

# KHARTOUM

# 2019

## SUDAN SMARTDEV CONFERENCE

مؤتمر السودان للتنمية  
الذكية



## Seventh Sudanese Diaspora International Conference



December, 2019



Khartoum, Sudan



[WWW.SUDANKNOWLEDGE.ORG](http://WWW.SUDANKNOWLEDGE.ORG)



Prof. Ibrahim Bani



Rasha Alhaj



Dr. Ali Mohamed Aliraqi



Dr. Sarra Ahmed



Dr. Abdelrahim Ahmed



Somia Hamid Ibrahim



AbdulSalam Seid Ahmed



Prof. Elsadig Musa



Dr. Ahmed A. M. Elnour



Dr. Ghada Abuzaid



Salah Idriss



Dr. Elfatih Abdelraheem



Prof. Allam Ahmed



Dr. Nagat Eltoun



Dr. Osman Tangasawi



Reem Elhussien



Sufyan Abdelrazig



Dr. Tayseer Elfaki



Mohamed Elhag



Dr. Ali Elbireer



Dr. Ali Muddathir Ahmed



Dr. Moawia Yahia



Dr. Saria Hassan



Dr. Waiel A Bashari



Dr. Hala Abuzeid



Prof. Hunud Kadouf



Reem Faysal



Ghada Ahmed Elashi



## About the Sudanese Diaspora Conferences

Adopting a more holistic approach, the diaspora conference aims to provide a stimulus for knowledge exchange and discussion that focuses on issues relating to the role of diaspora in technology transfer (TT) and achieving sustainable development (SD) to critically examine the relations and links between diaspora, Sudan and host countries, and attempts to outline policy and strategies to support the role of diaspora in developing, creating wealth and achieving SD in Sudan. The conference also aims to learn lessons from the successful communities across the world and emulate the ideas and innovations of these communities by Sudan. The main objectives are:

- Initiate and establish a network of diaspora and diaspora organisations having a common ground in promoting SD in Sudan.
- Identify ways in which Science, Technology and Innovation (STI) can enable Sudanese diaspora to contribute more effectively to achieve SD in Sudan.
- Explore global viewpoints on different issues relating to STI and SD and why they are important, and to provoke forward thinking on the role of STI in solving Sudan's problems related to sustainability.
- Address growing concerns for the future of our interlocked ecological, political and economic systems in a highly populated world that is characterised by major social and economic disparities.
- Cooperate with national and international organisations and donors to achieve SD in Sudan.
- Define and implement a learning and collaboration platform that efficiently supports all interaction and work between different partners.
- Develop a framework for the analysis of the role of academic and research institutions and societies in achieving SD in Sudan.
- And finally make the conference into a regular event.

## 7th Sudanese Diaspora International Conference

The aim of this conference is to ensure that Sudanese Diaspora groups are involved in the development and review of policies that impact on the future of Sudan. They are consulted with regard to the objectives and desired outcomes of the policy, and the best means of achieving the United Nations 2030 Agenda for SD in Sudan. The conference will therefore critically address the question of how Sudan can achieve the 17 Sustainable Development Goals (SDGs) of the 2030 Agenda and to provoke forward thinking on the role of Sudanese diaspora in the future of Sudan.

This multi-disciplinary conference is part of our Sudan Knowledge (SK) Diaspora Conference Series aims to provide the participants the opportunity to share their knowledge and experiences from all over the world on major global issues; the emphasis is on the importance of evidence-based planning to overcome the challenges facing Sudan's efforts to achieve a sustainable future. For more details watch presentations from our previous events.

The conference will bring together international experts and high-level Sudanese Diaspora (students, researchers, practitioners, policy-makers, ordinary citizen) from the public and private sectors to share their strategic vision on the critical situation in Sudan and how the Diaspora can contribute to help Sudan achieve a sustainable and inclusive SD. The conference will analyse the status quo of Sudan uprising and the current challenges facing Sudan to achieve its objectives as well as the different dimensions and perspectives of the likely future challenges and the changing global paradigms.

