

”الشجرة التي تتخلى عن جذورها بتييس... ووطني
هو أمي، وإذا أمي مرضت بتركها وبدور على أم
ثانية أو يبقى حدها وبرعاها لتشفى“
الفنان السوري دريد لحام

Celebrating & Supporting Our Youth..



Team Sudan:

2020 FIRST Global Challenge - Connecting Communities

In this article, we will shed some light on our participation as Team Sudan in 'FIRST Global Challenge' and the approach to STEM learning.

In sharing with you our experience in this challenge, we hope at the end of the article, we will have familiarised you with some themes associated with this topic.

About us:

As the team representing Sudan in FIRST Global Challenge 2020, we were initially selected by a team of coaches, having gone through a selection process consisting of application submissions and nominations. Our team consisted of 6 members in the age group of 13-15: *Elaf Salah El-Din ; Khaled Rashad ; Samar Osama ; Ammar Ayed, Maram Mohammed ; Youssef Esmat*. Including 3 coaches: *Ibrahim Moustafa ; Muhammad Mahjoub ; Noha Ahmed*. In addition to: *Dania Reda - Graphic Design ; Muhammad Al-Madani - Video Editing*.



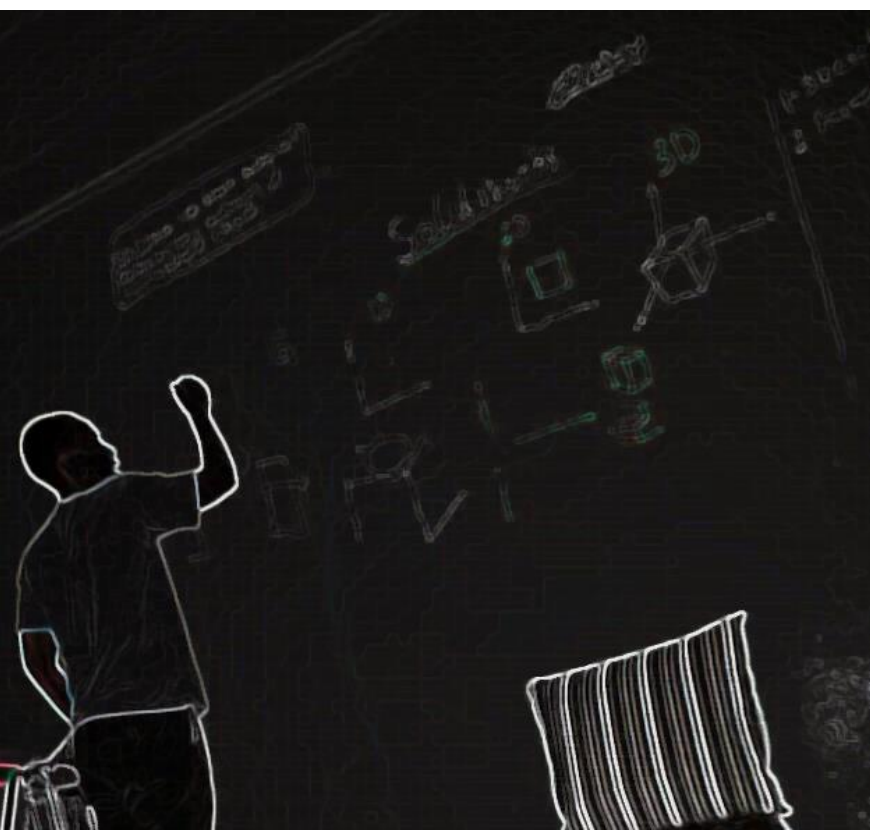


Whereas our individual passions for STEM brought us together, FIRST Global was the right opportunity for all of us to pursue these passion further and more seriously.

When we wrote this article, we had completed half of the competition, where we went through three practical challenges in which the tasks concentrated around testing our mechanical skills; this included designing a launcher to a kite with certain specifications; designing a serial motion interaction machine; and designing animations using computer programs, all of which encompassed the theme of this year's competition '*connecting communities*'.

The fourth challenge, which we attempted was designing a robot that performs a daily task. There were also various challenges related to social networking sites, of which there are plenty now in existence. In total, we participated in 15 different challenges.

