



ICMGP 2024
CAPE TOWN • SOUTH AFRICA • 21 - 26 JULY

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Scaling up Mercury-Free Processing
Technology: Installation of MFPS and
Promoting Mercury-Free Processing
Technologies in Burkina Faso



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- ❖ Conclusion

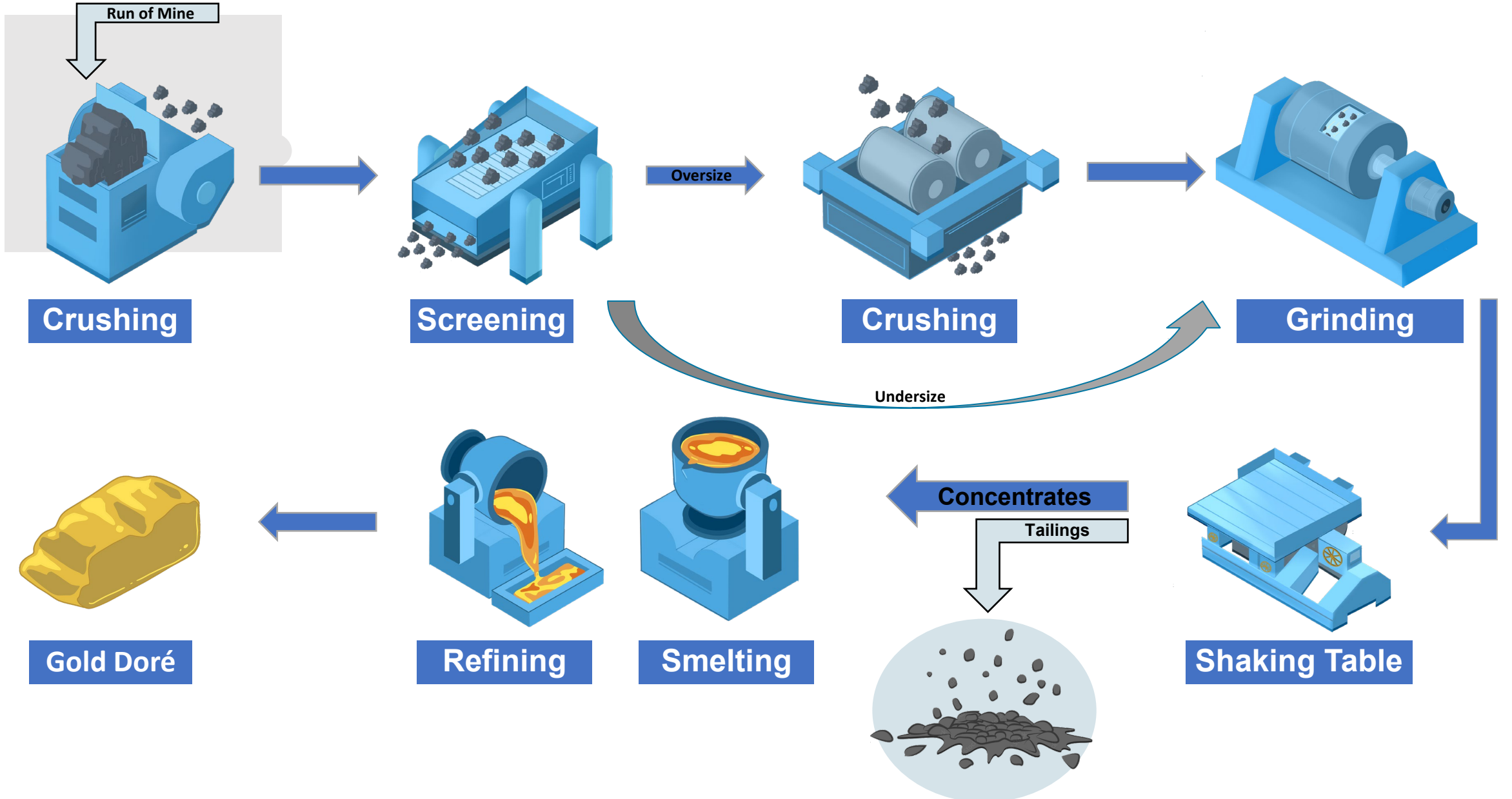


1. Lessons learned from the Mercury-Free Processing System installation

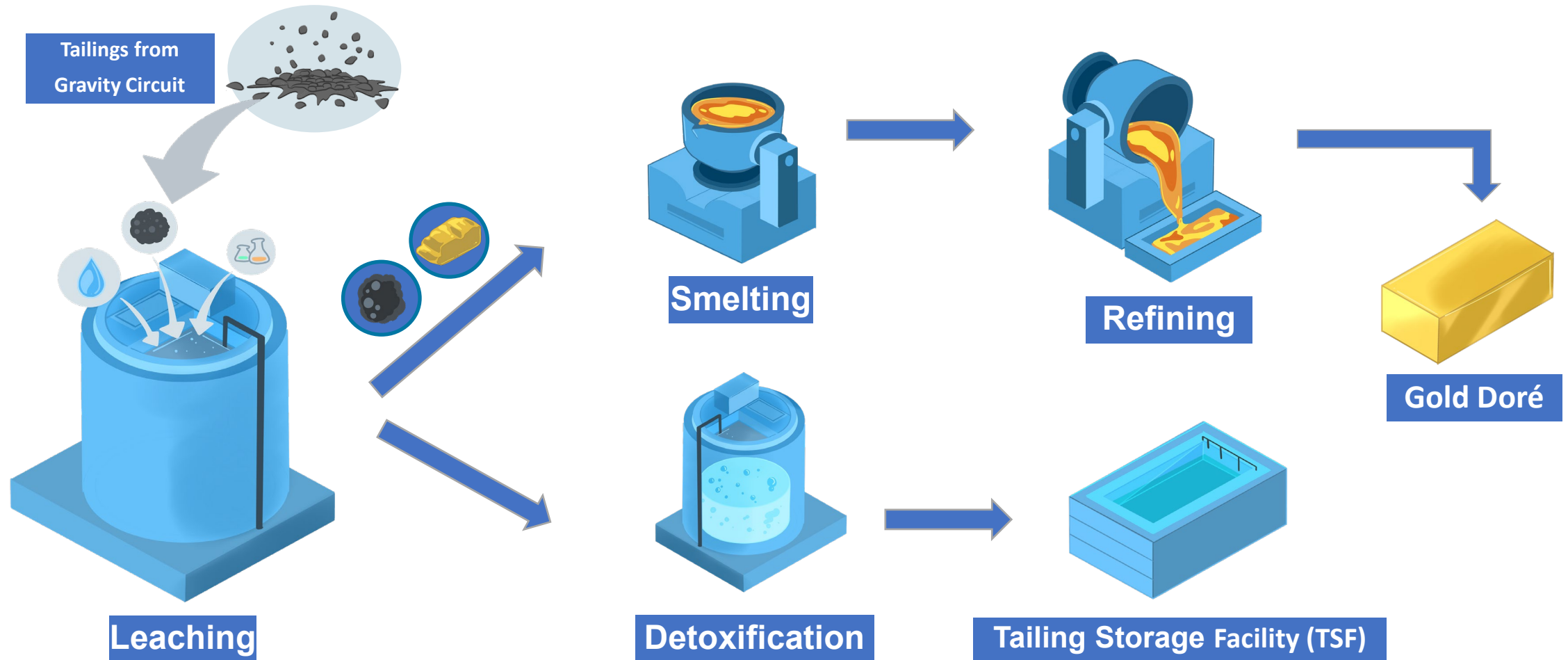
About the MFPS of the planetGOLD Burkina Faso Project :


- A centralized ore processing facility with a capacity of 2-5 metric tons of ores per day
- Aims to recover gold by at least 80% through combined metallurgical methods of improved gravity concentration and chemical leaching using cyanide-amino acid mixture as alternative to mercury amalgamation
- Construction completed in the first week of July 2022
- Testing and optimization completed in September 2022

Process Flow Diagram (Gravity Circuit)



Process Flow Diagram (Leaching Circuit)



 - Activated Fresh Carbon
Hydrated Lime



- Sodium Cyanide, Glycine and

1. Lessons learned from the Mercury-Free Processing System installation

- ✓ Having a good analysis of field data is essential for good equipment design
- ✓ The origin of the equipment is an important factor: wherever possible, it is advisable to design equipment that is available and accessible,
- ✓ Clear communication plan:
- ✓ Awareness-raising and training on the operation of the equipment,
- ✓ Progressive handover of equipment management to artisanal miners.

