

ReSTORE Summer School:

Public Lecture

Strengthening Collaborative Action for Sustainable Artisanal & Small-Scale Mining (ASM) in Africa

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6th July, 2022

ASM in Sub-Saharan Africa



- Artisanal and small-scale mining (ASM) described using characteristics of production engineering, market, social and labour practices (Muthuri et al, 2021)
 - Low capital investment; customary & low-technology, labour-intensive mineral extraction and processing
- Employs over 13 million; about 70-80% are informal workers.





ASM in Sub-Saharan Africa



- ASM is an important pillar in the Africa Mining Vision (2009)
 - income generation & foreign exchange in many African countries.
- ASM contributes a considerable proportion mining of precious stones (e.g. diamonds, gems), precious metals (e.g. bauxite, gold) & industrial minerals (e.g. sand, clay).



- ASM disregarded in regulatory and policymaking processes because of its informality (Barreto et al., 2018)
 - Policies/interventions developed for miners rather than with miners.

ASM in Sub-Saharan Africa

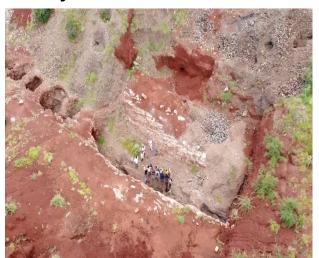




Precarity of work with no access to social protection



High exposure to occupational health & safety environmental risks





Extreme poverty in the mining community





Sust-ASM Project



Co-Production for Sustainable Artisanal and Small-Scale (ASM) Mining in Kenya







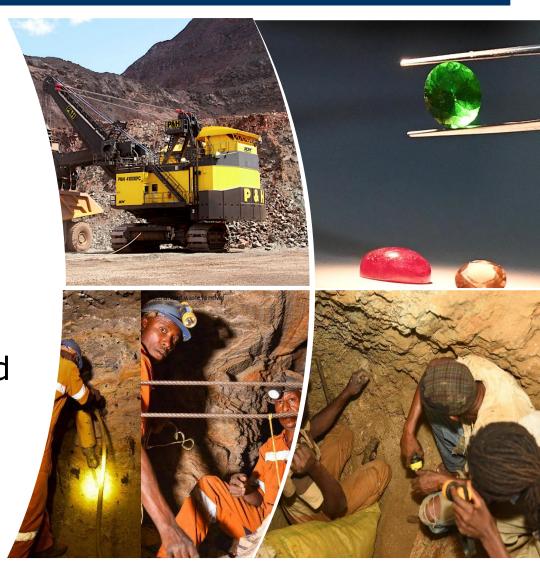


https://sustainable-asm.com/



ASM Mining in Kenya

- Artisanal mining recognised in the new Mining Act of 2016.
- Mineral regulation and governance arrangements new and still evolving
- Implementation gaps





THE KENYA GAZETTE

29th January, 2021

| Name | Community Registration Unit | County | |
|-------------------------|--------------------------------|----------|--|
| Diana Nyambura Mbugu | Tigania West | Meru | |
| John Mathenge Muchiri | Igembe | Meru | |
| Aggrey Omolo Ogola | Siaya | Siaya | |
| Floice Ochieng' | Bondo | Siaya | |
| Elizabeth Nelima Wekesa | Kajiado | Kajiado | |
| George Oluoch Ogutu | Suba | Homa Bay | |

Dated the 25th January, 2021.

FARIDA KARONEY,

Cabinet Secretary for Lands and Physical Planning.

GAZETTE NOTICE NO. 530

288

THE HUMAN RESOURCE MANAGEMENT PROFESSIONALS ACT

(No. 52 of 2012)

THE HUMAN RESOURCE MANAGEMENT (PROFESSIONALS ELECTIONS TO THE COUNCIL) REGULATIONS, 2015

(L. N. No. 114 of 2015)

APPOINTMENT

IN EXERCISE of the powers conferred by regulation 14 (1) of the Human Resource Management Professionals (Elections to the Council) Regulations, 2015, as read with section 7 (1) (d) of the Human Resource Management Professionals Act, 2012, the Cabinet Secretary for Public Service and Gender appoints—

LILIAN NGALA ANYANGO

to be a member of the of the Institute of Human Resource Management Council, for a period of three (3) years, with effect from the date of gazettement.

Dated the 19th January, 2020.

MARGARET KOBIA,

Cabinet Secretary for Public Service and Gender.

