

medical research council unit the gambia

medical research council unit the gambia is a renowned biomedical research institution dedicated to advancing health sciences and improving public health outcomes in The Gambia and the wider West African region. Established as part of the Medical Research Council (MRC) global network, this unit has played a pivotal role in conducting cutting-edge research on infectious diseases, vaccine development, and epidemiological studies. Through collaboration with international partners and local communities, the Medical Research Council Unit The Gambia has contributed significantly to the understanding and control of diseases such as malaria, tuberculosis, and meningitis. This article provides a comprehensive overview of the unit's history, research focus areas, key achievements, and impact on public health. Additionally, it explores the infrastructure, capacity-building efforts, and future directions that continue to shape the unit's contributions to global health research.

- History and Establishment of the Medical Research Council Unit The Gambia
- Research Focus Areas and Programs
- Key Achievements and Contributions
- Collaborations and Partnerships
- Infrastructure and Facilities
- Capacity Building and Training Initiatives
- Future Directions and Strategic Goals

History and Establishment of the Medical Research Council Unit The Gambia

The Medical Research Council Unit The Gambia was founded in 1947 as a field station for malaria research. Over the decades, it has evolved into a comprehensive biomedical research center that addresses a broad spectrum of infectious diseases and public health challenges. The unit was initially established to support the development of effective malaria control strategies in West Africa, a region heavily burdened by the disease. Its strategic location in The Gambia, combined with a long history of scientific inquiry, has allowed the unit to become a cornerstone of health research in the region.

Origins and Early Research Focus

Initially focusing on malaria vector biology and epidemiology, the unit was instrumental in identifying mosquito species responsible for transmission and

evaluating insecticide-treated nets. Early studies provided foundational knowledge that informed malaria control policies not only in The Gambia but also across sub-Saharan Africa. The unit's early successes laid the groundwork for expanded research into other infectious diseases.

Evolution into a Multidisciplinary Research Institution

Over time, the Medical Research Council Unit The Gambia broadened its scope to include diseases such as tuberculosis, HIV/AIDS, and meningitis. The expansion was supported by increased funding, recruitment of specialized researchers, and enhanced laboratory facilities. Today, the unit integrates epidemiology, immunology, molecular biology, and clinical research methodologies to address complex health problems.

Research Focus Areas and Programs

The Medical Research Council Unit The Gambia conducts research across several critical health domains, prioritizing diseases that impose substantial morbidity and mortality in the region. Its multidisciplinary approach combines field studies, clinical trials, and laboratory investigations to generate evidence-based solutions.

Malaria Research

Malaria remains a primary research area for the unit, which focuses on understanding parasite biology, transmission dynamics, and resistance mechanisms. The unit has been involved in evaluating novel malaria vaccines, antimalarial drugs, and vector control interventions. Its research informs national and regional malaria elimination strategies.

Infectious Diseases Beyond Malaria

In addition to malaria, the unit studies tuberculosis, meningitis, hepatitis, and emerging viral infections. Its work includes surveillance of disease outbreaks, pathogen characterization, and vaccine efficacy studies. This broad infectious disease research portfolio enhances preparedness and response capabilities in The Gambia and neighboring countries.

Vaccine Development and Clinical Trials

The Medical Research Council Unit The Gambia is recognized internationally for conducting high-quality vaccine trials. Collaborations with global pharmaceutical companies and research institutions have facilitated the testing of vaccines against malaria, meningitis, and other infectious diseases. These clinical trials contribute to the global pipeline of vaccine candidates.

Key Achievements and Contributions

The unit's research achievements have had a profound impact on public health policy and practice both locally and globally. Its scientific contributions have advanced understanding of disease mechanisms and shaped effective interventions.

Landmark Studies in Malaria Control

One of the unit's most notable contributions is its role in validating insecticide-treated bed nets (ITNs) as a cost-effective malaria prevention tool. This evidence supported widespread ITN distribution campaigns, significantly reducing malaria incidence and mortality in The Gambia and beyond.

Development of Meningitis Vaccines

The Medical Research Council Unit The Gambia participated in pivotal clinical trials of the meningococcal conjugate vaccine, which led to the introduction of mass vaccination programs in the African meningitis belt. This intervention has drastically reduced the burden of meningococcal disease across the region.

