



The Mount Nimba Project: implications of ICMM commitments & the challenges of development in Africa

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Nimba Mountains, Guinea



Introduction

1. Responsible mining - owners commitments to the ICMM's Sustainable Development principles
2. Outline of the Nimba Project
3. Main challenges
4. Potential contributions
5. Way forward
 - Environmental & Social Impact Assessment (ESIA)
 - Stakeholder engagement
6. Conclusion



WORK IN PROGRESS

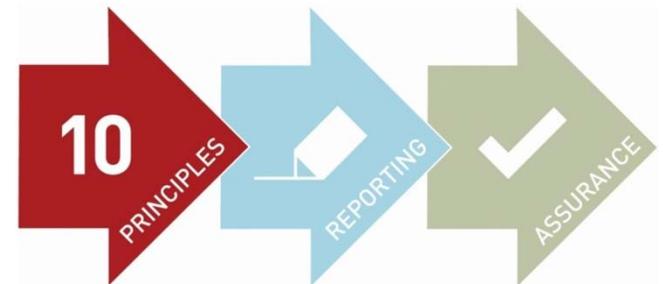
ICMM's Sustainable Development Framework

As members of ICMM, SMFG's owners are committed to the implementation of the ICMM's SD framework and its position on protected areas



10 principles for sustainable development

1. Implement ethical business practices and apply good corporate governance
2. Integrate SD in corporate decision-making
3. Uphold fundamental human rights
4. Manage risks based on sound science
- 5/6. Continuously improve environment, health and safety performance
7. Conserve biodiversity & conduct integrated land use planning
8. Apply materials and product stewardship
9. Contribute to community development
10. Publicly report, independently assure and engage openly and transparently



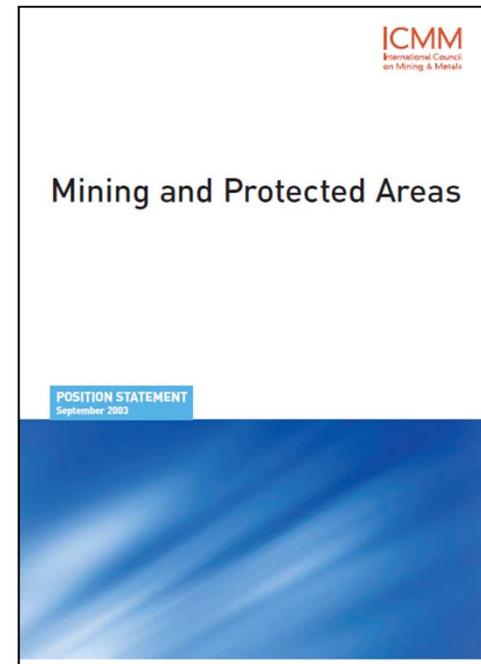
6 position statements

- Mining and Protected Areas
- Mining: Partnerships for Development
- Climate Change
- Mining and Indigenous Peoples
- Mercury Risk Management
- Transparency of Mineral Revenues

ICMM position statement on mining & protected areas

Member commitments:

- Respect legally designated protected areas
- Will not explore or mine in World Heritage properties
- ...operations adjacent to World heritage properties, are not incompatible with the Outstanding Universal Value for which these properties are listed
- Do not put the integrity of these properties at risk



Location of the Project

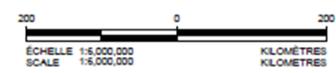


- LEGENDE / LEGEND**
- EMPLACEMENT DU SITE / SITE LOCATION
 - ⊙ CAPITALE NATIONALE / NATIONAL CAPITAL
 - FRONTIÈRE INTERNATIONALE / INTERNATIONAL BOUNDARY
 - GUINÉE / GUINEA



