



Gedaref Digital City Organization

Projects

مدينة الغداف الرقمية
رؤية اليوم يعمون الغد

هل فكرت في
احتمالات شكل الحياة
في المستقبل؟



نحن نسعي نحو تقارب
الشقة، وسد الفجوة
الرقمية



e-Agriculture & e-Marketing Development Group

- ❖ It is an online WhatsApp group established in 2017 to discuss, brain storming and share the new technology in improving e-Agriculture and e-Marketing practices
- ❖ Share the best practices of Gedaref Digital City Organization (GDCO) projects to be replicated in other part of the world
- ❖ The group in addition to the traditional GDCO partners it includes experts in the agricultural and animal sectors, marketing, public & private sectors, Universities staff, civil society (NGOs) and research staff
- ❖ Gedaref Pioneer Farmers Company, Eleena for agriculture services company, Impact Hub Company for services and Mahgoub Sons Companies, Sudanese Islamic bank, agriculture bank, farmer bank Elgithara company and Solar man company are supporter for the group initiatives.
- ✓ They fully paid the travel cost of GDCO representatives to Geneva to receive the WSIS champion 2019 prize (certificate) for one of the best e-Agriculture projects worldwide
- ✓ They paid the cost of maintenance and debt for sunta-sudan.org website, also paid the hosting for 2 years in addition to the Sudan-e-village.org hosting, they paid the monthly salary for the website staff to enter the daily crops and animals market data
- ✓ Printing 2000 brochures and 100 copies of the group series books of GDCO projects





Thanks & Appreciation



❖ On behave of e-Agriculture & e-Marketing Development Group (e-AMDG) I would like to thank the founders, council members, supporting & knowledge partners of GDCO for the great work they have done for community development. Special thanks to the great volunteers and the staff of GDCO

❖ e-AMDG is pleased to print and share this accumulated knowledge, experiences and best practices worldwide to improve the e-Services for community development



for more information Look GDCO Sudan

Partners (supporters) are not only **those** Pay Money but also **Those Who** Share Knowledge , Experience and Best Practices





The first Meeting to Declare the Foundation of GDCO
Guided by Mr. Amin Eraibi in Eindhoven Netherlands 2005





GDCO Sudan ... what is it ?

- ❖ Gedaref Digital City Organization (GDCO Sudan) is a civil society (NGO) established in 2004 through the twinning between Gedaref and Eindhoven Municipalities (1986 – 2012).
- ❖ GDCO is the initiative of Dr. Agnes Ovington (Ne twinning coordinator) and Mr. Amin Eraibi (the Secretary General of Gedaref People's Water and Development Organization) with Ben Waumans the President of Eindhoven Digital City (DSE). Mr. Mohamed Toun (Sd twinning coordinators) and Eng. Mohamed Elhossain D.G. of water participated in the discussion
- ❖ DSE big supporters are the Dutch volunteers for Gedaref projects (Speg) , TNO, Para-digit, Brabant Water company, Eindhoven Municipality and ICT store workshop.
- ❖ GDCO is supported by his Excellency Elbashier Sahal (chair the general assembly) and many Gedaref community leaders.





GDCO Sudan ... what is it ?

- ❖ The National Information Supporting Fund through the National Information Centre (NIC) and National Telecommunication Corporation (NTC) was the first supporter for GDCO in Sudan and the first lab (computers) donated by NIC
- ❖ GDCO received computers and laptops from DSE, Speg, NIC, NTC, Presidency of the Republic (Exc. Ali Osman, Vice President) Moh. bin Rashid org. and GKPF (prize laptops)
- ❖ GDCO established more than 40 telecentres in schools, organizations and government institutes including the police, Army forces (Fao) and Gedaref prison



Presidency of the Republic
(Exc. Ali Osman, Vice President)



Eindhoven Digital City



Global Knowledge
Partnership



GDCO Mission, Vision and Objectives (Goals)

GDCO Mission

❖ Bridging the big digital divide to connect the unconnected & help communities to use ICT for development to facilitate their living and get the social and economic benefits of ICT.

GDCO Vision

❖ Is to be the best organization in transferring the global knowledge, experience and best ICT practices to develop our marginalized and underserved communities in strong win-win Public Private Partnership PPP and Networking to achieve the MDGs (2015) and SDGs 2030

GDCO Objectives (Goals)

❖ (1) Best utilization of ICT for community development. (2) Sharing experiences, knowledge and best practices to improve the community quality training to enhance capacity building and provide quality skills and certification. (3) Co-ordination between the working organizations and institutions in the field of ICT to develop strong win-win public private people partnership (PPPP) to achieve the shared goals. (4) Government technical support and consultancies to speed up e-services to the community. (5) Achieving the 8 millennium developments goals (MDGs) and the 17 sustainable developments goals





Exc. Mayors of Eindhoven Netherlands Visits



Exc. Mayor 2010 @ Eindhoven



Exc. Deputy Mayor 2009 Eindhoven



Exc. Mayor 2006 @ Eindhoven



Exc. Mayor 2007 @ Almanar
Telecentre Gedaref



Gedaref Delegate visit to
Exc. Mayor 2006 @ Eindhoven



Exc. Mayor 2007 @ deaf
Telecentre Gedaref



Meetings @Eindhoven Digital City (DSE)



DSE Council Members



DSE

TNO



Para-digit computer company



DSE & Spieg



municipality Spieg DSE





Speg & its Partners Walking for Water

- ❖ The twinning between Gedaref and Eindhoven Municipalities (1985 – 2011) worked in several areas including water, solid waste project , health, ICT and chaired by Dr. Agnes Ovington and supported by the Dutch Volunteers for Gedaref Projects (Speg)
- ❖ Speg chaired by Eng. Richard Broeks is one of the supporters of Eindhoven Digital City (DSE) to collect computers 4 GDCO. In 2005, Speg launched the walking **for Water** initiative to raise money for sewage and building Gedaref schools
- ❖ A number of students gathered invited by Speg in front of Brabant water company. The students donate the value of breakfast and each child carries 6 liters of water to embody the suffering of the students to bring water to their homes in Sudan
- ❖ At the end of the walk the collected money (8.000) will be doubled by Brabant (16.000) . Then it is doubled by the municipality of Eindhoven (32.000). Then it is doubled by Aqua for all A4ALL (64.000) and send to the Office of the Twinning in Gedaref



Sudan Ambassador, Eindhoven Municipality, Dams, Brabant and schools representatives

Spig & its Partners Walking for Water 4 Schools





GDCO Sudan and the Dutch community

- ❖ on 19 December 2006, the Eindhoven Council thanking the Eindhoven community and invited the Mayor and the members of parliament to visit Gedaref. The mayor and two MPs visited Gedaref late March 2007 and 300 computers were shipped.
- ❖ Several meetings were held with former Ambassador Exc. Suzan Blankhart in the presence of Speg as well as the invitation of Gedaref Digital for the annual participation in the celebrations of the highness the Queen's birthday and later his highness the King as well as the annual breakfast (Iftar) in Ramadan.
- ❖ The Embassy also facilitated the multiple entry visas for the President of GDCO, enabling him to participate in several European conferences