For Sudan to succeed in the future, Sudanese youth must be equipped with all necessary skills and capabilities to manage and adapt to future challenges. We therefore encourage the participation of youth in the debate and we are keen to make their voices heard and consequently enabling the decision makers to consider those views and ideas in their big decisions.



It is hoped that the conferences will be a good opportunity for all Sudanese diaspora to reflect on their knowledge and experience for Sudan's efforts to achieve SD. New perspectives on how these can be improved to better serve their goals will be developed. The conference also aims to learn lessons from the successful communities across the world.

## Theme

The theme of the conference is to strengthen the role of Sudanese diaspora across the world in achieving the United Nations 2030 Agenda and its 17 SDGs for SD in Sudan. The current situation in Sudan requires developing new methods and approaches to suit the challenges and opportunities of this new era of digital revolution. These new approaches call for actions to create different appropriate ways of doing things and of doing new things that will be essential to solve our future problems and help in the implementation of the 17 SDGs. Systematic search for opportunities is important for helping to ameliorate the many problems facing Sudan. We must therefore produce, consume and organise ourselves differently.

- **Smart Development** refers to development characterized by sustainability, and efficiency, in response to tremendous global technological developments, influenced by social, economic, cultural, scientific and educational characteristics. In this context, the conference aims to discuss and explore various approaches and different ways which can contribute to the analysis, implementation, monitoring, evaluation, and dissemination of SD goals and objectives. The conference aims to develop a new SD model which is intelligent and decentralised. While the main theme of the conference is Smart Development but there are other topics which will be discussed during the conference such as other Development Models; Urbanisation; Development and History; Enterprise Development; Human Capital; Industrial Sector; Agricultural Sector and Services Sector.
- **Public-Private-Partnership (PPP):** Until the late 1960s, in most developed and emerging countries, the state has been the major sector responsible for promoting economic and social development, therefore, in addition to the public sector, the conference will recognize the role of the private sector together with the public sector (please refer to the United Nations Joint Inspection Unit (JIU) 2018 report on the Role of Public Private Partnerships (PPPs) in the Implementation of Agenda 2030 for more details and recommendations). The private sector can play a larger role in helping governments and academia focus investments on high-priority and high demand skills, thus young students are ready for employment the moment they graduate. The aim of the conference is to strengthening the role of both public and private sectors in achieving the UN 17 SDGs of the 2030 Agenda.
- **Policy Research:** According to the recent report by JIU 2019 titled "Strengthening the policy research uptake in service of the 2030 Agenda for sustainable development", achieving the 17 SDGs of the 2030 Agenda also requires evidence-based policies and planning at every level and therefore the conference will also include substantial components on evidence-based research and policy planning.
- **Knowledge Management:** JIU 2016 report "Knowledge Management in the United Nations System", identified the important contribution of Knowledge Management (KM) to the implementation of the new holistic and collaborative approach on which the 2030 Agenda is based. JIU argued that knowledge can be the most natural integrative factor system-wide and for all the stakeholders in the implementation of the 2030 Agenda.

