which host one festival for both genres.



Kibabii University presents a Bukusu folk song during the Kenya National Music Festival finalists concert at Kabarak University on August 13, 2019.

By Allan Kaggwa  
**FESTIVAL**

quality items that ensure that only the best make it to the top.

Kenya's national music, drama and film festivals are the biggest events in East and Central Africa. There has been talk of holding an East African

The result, in Kenya's case, is high **Biggest event**

Community arts festival. According to the executive secretary of the Kenya National Drama and Film Festival James Indimuli, Riara Springs and Kianyaga Boys High School will represent the country in the play category in Uganda. Riara will stage a play, *Camels of Tarbaj*, scripted by Mr Justin Ongwen and produced by Mr Jane Mulinge.

**Fistula**

The play addresses vesicovaginal fistula (VVF), a condition that is estimated to affect two million women. Ng'iya Girls will present their winning cultural dance while Mary Hill Girls will pre-sent a modern dance. State House Girls will stage their award-winning choral verse, alongside Moi

Girls Nairobi. Kenya Institute of Professional Studies (Kips) will also take part after they dominated in the Swahili verse category under the theme 'Towards competence-based curriculum for technical institutes'. This category was sponsored by UNICEF.

**Quality education**

The main aim of the verse is to educate and inform the public of the importance of education. The verse encourages the public to work with local authorities and ensure all children get good and quality education. Kips also presented another Swahili verse on the theme 'Promotion of national and public service values'. The verse exposes some of the ills by civil servants.



Kenya's national music, drama and film festivals are the biggest events in East and Central Africa.

# S. African gov't prioritizes tourism in efforts to create jobs



South Africa's Tourism Minister Mmamoloko Kubayi-Ngubane

By ABCAfrica reporter  
**EMPLOYMENT**

Tourism can be the catalyst for rapid job creation in South Africa, Tourism Minister Mmamoloko Kubayi-Ngubane has said. Job creation is of the utmost priority for the government and tourism can be the catalyst to make it happen, the minister said in remarks posted on the government's website on Monday. This came as South Africans marked the Tourism Month launched on Friday to give impetus to the industry

in times of poor economic performance. Kubayi-Ngubane highlighted the importance of Tourism Month as a means to both South Africans and visitors from outside the country's borders to travel and experience the country's diverse offerings. Tourism has the potential to boost South Africa's economic growth and improve job creation, which requires an inclusive tourism sector, Kubayi-Ngubane said. "We remain confident that tourism will contribute to our country turning to positive economic growth desired by

our government and also contribute to more jobs to its maximum potential," she said. In March this year, a World Travel & Tourism Council report stated that South Africa has the largest tourism economy in Africa, having indirectly contributed 1.5 million jobs (9.2 percent of South Africa's employment) and 425.8 billion rand (about 27.9 billion U.S. dollars) in 2018. The report also indicated that the sector accounts for 8.6 percent of the country's GDP. The government is trying to meet the target of creating 21 million jobs

through tourism. To achieve this target, the Tourism Department will continue to work closely with the Department of Home Affairs on visa facilitation to increase access to the country by tourists, Kubayi-Ngubane said. She also stressed the importance of working closely with police and stakeholders in the sector to address the concerns of safety. According to the minister, the government will develop and drive an aggressive marketing campaign for both domestic and international markets.







**King Ceasor Game Reserve** is situated near Lake Mburo National Park, 21km from Kagate trading centre along Mbarara - Masaka highway. The game reserve has a variety of animals that is impala, zebra, buffalo, hippo, kobs, elland among others. Lake Kachera is part of the game reserve, it is used for fishing, transportation and a water source for both the people and some animals.

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# Rising to the challenge of malaria eradication

The World Health Organization (WHO) says accelerated research and development (R&D) in new tools for malaria prevention and treatment is key if the world is to eradicate malaria in the foreseeable future: today less than 1% of funding for health R&D investment goes to developing tools to tackle malaria. WHO also flags the urgent need for progress to advance universal health coverage and improve access to services, and better surveillance to guide a more targeted malaria response. The findings have emerged in a report from WHO's Strategic Advisory Group on Malaria Eradication (SAGme).

By Agencies  
RESEARCH

"To achieve a malaria-free world we must reinvigorate the drive to find the transformative strategies and tools that can be tailored to the local situation. Business as usual is not only slowing progress, but it is sending us backwards," according to Dr Marcel Tanner, Chair of the SAGme. The group has published the executive summary of its report ahead of a WHO-hosted forum on "Rising to the Challenge of Malaria Eradication" to be held in Geneva on 9 September 2019.

## Why malaria eradication matters

"Freeing the world of malaria would be one of the greatest achievements in public health," says Dr Tedros Adhanom Ghebreyesus, WHO Director-General. "With new tools and approaches we can make this vision a reality." Eradicating malaria would both save lives and boost economies. The health benefits would be greatest among some of the world's most vulnerable populations. Children under five account for 61% of all malaria deaths. More than 90% of the world's 400,000 annual malaria deaths occur in sub-Saharan Africa. The group's analyses showed that scaling up current malaria interventions would prevent an additional 2 billion malaria cases and 4 million deaths by 2030 provided those interventions reach 90% of the population in the 29 countries that account for 95% of the global burden. The cost of this scale-up is estimated to be US\$ 34 billion. The economic gain would be around US\$ 283 billion in total gross domestic product (GDP) – a benefit to cost ratio in excess of 8:1.

## Overcoming challenges to eradication

Global malaria infection and death rates have remained virtually un-



A health worker prepares to vaccinate a child against malaria, at Mitundu Community Hospital, in Malawi's capital of Lilongwe.

changed since 2015. WHO's World Malaria Report in 2018 revealed that the world is currently off track to achieve the 2030 goals set out in the WHO Global Technical Strategy for malaria 2016-2030 i.e. a 90% reduction in the malaria case incidence and mortality rate. In many countries, access to health services remains a major challenge. Only one in five pregnant women living in areas of moderate to high malaria transmission in Africa is able to obtain the drugs she needs to protect herself from malaria. Half the people at risk of malaria in Africa sleep under an

insecticide-treated net and just 3% are protected by indoor spraying with insecticides. This highlights the need to advance universal health coverage and strengthen health services and delivery systems, so everyone can access malaria prevention, diagnostics and treatment, when and where they need them, without suffering financial hardship. The group noted the need to rethink approaches. WHO and partners are already establishing some new strategic approaches to tackling malaria. Last November, for example, WHO and the RBM Partnership to End Malaria launched the

"High burden to high impact" approach. This aims to jump start progress against malaria by targeting attention to the 11 countries with 70% of the world's malaria burden 10 African countries and India. This complements efforts to secure certification among the countries seeking to eliminate malaria by 2020, the WHO "E-2020" initiative. So far, WHO has certified 38 countries and territories malaria-free.

## The need for new technologies

Most of the tools being used to tackle

## Challenges

Only one in five pregnant women living in areas of moderate to high malaria transmission in Africa is able to obtain the drugs she needs to protect herself from malaria.

malaria today were developed in the last century or even earlier: insecticide treated mosquito nets, indoor residual spraying, rapid diagnostic tests and drugs based on artemisinin. Promising new diagnostics, medications, insecticides and vector control approaches are being developed, alongside passive immunization therapies such as monoclonal antibodies. The world's first malaria vaccine, RTS,S/AS01, has been deployed in Ghana and Malawi, with plans for rollout in Kenya. SAGme highlights the urgent need to scale up R&D to strengthen this pipeline, pointing to the Malaria Eradication Research Agenda (malERA), which provides a useful starting point to guide needed R&D investment.

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