PRÉLIMINAIRE / DRAFT

RÉFÉRENCE / REFERENCE
 SYSTEME GÉODÉSIQUE / DATUM: WGS84 PROJECTION: UTM ZONE 29N



PROJET / PROJECT: PROJET SMFG NIMBA, GUINÉE
 SMFG NIMBA PROJECT GUINEA

TITRE / TITLE: CARTE D'EMPLACEMENT DU SITE RÉGIONAL
 REGIONAL SITE LOCATION MAP

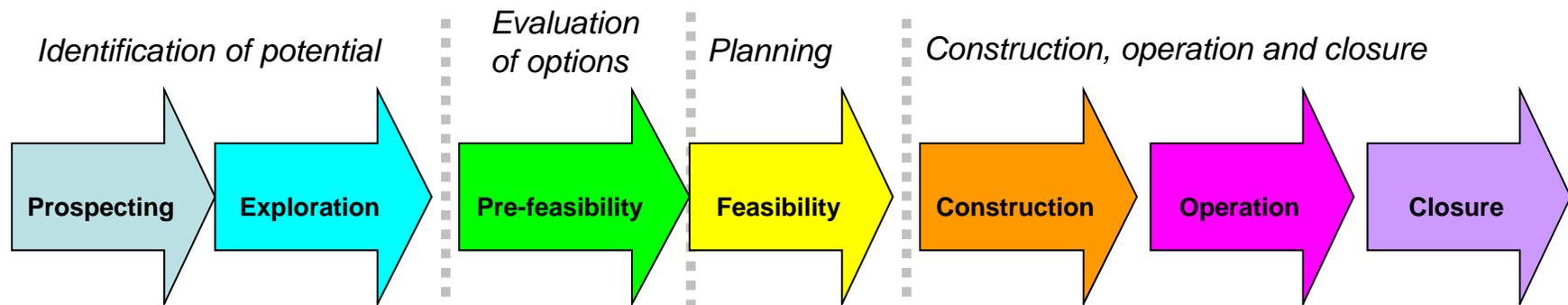
PROJET / PROJECT		11-1333-0033	
DATE	ES	07 Oct 2011	EMPLACEMENT INITIAL
DATE	NRD	07 Oct 2011	SCALE
DATE	XXX	02 Nov 2011	
DATE	YYY	02 Nov 2011	
DATE	ZZZ	02 Nov 2011	



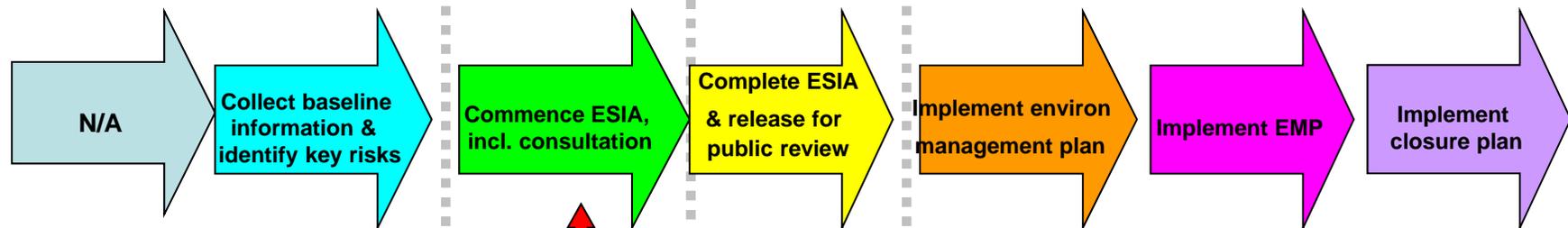
FIGURE: 1.1-1

Project decision stages

Development of the project



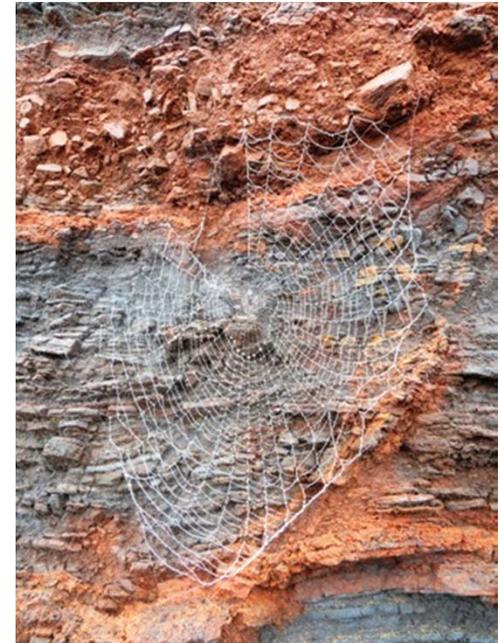
Environment and social studies



SMFG – early days

The Nimba Project

- Aims to develop a world-class iron-ore mine in the Nimba mountains
- This high-grade iron ore deposit – a ‘treasure chest’ – is a Guinean national asset, as is the Mount Nimba World Heritage site adjacent to which it is situated
- Development of this deposit, implies respecting and retaining the environmental integrity of the Mount Nimba World Heritage Site, and positively contributing to the long-term maintenance thereof