- **Diaspora as Agents of Development:** The collaboration between the Diaspora and those working within Sudan offers several opportunities and contributes to increase productivity towards sustainable and inclusive knowledge-based growth. Building constructive relationships between the Diasporas and Sudan require that Diasporas be treated not as a mere resource, but as partners and investors with mutual benefits. It has long been argued that Diasporas will be most interested in contributing to SD efforts when they have a sense of belonging in relation to their country of origin. Therefore, it is very important to establish trust between Diasporas and governments in the country of origin. In doing so, governments need to invest in identifying their Diasporas abroad and in understanding their skills and interests. Many sustainability problems can only be tackled by connecting the diaspora with those working within the country of origin, for example combating the results of climate change, diseases such as malaria, reservation of natural resources, fighting land degradation or limiting the loss of biodiversity and many other problems. Moreover, knowledge or evidence-based policymaking is indispensable if gaps in living standards are to be narrowed. Therefore, building capacity in country of origin is necessary for competing in the global arena and there it is critical to turn the diaspora into a positive tool for SD as well as serving as role models for the youth in the country of origin.
- **Youth Engagement:** SK is very keen to encourage the engagement of children and youth from across the world in the conference. We are keen to make the voice of all our children and youth heard and consequently enabling the decision makers to consider those views and ideas in their big decisions. The entire concept of SD is about the future and the future is all about the children and youth! Youth population is growing rapidly in all regions of the world including Sudan and we are very keen to understand the children and youth perspectives and expectations for their future to help them be ready to grasp the various opportunities generated in the digital economy. We strongly believe our children and youth should be the cornerstone of any strategy by all governments and policy makers. We must listen to our children and youth and more importantly how we can help our youth with their future employment plans and aspirations. Youth from all-over the world are encouraged to participate in the conference and present their research, perspectives and initiatives.
- **Women Empowerment:** Sudanese women from across the world have an untapped potential as a primary mover of greater development within Sudan. Their role is very crucial for increased development, but challenges remain. And so, significant reforms in economic, social, and political institutions must be made to create an enabling environment for women participation and empowerment. However, it appears that investments in human development are not readily translated to better economic and political outcomes for women. Unfortunately, women's potential and crucial role in development in Sudan is still impeded by these economic and social factors. Women's participation is also very important in advancing peace, unity and combating terrorism, which is a most serious threat to SD in Sudan. It has also been recognized that women have been largely excluded from the processes of conflict management and prevention and that their role is important in the achievement of lasting peace and security (UN, 2015). With this, there is a need to increase women's participation in peace processes since out of 31 global peace processes from 1992 to 2011, only 4% of key stakeholder representatives were women (UN WOMEN, 2011 cited in OXFAM, 2016). Women in peacekeeping missions are also crucial given their broad set of skills that helps in improving trust in communities as a whole (OXFAM, 2016). In general, women's participation helps in accelerating resolution and countering terrorism while ensuring that women's rights are protected.

## Program

The conference program will include: an international conference; start-ups; social enterprise competitions; an exhibition; an investment symposium; and a social program including tourist excursions and visits to investment projects in Sudan. See list of sample papers and presenters at the end (more to be added)

## Publications

In addition to the conference proceedings, all papers will be reviewed for publication in our special issues in our flagship journal about Sudan, International Journal of Sudan Research (IJSR).

## Papers and presenters (more to be added)

- **Mastering public policy for the implementation of the United Nations 2030 Agenda and Sustainable Development Goals**  
*Prof. Allam Ahmed, World Association for Sustainable Development, UK*
- **A letter to the Minister of Industrial and Trade Development, Transitional Government of Sudan: An immediate plan to embark on structural transformation and economic diversification**  
*Dr. Ghada Abuzaid, African Development Bank, Cote D'Ivoire*
- **Yale-Sudan partnership to strengthen Post-Graduate public health education in Sudan**  
*Dr. Saria Hassan, Yale School of Medicine, United States*  
*Prof. Ibrahim Bani, Emory University, United States*
- **Artisanal mining in Sudan; a deadly work opportunity that could be made safer and sustainable**  
*Dr. Tayseer Elfaki Mustafa, Global Medical Technology Ltd, United Arab Emirates*
- **Tourism, as a creative economy system: crafting Sudanese model**  
*Dr. Ali Mohamed Aliraqi, King Saud University, Saudi Arabia*
- **Achieving SDG targets in Public Health Nutrition: Is Sudan on track?**  
*Prof. Ibrahim Bani, Emory University, United States*  
*Dr. Nagat Eltoun, King Saud Bin Abdulaziz University for Health Sciences, Saudi Arabia*
- **International Accreditation for Improving Medical Laboratories in Sudan**  
*Dr. Ali Elbireer, International Aids Vaccine Initiative (IAVI), United Kingdom*
- **Consequences of Mercury Used by Artisanal and Small-Scale Gold Mining Processes a Case of River Nile State Sudan**  
*Dr. Ali Muddathir Ahmed, University of Gezira, Sudan*
- **The role of SWAT model for strategic analysis in the performance of entrepreneurship projects in Sudan**  
*Dr. Fadwa AbuElhassan Mohamed Farah, Sharjah University, United Arab Emirates*
- **Telemedicine and its Applications in Low-income Countries**  
*Hiba Esmat, University of Khartoum, Sudan*  
*Rayan Abdelnabi, University of Khartoum, Sudan*  
*Ahmed Osman, University of Cambridge, United Kingdom*  
*Dr. Wael A Bashari, University of Cambridge, United Kingdom*
- **An appraisal of legal training for the legal profession UK as a case study**  
*Abdul Salam Seid Ahmed, Solicitor and Notary Public, United Kingdom*
- **Autonomous Settlements: an approach towards achieving sustainable urban planning of Sudan**  
*Ghada Ahmed Elashi, Heriott Watt University, United Kingdom*
- **HealthChain: A blockchain enabled Health Supply Chain Management System - Towards Universal Health Coverage**  
*Dr. Elfatih Abdelraheem, United Nations Development Programme (UNDP), Turkey*