GAZETTE NOTICE No. 531

THE PUBLIC FINANCE MANAGEMENT ACT

(No. 18 of 2012)

THE GOVERNMENT FINANCIAL MANAGEMENT (WOMEN

Mwandawiro Mghanga — Chairperson David I. Murehebu — Secretary

Members:

Peter Goi Lutimiru Peris Mlamba Wangio Charles Kasuku Shogosho Job Onsomu Edith Kalo

Thomas K. Bosire

- The Terms of Reference for the Committee shall be to advise the representative of the Director of Mines in the granting, renewal or revocation of artisanal mining permits.
- The Term of Office for the Committee shall be three years with effect from the 1st February, 2021.
- The Committee shall be based at the State Department for Mining Office at Taita Taveta.
- The Ministry of Petroleum and Mining shall meet the costs of the Committee.

Dated the 21st January, 2021.

JOHN K. MUNYES.

Cabinet Secretary for Petroleum and Mining.

GAZETTE NOTICE No. 533

THE MINING ACT

(No. 12 of 2016)

VOI GEMSTONE AND VALUE ADDITION CENTRE STAKEHOLDER COMMITTEE

APPOINTMENT

IT IS NOTIFIED for the general information of the public that pursuant to section 12(1) of the Mining Act, 2016, the Cabinet Secretary for Petroleum and Mining has constituted a Committee to be known as the Voi Gemstone and Value Addition Centre Stakeholder Committee.

The Committee shall comprise of —

Benson Mwangi Kigo — Chairperson

Edward Olali Omito - Secretary

Kenya's Gemstones Sector

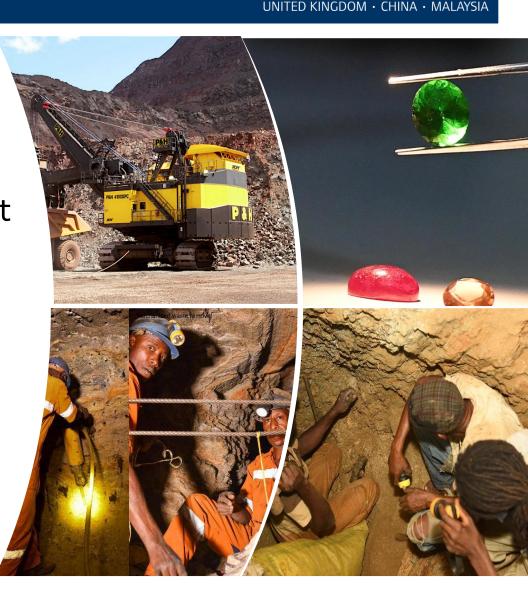


The County of Taita
 Taveta is rich in minerals
 and precious stones.

 Mining operations occur at three levels: artisanal, small-scale and large-scale mining.

 ASM account for over 60% of the total production.

Highly fragmented nature of the gem industry







Qualitative Methodology: Cultural Animation



















- 1. Storytelling, art making, poetry, song and dance
- Games designed to put people at ease with each other; specialised games encouraged a playful approach to problem solving and reflection on the potential for individual and social change
- 3. **Safe spaces** created in which individual and collective rhythms were disrupted and new identities and relationships formed among people who would not normally be in the same space.
- 4. Maintaining a **degree of distance and objectivity** whilst respecting the mining stakeholders rights to participate.



Boundary Spanning Objectives and Stakeholder Analysis























ASM directly and indirectly provide employment, apportunites

Petential to pay taxes and revalties

Limited livel heads afternatives beyond mining

ACM is a way out of procely. Mecan are more likely to be stuck in 'poverty trace' ASH revenues support equipilitural communities therefore consessing food security

Poverty moreases likelihood of hunger and mainstrition in the local community

ASM dogrados, polistos and contactosalica productive agricultural land ASM directly and manactly provides a source of income to spend on health case

Moor working and living conditions moreover minute' physical and mental health risks

Mining communities are expected to diseases such as HIV/AIDS and TB ASM revenues build schools, pay for education and process opportunities for on job training

ASM implicitly encourages school dropout among the youth

informal miners have restricted access to mining education ASM provide women with more comomic opportunities

Female miners foce herels working and living conditions

Warmen have hinsted out of protection. They are more likely to face pay gap, unequal and limited access to resources and gender hased violence ASM resources can directly help huild water infrastructure and improve increasibility to clean water and cantation

ASM contaminates drinking water and water-related ecosystem

The poor safler from eater related diseases such distribution ASM produces many innerals ontical for the transition to innerwish among

ASM has little access to clean and green furnis of energy

ASM refer squar 'dirty' and 'hazardous' forms such as diesel-powered generators ASM catalyzes direct, and indirect employment; ASM drives local economic growth and has positive trickle down effects an other connemic sectors

informal ASM workers are unable to claim labour rights and have no access to social protection or grievance

ASM supports local suppliers of mine services

ASM has the potential to enhance innovation, and technology transfer through ineal capacity building and financing.

