

Life Cycle of Large-Scale Mining



A presentation on
the stages of the
mining cycle and
how communities
can be *involved*.

Module No. 3



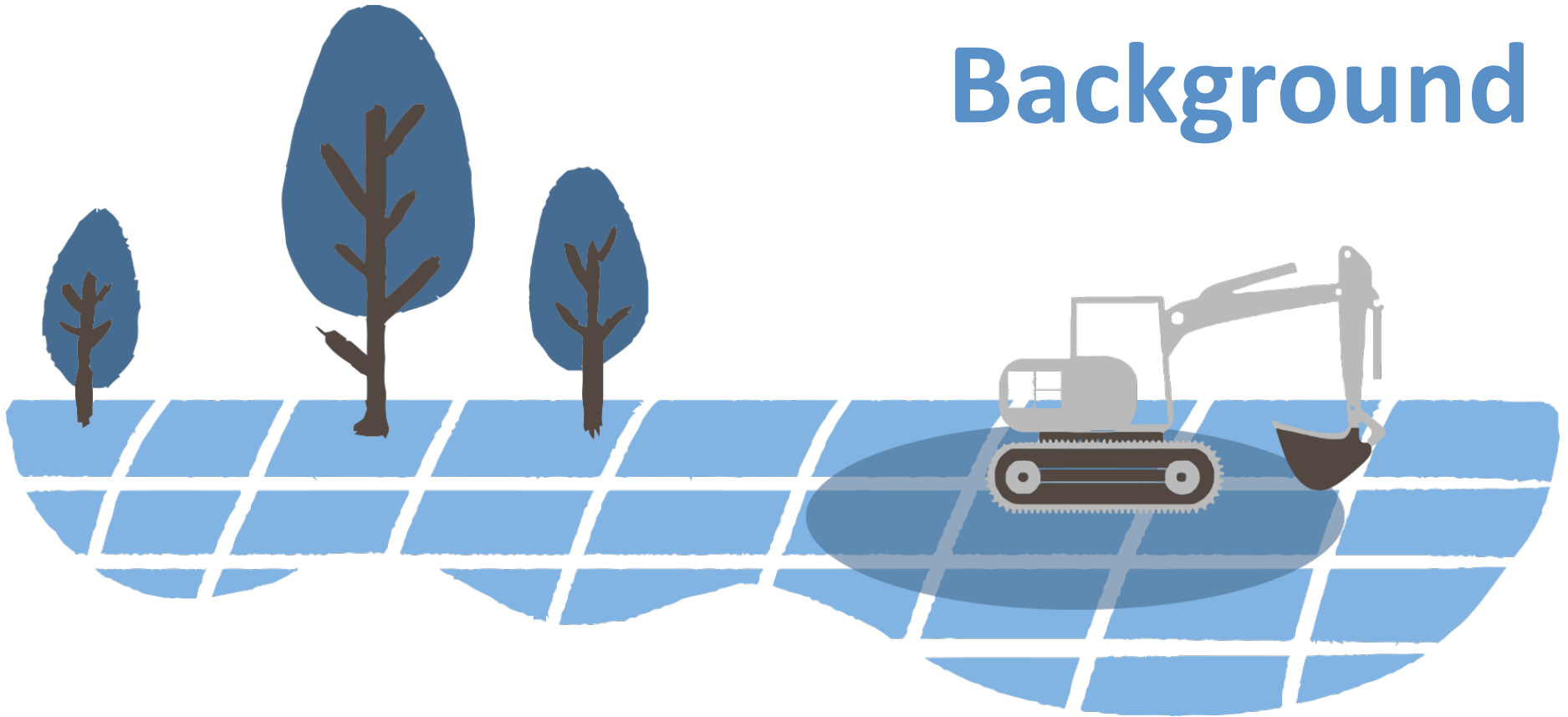
Module 3: De-commissioning and Rehabilitation