The Nimba Project

- Significant economic benefits for the countries of Guinea, Liberia, the Guinea Foresteire region, local communities and of course, SMFG and its shareholders
- This could provide much needed employment, community development and economic opportunities for the region



Nimba exploration camp



Exploration camp –
situated on a natural
lateritic exposure



Nimba habitat types



High-altitude grasslands



High/mid-altitude forest (ravines)



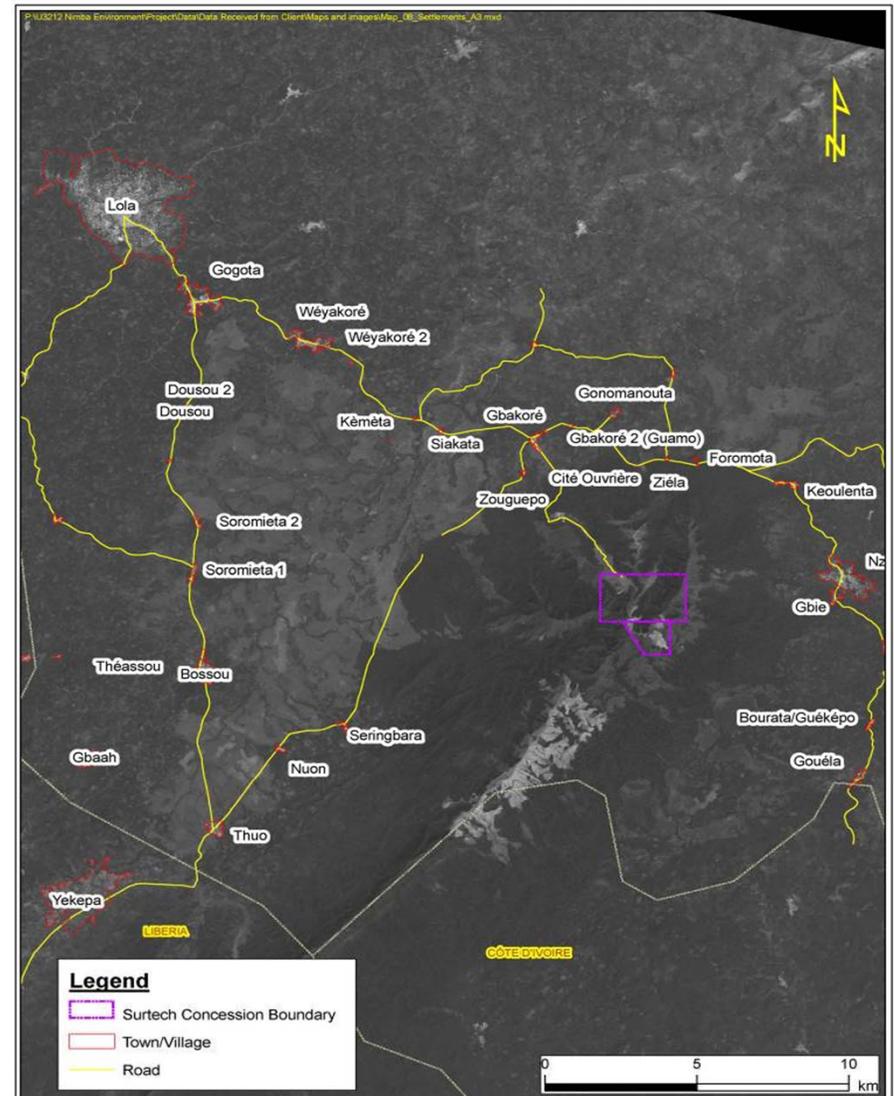
Lowland rainforest



Lowland lateritic savannah

Nimba: The Host Community

- Lola City the Local capital has 50,000 inhabitants
- \pm 25 peri-Nimba villages with a population of \pm 26,000 (2006)
- Largely subsistence economy; few paid employment opportunities
- Low skills level & low development indicators
- Poor social services & public infrastructure
- High expectations of a mine



The Challenge



- How do we develop a ‘top class’ mine for the benefit of our shareholders, contributing to poverty alleviation, economic development and the long-term integrity of a World Heritage site
- How do we ensure that ‘operations are not incompatible with the Outstanding Universal Value for which this property was listed’?
- How do we apply ‘international good practice’?
- What support, resources and action is required to ensure we deliver on both the expectations and the promise?

