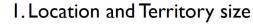
GEODIVERSITY OF AFRICA IN CELEBRATING **UNESCO'S INTERNATIONAL GEODIVERSITY** DAY









- 2. Geological setting
- 3. Values and Global Significance
- 4. Geodiversity and Biodiversity
- 5. Geo tourism and sustainable community developments
- 6. Research, education and Partnerships
- 7. Challenges and opportunities





JOSHUA MWANKUNDA

Manager - Cultural Heritage and Geoparks Department Ngorongororo - Lengai UNESCO Global Geopark, TANZANIA



to this day.

NGORONGORO LENGAI UNESCO GLOBAL GEOPARK

I. Location and Territory size

MIXED WORLD HERITAGE SITE -**NATURE (1979) AND CULTURE** (2010)

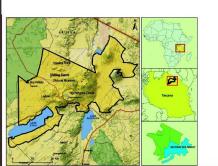
MAN AND BIOSPHERE RESERVE

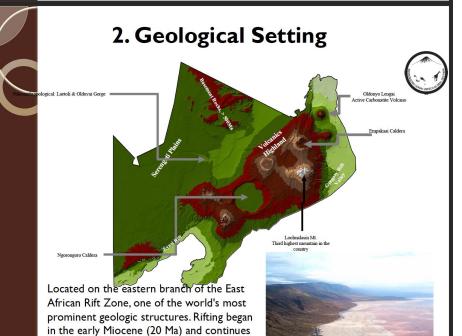
LISTED IN SEVEN NATURAL **WONDER OF AFRICA (2013)**

UNESCO GLOBAL GEOPARK (2018)

- Area: 11.886 Km2
- Population: 230, 586 from four ethnic groups - Maasai, Datoga, Hadzabe and Irawq - - From districts of Ngorongoro, Karatu and Monduli)





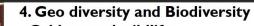




3. Values and Global Significance

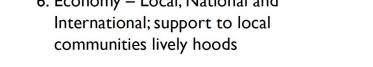
- I. Nature Wildlife & safaris
- 2. Archaeological and Paleontological -History, culture, Human evolution
- 3. Intangible culture tribal experiences, traditional skills, dances, customs
- 4. Geological Landscapes, beauty & aesthetic, evidence of earth formations & processes, support to Archaeology stratigraphy and dating,
- 5. Research and Education
- 6. Economy Local, National and International; support to local







Ngorongoro Crater -Largest unbroken Caldera supporting wildlife of over 25,000 species









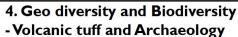
4. Geo diversity and Biodiversity

- Filled Caldera and wildlife..



Empakaai Crater - Supports Laser flamingos breeding area and largest East African buffalos







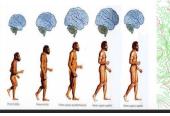


- Evidence of Human Bipedalism for past
- Bipedalism precceded enlarged brains







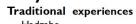








- 4. Geo diversity and Biodiversity
- Landscapes and culture



- Hadzabe
- Maasai
- Datoga

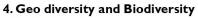


- 4. Geo diversity and Biodiversity
- Recent deposits



Travertine Pillars (Tufa Towers)

These amazing geologic features resemble fossilized trees. The presence of a salty lake is related with the construction of tufa towers, and fresh water springs must exist beneath the lake. The interaction of the two causes calcite to precipitate, forming hollow tubes that grow upwards to form an intricate network of hollow branches that form the oddshaped tufa towers. The age of the tufa towers is considered to be around 5,000 years.



- Sand dunes in savvana



Shifting Sand

The crescent-shaped feature (named Magic shifting sand) stands around 5m (16 ft) tall and measures 100 m (328 ft) long along its arc and moves majestically at an annual rate of 17 - 19 m. What distinguishes it is that it appears as a solitary, isolated dune with magnetic qualities.











Olduvai onsite

Museum:

Paleoanthropology,

Culture (ancient and

Wildlife Experience: Highest density of including the Big 5 of

Walking safari: Perform walking safari which takes one on foot through forests, craters, mountains and plains over routes that takes several days, may involve bush camping and guided by local Maasai, Rangers and Maasai donkeys are used to carry

Camping: private or public





5. Geo tourism and sustainable community developments



10% of annual gross tourism revenue aids communities by funding education, health, food subsidies, and infrastructure supporting livestock rearing.



6. Research, education and Partnerships

















6. Research, education and **Partnership**





6. Research, education, event and Partnerships















6. Partnerships





6. Partnerships and networking











DÉCLARATION FONDATRICE DU RÉSEAU AFRICAIN DES



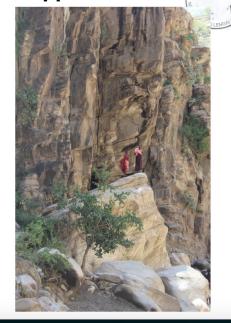






6. Challenges and opportunities

- Geo Sites
 accessibility and
 presentation Continuous surveying
 and interpretation
 calling for increased
 resources, both financial
 and technical
- Climate change
 Reduced vegetation
 cover, fewer pastures
 for livestock and wild
 animals, extreme
 weather conditions
 with increased
 geohazard risk



THANKYOU FOR YOUR ATTENTION