Last Stage
of the Mining
Cycle



Background



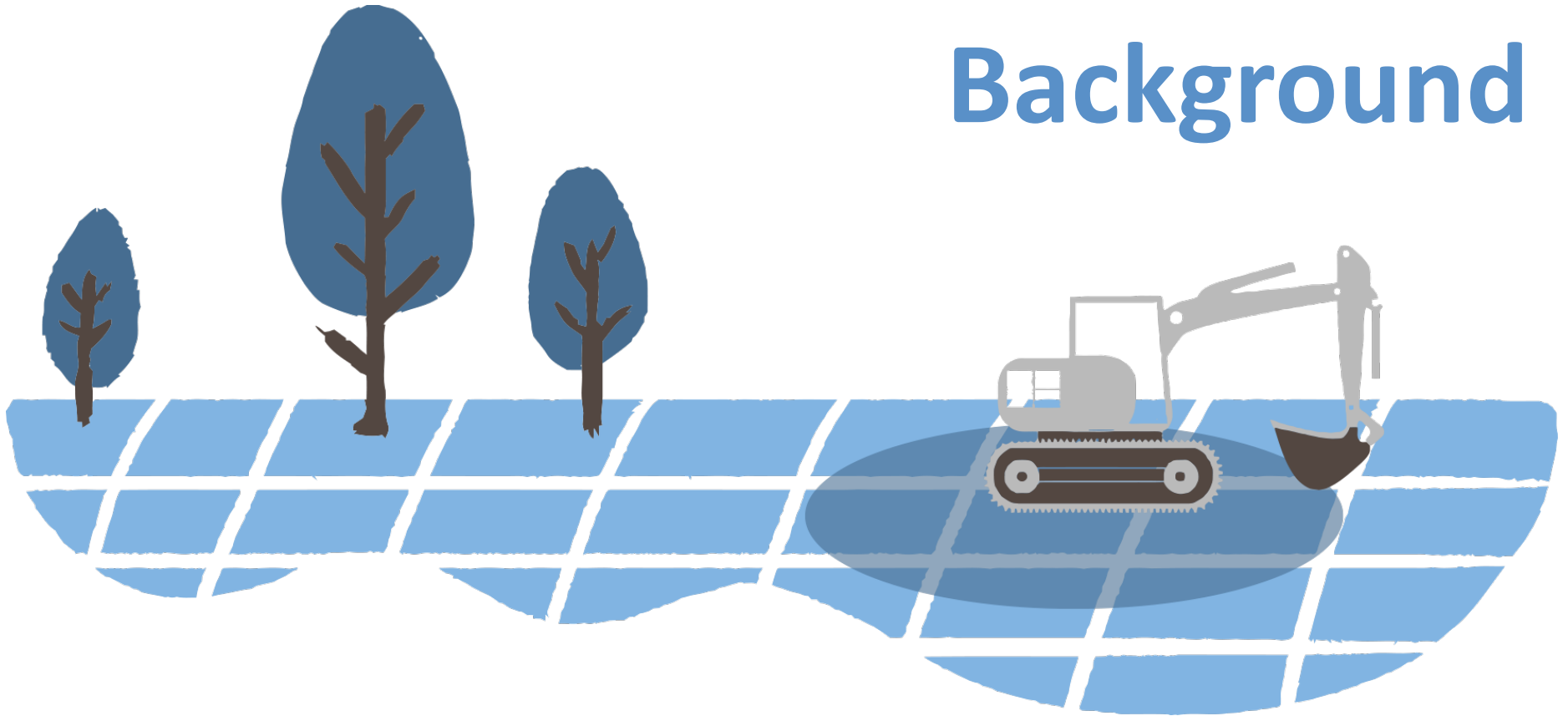
Pre-conditions (prior to mine closure)

- Environmental Protection and Enhancement Plan (EPEP)
 - Includes the Final Mine Rehabilitation and Decommissioning Program (FMR/DP)