Capacity to Respond to Emerging Health Threats

The unit has demonstrated agility in responding to emerging infectious diseases, including viral hemorrhagic fevers. Its robust surveillance systems and laboratory diagnostics enable timely detection and containment of outbreaks, protecting regional health security.

Collaborations and Partnerships

Strategic partnerships are central to the Medical Research Council Unit The Gambia's success. The unit collaborates with academic institutions, government agencies, international organizations, and non-governmental entities to leverage expertise and resources.

International Research Networks

The unit is a key member of the global MRC network and maintains partnerships with institutions such as the London School of Hygiene & Tropical Medicine and the World Health Organization. These collaborations facilitate knowledge exchange and joint research initiatives.

Government and Community Engagement

Close cooperation with the Gambian Ministry of Health ensures that research findings translate into policy and practice. The unit also engages local communities through outreach and education programs, fostering trust and

participation in research activities.

Infrastructure and Facilities

The Medical Research Council Unit The Gambia boasts state-of-the-art research infrastructure that supports its diverse scientific agenda. Continuous investment in facilities and technology enables high-quality research output.

Laboratory Capabilities

Equipped with biosafety level 3 laboratories, molecular biology suites, and immunology platforms, the unit can conduct advanced pathogen analysis and immunological assessments. These facilities are essential for vaccine development and infectious disease research.

Clinical Research Facilities

The unit operates dedicated clinical trial centers with inpatient and outpatient services, ensuring rigorous conduct of clinical studies. These centers adhere to international standards of ethical research and participant safety.

Capacity Building and Training Initiatives

Recognizing the importance of human capital, the Medical Research Council Unit The Gambia invests heavily in training local scientists, clinicians, and public health professionals. Capacity building enhances sustainable research and health system strengthening.

Graduate and Postgraduate Training

The unit offers training programs, fellowships, and mentorship opportunities in epidemiology, clinical research, and laboratory sciences. Many Gambian researchers have advanced their careers through these initiatives, contributing to national research capacity.

Workshops and Community Training

Regular workshops and seminars are conducted to update staff and community health workers on the latest research methodologies and public health practices. These programs promote knowledge dissemination and community empowerment.

Future Directions and Strategic Goals

The Medical Research Council Unit The Gambia continues to evolve its research agenda to address emerging health challenges and global health priorities.

Strategic planning emphasizes innovation, sustainability, and regional impact.

Expanding Research on Non-Communicable Diseases

In response to changing disease patterns, the unit is increasingly focusing on non-communicable diseases such as diabetes and cardiovascular conditions. This shift aims to provide comprehensive health solutions for The Gambia's population.

Strengthening Data Science and Genomics

Investment in bioinformatics and genomics research is underway to enhance understanding of pathogen evolution and host genetics. These capabilities will enable precision medicine approaches and improved disease control strategies.

Enhancing Regional Collaboration

The unit plans to deepen collaborations with West African research institutions to build a robust regional health research network. This initiative will facilitate coordinated responses to shared public health threats and foster scientific innovation.

- Cutting-edge biomedical research
- Comprehensive infectious disease studies
- International collaborations and partnerships
- Advanced research infrastructure
- Capacity building and training programs
- Strategic focus on emerging health challenges

Frequently Asked Questions

What is the Medical Research Council Unit The Gambia?

The Medical Research Council Unit The Gambia is a renowned research institute focused on health and medical research, particularly infectious diseases, located in The Gambia.

What are the main research areas of the Medical Research Council Unit The Gambia?

The main research areas include infectious diseases like malaria,

tuberculosis, HIV/AIDS, and emerging diseases, as well as vaccine development and public health.

How does the Medical Research Council Unit The Gambia contribute to global health?

It contributes by conducting critical research on infectious diseases, developing vaccines, and providing data that informs health policies and interventions globally.

Is the Medical Research Council Unit The Gambia affiliated with any international organizations?

Yes, it is part of the London School of Hygiene & Tropical Medicine and collaborates with international partners such as WHO and the Wellcome Trust.

What role does the Medical Research Council Unit The Gambia play in vaccine development?

The unit conducts clinical trials and research to develop and test vaccines, particularly for malaria and other infectious diseases prevalent in Africa.