In the category of social media, challenges varied and included a selection of media outputs such as articles, photos and videos with team members talking about the themes of the challenge. This challenged fulfilled the overall aim of the challenge this year, which is in communicating with societies, in addition, introducing individuals and societies to the field of STEM learning.





About FIRST Global Challenge:

The mission of FIRST Global is to inspire science and technology leadership and innovation in young people from all nations in order to increase understanding, impress the importance of cooperation, address the world’s most pressing issues, and improve quality of life for all. This is accomplished through the FIRST Global Challenge that culminates with an international robotics game, which will be held in a different nation each year.

This year the challenge kicked-off in June and finished at the end of September.

This is the third time that Sudan participated in this competition. Due to the current global health state, the goal and format of this year’s challenge differed with more practical and social media related tasks.

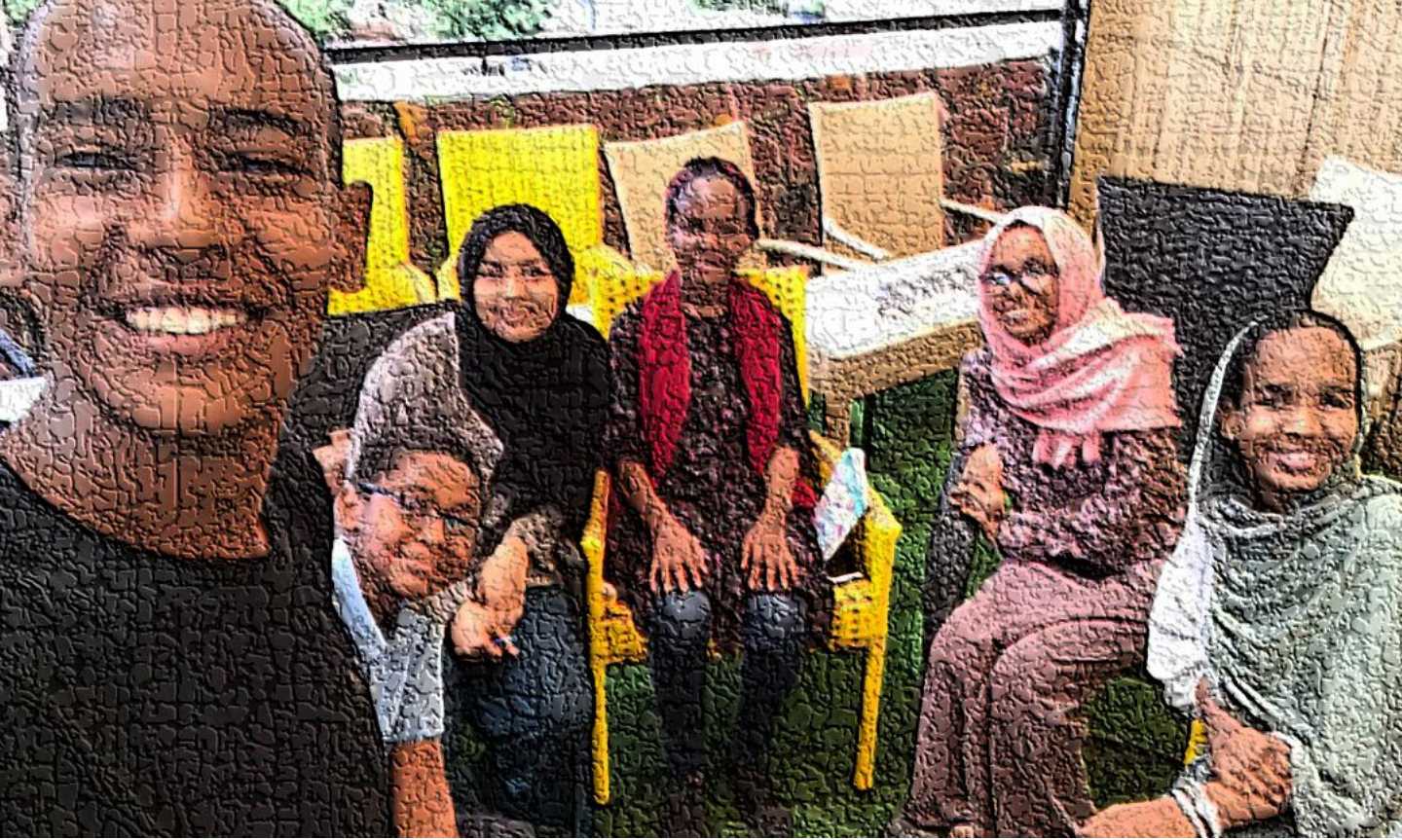
Team Sudan this year ranked **25th**, amongst more than **174** participating nations.