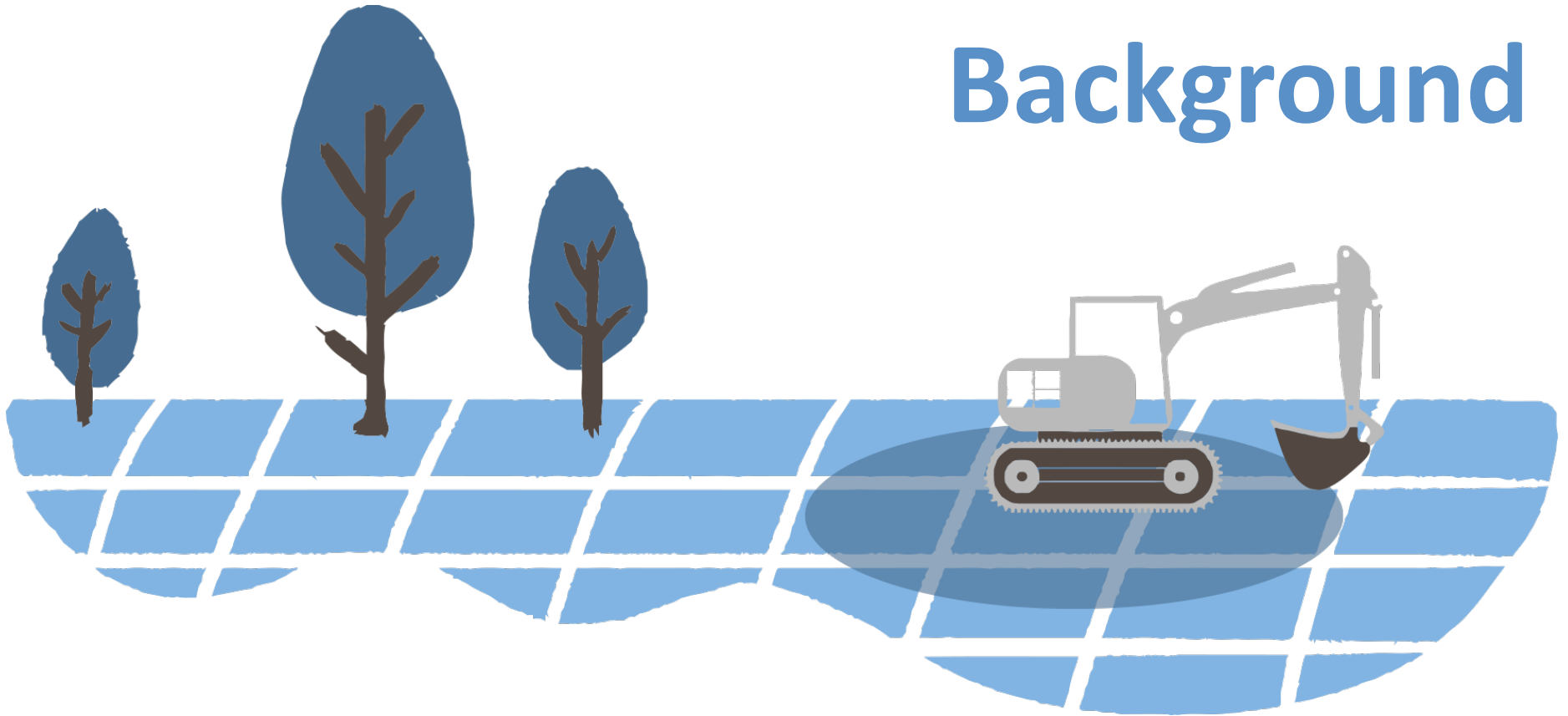
Advocating transparency & accountability in the extractive industry