Environmental & social impact assessment (ESIA)

1. Golder Associates & SKM – internationally recognised independent environmental consultants
2. ESIA's – detailed plans of study -Terms of Reference approved by government and reviewed by the World Heritage Secretariat & IUCN
3. Stakeholder Engagement & Consultations:
 - Local
 - National
 - International
4. Review – following stakeholder engagement there will be a period of one-year of public and specialist review



Specialist ESIA Studies by Specialist Teams

Physical	Biological	Social
Visual Aesthetics	Aquatic Resources and Wetlands	Socio-economics
Air Quality and Climate	Terrestrial Fauna	Human Health
Noise and Vibrations	Terrestrial Flora	Cultural Heritage
Soils, Terrain, Geomorphology	Biodiversity, Ecosystem Services and Protected Areas	Land and Resource Tenure
Geology and Geochemistry	Human and Ecological Health Risk	Natural Resource Use
Groundwater		Traffic and Movements
Surface Hydrology, Water Quality, Sediment, Seeps and Springs		Political, Industry, Institutional and Legal Frameworks
Major Hazards		

Nimba ESIA drawing from a global team of specialists



Contributing to capacity building - African team members

Aquatic ecology

- Mamadou Alpha Ly (G)
- Allassane Outtara (Ivory Coast)
- Koffi Mexim Konan (Ivory Coast)

Amphibians

- Joseph Doumbia (G)
- Kaman Camara (G)
- Francois Gbê mou (G)

Birds

- Balla Moussa Conde (G)
- Kadiatou Soumah (G)

Spiders

- Bimou Prosper Pepe (G)
- Sydibe Mamadou Diallo (G)

Flora

- Moussa Diabate (G)
- David Bilivogui (G)
- Gononan Traore (G)

Large mammals

- Toupou Koghaé (G)
- Bertin Akpatou (Ivory Coast)

Small mammals

- Moriaye Sylie (G)
- Mamadouba Camara (G)

Reptiles

- Sangbe Nyan (G)

Molluscs

- Bimou Proper Pepe (G)

Social and Health

- Facely Conde (G)
- Daouda Koman (G)
- Victorine Soua Dore (G)
- 18 local researchers and 2 experts (G)

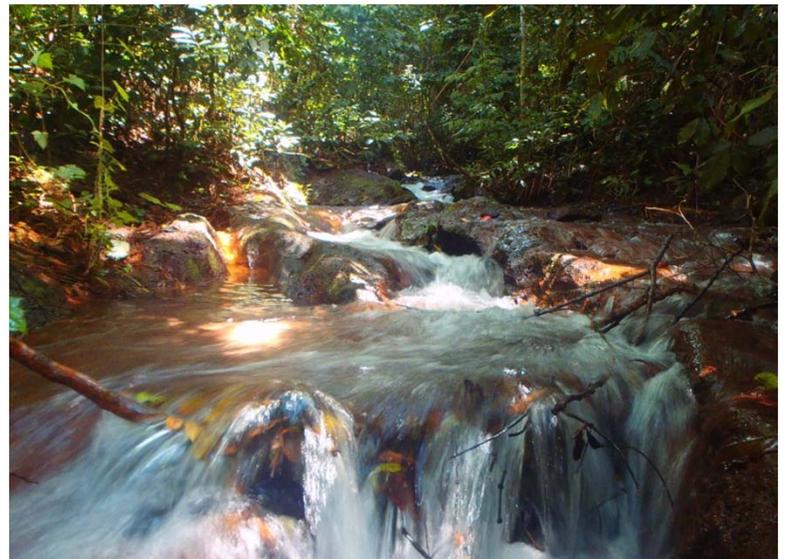
Archaeology

- Alfred Jean-Paul Ndanga (CAR)
- Guy Thurin Amaye (CAR)

Field work



Aquatic Ecology



Aquatic Ecology



Air Quality and Meteorology

- 8 Meteorological Stations installed
- Air quality monitoring stations located in 5 villages



