

Delivering engineering excellence, value and innovation

## Project Success – A Community Perspective

Presented by: Karl Cicanese

March 2016

### **COMPANY OVERVIEW**

Lycopodium is an international engineering and project delivery organisation recognised globally for its experience and performance over three decades in the mineral processing area.

Lycopodium has an excellent track record for delivering projects within budget and on schedule to world class HSECR standards. We pride ourselves in leaving a positive legacy regardless of project location.



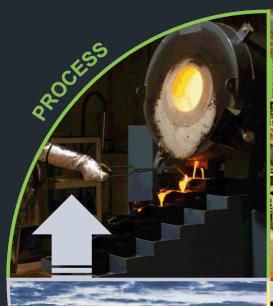
#### SERVICES

#### **PROCESS**

- Metallurgy
- Chemical
- Process Development
- Pilot Programmes
- Process Modelling
- Mass & Energy Balances
- HAZID / HAZOP

#### **PROJECT DELIVERY**

- Project Management
- Construction Management
- HSEC
- HR / IR
- Plant Commissioning
- Operator Training







- Civil
- Structural
- Mechanical
- Electrical
- Instrumentation
- Process Control

#### **PROJECT SERVICES**

- Procurement
- Capital & Operating Cost Estimating
- Scheduling
- Cost Control
- QA

PROJECT

SECTION

- Inspection & Expediting
- Materials Management

#### **MINERALS TRACK RECORD**

#### **REPEAT BUSINESS FROM KEY CLIENTS**





### **OUR AFRICAN INVOLVEMENT**

Over 20 years experience in Africa

25+ countries

Range of commodities and processes



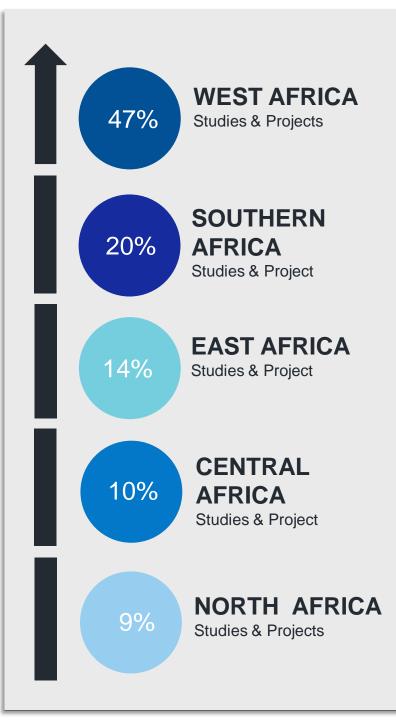




Junior, mid-tier and major Clients

 $\checkmark$ 

Range of project delivery models



### AFRICAN EXPERIENCE



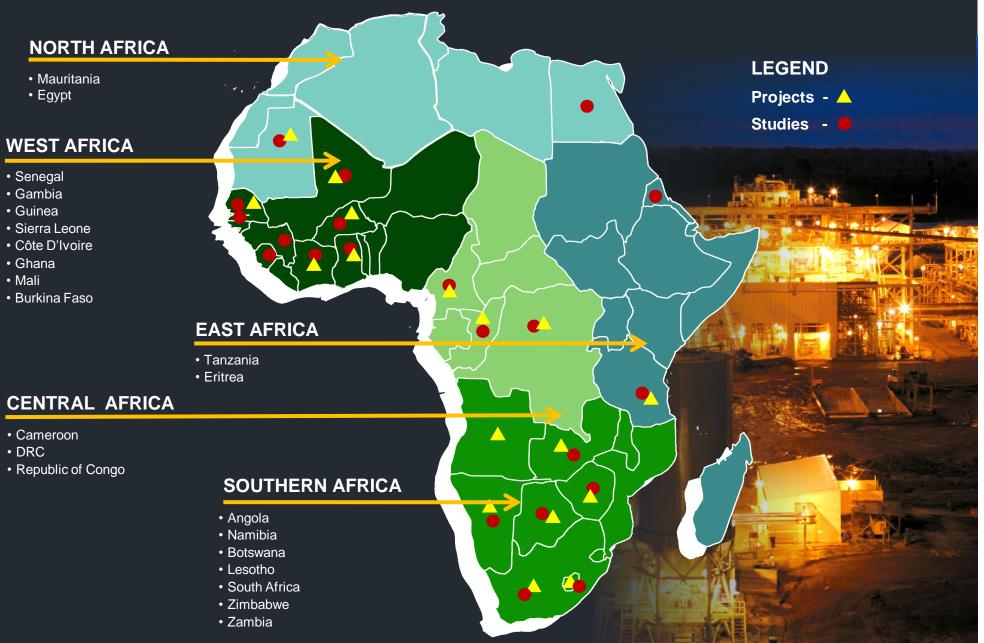
47% west africa

14% east africa

10% central africa

> 20% southern africa

#### AFRICAN EXPERIENCE



### PROJECT EXPERIENCE

### **PROJECT ACHIEVEMENTS**

#### **40+ PROJECTS IN AFRICA**

World class safety and quality

Projects under budget and within schedule 100% ramp-up to nameplate of all projects

Delivered in logistically challenging locations

Fit for purpose project systems and procedures

Strong repeat business with Clients

#### **PROJECT ACHIEVEMENTS**

#### **BISSA – GOLD PROJECT**

Completed under budget and on schedule with over 1 million LTI free.

#### TARKWA – GOLD PROJECT

At the time, it was the worlds largest single stage SAG Mill.