Background



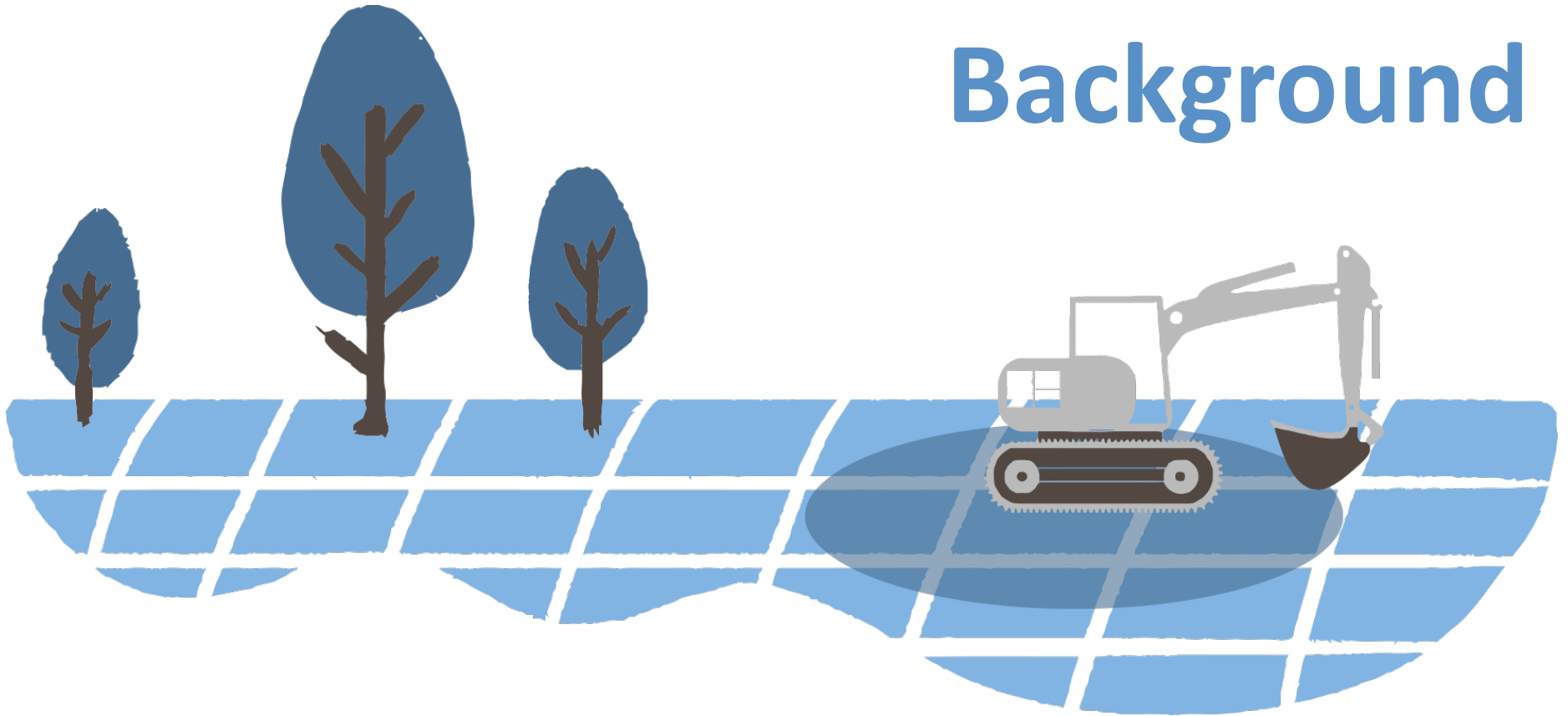
The EPEP and FMRDP are supported by a guarantee funding mechanism collectively known as Contingent Liability and Rehabilitation Fund (CLRF).

Background



The CLRF ensures progressive and sustainable rehabilitation throughout the life of the mine until its closure.

Background



Mine rehabilitation plans and funding only apply to operating mines covered under the Philippine Mining Act (Republic Act 7942) which came into effect in 1995



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Decommissioning and Rehabilitation



Implementation of the Final Mine Rehabilitation/ Decommissioning Plan (FMR/DP) or the Mine Closure Plan

- *Utilization of the Final Mine Rehabilitation and Decommissioning Fund (FMRDF)*

Decommissioning and Rehabilitation



Implementation of the Final Mine Rehabilitation/ Decommissioning Plan (FMR/DP) or the Mine Closure Plan

- *The FMR/DP should have been updated regularly during the operations phase to reflect the rehabilitation activities already undertaken as well as environmental disturbances that occurred during operations*

Decommissioning and Rehabilitation



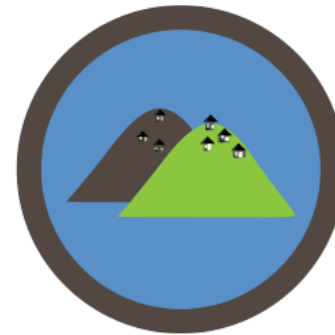
Implementation of the Final Mine Rehabilitation/ Decommissioning Plan (FMR/DP) or the Mine Closure Plan