About STEM:

(*STEM = Science + Technology + Engineering + Mathematics*)

STEM is an approach to teaching and learning based on the integration of science, technology, engineering and mathematics, allowing these subjects to be studied in the form of a coherent unit of learning. The reason behind this, is due to the outputs of teaching these sciences in the form of an integrated unit are much better than teaching each subject separately.

The importance of STEM learning lies in that it enables individuals to effectively understand these sciences. The STEM learning approach gives students the opportunity to inquire, discover and scientifically enquire. Students are not just taught information in the traditional style of teaching, instead they are taught specific skills that they will possess and make their own. The impact of these skills extends to the students’ daily life, whilst creating an enjoyable educational approach and environment attractive to students. In addition to the fact that innovation and modern inventions overlap in these disciplines, making STEM learning necessary to keep up with the inventions of the times.



About our experience:

Our experience was full of knowledge, fun and suffering at the same time. In the process, it provided us the opportunity to build various skills including social and communication skills, teamwork, the ability to work flexibility, timey decision-making, acceptance of failure and ambition and determination to try and try again, working under pressure and investing ones resources, seeking and finding alternative solutions. And finally, we learnt that we are innovative in thinking and execution.

Reflecting on our experience, we have learnt so many lessons and gained much knowledge, experiences and friendships that we have no doubt will accompany each one of us throughout the stages of our lives.

Looking to the future

Indeed our warm weather and fertile lands, make Sudan rich in resources. And with the determination of dedicated science and technology teams working in parallel, we have no doubt we will be able to preserve the idea that Sudan can be the ‘food basket of the world’ and one day fulfil our aspirations of becoming at the frontline of developed countries.

We are grateful for this opportunity and encourage all individuals who have a passion for STEM learning to strive to develop their knowledge. And we stress the need to incorporate the STEM learning approach in the Sudanese curriculum, in order for young people in Sudan to catch up with their peers abroad in terms of knowledge and familiarity with STEM learning.

Learn more about..

Team Sudan & First Global Challenge: <https://first.global/in-the-news/team-sudan-in-the-2020-first-global-challenge>

New Graduate Seeking Employment

Her ambition is to become the first Cabinet Minister for Artificial Intelligence & Technology in Sudan, to lead a new era of technological advancement!

Noha Elhassan

Sudan - Khartoum – Arkawest - noha.a.bagi@gmail.com

Phone: +249110102611 – www.linkedin.com/in/noha-elhassan



A fresh graduate Biomedical Engineer, Sudan university of science and technology, aspired to work in the field to polish academic knowledge with technical skills and market wise.

EDUCATION

Sudan University for Science and Technology, Khartoum Sudan — Biomedical Engineering B.Sc.

OCTOBER 2014 - NOVEMBER 2020

A fresh graduate Biomedical Engineer. Bachelor degree second upper.

EXPERIENCE

I have volunteering experience at IEEE SUSTech SB, PROTON SOLAR RACING TEAM, MEI, FIRST Global Challenge – Team Sudan 2019 & 2020, and Technovation girls.

PROJECTS

- **Design of Control Circuit for wheelchair Movement (Graduation Project)**

Design of a control circuit to convert the wheelchair from conventional wheelchair into electric wheelchair using a Flex Sensor.

- **Robotic Hand**

A prototype for figures flexion and extension movements using servo motors and ATmega328P to control the movement.

FIRST Global Challenge 2020 – Team Sudan primary mentor

JUL 2020 – OCT 2020

- FGC is a yearly Olympics-style robotics competition, it promotes STEM education and careers for youth.
- My role was the primary mentor of Team Sudan.

SKILLS

- Soft skills.
- Design thinking.
- Problem solving.
- Critical thinking.
- Decision making.
- Teamwork
- Cooperation.
- Planning
- Management.
- Scientific Content Writing.
- Scientific research.

RESEARCH INTERESTS

- Medical Imaging Informatics.
- Medical field solutions using modern technologies.