Archaeology



Evidence of smelting - iron age furnaces

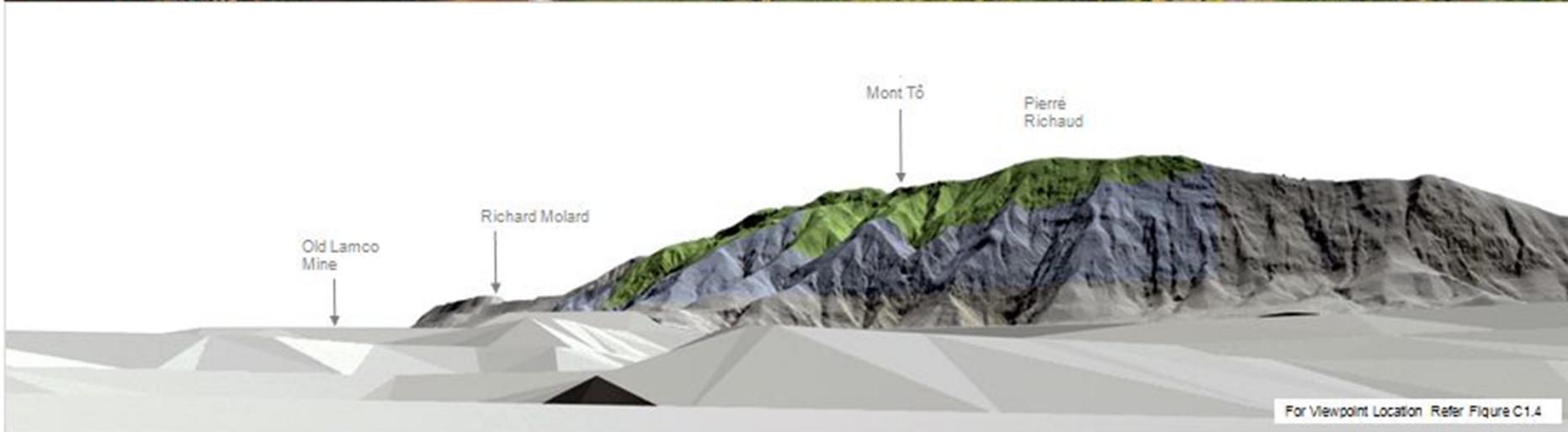
Iron Age pottery sherds



Iron Age pottery

Landscape and Visual Impact





Photograph Reference: DSCO 00368	Date: 8 March 2012	Direction from Enclave: 340°	Photograph was taken using a 34 Format Digital Camera (equivalent to a 35 mm SLR). The image was produced by joining 4-5 individual photographs to create a wide angle panorama. Focal length: 35 mm.	 Nimba EISA Visual Aesthetics Viewpoint Record Sheet
Coordinates: 7°40' 48.69" N, 8°18' 56.31" W	Elevation (metres): 256 m	Distance from Enclave: 6.6 km		
Description of View: View towards the east facing slopes of the Nimba Mountains from the western edge of N'Zoo village (from track to the west of the Police Post). Partial screening is afforded by vegetation adjacent to the village.				
Type of Reception: Residential	Sensitivity of Reception: Very High	Number of Receptors: 400+ Dwellings		

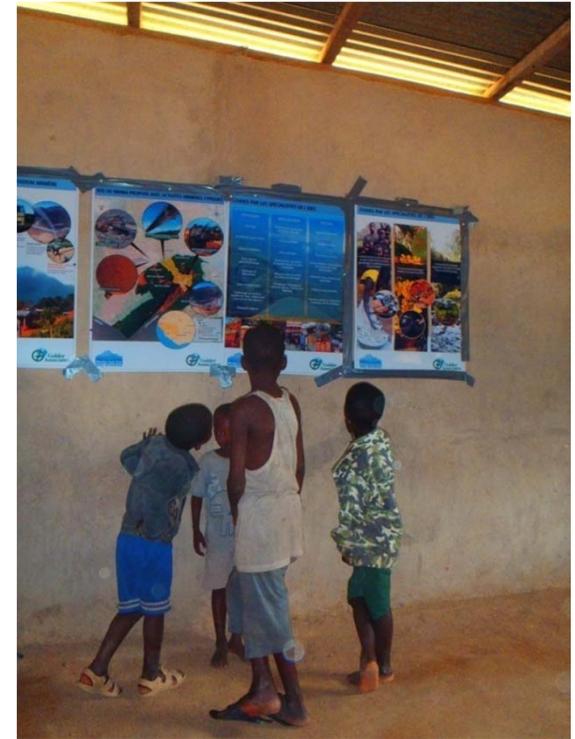
Public Consultation



Public Consultation



Gouéla



Doromou - Bourata

A vision of Sustainable Development

- Respecting commitments to uphold ICMM's Sustainable Development Principles & the values of World Heritage
- A win-win situation where development of the Nimba Project contributes to sustainable development of Lola Prefecture Guinée Forestière, and the countries of Guinea & Liberia and the long-term integrity of the Nimba WHS
- What does sustainable development mean to external stakeholders?



Thanks for your attention!

smfg