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AMREC-PARC ASM SENSITISATION AGJEC EXPANSION WORKSHOP

Gemstones, data and price reporting: Unlocking Africa's \$20B+ potential

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Presentation Outline

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Objectives

- Create a centralized, transparent platform for trading gemstones across African producing countries.
- Enhance price discovery and reduce illicit trade.
- Foster economic development through reliable data-driven price reporting.





Data Sources for Price Reporting

Primary Data Collection

- **Direct Miner Inputs:** Collaborate with large-scale miners (Grizzly Mining Ltd) and ASM cooperatives.
- **Government Partnerships:** Integrate data from national mining ministries, EITI reports and customs declarations
- **Certification Bodies:** Support upcoming gemological labs and schools in Africa following a standardised continental curriculum

Secondary Data Integration

- **UN Comtrade & USGS:** Use historical trade flow data to benchmark prices.
- **Blockchain Technology:** IoT-enabled tracking for gemstones ensuring immutable transaction records.

Real-Time Data Feeds

- **AI and Big Data Analytics:** Process live transaction data, market demand trends, and global prices to generate dynamic price indices

Price Reporting Mechanism



Quality-Adjusted Pricing

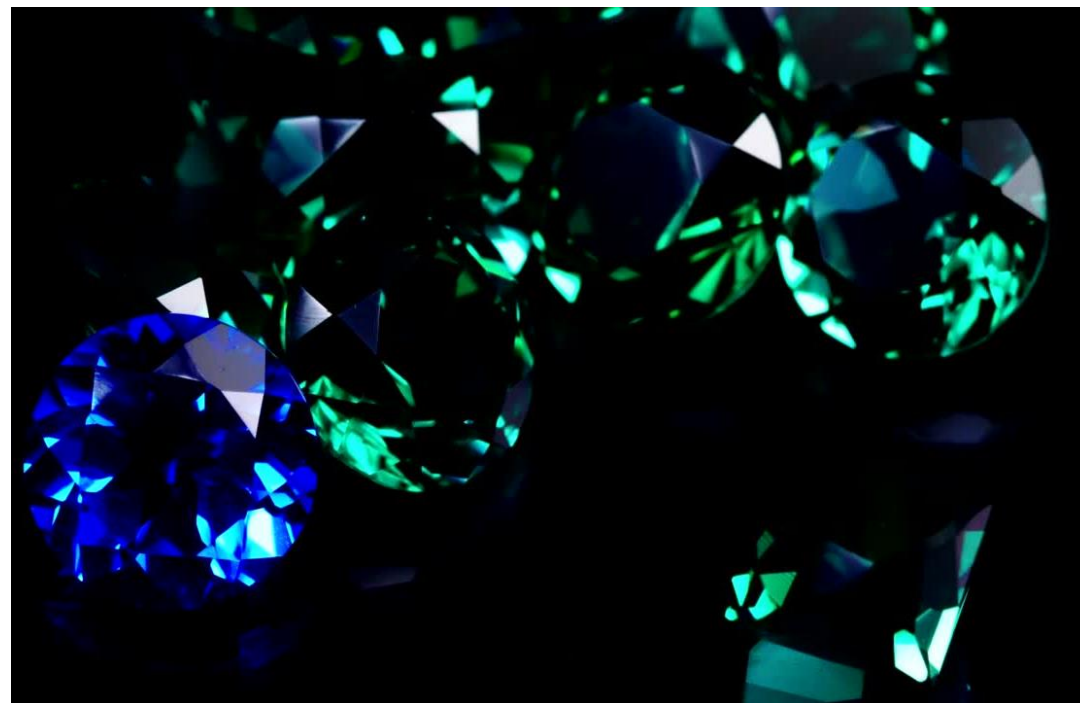
Incorporate gemstone quality metrics (e.g., color, clarity) using standardized grading aligned with labs like Gübelin or SSEF.

Live Dashboard

Publish real-time prices for key gemstones (e.g., Zambian emeralds, Mozambican rubies) based on verified transactions and global auctions.

Benchmarking

Compare African Gemstone Exchange prices against global hubs (e.g., Hong Kong, Bangkok) to ensure competitiveness.