PROGRAMMING LANGUAGES

- C++
- MATLAB
- Swift

New Graduate Seeking Employment

“Education is the most powerful weapon,
which you can use to change the world” -
Noha Elhassan

FIRST Global Challenge 2019 — Team Sudan Manager

AUG 2019 – OCT 2019

- Team Sudan mission was to design and implement a robot to compete in FGC19 Dubai UAE.
- My role was Team Sudan Manager and non-technical mentor.

IEEE SUSTech Student Branch, Khartoum Sudan — Chairwoman

MAY 2018 – MARCH 2020

- IEEE SUSTECH SB “The institute of electrical and electronics engineering – Sudan University student branch”
- My role was to manage the branch’s volunteers, the overall branch affairs and many specific duties.

IEEE SUSTech Student Branch, Khartoum Sudan — Content writer

MAY 2018 – MARCH 2020

- Participated in scientific content writing on social media platforms about sessions, workshops and technical courses.

IEEE SUSTech Student Branch, Khartoum Sudan — Vice-Chairwoman

MAY 2017 - MAY 2018

- IEEE SUSTech SB’s junior Executive Officer.

Proton Solar Racing Team, Khartoum Sudan (WSC2017) — Marketing Team manager

MAY 2017 - MAY 2018

- WSC2017 is the world’s most well-known solar-powered car race challenge.
- Proton Solar Racing Team was the national representative team of Sudan in (WSC2017).
- My role was to make marketing plans, create social media content, engage with the community, and attract sponsors for funds.

IEEE SUSTech Student Branch, Khartoum Sudan — Volunteer

DEC 2016 - MAY 2017

- Organizing events and sessions.

AWARDS

- Team Sudan the 25th ranking team out of 174 teams -FIRST Global Challenge 2020.
- Team Sudan Safety Award -FIRST Global Challenge 2019.
- Team Sudan Golden non-technical Award – FIRST Global Challenge 2019.
- The 3rd Award winner – IEEE Middle East Young Professionals & Students conference (ambassador program).
- The 7th Award winner - The First National Championship for Debates in the Sudanese universities by Arabic language.

LANGUAGES

- Arabic – Mother Language.
- English – Independent User.
- German – B1.1.

Thursday 19th November 2020





World Children's Day

Investing in Our Children

Friday 20th November 2020

To coincide with World Children's Day, the Sudanese Transitional Government announced the establishment of structures to guarantee the rights of a child in all the parts of the country and to increase the budgets allocated for these sectors.

WORKSHOP SUMMARY PAPER

Setting up a base in Sudan: Opportunities, Risks and Mitigations

Introduction

Our Digital Clinic

anaSudan held a workshop on Saturday 24 October 2020, which is a continuation of the theme ‘SUDAN, IS IT TIME TO GO BACK?’.

During our ‘*Digital Clinic*’ participants had the opportunity of exploring a range of themes in smaller breakout clinics;

1. Engaged with and learnt from expats who have returned to Sudan and established their lives, set up their business;
2. Gained business start-up tips, advice and insight;
3. Networked with professionals in Sudan and abroad.

The workshop was hosted in alignment with anaSudan’s **INVEST SUDAN** initiative, a global talent sourcing and investment campaign.

The campaign aims to:

- Promote recruiting and investment opportunities in Sudan;
- Normalise the concept of setting up a base in Sudan and individual aspirations of being home, through open forums and discussions;
- Discuss with openness and transparency all risks and mitigations associated with relocating to, living and working in Sudan;
- Remain inclusive to all professionals and experts with a positive interest in the rebuilding phase of Sudan, whether Sudanese or otherwise.



Cont'd... Setting up a base in Sudan: Opportunities, Risks and Mitigations

Objective of Our Breakout Clinics

The key goal of the break out clinics was providing smaller groups of participants the opportunity to engage in the clinic’s topic and gain new knowledge and insights, ask questions and share existing experiences.

The clinics provided the right environment for participants to network with like-minded professionals.

Summary

“Sudan a land of opportunities”

Whereas currently around the world opportunities may be fast becoming scarce, the contrary can be said about Sudan where ample opportunities currently exist in each and every sector and industry. These opportunities should present huge incentives to repatriate to Sudan and participate in the development phase.