BIBIANI – GOLD PROJECT The project was completed on time and below budget with a +10% throughput.



The 55 Mtpa complete stand alone plant, and the mills installed are some of the largest in the world.



AHAFO – GOLD PROJECT Awarded the WA Engineering Excellence Award for the Project.

GOLDEN PRIDE – GOLD PROJECT This was the first modern gold plant in Tanzania.

### CURRENT AFRICAN PROJECTS

12 ME

· ...

Bouly Gold Heap Leach Project, Côte d'Ivoire Client: Nordgold

#### EPCM 7 Mtpa, Greenfield

Agbaou Gold Project - Brownfield Upgrade, Côte d'Ivoire Client: Endeavour

EPCM Secondary Crushing and Screening



Sentinel Project Zambia Client: First Quantum Minerals Ltd

#### **EP** Copper Concentrator

### COMMUNITY ENGAGEMENT

### **COMMUNITY RELATIONS**

### Strong focus on community awareness and education

Lycopodium staff members routinely provide support to local community initiatives. These have included:

- Support to local schools
- Support local businesses
- Support local training and employment

## Establishment of sustainable industries with indigenous groups

- Farmers, cooperative to supply fruit & vegetables during construction
- Tailors for all work shirts
- Block making facilities

#### Project-specific community relations plans

- Workforce training
- Helping support local communities
- Strict code of ethics for interaction with local communities







### **COMMUNITY FARMING INITIATIVES**





Lycopodium Community Farming Initiative

### **COMMUNITY EDUCATION INITIATIVES**

Supporting volunteer services and employee fund raising

efforts.

Organise, coordinate and distribute educational supplies amongst schools in the vicinity of our Projects. Supplies included tables and chairs sourced from Perth, books, sporting equipment and various stationery items.

#### B.A.S.I.C.S. International

Lycopodium has funded, designed and constructed a new school which provides a fundamental learning centre. The facility incorporates renewable energy to educate children in sustainability concepts.



# EMPLOYMENT & TRAINING

### **EMPLOYMENT OPPORTUNITY**

Commitment to Local Employment and Local Contractors





Promote and mandate "local " employment.

Award work to local and national contractors where capability exists.

Engage with and develop local service providers.

Provide training in the "basics" – safety, hazard identification, environmental, basic equipment use, hand tools, trade assistance, traffic management, stone pitching, landscaping, etc.

Equitable wage rates, benefits and allowances.

Fair division of employment opportunities between local communities.

Encourage client to offer long term employment to outstanding "local local" employees.

Promote transfer of employees from project to operations duties where the latter offers long term opportunities.

### SAFE WORKPLACE

#### THE SAFE WAY IS THE ONLY WAY





Best practice safety standards and procedures everywhere we work.

Skilled safety professionals to train and mentor, local employees. Training and instruction on wider health and safety issues (malaria, aids).

Training in the use of PPE and safety equipment.





Ongoing communication and training as projects develop through various stages of construction and commissioning, i.e. Shifting hazards.

Appropriate inductions and ongoing safety training.

Local supervisor training program.



### GHANA CASE STUDY

CAPITAL CRANES

Ahafo Project, Ghana

LIA

L. N.

### **AHAFO PROJECT - GHANA**

#### **COMMUNITY RELATION**

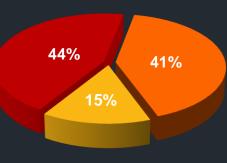




TRAINING

LOCAL EMPLOYMENT

#### **STATISTICS**



Lcoal Area Employment
Expatriate Employment
Ghana Nationals Employment

Fund raisers for class room equipment for local schools & providing second had books and school equipment.

Local area tailoring of site uniforms.

Mentoring to contractors – bus operating (51), earthworks, etc.

Daily meals provided on site.

Local labour pool was utilised for employment of all unskilled and semi-skilled where available.

Provided structured training in basic construction skills.

The Lycopodium Community Relations ensured that there was equitable employment numbers on the Project from all the surrounding villages, as agreed with the village leaders in the early phases of the Project.

Hire of local staff for clerical and secretarial duties.

At Project Peak (3000+) – Local Area workforce (1280 skilled and unskilled), Ghana Nationals (1366 skilled and unskilled), Expatriate workforce (452 Skilled).

### AHAFO PROJECT - MINE VEGETABLE FARM





Lycopodium and client worked with the community to develop a local farming business. Developed a sustainable local business providing employment opportunities and income prospects for the community.



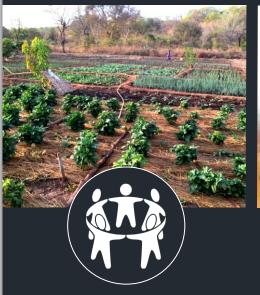
Long term supplier to meet the catering requirements of the Project site.

### CÔTE D'IVOIRE CASE STUDY

Agbaou Project, Côte d'Ivoire

### **AGBAOU PROJECT - CÔTE D'IVOIRE**

#### **COMMUNITY RELATION**





LOCAL EMPLOYMENT

### 25% 50% 25% • National Employment • Other

Local Area Employment

**STATISTICS** 

A number of community projects were undertaken by the Client with support from Lycopodium.

#### LYCOPODIUM APPRENTICESHIP SCHEME

Local area people were trained under the Apprenticeship Scheme in order to make them employable on the Project. Contracts were awarded to a number of locally based contractors.

Some local contractors were used for other small works outside their contract.

Total workforce at peak construction – 470

- 25% local area employment
- 50% national employment
- 25% expats

#### TRAINING

# Lycopodium

Delivering engineering excellence, value and innovation