Local ASM refreshooters net resilient or suscalnable mining ASM redomes around inequalities by empowering disadvantaged groups and increase local purchasing power.

ASM practices increase increase increase increase increasity related risks e.e. wayee; ASM supply chains are associated with amapaid power relations and may exclude some groups.

non provides critical minerals and materials for the construction of allordable houses for local populations

ASM reduces the prossure of uncontrolled urbanization

Kush-type ASM tends to have overcrowded settlements Pulmeted to reporpuse waste rocks and promote responsible sourcing

Redection in carbon feetprints through use of clean energy

Mineral production and processing pollutes the environment with leaser down chemicals; Poor waste management.

ASM almosphisms community resilience and adoptive capacity from a livelihood's perspective

Mining-induced land degradation, habital frequentation, deforestation and hindiversity loss threaten chirale change resilience ASM degrades terrestrial ecosystems

ASM occurs in protected areas like national game parks, threatening ferrestrial econstems, inland water and biodiversity

Improper disposal of Latings and more weath

nam perves as a social safety net and may support. the factioning of public institutions during croses.

ASM may be exampled with organized crone and manung of publical conflict

from mining resource consuntability and sovermence ADM brings together stakeholders from ovel society and the public and private sectors

Lacilitates technology transfer, financial resourcing, and capacity building opportunities for stakeholders

Lack of trust and encoordinated stakeholder interaction











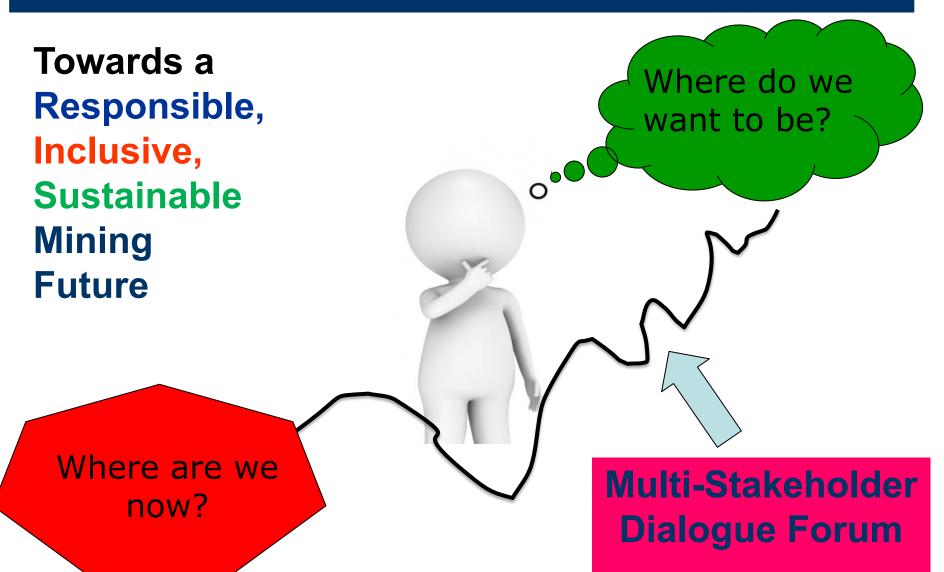










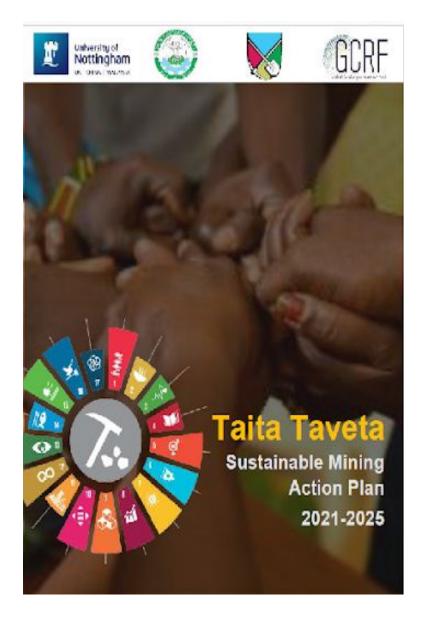


Establishing a Multi-Stakeholder Dialogue Forum

- Launched the MSDF on 2nd October 2020. A platform for continuous sharing information, learning and building the capacity of actors
 - Improving resource governance, transparency and accountability.
 - Creates an environment for dialogue.
 - Promotes partnership and collaboration.
- Investing time to develop and maintain relationships with policymakers and mining actors.



