

**Dr. M. Abu Fatima** Director General Geological Research Authority of Sudan (GRAS)

### The Next Major Gold Mining Destination In Africa

Geological Research Authority of Sudan (GRAS) The Republic of the Sudan Ministry of Minerals









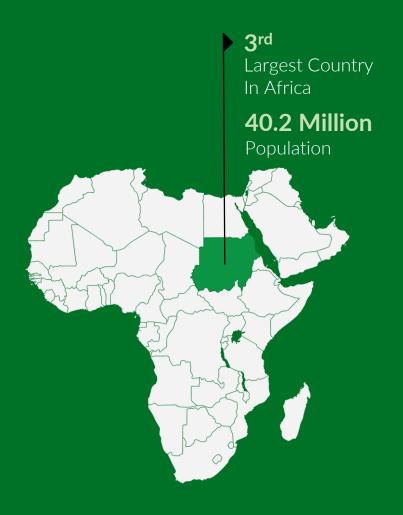


" Sudan is one of the 20 countries producing 38% of world gold production."

## ABOUT THE SUDAN

Khartoum, Capital of Sudan

### ABOUT THE SUDAN



Arabic & English Official Languages

#### Agricultural

#### **Primary Resources**

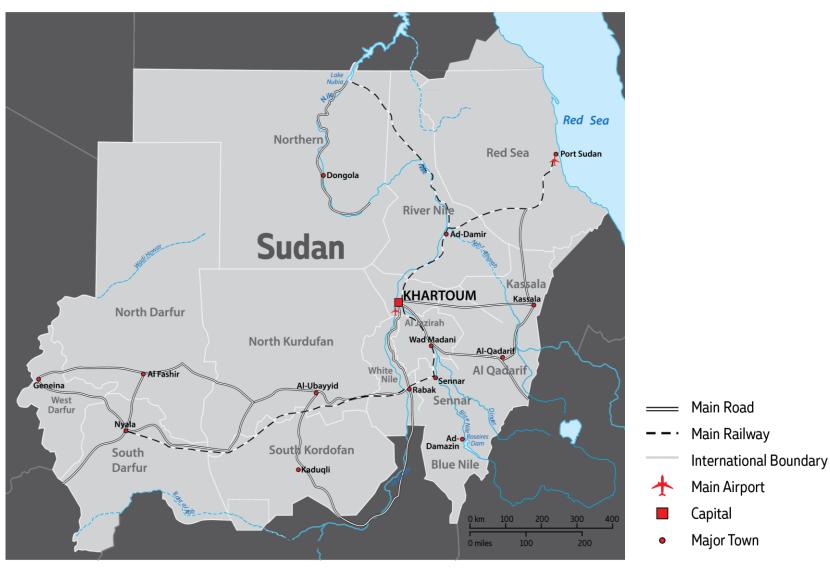
including cotton, peanuts, gum arabic, and sesame seeds, alfalfa



Agriculture based economy supported by 138 million heads of animal stock

Government conducted wide public dialogue and built a suitable and acceptable national political and constitutional framework.

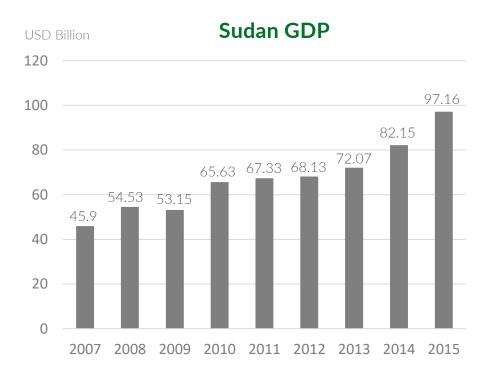
### ABOUT THE SUDAN



### SUDANESE ECONOMY

Post-Sanctions Era for Sudan

- JAN 2017 the United States lifted a 20year embargo
- American, European & other International companies are now able to invest in Sudan
- Sudan now open for international mineral investment