How can researchers collaborate with the Medical Research Council Unit The Gambia?

Researchers can collaborate by applying for joint research projects, participating in clinical trials, or through academic partnerships facilitated by the unit's administration.

What impact has the Medical Research Council Unit The Gambia had on malaria research?

The unit has made significant contributions by studying malaria transmission, drug resistance, and testing new malaria vaccines, influencing malaria control strategies.

Does the Medical Research Council Unit The Gambia offer training or educational programs?

Yes, it offers training and capacity-building programs for local and international researchers in clinical research and public health.

Where is the Medical Research Council Unit The Gambia located?

It is located in Fajara, The Gambia, along the Atlantic coast near the capital city, Banjul.

How is the Medical Research Council Unit The Gambia

funded?

Funding comes from various sources including the UK government, international research grants, philanthropic organizations, and partnerships with global health institutions.

Additional Resources

1. Advances in Tropical Medicine: Insights from the Medical Research Council Unit The Gambia

This book explores groundbreaking research conducted by the Medical Research Council Unit in The Gambia, focusing on tropical diseases such as malaria, tuberculosis, and neglected tropical diseases. It highlights the challenges and successes faced in disease control and prevention in West Africa. The text also discusses innovative diagnostic and treatment approaches developed through collaborative efforts.

2. Malaria Research and Control: Contributions from The Gambia MRC Unit

Dedicated to the study of malaria, this volume presents comprehensive research findings from The Gambia MRC Unit. It covers the epidemiology, immunology, and vector control strategies that have shaped malaria management in the region. The book also evaluates vaccine trials and the impact of public health interventions on malaria incidence.

3. Infectious Diseases in West Africa: The Role of the Medical Research Council Unit The Gambia

This book offers an in-depth review of infectious diseases prevalent in West Africa, with a special focus on research led by The Gambia MRC Unit. It examines diseases such as HIV/AIDS, hepatitis, and respiratory infections, emphasizing the importance of surveillance and community engagement. The text also discusses capacity building and technology transfer in the region.

4. Vaccinology and Immunology: Contributions from The Gambia Medical Research Council

Focusing on vaccine development and immunological research, this title details the significant contributions of The Gambia MRC Unit to global health. It includes studies on vaccine efficacy, immunization programs, and immunogenetics. The book also highlights collaborative trials and their implications for vaccine policy in low-resource settings.

5. Public Health and Epidemiology: Lessons from The Gambia MRC Unit

This book delves into the epidemiological studies and public health initiatives spearheaded by The Gambia MRC Unit. It covers disease surveillance, outbreak response, and health system strengthening in rural and urban communities. The text provides case studies illustrating how research findings have informed national health policies.

6. Genomics and Infectious Disease Research at The Gambia Medical Research Council

Highlighting the integration of genomics in infectious disease research, this volume examines how The Gambia MRC Unit utilizes genetic tools to understand pathogen diversity and host responses. It discusses advances in sequencing technologies and their applications in tracking disease outbreaks. The book also explores ethical considerations in genomic studies within African populations.

7. Community Engagement and Ethical Research Practices: The Gambia MRC Experience

This title addresses the ethical frameworks and community involvement strategies employed by The Gambia MRC Unit in conducting medical research. It emphasizes respect for local cultures, informed consent, and benefit-sharing with participant communities. The book serves as a guide for researchers working in similar socio-cultural contexts.

8. Childhood Diseases and Interventions: Research Initiatives by The Gambia Medical Research Council

Focusing on pediatric health, this book reviews studies on common childhood illnesses such as pneumonia, diarrhea, and malnutrition conducted by The Gambia MRC Unit. It highlights intervention strategies, including immunizations and nutritional programs, aimed at reducing child mortality. The text underscores the importance of integrating research with community health services.

9. Climate Change and Health: Research Perspectives from The Gambia Medical Research Council

This book explores the emerging field of climate change impacts on health, drawing on research from The Gambia MRC Unit. It discusses how changing environmental conditions influence disease patterns, vector distribution, and food security. The work calls for adaptive health policies and interdisciplinary research to mitigate climate-related health risks in West Africa.

