# Approaches to Reduce the Use of Mercury in Artisanal and Small Scale Gold Mining

Under

THE SUSTAINABLE MANAGEMENT OF MINERAL RESOURCES PROJECT (SMMRP), TANZANIA

Bv

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#### 1. General ASM Overview

- Artisanal and Small Scale mining activities (ASM) in Tanzania involve the mining and extraction of gold, gemstones and a variety of building and industrial minerals.
- □ASM encompasse owner of primary mining licences (PMLs); labourers, mineral brokers, and service providers such as food vendors and technicians.









#### General ASM Overview cont...

- ■A baseline survey conducted in 1996/97 estimated ASM to range from 550,000 to 1,000,000 people; Ratio of individuals engaged in gemstones to gold to other types of minerals being 11:8:1.
- ☐ Mining, milling, processing and recovery of gold by the ASM have been experiencing the use of rudimental equipment.
- ☐Gold recovery still depends on amalgamation.









### General ASM Overview cont...

#### ARTISANAL SMALL SCALE GOLD MINING

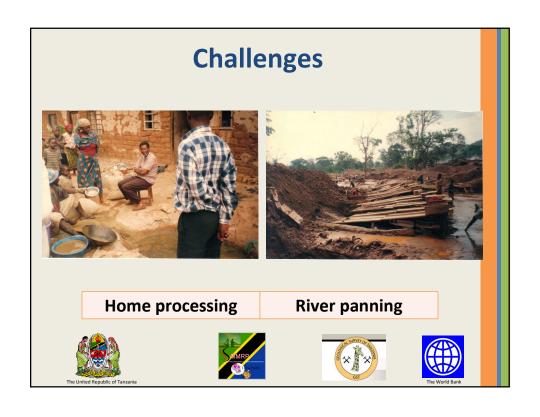
- □ Recently, some improvements have been noted in mining methods compared to processing (millings, crushing, and sluicing).
- □Cyanide use has become popular in the lake victoria area, where cyanidation is used to leach tailings that were mainly discarded by ASGM.













## 4. Approaches to reduce Mercury use under SMMRP

#### **SMMRP Overview**

- SMMRP is a 5-year technical assistance project (2009-2014)
- Project Financing:

IDA Credit - USD 50M

Government of Tanzania - USD 5M

 Coordinated by the Minerals Division and the Geological Survey of Tanzania (GST)





#### **SMMRP Components**

• Component A:	Improving the Benefits of the Mineral Sector for Tanzania
• Component B:	Strengthening Governance and Transparency in Mining
• Component C:	Stimulating Mineral Sector Investment
• Component D:	Project Coordination, Management, Monitoring and Evaluation









# Approaches to reduce Mercury use under SMMRP *cont...*

#### **SMMRP Baseline studies**

☐ The ASM assessment will establish the present situation in the field, including the impacts, behavioral changes and legacies of past interventions.











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https://www.yunbaogao.cn/report/index/report?reportId=5\_14425