Source: www.tradingeconomics.com | World Bank

### MINERAL POTENTIAL

### POSITIONED TO BE A MAJOR MINING DESTINATION

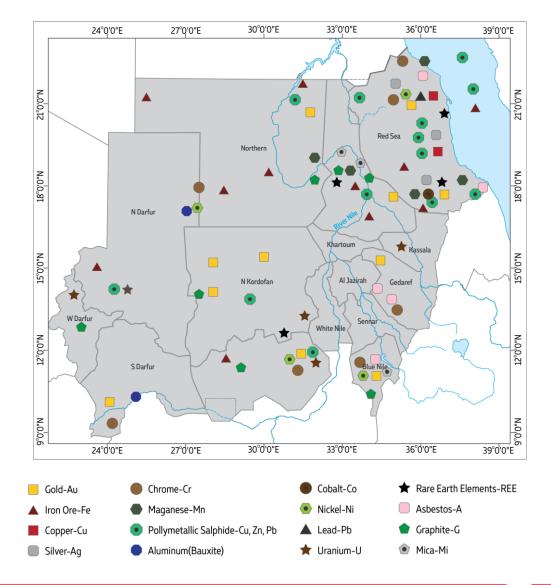
- Potential to re-emerge as a significant oil producer and become a mineralbased economy
- Mineral resources and oil reserves remain under-explored
- One of the last Precambrian terrains to be prospected
- Geological environments similar to large mineral deposits elsewhere globally – world-class deposits remain undiscovered



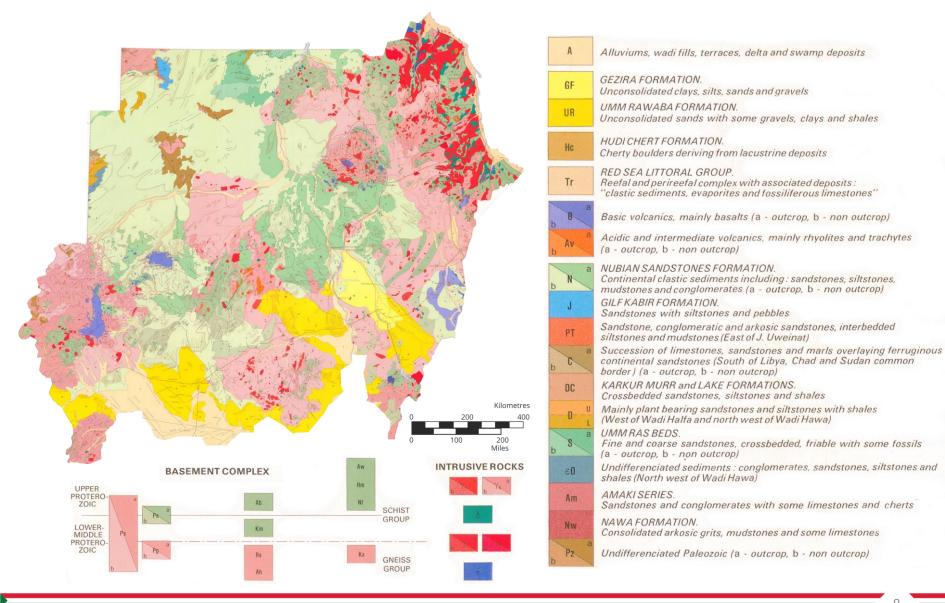
### MINERAL POTENTIAL IN SUDAN

### The main mineral potential includes:

- Precious Minerals
  Gold, Silver, Platinum
- Base Metals
  Copper, Zinc, Lead
- Other Metallic Minerals Iron, Chrome, Manganese, Uranium, REE
- Agro minerals
  Phosphates, Potash
- Industrial Minerals
  Limestone, Marble, Gypsum,
  Granite, Kaolin, Graphite
- Gemstones



### GEOLOGICAL ENVIRONMENT OF SUDAN



### **GOVERNMENT BODIES**

前前

....

ALCONSTANTS.

.....