There has to be acknowledgement and realisation that whereas the country’s leadership builds from the top; creating our national strategic vision and road map, at the bottom is where the real building, innovation and creativity happens; one cannot operate successfully without the other.

As such, the time is really now for each person to take individual leadership and start taking personal action. There needs to be a change in mindset and absolute focus on entrepreneurship project delivery in aid of a collective transition from a purely consuming society to a producing one.

Repatriation is a critical step in the future of development of a new Sudan. There needs to be a consistent effort in bringing together local talent, global experts and public and private sectors based in Sudan. We need to work together in a structured and systematic manner in order to be able to collectively benefit and reach our goal for a new Sudan to prosper.

There is a vast pool of talented young people in Sudan, some of whom have recently repatriated and it is important to reach out to these young people and utilise their abilities whilst helping them sharpen their skills and guide them to succeed.

Collaborating in the Development of a New Sudan: a Simplistic Interpretation



Cont'd... Setting up a base in Sudan: Opportunities, Risks and Mitigations

Legalities

Ideation stage

- Understand the landscape well enough and know exactly what you're trying to achieve. Clarify is key at this stage;
- Know your regulatory road map;
- Know your stakeholders, regulators and the duties that may be imposed on your business;
- Protect your idea contractually;
- Register all your assets and rights;
- Acquaint yourself with local costs.

Set up

- Based on your research during the ideation stage, choose your set up option and ensure your capital requirements are lined up;
- Register any intellectual property rights;
- Register your business name;
- Ensure you follow all regulatory requirements and registrations with the appropriate regulatory bodies;
- Be prepared that there is a lack of digital resources to aid business set up, meaning longer set up periods and the requirement for additional resources.

Operations

- Be aware of what the law expects of you as a business, ensuring the implementation of the appropriate governance structure and policies that apply to your business. It's always good to start with accountability and defining an authority matrix, which ultimately helps you achieve your goals;
- Adopt standard contracts where possible;
- Make sure you source valid information;
- Whereas it's quick to register a company, the name might take longer. Past experience has demonstrated a lot of desired names were already registered, ultimately leading to registering a name that may not be of preference;
- Systems are currently being updated to introduce governance and transparency;
- Engage a good lawyer to help you navigate local processes and procedures;
- Pay attention to the detail and ask the right questions;
- Engage in ideas and set up a company that has longevity whilst remaining committed to making your business a success.

Cont'd... Setting up a base in Sudan: Opportunities, Risks and Mitigations

Project delivery

- Be flexible, open minded and apply out of the box problem solving techniques; there are many challenges in Sudan due to the fast pace of change;
- Time management is key; it is important to manage your time efficiently and effectively;
- Be confident in asking for help; if you find yourself stuck in one area, be humble and seek guidance;
- Apply the principles of project management and be consistent, there is no reason this will not work in Sudan.

Practicalities

- Our children need to grow up within their extended families in Sudan to understand their role as part of their immediate and extended families and society as a whole;
- Treat repatriating to Sudan as a project and be innovative and think out of the box in pursuing your move;
- Moving to Sudan requires precise planning as there can be a lack of individual and financial security;

- Living in Sudan is highly challenging and the realities around daily life might seem shocking at the start;
 - There are always ways around mitigating these issues to establish a stable base, and when you find the right way that works for you and your situation, your experience may not be as bad as you may have initially feared;
 - There's a solution to every problem and there's no place that's perfect; there are daily life challenges when living abroad, and it is about problem solving on a daily basis;
 - Ensure you have a support network to guide you through your journey;
- Understand local cultures and behaviours and adapt to them;
- Have options for health care and in particular emergency healthcare;
- Treat your participation in the development process in Sudan as a long-term project and it is important to remain flexible and adaptive;
- Be innovative; despite an idea already existing in Sudan, make your idea stand out;