- *Involvement of the multipartite monitoring team (MMT) is still crucial*

Objectives of Mine Rehabilitation



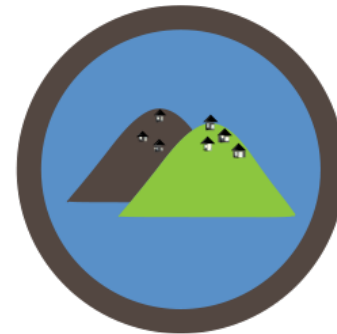
Maintenance of sustainable
environmental conditions



Objectives of Mine Rehabilitation



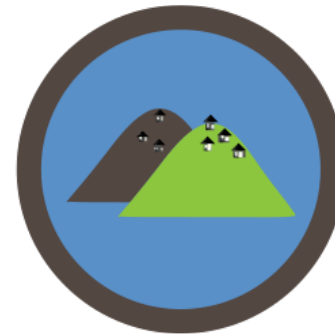
Establishment of a functional post-disturbance land use capability



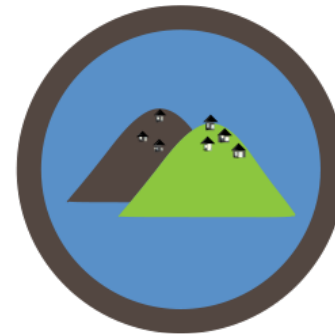
Objectives of Mine Rehabilitation



Preservation of downstream
freshwater quality



Objectives of Mine Rehabilitation



Preservation of sea water
quality & natural habitats for
marine life

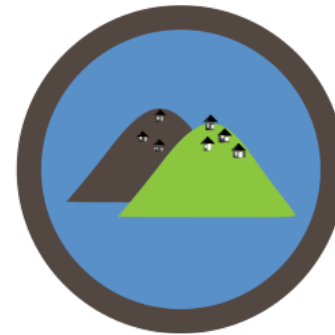


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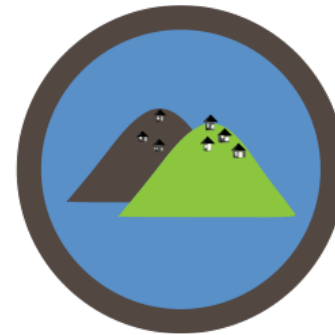
Objectives of Mine Rehabilitation



Prevention of air and noise
pollution



Objectives of Mine Rehabilitation



Respect for the traditional
and/or sustainable management
strategies

Keys to a Sustainable Rehabilitation Plan



Develop Occupational Health
and Safety Programs



Keys to a Sustainable Rehabilitation Plan



Conduct Environmental
Management Education



Keys to a Sustainable Rehabilitation Plan



Ensure Community
Participation



Keys to a Sustainable Rehabilitation Plan



Encourage
Partnership



Keys to a Sustainable Rehabilitation Plan



Institutionalize a Monitoring and
Evaluation Mechanism

Steps in Final Relinquishment of Rehabilitated Areas



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Prepare and submit a **Final Rehabilitation Report** with third party audit for pre-evaluation by the CLRF Steering Committee and MRF Committee.



Conduct **field validation** and recommend revisions to the Final Rehabilitation Report. May also require additional rehabilitation works.



If additional **rehabilitation** is needed, the mining company should provide a **Site Management Plan**.



Issue a **Certificate of Final Relinquishment**

Final Mine Rehabilitation and Decommissioning Fund (FMRDF)



- The FMRDF shall be established as a Trust Fund

Final Mine Rehabilitation and Decommissioning Fund (FMRDF)



- Cash provisions or deposits shall be made to ensure that the full cost of the approved FMR/DP is accrued before the end of the operating life of the mine.

Final Mine Rehabilitation and Decommissioning Fund (FMRDF)



- These annual deposits are determined using a formula taking into account the cost of implementing the FMR/DP and the expected mine life.