Medical Research Council Unit The Gambia

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medical research council unit the gambia: National tuberculosis prevalence surveys 2007-2016, 2021-05-03 Between 2007 and the end of 2016, 24 countries implemented a total of 25 national tuberculosis prevalence surveys using methods recommended by WHO. The 25 surveys consisted of 13 in Asia and 12 in Africa. Collectively, survey findings have informed the policies, plans and programmatic actions needed to address gaps in TB diagnosis and treatment and to reduce the burden of TB disease. Finally, the 24 countries have a robust baseline for assessing progress towards new global targets set in the UN Sustainable Development Goals (2016-2030) and WHO's End TB Strategy (2016-2035). The methods, results, successes achieved, challenges faced and lessons learned from the 25 surveys were comprehensively documented in the book. We viewed such a product as a global public good, that should be available to all those with an interest in and commitment to using survey findings, now and in the future e.g. academics, donors, public health officers and national TB programmes. As with implementation of the 25 surveys themselves, the book is the result of a major global, regional and national collaborative and collective effort, with more than 450 contributors from all around the world.

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medical research council unit the gambia: World Congress on Medical Physics and Biomedical Engineering May 26-31, 2012, Beijing, China Mian Long, 2013-02-11 The congress's unique structure represents the two dimensions of technology and medicine: 13 themes

on science and medical technologies intersect with five challenging main topics of medicine to create a maximum of synergy and integration of aspects on research, development and application. Each of the congress themes was chaired by two leading experts. The themes address specific topics of medicine and technology that provide multiple and excellent opportunities for exchanges.

medical research council unit the gambia: *In vitro diagnostic tests for serious bacterial infection, including neonatal sepsis, among infants aged 0–59 days* World Health Organization, 2025-07-25 The WHO Target Product Profile for in vitro diagnostic tests for serious bacterial infection, including neonatal sepsis, defines the essential and desirable characteristics of tests to support early, accurate diagnosis among infants aged 0–59 days. Designed for both hospital and non-hospital settings, the target product profile aims to guide manufacturers, regulators and implementers in developing accessible, affordable tools that improve clinical decision-making, reduce unnecessary antibiotic use and save lives, especially in low-resource settings where the burden of neonatal sepsis remains critical.

medical research council unit the gambia: Bringing Innovative Practices to Your School Jayson W. Richardson, 2019-10-10 Exploring issues of student agency, equity, assessment, teaching, management, teacher leadership, and use of technology, this book provides strategies, tips, and guidance for enacting innovative change in today's schools. Drawing from unique and creative approaches at international schools, real practitioners share their stories and best-practices. Chapters contain engaging snapshots of the innovative practices currently happening in international schools, translate those practices into leadership actions, and show how those innovations are played out in localized contexts. This exciting book is for every school and district leader keen to think outside the box, reassess their schools' strengths, and improve the purposes and means by which they educate students.

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medical research council unit the gambia: **Global research agenda for antimicrobial resistance in human health** World Health Organization, 2024-12-13 Antimicrobial resistance is a significant global health threat, linked to 4.95 million deaths in 2019, with low- and middle-income countries experiencing disproportionately higher mortality rates. A global research agenda has been developed to prioritize impactful topics for mitigating antimicrobial resistance in human health, focusing on WHO priority bacterial and fungal pathogens, as well as drug-resistant *Mycobacterium tuberculosis*. Through a systematic review and expert consultation, 2340 knowledge gaps were distilled into 175 research topics, with the top 40 selected based on expert opinion of feasibility, policy relevance, impact, and equity. This agenda aims to direct investment and action to the most pressing and relevant research, ultimately translating priorities into fundable proposals, especially for resource-limited settings.