Cont'd... Setting up a base in Sudan: Opportunities, Risks and Mitigations

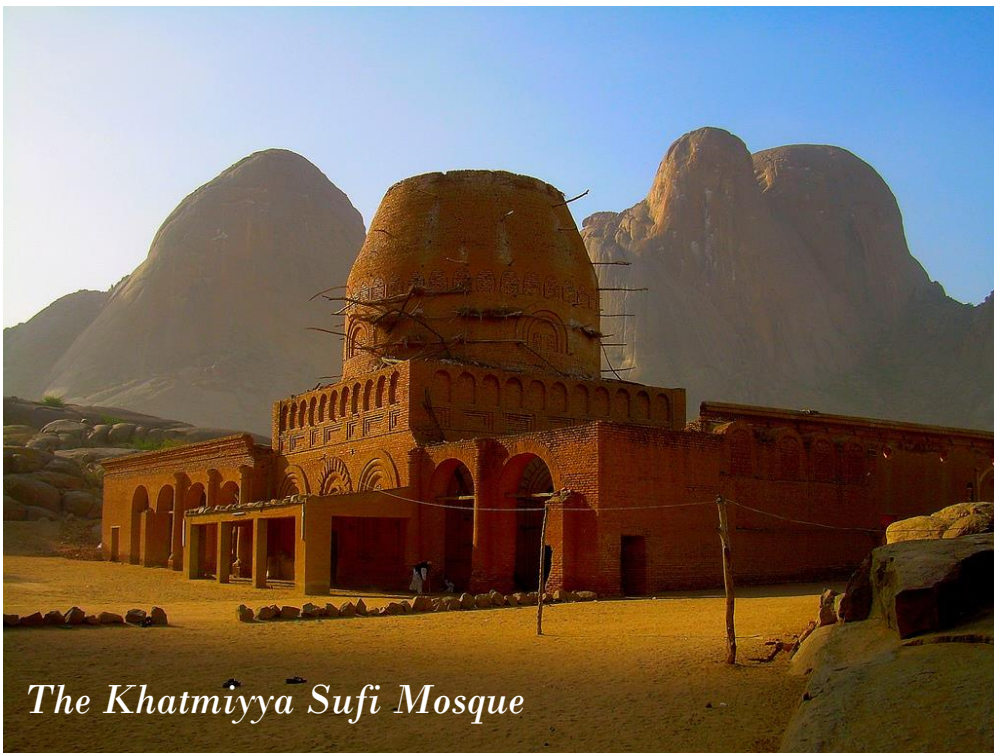
- Remain determined in the face of cynicism when it comes to the application of a new idea or concept. Have the conviction in your abilities and belief in your idea and pursue that. And whilst it is important to listen to people and learn from their experiences, have the confidence and determination that you're following the right path and give it your absolute best shot;
- Don't get distracted; once you start something ensure you remain focused on your goals and milestones. Do not deviate from your plan despite external pressures and distractions;
 - Define your key outputs, know what you're capable of doing and what you are able to achieve in the long run within the constraints present. Sometimes you need to make adjustments, but ensure you are not distracted from your end goal;
- Be persistent no matter the challenges and obstacles you face;
- Sudan will test your perseverance, professionalism and innovation. It takes a lot to be successful in Sudan, but it is possible;
 - Reflections:: in 1971 Sudanese expatriates who migrated to the UAE recall experiencing regular electricity cuts, whilst water tankers delivered water their homes. They imported meat, vegetables and even clothes from Sudan.

Read full Summary Paper:
https://drive.google.com/file/d/1Mj3_IJRoE9YF8-NxAF0cX31xZVs7VfQV/view?usp=sharing

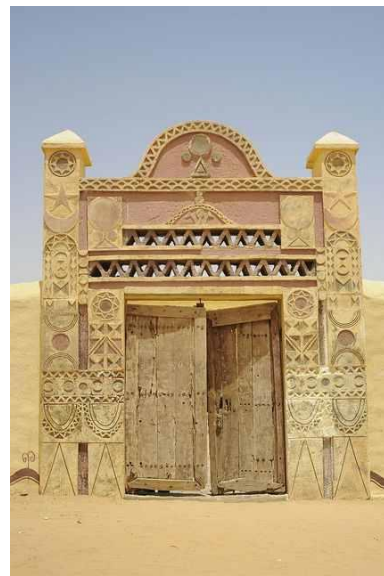
Watch our live discussion videos:

Workshop ***Intro:***
<https://www.youtube.com/watch?v=HXTdL3HsbUc&t=4s>
Breakout Clinics Sneak Peak:

<https://www.youtube.com/watch?v=Yn4abUSUIz8>
Workshop ***Summary:***
<https://www.youtube.com/watch?v=VKSGAaDcxeg&t=21s>



The Khatmiyya Sufi Mosque



S U D A N



Dinder National Park



Jebel Marra



**Keep Up with
Our Activities**

Zagrooota! Is finally back, as a creative-collab with anaSudan



We are absolutely delighted to have established a creative collaboration with **‘Zagrooota’**!