Activities promoting mercury-free processing technologies



Trainings



Awareness raising

The Training on Mercury free processing technology

The different steps of the training program

Stakeholders identification

Training modules
development

Training implementation





The training program



- ✓ **Theoretical courses : 1 month for CQB and 3 months for BQP**
- ✓ **Practics : 3 months (CQB level) and 7 months for BQP level**

Training Certification exam

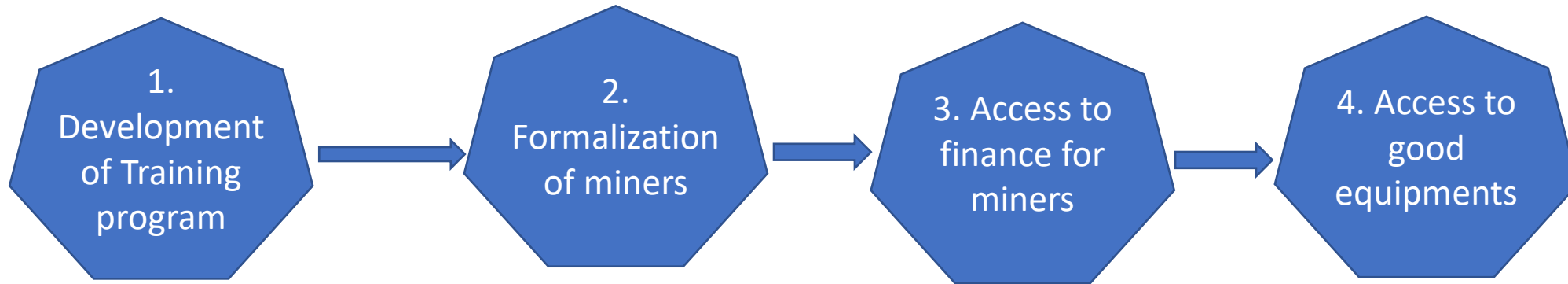


Artisanal miners' preferences



- ✓ **Better gold recovery rate:** up to 90%
- ✓ **Easier of use:** soft, easy to install and repair
- ✓ **Accessibility :** available in the local market

Scaling up of the Mercury-free technology in Burkina Faso





MINISTRE DES SPORTS,
DE LA JEUNESSE ET DE L'EMPLOI

CABINET

SECRETARIAT PERMANENT DE LA
COMMISSION NATIONALE DE LA
CERTIFICATION

BURKINA FASO
Unité - Progrès - Justice

N° 3689

CERTIFICAT DE QUALIFICATION DE BASE (CQB)
ATTESTATION DE REUSSITE

Métier : *Artisan minier / ISM*
Centre d'examen : *Dano* Jury n° : *06*
Centre d'accueil : *Gnikpère* N° PV : *CH23SPAMOB*

Je soussigné le président du jury atteste que le/la candidat (e)
Nom : *PARE* Prénom (s) : *Moussa*
Né (e) le *15/06/1999* à *Libreville / Gabon* a subi avec succès
les épreuves de l'examen du Certificat de Qualification de Base (CQB),
session 20*.23*.

En foi de quoi, la présente attestation lui est délivrée pour servir et valoir ce que
de droit.

Fait à *Dano* le *20/12/2023*

Le Président du jury
(cachet et signature)

ATTESTATION

Le Président
du Jury

TIEMOREBESO Rasouane

NB : - Il n'est délivré qu'une seule attestation.
- Toute surcharge ou rature entraîne sa nullité.
- La présente attestation est valable pour une (01) année à compter de sa délivrance.
- L'original de la présente attestation devra être présenté lors du retrait du diplôme.

Thank you!