medical research council unit the gambia: *Geneva Health Forum 2022 Poster Book* Antoine Flahault, Antoine Geissbuhler, Véronique Maye, Bruno Lab, 2023-12-18 Social and environmental crises are increasingly impacting the health of populations. Inequalities in access to care are growing, and the current design of health systems is becoming increasingly fragile and inadequate to address these challenges. It is crucial to reinvent a new approach to global health that takes into account the current social and environmental crises, further involves civil society and academia, and harnesses the opportunities of digital development. In these times of significant international tension, it is of utmost importance for Geneva to reinforce its unique position as a neutral platform for multilateral dialogue. The Geneva Health Forum (GHF) is a platform for innovative practices in global health and a space for science-based and inclusive diplomacy. Established in 2006 by the University Hospitals of Geneva (HUG) and the University of Geneva (UNIGE), the Geneva Health Forum is organised in close collaboration with 24 partners, including prominent international organisations based in Geneva, such as the WHO, the International Committee of the Red Cross (ICRC), Global Fund, GAVI, Médecins Sans Frontières (MSF), and the UN. The mission of the Geneva Health Forum is to contribute to the improvement in health and access to health care worldwide. To achieve this goal, it aims to give visibility to innovative field experience, to establish a

constructive dialogue between global health actors from different sectors, as well as to foster collaborations between them.

medical research council unit the gambia: WHO Malaria Policy Advisory Group (MPAG) meeting report, 4, 5 and 7 March 2024 World Health Organization, 2024-06-28 On 4, 5 and 7 March 2024, the WHO Malaria Policy Advisory Group (MPAG) convened in Yaoundé, Cameroon, to review updates and progress, and to provide guidance on thematic areas of work by the Global Malaria Programme. The meeting focused on the following topics: malaria vaccine introduction and scale-up, and the Gavi-supported malaria learning agenda; the High burden to high impact (HBHI) approach; subnational tailoring; biological threats to vector control in Africa; the strategy to respond to antimalarial drug resistance in Africa; the development of guidelines recommendations on tafenoquine, primaquine and near-patient glucose-6-phosphate dehydrogenase (G6PD) diagnostic tests to support radical cure of *Plasmodium vivax*; and malaria elimination, including zoonotic malaria.

medical research council unit the gambia: WHO Malaria Policy Advisory Group World Health Organization, 2025-07-24 On 8-10 April 2025, the WHO Malaria Policy Advisory Group (MPAG) convened for its 26th meeting to review updates and progress, and to provide guidance on thematic areas of work by the Global Malaria Programme. Following an update from the Global Malaria Programme on its recent activities, the meeting focused on the following topics: responding to changes in global malaria resourcing and architecture; subnational tailoring of malaria interventions and strategies; gender equality, human rights and health equity in the malaria response; malaria elimination; operational guidance on vector control; and drug resistance.

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providing a complete picture of public health issues

medical research council unit the gambia: In Celebration of Women in Developmental Epigenetics Mellissa Mann, Masako Suzuki, Claudia Keller Valsecchi, Shihori Yokobayashi, 2024-12-18 At present, less than 30% of researchers worldwide are women. Long-standing biases and gender stereotypes are discouraging girls and women away from science-related fields, and STEM research in particular. Science and gender equality are, however, essential to ensure sustainable development as highlighted by UNESCO. In order to change traditional mindsets, gender equality must be promoted, stereotypes defeated, and girls and women should be encouraged to pursue STEM careers. Frontiers in Cell and Developmental Biology is proud to offer this platform to promote the work of women scientists, across the field of Developmental Epigenetics. The work presented here highlights the diversity of research performed across the entire breadth of Developmental Epigenetics research and presents advances in theory, experiment, and methodology with applications to compelling problems. Please note: to be considered for this collection, the first or corresponding author should identify as a woman.

medical research council unit the gambia: Global atlas of medical devices 2022 World Health Organization, 2022-11-24 The 'Global Atlas of Medical Devices 2022' is a comprehensive reference published by the World Health Organization. It provides detailed profiles and analysis of medical device availability and usage across different countries worldwide. The atlas aims to enhance understanding and facilitate informed decision-making in the global health community. It presents indicators and methodologies for evaluating the medical device landscape, emphasizing the significance of equitable access to health technologies. Intended for policymakers, healthcare professionals, and international organizations, this atlas serves as a vital tool for assessing current medical device resources and identifying areas for improvement. The publication underscores WHO's commitment to advancing global health through reliable data and analysis.