Za

------

Khartoum, Capital of Sudan

### MINISTRY OF MINERALS

- Established in 2010
- Authority for metals and minerals within the lands, rivers and the continental shelf of Sudan
- Responsible for managing the mining investment system
- Promotes local and foreign investment in the mining sector

#### Key Activities:

- 1. Supervision of geological exploration and prospecting
- 2. Entering contracts with investors and granting licenses
- 3. Developing local human resources in mining
- 4. Managing relations with institutions and relevant regional and international organizations
- 5. Administration of GRAS, SMRC, SUDAMIN



11

### MINISTRY OF MINERALS

#### Sub Bodies

**GRAS**—Geological Research Association of Sudan

- national geoscience technical organization
- fosters sustainable growth and socio-economic development of mineral resources
- develops and administers equitable policies for both industry stakeholders and the State of Sudan



#### SMRC

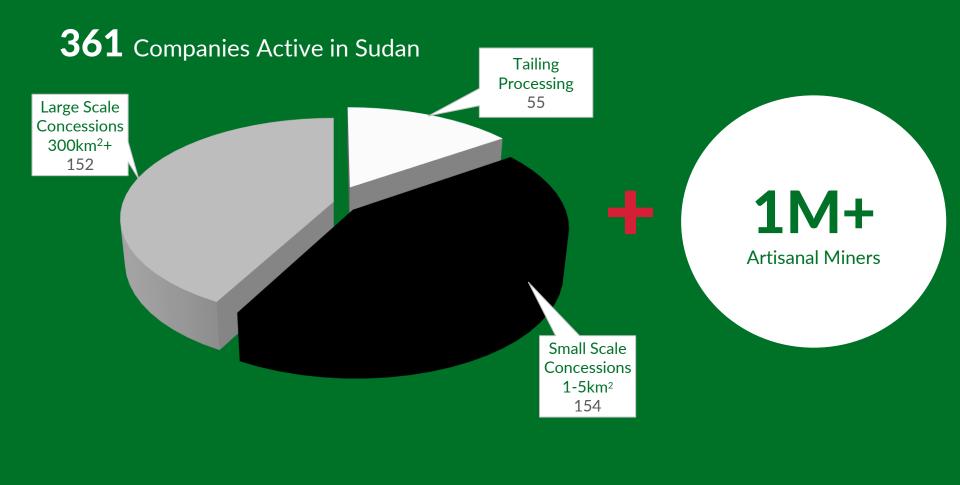
 Monitors companies licensed for exploration and mining

#### SUDAMIN

develops national technical standards

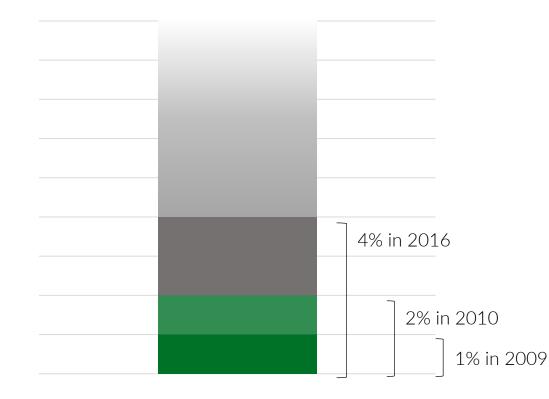
### GOLD PRODUCTION IN THE SUDAN

### MINERAL SECTOR DEVELOPMENT



### MINERAL SECTOR DEVELOPMENT

#### Mineral Sector's Contribution to GDP



- Since the beginning of this decade, the mineral sector has played an important role in the economy of the country.
- Until 2009, the contribution of the mineral sector to GDP was about 1%.
- Since 2010, the contribution of the mineral sector to GDP increased to 2% and subsequently to 4% in 2016