Exc. Suzan and Speg @ Mr. Abubaker house



His Highness Prince William @ WCIT



Exc. Karin wearing Sudanese women dress



GDCO Sudan and the Dutch community

- ❖ Exc. Karin M. Boven the ambassador of the Royal Dutch Embassy Sudan visited Omshagara Gedaref twice and had meetings with farmers and businessmen for better sustainability of the projects
- ❖ She agree for many projects including water catchment and the study for the project is done and it is ready for financial support
- ❖ The Agro-business project to support farmers and business and the refuges. The project is started and funded by the European community and the Impact Hub company is the local partner and **RVO** is the coordinator of the project
- ❖ She also visited the government of Gedaref and met with his Exc. the Wali and visited the silo of Gedaref



Exc. Karin visited Omshagara



Impact Hub & RVO



Gedaref Eindhoven (Dutch) Friendship

- ❖ In 2010 meeting was held with mayor of Eindhoven in the presence of the chair of international division and the coordinator of the twinning and he advised to establish new civil society body to continue with the NGO
- ❖ GDCO informed Gedaref Wail and meeting took place between the Dutch coordinator of twinning in farmer union, University and the chamber of commerce.
- ❖ In 2013 a visit to Eindhoven to see Dr. Agnes in the hospital and several meeting with Speg and DSE. GDCO and two other we're delegated to establish the new NGO and several meeting with the government and community leaders
- ❖ The new NGO was established in the absence of GDCO and all the linked organization to Eindhoven (GDCO, MAAN معن and the public water) are excluded and GDCO refused to be part of it and it fail and the twinning was stopped.



Eindhoven Mayor2010



DSE Speg GDCO



Last visit to dr. Agnes



Gedaref Eindhoven (Dutch) Friendship

- ❖ GDCO get a fellowship from IOM for capacity building and transfer it to gedaref University
- ❖ The fellowship consist of two diploma courses in migration security and development and the University get the benefit of one
- ❖ In the final day and closing ceremony the 1st Sudanese Dutch week was held



**Dutch Agency for Projects
RVO**



1st Dutch Sudanese Week @ Gedaref University





GDCO and Telecentre Movement

- ❖ telecentres are public places of access to Internet and other digital technologies that help promote personal and social development. They offer crucial services, skills and opportunities to people living in remote and rural locations around the world to facilitate their lives.
- ❖ Telecentre.org is a global program managed by Telecentre.org Foundation that supports the establishment and sustainability of grassroots level telecentres.
- ❖ Telecentre.org is the initiative of Microsoft, IDRC and Swiss Development Fund in the WSIS Tunisia 2005 and chaired by IDRC (Dr, [Richard Fuchs](#) Canada). In 2010 turnover from Canada to Philippines (telecentre.org foundation) and chaired by Microsoft ([Dr. Akhtar Badshah](#)) then moved to California (Silicon Valley) 2013.
- ❖ Telecentre.org Foundation (phase 2) is Networks of 154 organization, 87534 registered Telecentres in 79 countries, with 76 national Telecentres network and 6 regional networks (languages).





GDCO and Telecentre Movement

- ❖ The 2nd telecentre was held in Malaysia (part of gk3). The 3rd in Chile (south America) and our out of schoolchildren is part of the logo, the 4th is in Spain (spark) and GDCO is media partner.
- ❖ Technology Innovation and Sustainability (TIS) are 17 webinars held by telecentre.org foundation in partnership with Intel to share knowledge and best practices to train Telecentres members how to sustain their projects



The 2nd Global Telecentre conference
Malaysia 2008



The logo of the 3rd Telecentre
conference Chile



MENA Telecentre leaders with
Dr. Akhtar Microsoft



Types of Telecentre

- ❖ standard Telecentre it is Telecentre that deals with Training, capacity building and skill development
- ❖ Knowledge Telecentre this where GDCO share knowledge, experience and best practices with other Telecentre & transfer it to Sudan e-Agriculture, e-learning and e-government and e-health.
- ❖ Investment Telecentres are applications of the knowledge Telecentres for more sustainability e.g. Graduate student telecentre to help the graduated student from the humanitarian study to have the benefit of ICT and have another source of revenue . Agro-mobile, telemedicine to sustain our Telecentres without changing the objectives
- ❖ portable Telecentre is the future (NOT YET) of Telecentre it is multi-services Telecentre which combine the above three



**Knowledge Telecentre
@ Gedaref university**



**Graduate student
standard Telecentres**



**Telemedicine @ Gedaref Univ.
Investment Telecentres**



Portable Telecentres (Future of Telecentres)

- ❖ Portable Telecentres are an integrated e-services tools and it can be truck, Gottia or Rakooba
- ❖ It is social business module or SME that creates economic and social sustainable development specially in rural areas .
- ❖ Helps in moving services to rural areas
- ❖ Eradication of illiteracy resources
- ❖ Improves and speed the implementation of the SDGs
- ❖ Better quality training with minimum cost anywhere @ anytime



Rakooba



Truck,



Gottia



Global Telecentre Academy objectives

Telecentre Academy (TCA) is a global network of trainers & mentors where you get courses & skill you needed online in your language @ anytime & anywhere. Its objectives are:-

- ❖ Establishing global programs to support the learning needs of Telecentre operators, policy makers and investors by appropriate learning systems and curriculum
- ❖ Initiate appropriate skills-development programs to promote livelihood and knowledge-based practices among grassroots communities
- ❖ Establishing linkages with the academic institutions to develop a linear career path for grassroots-level with Telecentre
- ❖ Demonstrate that the learning programs initiated by the academy fulfills the human resource development mandate of various governments in line with their national priorities





GDCO in partnership with Ugabytes and its partners (Telecentre.org) organized the 5th East Africa Telecentre Leader Forum (5th EATLF) in Khartoum 2008 and 29 global Telecentre leaders from 15 countries (worldwide) participated & SuNTA was founded as the 1st Telecentre academy in Africa, Middle East and 13th in the world (SuNTA)



3RD EATLF Kenya



**Opening session
5th EATLF Khartoum**



**Dr. Motasim Ahmed Musa
preparation for the conference**





What are the logos of GDCO and SuNTA means?

- ❖ GDCO logo is designed by Dr. Hamza Hassan Mahmoud. It means by one finger click you will be connected to the world.
- ❖ GDCO is a member of the telecentre movement. Telecentre is a place equipped with computers, internet and ICT equipment's to collect information and share knowledge to help people facilitate their lives and solve problems
- ❖ SuNTA logo is designed by Eng. Yasir Elsadig. In Sudan @ the coffee break people sit together, share & discuss to solve problems. It is similar to telecentre but no ICT equipment. It is the oldest telecentre in the world



Telecentre.org & CSDM is our Gate to the Digital World



How GDCO Sudan Projects are Developed?