Co-Creation of the Taita Taveta Sustainable Mining Action Plan (SMAP) 2021 – 2025



Iterative process between Sept-Dec 2020

Figure · 2: · → Sustainable · Artisanal · and · Small - Scale · Mining · in · Taita · Taveta · County · ¶

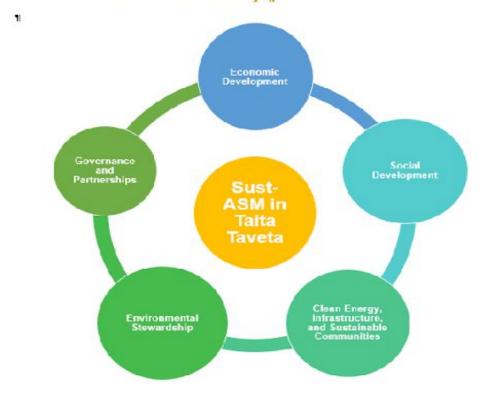
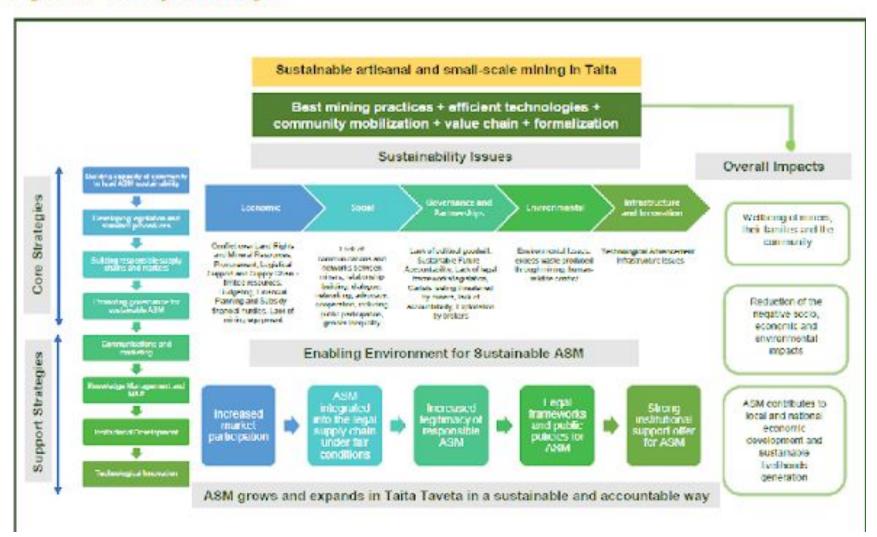


Figure 3: Theory of Change





Negotiated Action Plan

Action Plan

| Thematic Focus/ Clusters | Interventions / Action Plan (Core and Support Strategies) | Timeline | Monitoring Indicators | Key Stakeholders | Resource Requirement s |
|---|---|-------------------------|--|--|---|
| Governance: Multi- stakeholder Dialogue Forum | Develop multistakeholder dialogue forum and a secretariat Increase in numbers of community members including women and other vulnerable groups in dialogue fora Develop a sustainable mining work plan Arrange quarterly review meetings Develop clear leadership and coordination structures Develop communication tools and strategy for the forum (e.g. social media presence, website, etc.) Evaluate MSDF and its progress | ST ST-MT-LT ST-MT-LT ST | MSDF secretariat in place Evidence of diverse representation Sustainable mining work plan developed Number of meetings held Leadership structure developed and implemented Number of communication tools in place Evaluation reports | MSDF Secretariat Learning and research institutions CSOs/NGOs County Government National Government Miners Associations Chamber of mines Miners | Human Resources Physical resources (e.g., meeting venues) Financial Resources |