- **Gum Arabic More Than Emulsifier and Food Additive; A New Experimental Validation of Anti-Proliferative Against Colorectal Colon Cancer Cell lines: Part 2**  
*Dr. Ahmed A. M. Elnour, International Islamic University, Malaysia (IIUM) & University of Kordofan, Sudan*  
*Dr. Mohamed E. S. Mirghani, International Islamic University (IIUM), Malaysia*  
*Prof. Dr. N. A. Kabbashi, International Islamic University (IIUM), Malaysia*  
*Dr. Djabir Daddiouaissa, International Islamic University (IIUM), Malaysia*  
*Dr. Khalid Hamid Musa, Qassim university, Saudi Arabia*  
*Prof. Dr. Nour Hamid Abdurahman, Universiti Malaysia Pahang, Malaysia*
- **The biggest challenges developing cities in Africa are likely to face over the next 10 years and how they can be overcome using interdisciplinary and systems thinking approaches**  
*Maimanah Idris, Shun-chan Tsai and Yixuan Jin, University College London, United Kingdom*
- **Digital technology role in achieving financial inclusion via Sudanese microfinance mobile banking adoption**  
*Prof. Elsadig Musa Ahmed and Anwar Ammar, Multimedia University, Malaysia*
- **Decent work and economic growth a view of the young Sudanese generations**  
*Dr. Tayseer Elfaki Mustafa, Global Medical Technology Ltd, United Arab Emirates*  
*Reem Faysal, British Gas, United Kingdom*  
*Salah Idriss, Saudi Investment Bank, Saudi Arabia*  
*Kawther Ahmed, Sudanese Human Resources Management Society, Sudan*
- **Changing the mindset - cultural requirements for industrialisation of Sudan**  
*Dr. Osman Tangasawi, AVL List GmbH, Austria*
- **Can Honey Cure Cancer? - Clinical Cases Report**  
*Rasha Alhaj, Queen Mary University of London, United Kingdom*
- **Increasing utilisation of reproductive health services in humanitarian settings: Abo Shouk Camp Model**  
*Dr. Salma Kanani, Nile University, Sudan*
- **Rapid and smart transformation (connecting the Dots to improve performance)**  
*Mohamed Elhag, P3 Transform, UK*  
*Prof. Allam Ahmed, World Association for Sustainable Development, UK*
- **Assessment and identification of Goldplan insecticide on soil bacteria**  
*Badreldin Salaheldeen Ahmed and Alshfa Khalid Elgaber, University of Khartoum, Sudan*
- **Human Trafficking in Sudan**  
*Somia Hamid Ibrahim, Paddington Development Trust, UK*  
*Prof. Allam Ahmed, World Association for Sustainable Development, UK*
- **Geology and Gold Prospecting in the Ariab Mining Lease Area, Northeast Sudan**  
*Yaser Salaheldeen, University of Khartoum, Sudan*
- **Characterization and effect of Calcareous layer geopedon on cropping cycle in different pivots irrigated areas in Sudan**  
*Dr. Moawia Yahia Babiker, Research and Development Technical Center, Sudan*
- **Towards Sustainable Organic Farming Systems to secure food production in Sudan**  
*Dr. Sarra Ahmed Mohamed Saad and Inaam Fathi Khalil, National Center for Research, Sudan*