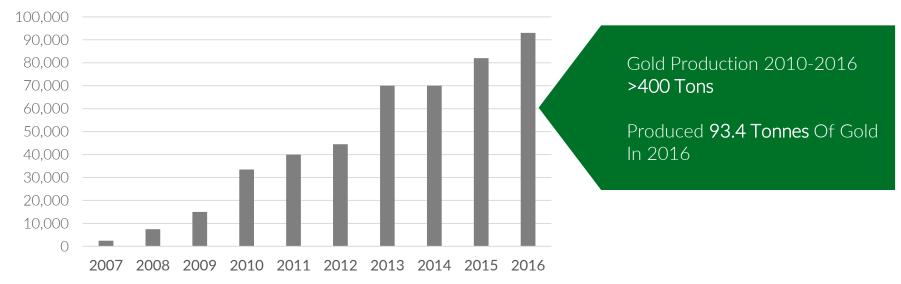
Mineral Sector's Contribution to GDP

### 2<sup>ND</sup> LARGEST GOLD PRODUCER IN AFRICA

Without any Commercial Gold Mines

Rank	2007	2008	2009	2010	2011	2012	2013	2014	2015
1	South Africa								
2	Ghana								
3	Mali	Mali	Mali	Mali	Mali	Sudan	Sudan	Sudan	Sudan
4	Tanzania	Tanzania	Tanzania	Tanzania	Sudan	Mali	Mali	Mali	Mali
5	Guinea	Guinea	Guinea	Sudan	Tanzania	Tanzania	Tanzania	Tanzania	Tanzania
6	Togo	Togo	Sudan	Guinea	Burkina Faso				
7	Zimbabwe	Congo, DR	Togo	Burkina Faso	Togo	Togo	Togo	Congo, DR	Guinea
8	Congo, DR	Sudan	Burkina Faso	Zimbabwe	Guinea	Congo, DR	Congo, DR	Togo	Zimbabwe

#### Sudan Gold Production (in kg)



### SUDAN GOLD REFINERY CO.LTD

- Located In Khartoum Capital of Sudan
- Sudan gold refinery maintains a high quality wet chemical refinery ( aqua regia process) as well as a complete precious metals melting system for accurate and reliable results
- The refinery is producing gold of different purities including: 995.0; 999.0; 999.9 in one kilo or large standard bars
- Refinery is producing silver of 999.0 fineness (400 kg/day)
- The refinery has an annual production capacity of 270 to 360 tons



### PRO-MINING INVESTMENT FRAMEWORK

Orca Gold's Camp at Block 14 Gold Project

### MINING OBJECTIVES & POLICY

- 1. Diversify the sources of national income in order to revive the economy
- 2. Expand the national industrial base add value for mining products
- 3. Provide employment opportunities and combat poverty
- 4. Increase the Gross Domestic Product
- 5. Conservation of the environment and encourage safe techniques for gold processing
- 6. Attract foreign mining investments and encourage national investors
- 7. Training and capacity building of workers in the mining sector
- 8. Develop and upgrade local laboratories as well as build up minerals database and develop geological researches
- 9. Enhance sustainable development projects in mining corporate social responsibility (CSR)
- 10. Continuous upgrade of the geological & mineral maps of the Sudan

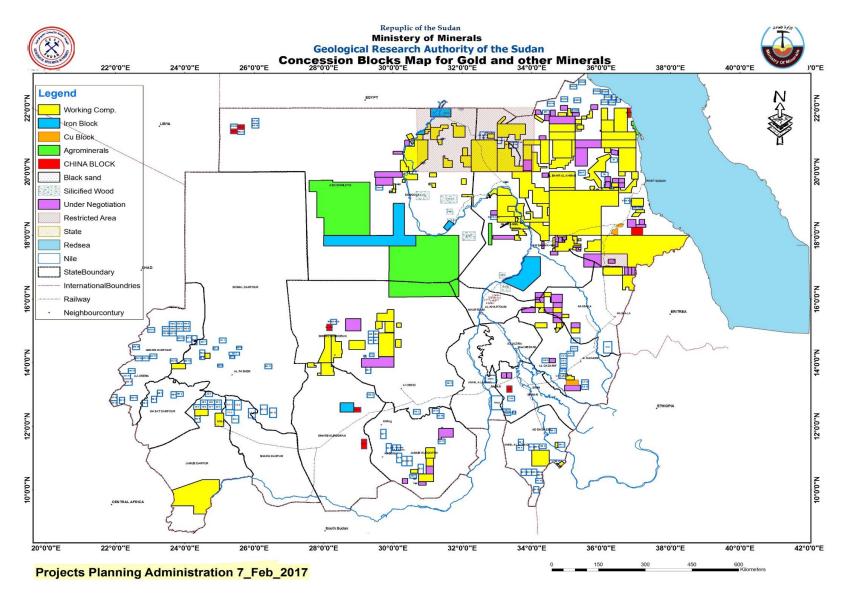
### SUDAN PRO-MINING INVESTMENT FRAMEWORK