Action Plan

| Thematic Focus/ Clusters | Interventions / Action Plan (Core and Support Strategies) | Timeline | Monitoring Indicators | Key Stakeholders | Resource Requirements |
|--------------------------------|--|----------------|---|--|--|
| Health and Well-being | Train and provide miners with personal protective equipment (PPE) Put in place system for First Aid provision in mining organizations Develop and monitor occupational health and safety (OHS) system for miners particularly for women miners Develop and promote system for psychosocial and clinical support for miners particularly vulnerable groups Establish a repository of accredited counsellors for 24/7 miner counseling service Develop and run community sensitization campaigns around | ST ST-MT ST-MT | PPE training undertaken Number of miners using and wearing PPE and gear First Aid Provision System in place and in use Occupational health and safety system for miners developed Low OHS incidences reported Psychosocial and clinical support system in place Number of beneficiaries A repository of accredited counsellors developed Number of sensitization campaigns around self-care and mental health | Ministry of Health, County Government Social Development Services Office Civil Society Organizations/Non-Governmental Organizations (NGOs) particularly for women rights NGOs working on WASH (Water, Sanitation and Hygiene) Media Learning and research institutions Inspectors of Mines Inspectors of Explosives OSH Officers | Finances Human Resource Training Material Physical resources e.g. meeting venues |



Storytelling that shape policy outcomes

(public screening of the ASM documentary)



ASM gemstone mining documentary:

https://www.youtube.com/watch?v=QscBly7ML54&t=430s

Wider public engagement (others include public exhibition, SMAP policy launch)







Policy Brief:

Strengthening Stakeholders Collaborative Action for Sustainable Gemstone Mining in Kenya

Key Insights

The University of Notlingham (UK) in collaboration with Taita Taveta University (Kenya) and the New Vic Theatre (UK) has undertaken a research project on sustainable mining in Latta Laveta funded by the Global Challenges Research Fund. The project sim is to support the development of a responsible and sustainable genestone adisonal and small-scale mining (ASM) that will contribute to the sociol economic development of the region and its peoples. A key recearch output to produced by the mining stakeholder is the Taita Taveta Sustainable Mining Action Plan 2021-2025.

This Policy Brief aims to build public awareness on the policies and measures that are planned to be put in place to develop a sustainable artisanal and small-scale mining sector in Taita Taveta as outlined in the five-year Sustainable Mining Action Plan



Sixty percent of gemstones in the county are produced by artisanal and small-scale miners (ASM)

Majority of the mining activities is still informal with the true potential of the eactor not yet utilized. Most of the mining conducted by artisanal miners offers the only source of mome for the miners, in as much as arisanal mining has had a negative perception. There are more artisanal miners than email scale miners with the later having approximately 162 mines covering a total area of 73 square knometres. More so, the Covid-19 pandemic had devastating impacts on the mineral supply chains and the inclined a decired as many mines were closed as part of the Government's containment measures.

There is a need to help ASM in Taita Taveta Country recover from the pandemic better and greener

To develop a sustainable ASM sector and improve the incomes and standard of living of the miners, their families and mining communities, various policy measures and actions need to be implemented. These include:

Assisting unbound and smallscale times to obtain mining permits and learners

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Facilitating
bund
bein access
to finance

Mobilizing individual miners to form enterprises or cooperatives Assisting small-scale mines to society in scale in mining equipment and lectinology

gender equity in the ASM sector in increase the participation of women and ancure that they earn equal pay and though implementation of other affirmative action.

Promoting

Training, building opposity and assisting the artisanal and small-scale miners to promote value addition and marketing of their unduct.

small-scale niners on improving safety and work conditions and compliance with Occupational Health Standards (DHS) requirements and legislation

Training and

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UNITED KINGDOM · CHINA · MALAYSIA

Policy Brief Launch on the 25th March 2022

- Knowledge translation and update
- Increase accessibility of the evidence

Visit:

https://www.nottingham.ac.uk/po licy-and-engagement/policy/policy -briefs.aspx.

Concluding Thoughts

- Co-production is a time consuming process
- Invest time and resources to build stronger relationships
- Politics in the mining ecosystem (i.e. micro, meso and macro level)
- Navigating different stakeholders' organisation cultures
- Stakeholder inclusion and representation
- Communication and continuous dissemination of evidence (e.g. to the national government)
- Implementing change and pace of change in a dynamic context
- Limited resources and the capacity of stakeholders to implement the plan.

References



- African Union (AU) (2009). *Africa mining vision*. Retrieved from: http://www.africaminingvision.org/amv resources/AMV/Africa Mining Vision English.pdf
- Barreto, N.L., Schein, P., Hinton, J., & Hruschka, F. (2018). Economic contributions of artisanal and small-scale mining in Kenya: Gold and gemstones. Somerset, UK: Pact Global UK.
- McCarthy, L. & Muthuri, J.N. (2018) "Engaging Fringe Stakeholders in Business and Society Research: Applying Visual Participatory Research Methods", *Business & Society*, 57 (1): 131-173.
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