- Awareness of sustainable food production at Gary Area, Khartoum-Sudan  
*Sufyan Abdelrazig Ossman, Khartoum Refinery Company, Sudan*
- Structural control on gold mineralization revealed by remote sensing and GIS techniques in central north Darfur State, West Sudan  
*Dr. Badreldin A. H. Hassan, National Center for Research, Sudan*  
*Dr. Khalid A.Elsayed Zeinelabdein, Al Neelain University, Sudan*
- Bees for Peace, Prosperity and Sustainable Development in Sudan  
*Prof. Seifeldin Abdelrahamn, National Center for Research, Sudan*
- Climate Change Refugees in Sudan “Causes and Protection Measures”  
*Reem Elhussien, Sudan Knowledge, Sudan*
- Management of Waste from Pharmaceutical Industry in Khartoum North Industrial Area (Arabic)  
*Dr. Muna Ali Mohamed Ahmed, University of Khartoum, Sudan*
- Assessment of Application of composted organic waste on remediating chromium polluted soils (Arabic)  
*Amna Abdelhadi Ali Hussein and Dr. Abbas Babiker, Omdurman Islamic University and Dr. Sarra Ahmed Mohamed Saad, National Center for Research, Sudan*
- Innovations and entrepreneurship towards better health-supporting healthcare Start-ups: A new movement to accelerate cures in Sudan, the Middle East and Sub-Saharan Africa  
*Dr. Anmar Saif Elislam Elsheikh Homeida, University of Gezira, Sudan*
- Processing and quality of low-fat Ice Cream from Camel milk using natural additives for contribution as functional food  
*Prof. Ibtisam E. M. El Zubeir and Amna S. M. Ahmed, University of Khartoum, Sudan*
- Impact of fertilization management and soil conditions on soil respiration (CO<sub>2</sub> efflux) in a semi-arid environment of Seleite farm -Sudan  
*Abutalib Balla Mohammed and Zhao C. Yi, Chinese Academy of Science, China*  
*Dr. Sarra A. M. Saad, National Center for Research, Sudan*
- The role of legislations, laws and policies in the formation and promotion of residential neighbourhoods: case study Al Sahafa-Khartoum  
*Dr. Nawal Ibrahim Idres Ahmed, National Center for Research, Sudan*

## References

[www.sudanknowledge.org/journals/ijsr/](http://www.sudanknowledge.org/journals/ijsr/).  
[www.un.org/sustainabledevelopment/development-agenda/](http://www.un.org/sustainabledevelopment/development-agenda/)  
[www.un.org/sustainabledevelopment/sustainable-development-goals/](http://www.un.org/sustainabledevelopment/sustainable-development-goals/)  
[www.sudanknowledge.org/conferences/diaspora/](http://www.sudanknowledge.org/conferences/diaspora/)  
[www.youtube.com/channel/UCnDn7ekYuBOo1rzBdFkRTPw?](https://www.youtube.com/channel/UCnDn7ekYuBOo1rzBdFkRTPw?)  
[www.sudanknowledge.org/journals/ijsr/](http://www.sudanknowledge.org/journals/ijsr/)  
[www.un.org/en/ga/search/view\\_doc.asp?symbol=S/RES/224229%282015%20%&referer=http://www.un.org/en/documents/index.html&Lang=E](http://www.un.org/en/ga/search/view_doc.asp?symbol=S/RES/224229%282015%20%&referer=http://www.un.org/en/documents/index.html&Lang=E)  
[iknowpolitics.org/sites/default/files/wps\\_factsheet\\_final\\_feb2016.pdf](http://iknowpolitics.org/sites/default/files/wps_factsheet_final_feb2016.pdf)