- ❖ GDCO looks for the problems facing the community or end users
- ❖ Develop win-win public private people partnership (PPPP) to share knowledge, experiences and best practices to design and support the project to save time & money
- ❖ The project designed to achieve the maximum MDGs & SDGs Goals



Telemedicine unit @ Gedaref Uni.



Telemedicine @ Sri-Ramachandra Uni. India

GDCO Works on SDGS Through Many Pillars & Partners

- ❖ GDCO Sudan Constitution
- ❖ Telecentre movement initiatives
- ❖ UN-SDGs knowledge platform 17 Goals
- ❖ UN-ESCWA knowledge hub for marginalized commun
- ❖ _UN-ITU _WSIS iwrite4wsis initiative (11 lines)
- ❖ UN-ITU WSIS action lines & SDGs Matrix
- ❖ UN Global Compact Sudan network (10 principals)
- ❖ UN FAO e-Agriculture Organization and more





GDCO Sudan e-Development Projects

- ❖ Quality training, capacity building and skill development through ICT
- ❖ e-Agriculture and online crops and animal market <http://gdco-sunta.org/>
- ❖ Gedaref University e-Infrastructure support & Telemedicine
- ❖ Connecting people with disability
- ❖ Out of schoolchildren and young e-learning pilot project
- ❖ e-Government
- ❖ Empowering women through ICT
- ❖ Support the Scientific Innovation Care Authority for the Technological Education Project in Sudan (TEPS)





e-Agriculture & GMAC History

- ❖ Gedaref Mechanized Agriculture Corporation (GMAC) is the biggest rainfed mechanized scheme in Sudan managing more than 10 million feddans
- ❖ Prof. Izzdeen Mohamed Oman was the first to design an ICT system for GMAC 1996
- ❖ Prof. Al-Amin Daffaella (Gedaref minster of Agric.) used the GIS to demarcate the farms (200 thousands feddan) 1998 for the first time in Gedaref
- ❖ Dr Awad Mahmoud Mohamed Eisa (Gedaref minster of Agric.) established the e-Agriculture and demarcated more than 2.5 million feddans 2008 - 2009



Data entry of 10 thousands farms



GMAC information Centre



GDCO e-Agriculture Project

- ❖ The project objective is to help farmers manage and monitor their farms from any place in the world to reduce the production cost and increase yield to achieve the MDGs and SDGs
- ❖ Also, monitor using satellite the agricultural resources from being depleted or eradicated
- ❖ GDCO developed strong win-win PPPP to support community e-services and easy transaction between GMAC and farmers for better food security
- ❖ Improve ICT quality training, capacity building and skills development in the agricultural sector & training 30 GMAC agricultural engineers internet, GIS & AUTOCAD courses



Farmer Union Telecentre



GMAC and GDCO MoU



GMAC Telecentre



e-Agriculture Project Achievements

- ❖ GDCO developed software (Big Data) for 10,000 farmers/farm @ GMAC that speed up transactions between GMAC and other end users specially farmers and 16 agricultural reports in few minutes (crops, rainfall, sowing date ...etc.)
- ❖ Empowering GMAC to improve Gedaref State Natural Resources e-Map that helps in solving the conflict between farmers, shepherds and forest
- ❖ Knowledge exchange, sharing experiences and best practices to improve agricultural practices



agricultural reports 2008 now more reports



Gedaref State Natural Resources e-Map



e-Agriculture Project Achievements

- ❖ Reduction in the cost of agricultural planning, demarcation and determining of the geographical coordinates (GC)
- ❖ achieving the millennium and sustainable development Goals (MDGs & SDGs)
- ❖ Using of ICT (internet) for disaster control Bird Flu 2008 and Ebola 2011



Ebola

جدول يوضح تنفيذ التخطيط للمشاريع الزراعية المطرية
في التقرير الذي قدم في ملتقى المعلومات بنبالا
الورقة المشتركة بين الزراعة الآلية والقضارف الرقمية

النسبة	المتنفذ	الخطوة	العام
%100	2739500	2739500	2004-1968
%85	512000	600000	2005
%100	731000 + 1365547	2000000	2007-2006
%94	515049 + 972000	1590000	2008
	تم رفع جميع الإحداثيات وتحديد مواقع البواكير وتم زراعة 461 بكم في مساحة 510000 فدان	1150000	2009
	6104096	8079500	الجملة

Demarcation of 2.5 million feddans 2008 - 2009



Bird Flu



e-Agriculture Project Phase 2

- ❖ Phase 2 established with Gedaref Technical College and the software developer will link the e-Map to the satellite (online)
- ❖ The new design was developed via GPS & GIS with two layers. The first layer for the farms and second for the sections and the system used the Arc map and the database is in MySQL
- ❖ The program can extract information (soil and chlorophyll components, temperature and relative humidity) from the map directly through geographical coordinates (GC). It is not implemented yet due to technical problems



5 laptops and projector



e-Agriculture Online Crop and Animal Market

- ❖ Development of online crop and animal market even for illiterates or low computer skills communities and for blinds (cloud computing system) <http://gdco-sunta.org/>
- ❖ EasyFarmer or cloud computing for low computer skills or illiterate farmers is a partnership with Raising the Floor organization and Wisconsin University (Swiss & USA) <http://easy123.org/sudan>
- ❖ EasyFarmer is launched in the ITU WSIS 2012 Geneva in the presence of state minister of information and telecommunication and many partners



Wisconsin University (USA) & Raising the floor

Product Name	Arabic Name	High price	Low price	Quantity	Order
القمح	القمح	750	600	200	...
الذرة	الذرة	100	80	1000	...
البن	البن	80	60	50	...
الزيت	الزيت	120	100	10	...
الحليب	الحليب	150	130	500	...
البيض	البيض	70	60	100	...
الفاصوليا	الفاصوليا	70	60	100	...