### The Government is entitled to:

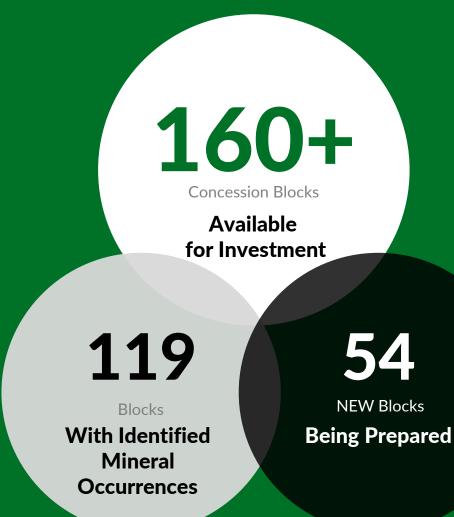
- 5 to 7% royalty
- 15-35% free carried interest
- 15% business profit tax
- Varied property taxes

- Attractive Mining Code and Investment Framework
- Exploration License 2+1 years term and renewable
- Mining Licenses 25-year term and renewable
- Investors recover all capitalized exploration and development expenses
- Agreements cover both the exploration and exploitation periods
- Custom free importation of all mining equipment + VAT retention
- Majority equity ownership
- Right to transfer ownership
- Favorable foreign exchange rates
- No withholding taxes
- Access to the available data
- Commercial terms negotiable

### CURRENT CONCESSION BLOCKS OF SUDAN



### **PROPOSED NEW CONCESSION BLOCKS**

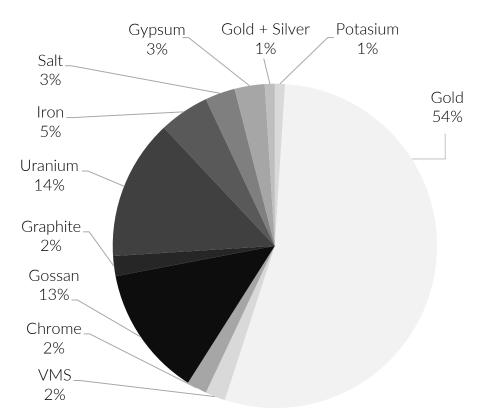




### PROPOSED NEW CONCESSION BLOCKS

Mineral Type	No of Blocks			
Gold + Silver	1			
Potassium	1			
Gold	64			
VMS	2			
Chrome	2			
Gossan	15			
Graphite	3			
Uranium	17			
Iron	6			
Salt	4			
Gypsum	4			
Total	119			

#### **Proposed Concession Blocks**



### COMPANIES OPERATING IN THE SUDAN

0 7 51

EDEOR

SUDAN ONE SCY A19 GRS ....

### COMPANIES OPERATING IN THE SUDAN



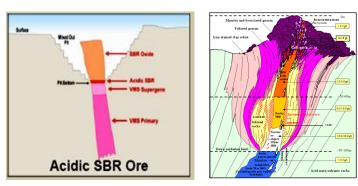
#### Orca Gold Inc.

- Advance-Stage Gold Project in Northern Sudan
- Current Resources: 1.792 Moz Indicated Au resource at 1.82 g/t and 536k Inferred resource at 1.7 g/t
- On track to be first large scale gold mine in The Sudan

#### Ariab Mining Company

Open pit operation and exploration for VMS





### COMPANIES OPERATING IN THE SUDAN



#### Alliance for Mining Co. Ltd

- On April 30, 2013, the Government of the Republic of the Sudan granted an exploration license for Block 30 in Red Sea State to Kush for Exploration and Production Co. Ltd. (Kush E&P)
- In the end of 2014, Kush E&P and Sudanese partners established a special project company – Alliance for Mining Co. Ltd. – to operate the GPP and hold production license



#### Managem Mining Company

Advanced Exploration and Pilot Development

- Proved 66t of Au at 1 out of 5 sites in 1 of their 3 concessions
- Heading for 250t of Au & associated metals

# SUMMARY 07

Khartoum, Capital of Sudan

### WAY FORWARD FOR THE SUDAN

- OPEN FOR INVESTMENT AND POSITIONED TO BE AFRICA'S NEXT MAJOR MINING DESTINATION:
- Economic Sanctions Imposed By The U.S. Eased in January 2017

#### UNDER EXPLORED:

- Sudan Is The Last Major Precambrian Terrane In Africa Yet To Be Explored For Mineral Resources
- Diversified Geology Hosts Huge Mineral Potential

#### MINING-FRIENDLY:

- Infrastructure Is Developing
- Easy Permitting Process
- Skilled Labour Available