‘Zagrooota’ is an independent weekly digital bulletin, which brings you only ‘happy news’ about Sudan, from reliable sources.

Keep up with all news coming straight to you every week via all our social media pages.





Coming Soon

INVEST SUDAN

anaSudan global talent sourcing and recruiting
campaign

www.INVESTSUDAN.info

***“Promoting and attracting
global talent acquisition and
investment opportunities to
Sudan”***

We are working behind the scenes on bringing to you a rich resource platform, a fully free information service, offering useful information covering a range of themes associated with living and working in any part of Sudan.

Our website will be open to everyone at absolutely no cost. It is intended to be accessible from anywhere in the world and designed to make it easy for anyone inside or outside Sudan to find out information about Sudan, the people, cultures, behaviours, living and doing business, all in one place and with a click of a button.

As most of you know, reliable data about Sudan can be scarce. As such, we ask you to help us build this resource library by sending us any reliable information you encounter in the following categories (in Arabic and/or English:

- Basic services; health, education, transport, information, legal, accommodation, food, banking;
- Civic & government services;
- Research papers in the fields of business, commerce and industry;
- Culture;
- Travel and entertainment.

Get in touch by emailing us at:
projects@anaSudan.net



“ ايا ليت الشباب يعود “
(شئو هي الاسباب البتخلي شباب السودان
يهاجر و شئو هي الحلول البتخليهم يرجعوا؟)

Saturday 28 November 2020

1pm (London) ; 3pm (Khartoum) ;
5pm (Abu Dhabi)

Zoom

During the revolution and immediately after, we saw the power and determination of young Sudanese men and women. We saw their tenacity, leadership and most unwavering passion to reach their end goal; a new Sudan where freedom, peace and justice prevails for all.

As the rebuilding phase was underway, we saw young people with the same drive and passion and excitement to participate. ***So what's changed since? ..***

In recent months, it's been more noticeable that young people seem to have had their '***wings clipped***', where as only a year ago, it seemed they had given each other the '***permission to dream***' for a bright future in our own homeland. Fast forward to today, young people are encouraging each other to leave Sudan by any means possible.. ***So what's changed?***

Young people are more precious to our nation than gold. They are both the precious cargo needing to be nurtured, mentored, guided and supported to be able to succeed, as well as the vehicle for innovation, development and prosperity for all generations of our societies.

It is a tragedy when we see young Sudanese men and women advertising and promoting migration to other counties, whilst our own nation is crippled by this very epidemic. It is sorrowful seeing our young seek to migrate to better their opportunities abroad, leaving their families and everything they know and love behind. To our minds, the root causes of this distressing depletion of our talent cannot be ignored and remedies must be explored.

Join our discussion:

DAY: Saturday 28 November 2020

TIME: 1pm (London) ; 3pm (Khartoum) ; 5pm (Abu Dhabi)

MEETING

LINK:

<https://zoom.us/j/99543852348>

MEETING NUMBER: 995 4385 2348



Izaiakum, kaifinakum.. Get in touch, we'd love to hear from you..

Homepage:

www.anasudan.net

Email:

hello@anasudan.net

Twitter:

[@anaSudan_net](https://twitter.com/anaSudan_net)

LinkedIn:

Page:

<https://www.linkedin.com/company/anasudan->

[/anasudan-%D8%A7%D9%86%D8%A7%D8%B3%D9%88%D8%AF%D8%A7%D9%86](https://www.linkedin.com/company/anasudan-%D8%A7%D9%86%D8%A7%D8%B3%D9%88%D8%AF%D8%A7%D9%86)

Group:

<https://www.linkedin.com/groups/13768484>

Facebook:

Page:

<https://www.facebook.com/anaSudan-an-%D8%A7%D9%86%D8%A7%D8%B3%D9%88%D8%AF%D8%A7%D9%86-610287156295382/>

Group:

<https://www.facebook.com/groups/506978136756405>

YouTube:

https://www.youtube.com/channel/UCpu8o_fbpq6RlADlUHVtuKA/videos

Photo: Jebel Marra Waterfalls

Source: <https://scoopempire.com/photos-beautiful-sudan>