Important Facts and Reality

- ❖ It took more than three years to update and monitoring on voluntary bases (free) May 2006 to 25/09/2009)
- ❖ The cost of the software is 90% less than the commercial and managed and updated for 3 years free and granted for 20 years update
- ❖ The data entered took 9 months and from the files of GMAC since the 1960s
- ❖ All GMAC staff are well trained to manage the system
- ❖ The project is replicated in the farmer union by the technical manager (GDGO Volunteers)
- ❖ The project adopted in Sinar, Eldamazin and North Kordfan mechanized agriculture and their staff was trained in Gedaref by GMAC team



GDCO Projects (Future & Ecosystem)

- ❖ The e-Agriculture project has great contribution to the growth of the ecosystem in Gedaref State and Solved the conflict between farmers, shepherds and forest through satellites (geographical coordinates)
- ❖ The new farm area is 900 feddan (1 feddan=1.038 acre) instead of 1000 feddan and the left 100 feddan is to be grown with trees (forest)
- ❖ Establishing an e-learning project for out of schoolchildren and replicated for the nomads in rural area where children are displaced due to climate change
- ❖ Agro-mobile, exchange (stock) market and cloud computing services including crop and animal price



Agro-mobile service application



Connected the unconnected



GDCO Projects (Future & Ecosystem)

- ❖ Telemedicine MoU with Sri-Ramchandra and Gedaref University
- ❖ deaf e-School and many services
- ❖ Link of the e-Map (farms geographical coordinates) to the satellite
- ❖ Portable Telecentres to provide integrated e-services to go deep in rural areas



Portable Telecentres



Telemedicine



GDCO Sudan @ Guinness World Records



- ❖ GDCO & many people in Sudan stand with 173 million people (Guinness World Records) in the world to fight against poverty
- ❖ delivered speeches at different mosques with different tools and that was the first time when the idea of Sudan e-village organization (SeVO) for fighting poverty was originated



Education is GOAL No. 1



- ❖ GDCO shared messages on the Education is GOAL No. 1 campaign in the World Cup (football) in South Africa (2010) with many global leaders including president bill Clinton and Queen Rania
- ❖ The messages are about e-Learning for out of school children and e-Learning for people with disabilities



GDCO e-health Project



MoU GDCO & Gedaref University



MoU GDCO & Gedaref Hospital
Medical Records





Gedaref Hospital Medical Records

- ❖ Supporting Gedaref hospital & health insurance (training 20 of the staff the basic ICT courses and internet) and medical centres with more than 50 computers
- ❖ Designing a program by Eng. Elbashier Eltahir Elbashier for inpatient and outpatient of hospital records and huge data was obtained for all the patients
- ❖ 30 of the hospital staff were trained including Dr. Osman Bukhari and Dr. Abd Elmonem Ahmed Osman on the program and basic ICT courses and internet
- ❖ With the support of the statistic division in the hospital (Mr. Rifat and his colleagues) we design and they print 100 thousand patient entry form and the e-15 finance receipt was tested for the first time in Sudan 2008
- ❖ Training 30 of the Ministry of Health staff SPSS course
- ❖ Start supporting the East Tumors Center with laptop (SPEG Ne) and design database program by Eng. Adam Mohamed Ibrahim to create the patient's e-Card to use it @ anytime and anywhere to get the patient medical records



Gedaref University e-Infrastructure support

- ❖ 120 computers to Gedaref university (Faculty of computer science)
- ❖ Telemedicine unit (228 square meters)
- ❖ 2 e-Libraries units (22 square meters each (Faculty of computer science))
- ❖ Supporting the telemedicine unit with HD camera, 60 computer tables and 60 chair, 2 projectors and laptop through our partners



2 e-Libraries units



120 computers



Telemedicine unit



Gedaref University Telemedicine



**HD camera from the
ministry of health**



MoU Oncology (cancer)



**projectors and laptop for
Telemedicine unit (SPEG)**



**MoU Gedaref University
. building for telemedicine NTC**



**Telemedicine unit
@ Gedaref University (SPEG)**





The Telemedicine Agreement (MoU)

- ❖ Sri-Ramchandra University Medical centre (SRMC) Staff will train Gedaref university staff at Sudan about telemedicine
- ❖ Train 3 staff of Gedaref University for one week at SRMC India in telemedicine department
- ❖ SRMC technical support to start new college
- ❖ Technical support in establishing 3 telemedicine centres in Sudan including Omshagara
- ❖ Online consultancy in Cardiology, Radiology, laboratory,, Dermatology.
- ❖ Training program for final year students of your University
- ❖ Gedaref University and GDCO will encourage Kassala University, Red Sra University, Gezira University, Sinar University and Gedaref Academy of Health to join the project
- ❖ Support/implementation of research programs
- ❖ All Universities partners will support international patient referral to SRMC





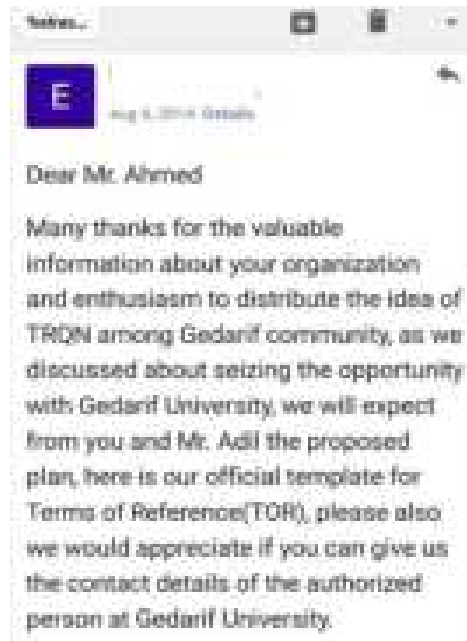
GDCO, IOM and Gedaref University

- ❖ The project is the initiative of Mr. Adil O. Gebril and Mr. Ahmed A Elsalam H Adam on the 20/4/2014 with the international organization for Migration (IOM) Ne
- ❖ GDCO submitted the application for capacity building through Mr. Adil to IOM and approved on the first of May
- ❖ Several meetings with Gedaref Uni. Vice Chancellor and Dr. Sami Eldirdori the technical manager of the telemedicine project
- ❖ On 6 August 2014 a meeting held in IOM office Khartoum (Mrs. Howida Elrasheed) and for social problem GDCO delegated Gedaref University to carry on the project
- ❖ The vice Chancellor appointed Dr. Salah Balla as project coordinator and Eng. Ahmed Mahmoud is still the focal point





GDCO, IOM and Gedaref University



- ❖ The project was assigned to GDCO from IOM through Adil Genril & Ahmed Abdisalam on 10th of April
- ❖ On the 6th of august GDCO transfer it to Gedaref University and still GDCO is one of the project coordinator



GDCO, IOM and Gedaref University

- ❖ The project started in October after changing some of documents and several meeting was carried
- ❖ GDCO decided to celebrate the first Sudanese Dutch week
- ❖ IOM offered 2 fellowship to Gedaref University. On migration and asylum and one applicant succeeded to get the fellowship
- ❖ The chair of the committee refused to put the logo of GDCO on the banner of the conference??



Dear Mr. Ahmed

Reference to our previous conversations about issuing letter of invitation for the IOM mission to attend The First Sudanese Dutch Forum at Gadaref State and with the link of TRCN assignment at Gadaref University, please see the above two invitation letters classified as follows:

- The first invitation letter to be addressed to the IOM Chief of Mission Mr. Mario Lito MALANCA.
- The second letter to be addressed

second email does not encourage us to open it. I took the risk to do so.