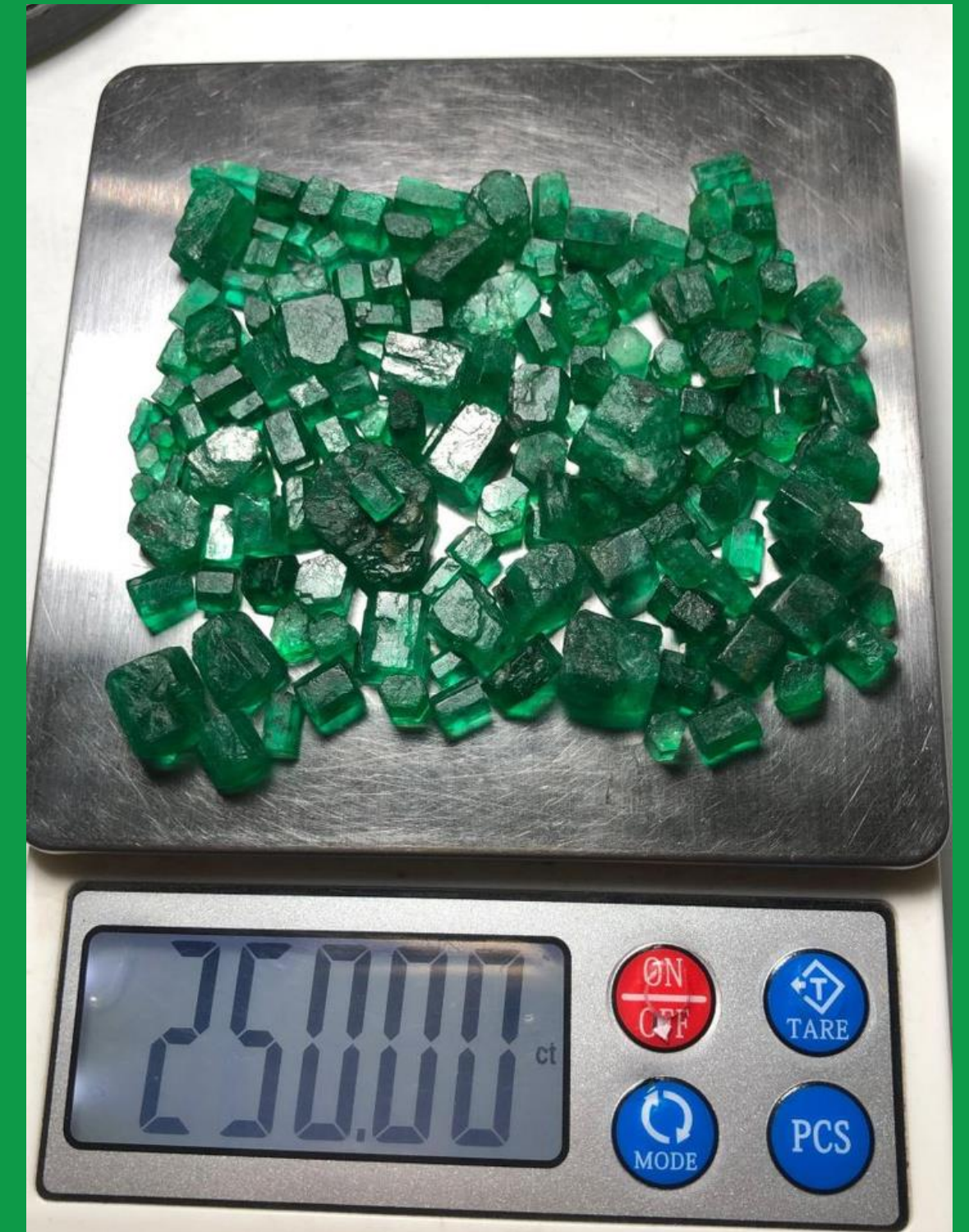


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Opportunities

- **Transparency Boost:** Address under declaration (e.g., Madagascar's 70% undeclared sapphire production) by formalizing ASM participation.
- **Revenue Growth:** Capture lost tax revenues (e.g., Zimbabwe's \$9.93/kg undervalued rough emerald exports) through traceable transactions.
- **Value Addition:** Continental ecosystem of beneficiation where Zambian emeralds combined with Sierra Leone gold makes world-class jewelry.





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Challenges

- **Informal ASM Sector:** 60% of Kenya's gemstones are ASM-derived; incentivize formalization through financial inclusion, mobile reporting tools and fair pricing.
- **Technological Gaps:** Invest in digital infrastructure (e.g., Gemstone rushes often lack efficient reporting systems).
- **Market Access:** Overcome confidentiality concerns (e.g., Securitised and military-linked gem trade) via stakeholder engagement and NDAs.



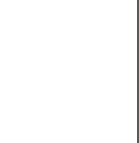
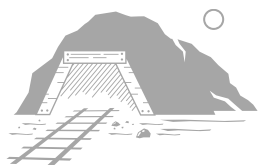


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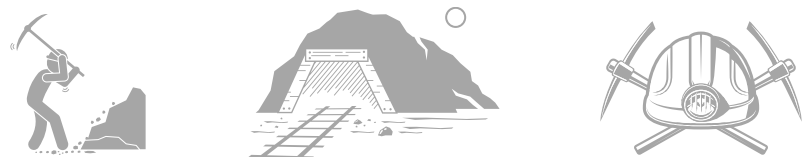
Implementation Strategy

- **Phase One:** Pilot in Zambia (emeralds) and Mozambique (rubies), leveraging Grizzly Mining Ltd and Gemfields' auction data and EITI compliance.
- **Phase Two:** Expand to Tanzania (tanzanite) and Madagascar (sapphires), integrating blockchain for ASM provenance and traceability.
- **Phase Three:** Pan-African rollout, supported by funding from private-public-philanthropic partnerships with the African Union Commission.





Potential Funding





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Conclusions and Food for Thought?

An **African Gemstone Exchange** will transform Africa's gemstone sector by harnessing real-time data, fostering transparency, and aligning prices with global standards.

Addressing challenges through **technology** and **collaboration**, will unlock the Africa's \$20B+ gemstone potential, ensuring equitable growth for miners and governments alike.

Is Africa ready to have its own **gemstone price reporting agency** and shift from being a “**price taker**” to a “**price maker**”?