SUSTAINABLE MINE CLOSURE – A NEW PARADIGM

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#IAIA15
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Sustainable mine closure?

“social license to operate”
“responsible mining”
“positive legacy”
Context

Activity

Impact

Focus

Post-closure

Mining

Negative

Communities

Environment

Operational phase – “second economy”

Positive

Economy

Land stewardship

“Sustainable Closure”

“Communities that can help themselves”

“Self Sustaining”
Sustainable mine closure best demonstrated at Mogalakwena mine:

- Usual rehabilitation activities **PLUS** focus on sustainable development
- Creating a “**second economy**” : financial injection during operational phase to the surrounding communities that **supports sustainable practices** that will last beyond closure.

**How:**

- Social and Labour Plan (SLP) projects,
- Sustainable Development (SD) commitments that supports “helping people to help themselves and their environment”

**Intent** - *Working with stakeholders towards sustainable post closure during life of mine.*
“Regional Master Plan provides interactive relationship between projects to streamline and coordinate land stewardship and community development initiatives.”
Integration and alignment

SD System

Master Plan

- Mapela Irrigation Scheme 2014 R4,365,000
- Nguni Cattle Farm 2014 R1,900,000
- Ga-Chaba Vegetable Farm 2014 R2,033,000
- Ga-Puka Poultry Farm 2014 R500,000
- Ga-Molekane Vegetable Farm 2014 R2,033,000
- Pafola Vegetable Farm 2014 R2,033,000
- Groenfontein Farm
  - Training Centre
- Groenfontein Lodge
  - 2014: R1.3 mil
  - 2015/6: R25 mil
- Steering Committee
- Mogalakwena Mine

Incubator R12,500,000 (2014)

Produce

Off take agreement, Support, Training, Etc

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Achievements in last two years

In partnership with Mogalakwena Training (Pty) Ltd, incubator achieved:

- **>200 jobs** created in the agricultural field
- **>2000 trained** in sustainable agriculture
- **>400 people** already growing food to feed their families

*Expand Mogalakwena Mine's positive influence*
Conclusion

Sustainable Mine closure

• a **sustainable means** - operational phase

_A new natural and social paradigm, that will survive time, and support sustainable livelihoods beyond mining._
SLP projects as part of Incubator - Example

**Incubator**

1. New tunnels erected
2. Marrows in Nets doing well
3. Broccoli in fields
4. Chicken farm

Water and electricity issues
Infrastructure still to be erected

**Rooibokfontein**

1. 900 eggs per day
2. Broilers selling
3. Co Op working well
4. Co Op ready for 2nd phase

**Ga Chaba**

1. 5 tunnels erected
2. Tomatoes doing well
3. CO Op working well

First crop died
<table>
<thead>
<tr>
<th>Project</th>
<th>Land Preparation</th>
<th>Infrastructure</th>
<th>Water Issue</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ga Molekane</td>
<td>Complete</td>
<td>Complete</td>
<td>Issue</td>
</tr>
<tr>
<td>Pafola</td>
<td>Complete</td>
<td>Complete</td>
<td>Issue</td>
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<tr>
<td>Nguni Cattle</td>
<td>Complete</td>
<td>Complete</td>
<td>Issue</td>
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<td>Training programmes in place</td>
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SLP projects as part of Incubator - Example

**Twickenham**
Co Op established  
Business plan complete

**Aquaculture**
Studies in progress

**Lodge**
EIA complete
THANK YOU