Secondly: the focal points of the assignment with Gadaref University are **Dr. Salah Batta M. Ahmed**, Secretary of Academic affairs and **Dr. Ahmed Mohmod Mohamed Elsa** from Gadaref Digital City Organization (GDCO) only unless they send us an email for delegating responsibilities to other focal person.

Thirdly: you sent us your request for releasing the money on **Thu 25-Dec-14 12:27 PM**, see the first attached email.



Empower Women Through ICT

- ❖ Training women and girls specially those with disabilities with many partners including El-Amal Institute for Deaf and Mute, LisaNet, the Sudanese Society for Information Technology in Khartoum (SSIT), Nour Al-Huda for intellectual disabilities, telecentre.org foundation and Women's Unions.
- ❖ 1.3 million women were trained in 2014 in partnership with telecentre.org foundation and UN-ITU the basic computer and internet courses to help women be connected
- ❖ Eng. Ms. Lisa Ibrahim. Amir appointed as the ambassador of the Arab telecentres, also, as one of the best 100 telecentre manger in the world.
- ❖ Exec. Dr. Tahani Abdullah honored Eng. Lisa Ibrahim as one of the best girls ICT
- ❖ Eng. Lisa Ibrahim and Eng. Mona Saad participated in the establishment of the 1st Arab ICT Women's Forum in Beirut



Empower Women Through ICT



1.3 million women were trained 2014



**Arab ICT Women's Forum
(Beirut)**



Liza & best girls ICT award



**Voting for best telecentre
manger**



Partnerships for Women e-Inclusion



PWDs @ SSIT



Women @ NTC Access Centres



**Women @ GDCO SSIT
Omdurman**



GDCO @ GDCO El-Amal telecentre



girls @ GDCO Omshagara



Deaf @ GDCO training telecentre



Out of Schoolchildren (Pilot)

- ❖ Thousands of children are travelling with their families due to climate change looking for better grazing and water resources for their animals and miss the education
- ❖ The objective of the project is to eliminate the resources of illiteracy instead of adult illiteracy education with better quality education @ low cost @ anytime & anywhere
- ❖ An agreement (MoU) was signed between GDCO and Gedaref Ministry of Education 2009 (Exc. sahal) & the UNICEF funded the project and El - Ahfad Uni. joined the project as technical manger of the project.
- ❖ According to the MoU 30 out of 120 teachers (from rural schools) were trained by GDCO (free) for the project & all other partner including GDCO trained 25 teachers
- ❖ Wad - Elmoshamir village (99% illiterates) was selected as pilot for out school children e-Learning project





Out of Schoolchildren (Pilot)

- ❖ 12 laptops, solar unit, chairs and tables, Gotta, clothes and shoes were the contribution of GDCO
- ❖ Using solar energy for charging laptops to connect children and also used for charging mobile which increase internet penetration
- ❖ In less than two years children write Arabic, English, use internet and Skype
- ❖ The project was replicated by Child War Org. In White Nile with Al-Alahfad Univ.
- ❖ The project was part of the 3rd global Telecentre.org conference logo in Chile (South America)
- ❖ Gedaref ministry of education replicate the project in 10 nomads areas
- ❖ East Sudan rehabilitation fund distributed 150 e-Class in Kassala and the Red Sea states





Suggested Master plan for the project





Out schoolchildren Projects



**e-Africa the 1st step
in the project 2007 Kenya**



**IGNOU the 2nd step
in the project 2008 India**



**Project workshop
2009**



Nile Sat for the project TV



**Future school Cairo
for curriculum**



Project MoU 2009



Out schoolchildren Projects



Wad - Elmoshamir village GDCO telecentres (Rakooba)



Wad - Elmoshamir village telecentres
(Gottia)



Best Telecentre album
2011 Philippines



Out schoolchildren Projects



**Wad - Elmoshamir village
(99% illiterates) pilot project**



30 teachers were trained



3rd Global Forum on Telecentres | 3^{er} Foro Global en Telecentros
Chile 2011

**3rd global Telecentre.org
conference logo**



**Wad - Elmoshamir village
(99% illiterates) pilot project**



30 teachers were trained



Connecting People With Disability (PWD)

- ❖ The main objective is to bridge the digital divide, e-Inclusion, readiness of PWD to be employed self dependent and poverty reduction through the ICT
- ❖ Establishing 6 telecentres (ICT training centres) with more than 150 computers and 25 laptops with PWD unions and organizations in Gedaref and Khartoum
- ❖ GDCO trains people with disability free and provide some of them specially the deaf computers and laptops to keep at home
- ❖ e-Inclusion of the disabled in the community locally and worldwide



**Dr. Agnes telecentre
for deaf & mute**



**MoU for better e-Inclusion
2007**



**Free computers at home
for deaf & mute**



Connecting People With Disability (PWD)

- ❖ 60 boxes Beryl holly Quran, early discovery deaf medical device, and 200 blind stick
- ❖ Using deaf to promote the easiness of learning computers and deaf are using internet chatting and email instead of sign language
- ❖ Donation 5 laptops to Nour Huda Telecentre for people with intellectual disability
- ❖ Supporting Almashrig ICT college student to create ultra sound stick to avoid water barrier
- ❖ Donation of 4 projectors and 4 laptops to deaf school by SPEG



**Dr. Agnes telecentre
for dead & mute**



**Ultra sound blind stick
innovation**



**e-Inclusion (deaf & blind)
@ Cairo**



GDCO and Gedaref PWDs @ ADDEX Abu-Dhabi



PWDs visit shaikh Zayed Mosque



From Gedaref community to
Shaikha Fatima (Umm Alamarat)



PWDs visit Mohamed bin
Rahid Foundation



Singer Hanan Turuk
@ GDCO ADDEX Exhibition



PWDs @ GDCO ADDEX
Exhibition



Minster and Ambassador @
GDCO ADDEX Exhibition

Conference of State Parties (COSP) Exhibition @ UNHQ New York



Deliver speech on UNTV



GDCO @ 10th COSP @ UNHQ NY June 2017



Arab Blind Union



**Ambassador of Sudan in Italy
GDCO Exhibition**



**Sudan UN mission & NGOs @
GDCO Exhibition**



Connecting People With Disability (PWD)



**intellectual disability families
training**



training PWDs with SSIT



deaf graduation 2008



Sharjah city e-Inclusion



Global disability leaders



free computers for deaf



Amal Institute for Deaf and Mute Students Gedaref



**PWD @ Shaikh Zaid
Mosque UAE**



Training deaf



**Deaf with Exc. Eindhoven
Mayor (Mr. Saccr)**



**Wedding gift to Omer and
Fatima (both are deaf)**



**Graduation gift to Deaf
Student**



**Exc. Mayor of Eindhoven @
Deaf telecentre Gedaref**



Deaf and Mute e-School in Gedaref

- ❖ Amal Institute for Deaf and Mute Care is initiative of Sudanese Association for Deaf and Mute Care but no secondary school for deaf in Gedaref
- ❖ GDCO established telecentre in Gedaref (computers and laptops 2006) and Khartoum 2 in front the Dutch embassy
- ❖ The computer science is part of the curriculum in Amal institute Khartoum 2 and more than 300 students were trained and more than 50% are in the university
- ❖ Kuwait universities organization committed to build the school and the information organization for Arab league committed to provide all the e-Media