Final Mine Rehabilitation and Decommissioning Fund (FMRDF)



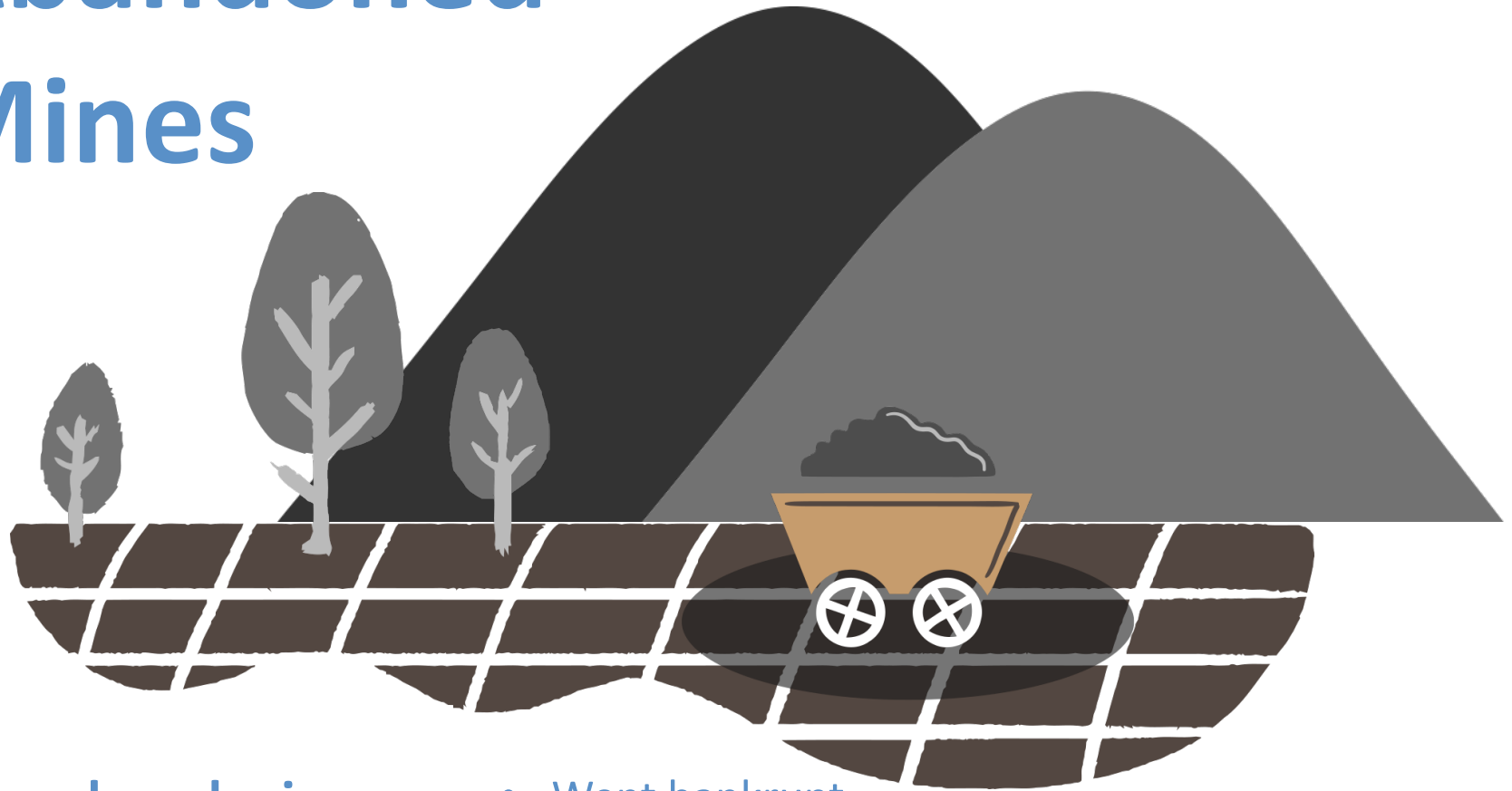
- FMRDF is solely for the implementation of the FMR/DP, hence towards the end of the mining life and NOT during operation stage

Final Mine Rehabilitation and Decommissioning Fund (FMRDF)



- Progressive rehabilitation and other activities under the EPEP/AEPEP cannot be credited to the FMRDF.