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medical research council unit the gambia: Infectious Disease Epidemiology Kenrad E. Nelson, Carolyn Masters Williams, 2014 Now in its third edition, this comprehensive volume is recognized as the most authoritative review of the epidemiology of infectious disease. Divided into five sections that cover methods in infectious disease epidemiology, airborne transmission, diarrheal diseases, blood and body fluid as a reservoir of infectious diseases, vectorborne and parasite disease, the book includes 'state-of-the-art' chapters on methodological issues, pathogenesis, and comprehensive reviews of virtually all known infectious diseases. New to the Third Edition: 1. All chapters updated with significant new information 2. HIV chapter completely updated including results of trials of Male Circumcision, HIV-vaccines, female condoms, Microbicides and new drugs 3. New chapter on Infectious Disease Eradication (e.g. Smallpox, Polio, Measles) 4. New chapter on Pneumococcal Disease (with material on S. pneumonia moved from the ARI and Vaccine chapters) 5. Influenza chapter updated with new material on H1/N1 and control/prevention of Influenza during a pandemic 6. Consolidation of material from the chapters on Outbreaks and Surveillance. 7. Nosocomial Infection chapter is shortened and updated with a new section on

nosocomial/community MRSA8. Malaria chapter updated with new information on bed nets, prophylactic therapy of pregnant women and other high risk populations as well as new detailed examination of the organization, implementation, and accomplishments of the WHO--Roll-Back Malaria program; and a new description of the 5th Human Malaria parasite--P.knowlesi and its Epidemiology.9. STD chapter is updated with new information on the rapid diagnosis of STDs using urine PCR-methods as well as new information on partner prophylactic treatment of STDs10. New information in Chickengunya virus, Enterovirus 71, Nipah and Hendra virus infections to the Emerging infections chapter.11. Hepatitis chapter is revised with new information on HEV virus12. New brief chapter discussing the various models of behavioral change that are useful in Infectious Diseases research--e.g. Health Belief model etc.

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medical research council unit the gambia: Revolutionizing Tropical Medicine Kerry Atkinson, Prof. David Mabey, 2019-08-27 A comprehensive resource describing innovative technologies and digital health tools that can revolutionize the delivery of health care in low- to middle-income countries, particularly in remote rural impoverished communities Revolutionizing Tropical Medicine offers an up-to-date guide for healthcare and other professionals working in low-resource countries where access to health care facilities for diagnosis and treatment is challenging. Rather than suggesting the expensive solution of building new bricks and mortar clinics and hospitals and increasing the number of doctors and nurses in these deprived areas, the authors propose a complete change of mindset. They outline a number of ideas for improving healthcare including rapid diagnostic testing for infectious and non-infectious diseases at a point-of-care facility, together with low cost portable imaging devices. In addition, the authors recommend a change in the way in which health care is delivered. This approach requires task-shifting within the healthcare provision system so that nurses, laboratory technicians, pharmacists and others are trained in the newly available technologies, thus enabling faster and more appropriate triage for people requiring medical treatment. This text: Describes the current burden of communicable and non-communicable diseases in low- to middle-income countries throughout the world Describes the major advances in healthcare outcomes in low-to middle-income countries derived from implementation of the United Nations/World Health Organisation's 2000 Millennium Development Goals Provides a review of inexpensive rapid diagnostic point-of-care tests for infectious diseases in low-resource countries, particularly for people living in remote rural areas Provides a review of other rapid point-of-care services for assessing hematological function, biochemical function, renal function, hepatic function and status including hepatitis, acid-base balance, sickle cell disease, severe acute malnutrition and spirometry Explores the use of low-cost portable imaging devices for use in remote rural areas including a novel method of examining the optic fundus using a smartphone and the extensive value of portable ultrasound scanning when x-ray facilities are not available Describes the use of telemedicine in the clinical management of both children and adults in remote rural settings Looks to the future of clinical management in remote impoverished rural settings using nucleic acid identification of pathogens, the use of nanoparticles for water purification, the use of drones, the use of pulse oximetry and the use of near-infrared spectroscopy Finally, it assesses the potential for future healthcare improvement in impoverished areas and how the United Nations/World Health Organization 2015 Sustainable Development Goals are approaching this. Written for physicians, infectious disease specialists, pathologists, radiologists, nurses, pharmacists and other health care workers, as well as government healthcare managers, Revolutionizing Tropical Medicine is a new up-to-date essential and realistic guide to treating and diagnosing patients in low-resource tropical countries based on new technologies.

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