Kuwait Universities Organization Visit to Deaf School



Deaf and Mute e-School in Gedaref

- ❖ Dr. Agnes built two classrooms for the request of GDCO
- ❖ The new e-school will be inclusive for PWDs and consist 8 classrooms (basic school) and 3 classrooms (secondary school) with internet lab for each
- ❖ Also consist of cafeteria, football area and grocery for the sustainability of the school (financial resources)
- ❖ the internet lab will be used for online training for intellectual disabled and blinds
- ❖ Speg provided laptops and projectors but due to delay it is shared with other project with commitment to replace them when it is required



Speg 5 computers and laptops



Drishttee India and ESCWA leaders @ Khartoum 2



Drishttee India@ Khartoum 2



Nabil Syria@ Khartoum 2



ESCWA leaders @ Khartoum 2



Connecting People With Disability (PWD)



telecentre @ Khartoum 2



ESCWA leaders @ Deaf telecentre @ Khartoum 2



**Speg @ deaf school
Gedaref**



Ultra sound blind stick



Mada Qatar and telecentre.org



Partnership for people with disabilities



SSIT @ e-Inclusion (PWD)



**Connecting Arabs PWD through ICT and GDCO
chaired the session of Cairo declaration WHO ITU UNDP**



SSIT @ e-Inclusion (PWD)



**SPEG donated laptops
and projectors**



**PWD Telecentre @
Graduate Khartoum University**



ESCWA leaders @ Alamal deaf school Khartoum 2



Dr.Ahmed & deaf @ ESCWA



ESCWA leaders @ Khartoum 2



Nabil Shamsdeem @ESCWA



Reem Al-amal@ Cairo



Cloud computing to connect blinds



Nour Elhuda 4 intellectual disability



Laptops and computers 4 intellectual disability training



intellectual disability families training



GDCO & e-Government Project

- ❖ Gedaref State e-Government project is PPPP applied due to the council of Ministers resolution No. 23 - 2012 to take advantage of GDCO projects to be implemented, replicated and make the e-government a reality in Gedaref state
- ❖ The Technical Committee held 6 meetings and set the guidelines for the implementation of Gedaref e-Government and submitted to the Secretariat of the Government
- ❖ The committee designed a questionnaire for the 23 thousand employees of Gedaref state with criteria based on the answer 1- who we want to train? 2= why we want to train? 3- what to train? 4- When to train? 5= Where to do the training?
- ❖ The Federal Ministries have been contacted within the framework of coordination to enable Gedaref to establish its e-government



Gedaref Council of Minister



@ 3rd WeGO exhibition



Speaking @ 3rd WeGO panel



GDCO & e-Government Project

- ❖ Gedaref State and GDCO participated in the 3rd e-government conference (3rd WeGO) in China and held an exhibition, workshop and speaker in several discussions
- ❖ Gedaref State participated in the Third Conference of Electronic Governments in China and held an exhibition, workshop and speaker in several discussions
- ❖ GDCO prepared three meetings for the delegation of Gedaref with the Mayor of Seoul (Korea), the mayor of Chengdu (China) and the mayor of Persal (Malaysia) mayor of Chengdu (China)



Deputy Mayor of Seoul (Korea)



Mayor of Persal (Malaysia)



Mayor of Chengdu (China)



Technological Education Project in Sudan (TEPS)

- ❖ On 17 October 2007, the first meeting between GDCO and the Scientific Creativity Authority to join the Technological Education Project in Sudan (TEPS)
- ❖ The MoU between the Ministry of Education Gedaref and the Scientific Creativity Authority was signed in October 2007
- ❖ Six of GDCO engineers were trained as trainers by a British expert from in technological education and 45 Gedaref children were trained
- ❖ Mr. Mohamed Al-Sir the project manager of TEPS participated in the 5th EATLF conference in Khartoum 2008 and in sultanate of Oman telecentre forum
- ❖ GDCO provided him the opportunity to participate in the Telcentre Forum in Cairo and paid fully



**Training 6 of GDCO
engineers 4 TEPS**





Displaced Children with Puna Training Centre

- ❖ In Gedaref there are many Displaced or street Children
- ❖ GDCO supported Puna a telecentre (Eng. Ali Elrayah) with 20 computers to train the Displaced Children
- ❖ More than 300 were trained and some of them are employed



20 computers and LCD monitors



Children are standing on the line



GDCO Sudan, National & Global Recognition

- ❖ GDCO wins seven international and one national award for information for development (i4d).
- ❖ GDCO wins two ITU certificates of excellence and recognition for Digital Innovation 2011 and e-Agriculture WSIS champion 2019 prize.
- ❖ GDCO wins the award of the Arab Telecentre Women Ambassador by Eng. Liza Ibrahim G. Amir and she wins the certificate of one of the best Girls in ICT in Sudan. Also, she wins the certificate of one of the best 100 telecentre managers in the world



e- India i4d 2007 award



e- India i4d 2009 award



e- India i4d 2008 award

More awards and the Selection procedure for the winners

- ❖ The procedure of selecting winners is very transparent. (1) apply for the award online (2) checked by the technical committee (3) submitted for voting online (4) select the high voting projects to conference
- ❖ GDCO won the first international prize (i4d award e-India 2007) for the role of telecentres in connecting people with disabilities in competition with 35 projects
- ❖ The last WSIS 2019 prize around 1149 projects applied. The projects were viewed by the technical committee and 1062 are following the rules and they are posted online for voting. More than 2 million voters for the 18 groups and the best 5 of each group have the highest number of cast (total of 90 project selected) were nominated as the best WSIS prize champion 2019. GDCO e-Agriculture project was selected as one of the best 5 out of 53 e-Agriculture projects worldwide



**Best Telecentre album
2011 Philippines**



**Sudanese best NGO
ICT award 2011**



GKPF award @ GK3



GDCO Sudan, National & Global Recognition



Best ICT girl Sudan



**WSIS champion 2019 prize
e-Agriculture**



eWorld 2011 award

76



Best world talent & innovator



WSIS prize champion 2019



Outstanding telecentre manger



How these travel Funded?

- ❖ GDCO participated in more than 70 international conferences
- ❖ All telecentre.org , UN-ESCWA , IDRC are paid by organizers (18 conferences)
- ❖ Government (NIC 7 tickets), GDCO 2 tickets, Gedaref Gov. 2 ticket
- ❖ Many organizers including ITU, UNCTAD, ICT Commonwealth, UN-HABITAT, GK3 and Reginal telecommunication union, GDP, more are fully paid
- ❖ Contribution of friends (6 tickets)
- ❖ More than 50% paid from my own money or my family and all national conferences from own money
- ❖ More than 2000 (two thousands) guest are invited to dinner or lunch to our guest house in Omshagara by my family on behave of GDCO
- ❖ These include the physios conference (more than 500 guest), the 4th computer conference (more than 400 guest), the mangers of information centres (100) and more



GDCO and Farmers Union Partnership

- ❖ The partnership was signed between Gedaref Digital and the mechanized farmer union 2008 in the e-agriculture project.
- ❖ Gedaref Digital supported the establishment of a farmer's telecentres in the farmers company and connected the network, as well as supporting the State Farmer and Al-Hawatah with computers and 5 farmers leaders were trained the basic computer and internet courses
- ❖ GDCO helps the farmer union telecentre to join the Knowledge Network @ the Economic and Social Commission for Western Asia (ESCWA) in Beirut and Eng. Suhaib Babeker Hamad, Director of the telecentre, participated in four training workshops in Khartoum, Cairo, Beirut and Damascus, enabling him and his colleagues in Gedaref to establish a database and internet website for the farmer union
- ❖ The telecentre manger joined the North Africa and Middle East Telecentre Network in Cairo



ESCWA Knowledge Network



network with the minister



Gafaar Elobeid Poultry and Dairy Farm

- ❖ Gafaar Elobeid Poultry and Dairy Farm is 50 acres, located 13 kilometer from centre of Gedaref and the sales office is East of Omar al-Badawi building and next to Al-Fayhaa pharmacy
- ❖ It is one of the largest suppliers of white meat in Gedaref and have some cows and Saanen Goats and cover 5% of the need for Gedaref
- ❖ There is a groundnut, sesame, sorghum and sunflower mills in addition to press and a mixer to prepare the animal food and seed cake. Also it has refrigerators to keep the slaughtered chicken frozen There is a public electricity network from the main line with a generator at the cutoff
- ❖ A Lebanese poultry expert visited the farm through the Dutch Embassy and efforts are being made to develop the farm to provide larger quantities of white meat and may be through the Agri-Business project with the European Community through the Dutch development Projects RVO





Solarman company & Partnership 4 e-learning

- ❖ Solar man company is the oldest alternative energy in Sudan and of the supporter of GDCO
- ❖ Solar man contributed to GDCO out of school children e-learning project with a free solar unit through al-Alahfad University and a subsidized unit through GDCO 2010
- ❖ Solar man contributed to the travel of GDCO 3 times.

Electrical power solution

- 1- solar photovoltaic System
- 2- solar Pumping System,
- 3- Generators
- 4- UPS System
- 5- Stabilizers -AVR
- 6- Solar Street Light System
- 7- Back Up System
- 8- Distribution Panel
- 9- Conditioning, Gearbox and Substation
- 10- Air Port Ground Services





The Sudanese Islamic Bank (SIB)

- ❖ The Sudanese Islamic Bank (SIB) was founded in 1983 and has 51 branches including 18 branches in the capital, 33 in the states and 5 subbranches
- ❖ The Sudanese Islamic Bank (SIB) is the first to establish rural development and family branches in the private sector banks in the mid-1980s
- ❖ The Rural Development Branch has contributed to the production of potatoes and the provision of refrigerated storage containers in the northern countryside of Omdurman
- ❖ SIB supporting small producers in the agricultural areas and started the initiative of a good loan (قرض حسن) and microfinance to serve small producers
- ❖ The bank provided funding to its customers for chicken and cages purchasing from the Coral Group and the Rural Development Branch contributed to the first importation of Saanen Goats in Sudan





Algythar Company for Trading & Services

- ❖ **Algythar** r Company, headed by Eng. Abdallah Al-Bashir who is one of Gedaref Pioneers of Farmers assisted by Eng. Al-Tahir Al-Bashir - **0912144715**
- ❖ **Algythar** Company is engaged in the production of cotton, many cash crops & livestock
- ❖ **Algythar** Company imports wide level disc, cotton pickers and pesticides and its sprinklers
- ❖ It is linked with Turkish companies in agriculture with central irrigation in the cultivation of clover and fruit trees (citrus) in the Nile State
- ❖ supported access and documentation for the development of e-agriculture and e-marketing



The Farmers' Commercial Bank



- ❖ Farmers' Commercial Bank was established in 1998 as a result of the merger of two large banks, the Commercial Bank of Sudan 1960 and the Farms Bank for Investment and Rural Development 1992 to promote the agricultural and agriculture-related sectors. It has Sudan's largest shareholder base and 36 branches across Sudan
- ❖ The Bank seeks to achieve strategic objectives in the country, such as the promotion of the agricultural, industrial and commercial sector in general, and the development of the Sudanese countryside in particular, in addition to provide outstanding financing services for all other economic
- ❖ Farmers' Commercial Bank is a banking institution that works to provide comprehensive and distinctive banking services to all segments of society with a focus on small producers and in a stimulating environment supported by advanced technology and high quality products while adhering to the highest professional and ethical standards and continue to provide high financial results.



CSR Award 2018 Qator



agriculture peojects



info@fcbsudan.com

The Farmers' Commercial Bank



- ❖ The Farmers' Commercial Bank adopts an open door policy, recognizes outstanding performance, works to win loyalty and measurement of employees' satisfaction, establishes a spirit of belonging, and promotes the principles of honesty, credibility and transparency.
- ❖ The Bank won the International Award for Excellence and Scientific Efficiency for Partnership in Corporate Social Responsibility (CSR) in the Financial Institutions and Islamic Banks Sector 2018 Qatar, also, the Bank won the International Award for Excellence and Scientific Efficiency for Partnership in Corporate Social Responsibility (CSR) 2019 Kuwait
- ❖ The bank is characterized by microfinance projects and support of medical supply services



CSR Award 2019 Kuwait



medical supply services



microfinance projects



The Sudanese Agricultural Bank



- ❖ The Sudanese Agricultural Bank policy aims to raise capital financing, means of modern technologies to raise production and reduce costs.
- ❖ It also aims to activate microfinance, especially in rural areas. It aims to provide financing in the form of services to small farmers to increase production and reduce costs such as contracted farming.
- ❖ The funding policy aims to finance the identification and treatment of soils and its problems to enable the farmer to choose the crop fertilizer types
- ❖ The general guidelines for financing are export subsidies and food security. These include linking financing with the use of technical packages and linking financing to agricultural insurance to reduce risks. implementation of forest belts and coordination with the State Ministry of Agriculture



Port Sudan silo



Gedaref new Matmoura



Gedaref silo



The Sudanese Agricultural Bank



- ❖ The Sudanese Agricultural Bank was established in 1958 in partnership between the Ministry of Finance and the Bank of Sudan.
- ❖ The Sudanese Agricultural Bank has the largest network of branches (106 branches) and through this network financed more than 11 trillion and 200 billion pounds 2018-2019 with an area of 5.53 million acres implemented. This year, it targets 9 million acres in the rain and irrigated sector
- ❖ The Sudanese Agricultural Bank owns the largest container for storing crops (670 thousand tons) in silos (Gedaref silo 100.000 tons and port Sudan 50,000 tons) and 375 dry warehouses and the highest capacity of modern Gedaref landfills was 650 thousand tons (six million sacks) in the 2015-2016 season



harvesters'



fertilizer



Cotton pickers



Planter

Aleena company for agricultural services



- ❖ Aleena company for agricultural services is one of the sustainable development partners to increase production and reduce its cost with its partners in India JKSeed and Sudan
- ❖ Aleena joined the group of e-Agriculture development and e-marketing in 2018 and contributed to the receipt of the award of the World Summit on the Information Society WSIS in Switzerland 2019 and contributed to host and run the page
- ❖ Aleena company with its agricultural partners and their companies cultivated the Indian genetically modified cotton (X Gene) with an average production in irrigated area 25 quintals per feddan and began to plant 18 thousand feddan 2015 and reached 200 thousand feddan in 2019 and reached the highest production of 40 quintals per feddan. The cotton was cultivated in Gedaref for the first time (Algithar company 500 acres and another project 1200 acres) 2019 Mealybug with tomato crop. The cotton is resistant to the American worm and auids



Indian hybrid sorghum with 30 sacks/feddan and tolerant to striga Indian Generic cotton

Aleena company for agricultural services



- ❖ The company planted hybrid sorghum after its approval with an average production of 30 sack (100 kg) per feddan in irrigated research and commercially cultivated in 2019 in an area of 40 thousand feddans, and in rainfed in Gedaref (Al-Ghaithar Company 800 feddans)
- ❖ Aleena has grown millet in research for more than 3 years with an average of 25 sack (100 kg) per acre as well as maize. It also produces many vegetables including tomatoes, peppers, cucumbers and high quality
- ❖ Aleena company for agricultural services has a wide range of registered herbicides pesticides in Sudan Includes (1) herbicides Bendstop 50% (2) Insecticides include Celcton 50% (3) Fungicides include 72% Mancomil WP for early and late blight in tomatoes and potatoes as well as for powdery mildew ... Mealybug with tomato crop



تلفون 0123202948 عبدالماجد

تلفون 0123202947 عماد



Mahgoub Sons Group (MSG)

<https://mahgoubsons.com/>



- ❖ Mahgoub Sons Group (MSG) is one of the first Sudanese agricultural companies in Gedaref Sudan founded by Eng. Merghani Mahgoub in 1969.
- ❖ MSG expanded into various sectors and industries. The group includes 20 companies associated with agricultural production, food processing, transportation companies and cotton gins, as well as a number of media companies, including the Blue Nile and Sudania 24 Channel which was distinguished in the economic dialogue and agriculture development
- ❖ Dr. Wagdi Merghani, MSG Executive Director, is one of the pioneer farmers (one of the founders of the Pioneer Farmers Company) who used technology in the agriculture development to increase production and reduce costs to achieve the sustainable development goals through agriculture across Sudan
- ❖ MSG contributed to the agricultural transformation from traditional crops (Sorghum and sesame) to cash crops (Sorghum, sesame, cotton, sunflower, water melon seeds, soya beans.. etc.) and large areas





Mahgoub Sons Group (MSG)

<https://mahgoubsons.com/>



- ❖ The MSG Companies contributed to the development of contracted farming system in Sudan to enable small farmers to use the latest technical development tools to increase production
- ❖ MSG guided the project of establishing an electronic crop market exchange (bond) with one of the distinguished Ethiopian companies in partnership with Gedaref and Kordofan governments
- ❖ MSG is supporter of Gedaref Digital City and also supporters of the Faculty of Agriculture, @ Gedaref University for better training and field practices for students
- ❖ MSG started to establish training and research center for rain-fed agriculture @ Umm Shedirat village (South Gedaref) to provide research, farmers training and capacity building, accredited certificates, soil testing using remote sensing (drones) and early warning center for hazards



شركة النيلين للهندسة
وقطع الغيار المحدودة
NELEIN ENGINEERING
AND SPARE PARTS LTD.



- ❖ . Impact Hub Khartoum, member of the global Impact Hub Network, is an innovation lab, business Incubator and social enterprise community center that offers an entire ecosystem of resources, inspiration and collaboration opportunities for startups and SMEs
- ❖ The Impact Hub company is Inspirational coworking space. Plug-and-work office. Conference room rental. Vibrant networking events. 6 acceleration programs. More than 101 locations over the world

Impact Hub **Locations**

- Primary 117 St., Near Amarat Center, Riyadh
- Khartoum, Khartoum 11111, SD



storage secured bag campaign



Impact Hub & RVO



Exc. Karin visited Omshagara

- ❖ The Impact Hub company joined the e-Agriculture and e-Marketing online group to share their experience on implementing the SDGs
- ❖ It is partner with the world food program UN-WFP for storage secured bag to reduce the losses of the crops after harvesting
- ❖ The Impact Hub is the local partner with RVO for the European agri-business project to support the private sector which discussion started in Omshgara village with Exc. the Dutch ambassador
- ❖ It supported the crop market website and supported GDCO to receive the WSIS champion award



RVO @ FIELD



RVO @ Omshagara



RVO @ MSG



Gedaref Pioneers Farmers Company

- ❖ Gedaref Pioneer Farmers company for agriculture service was established in 2012 with its objectives to use technology to develop the agriculture sector by increasing yield and reducing cost of production. Also, changing the types of crops from the traditional to the cash crops including cotton, sunflower, water melon
- ❖ The initiative is supported by Exc. Ali Osman the vice president , Eng., Awad Osman (the former D.G of agriculture Bank) and Eng. Salah Hassan the recent DG of Agriculture bank.
- ❖ The members of the initiative are 19 guided by Exc. Karamalla Abass and Dr. Wagdi Margani. Its headquarter was in Mahgoub Sons company (MSC) and its DG. Is Dr. Mohamed Osman M. Nour
- ❖ The company succeeded in changing agriculture practices. They use the planters and cotton pickers. Also change the types of crops from traditional to cash crops including thousands hundreds of feddan cotton, sunflowers and more.
- ❖ Many members of the company are founders of the e-Agriculture and e-marketing group and good supporter for GDCO and the documentation of the projects. The printed 2 thousands of the project brochure and the book series



The e-Agriculture and e-Marketing Group Series (4)

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