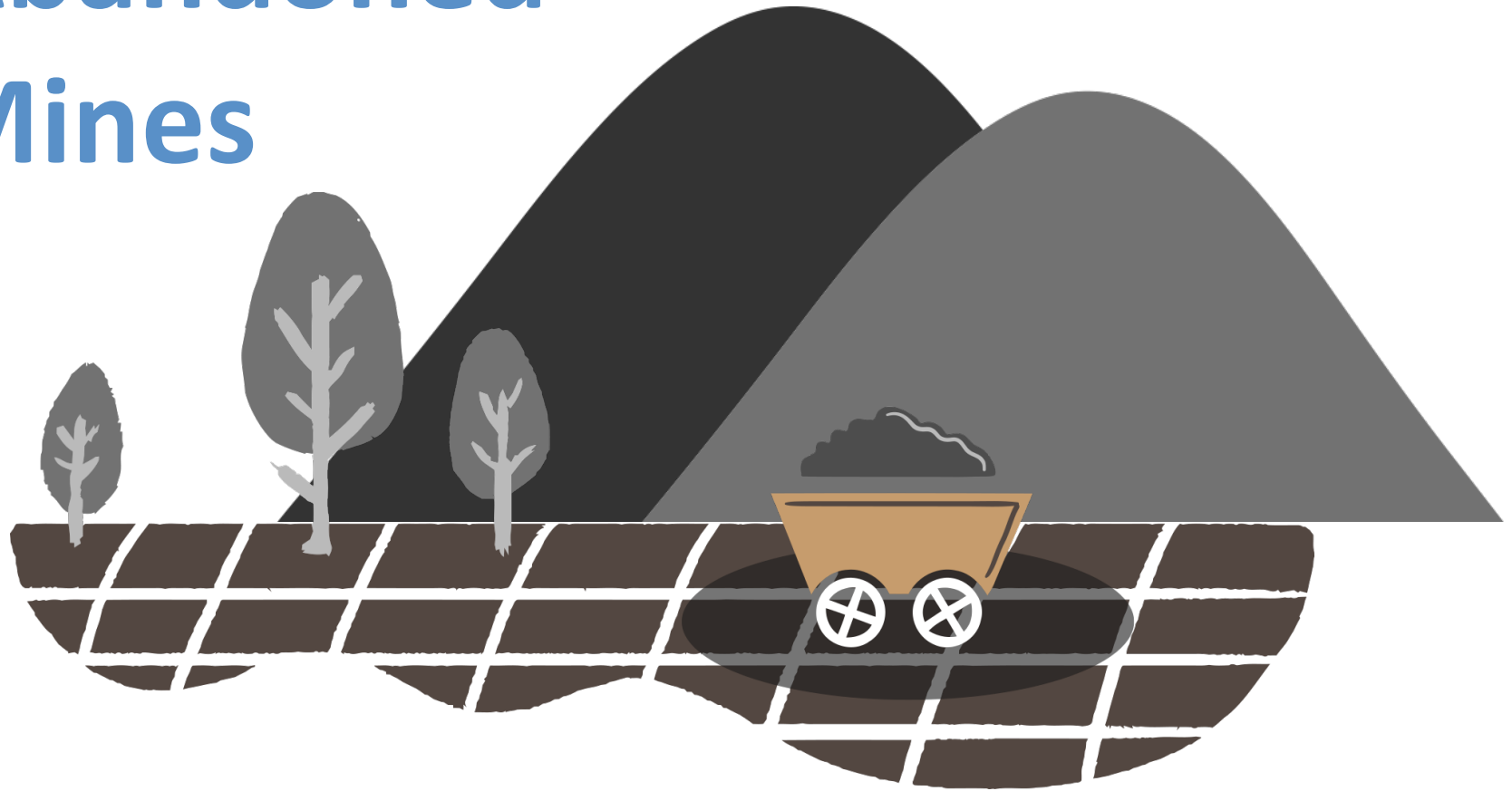
Abandoned Mines



**Abandoned mines -
inactive or closed
extraction sites of
companies that:**

- Went bankrupt
- Suffered from labor and other legal disputes, or
- Were foreclosed by government financial institutions prior to the enactment of the Philippine Mining Act of 1995

Abandoned Mines



**Current State of
Abandoned Mines
(MGB, 2014):**

- Abandoned Mines: **31**
- Undergoing Rehabilitation: **1**
- Not Undergoing Rehabilitation: **30**

Risks Posed by Un-rehabilitated Mines



Acknowledgements of the support for materials development from:

