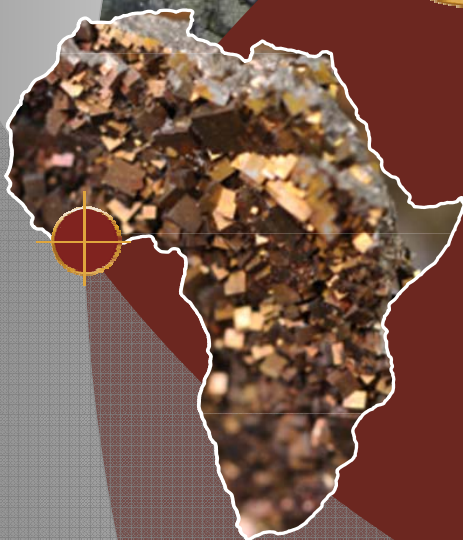




Perseus
MINING LIMITED

ASX/TSX: PRU

www.perseusmining.com



Emerging Gold Producer

Africa Down Under
September 2010

Mark Calderwood
Managing Director

Competent Person's Statement

Information in this presentation that relates to exploration results, mineral resources or ore reserves is based on information compiled by Mr Mark Calderwood, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Calderwood is a Director and full-time employee of the Company. Mr Calderwood has sufficient experience, which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves' and as a Qualified Person for the purposes of National Instrument 43-101 of the Canadian Securities Administrators. Mr Calderwood consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

Forward-Looking Statement

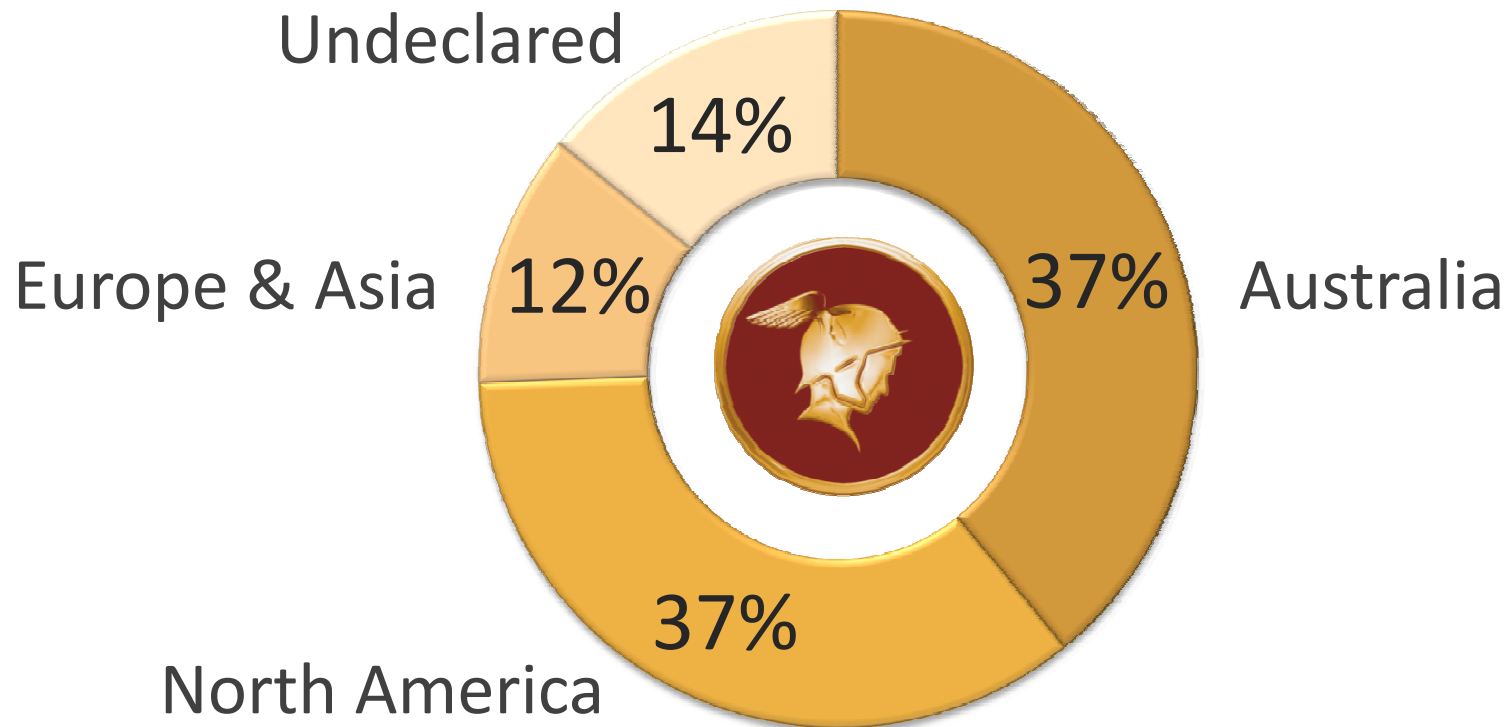
Statements in this presentation regarding the Company's plans with respect to its mineral properties are or may be forward-looking statements. There can be no assurance that the plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that the Company will be able to convert Inferred resources to Indicated resources or Indicated resources to Measured resources, that any mineralisation will prove to be economic, or that a mine will successfully be developed on any of the Company's mineral properties.

Capital Structure



Ordinary Shares (PRU)	421.3M
Unlisted Options (avg. \$1.33)	8.8M
Market capitalisation (\$2.60 undiluted)	A\$1,095M
Net Cash June 30 2010	A\$186M
CAGP Capex to June 30 2010	US\$48.5M
Finance Facility (undrawn)	US\$85M

Share holding geographically



“West African emerging gold producer”



2.1Moz

in Reserves (55.5Mt at 1.2g/t)

+



2.1Moz

in M&I Resources (52.2Mt at 1.3g/t)

+



3.0Moz

in Inferred Resources (92.7Mt at 1.0g/t)

Mission

Significant gold producer by 2012
(>200koz/ann)

Multi-mine gold producer by 2013
(>400koz/ann)

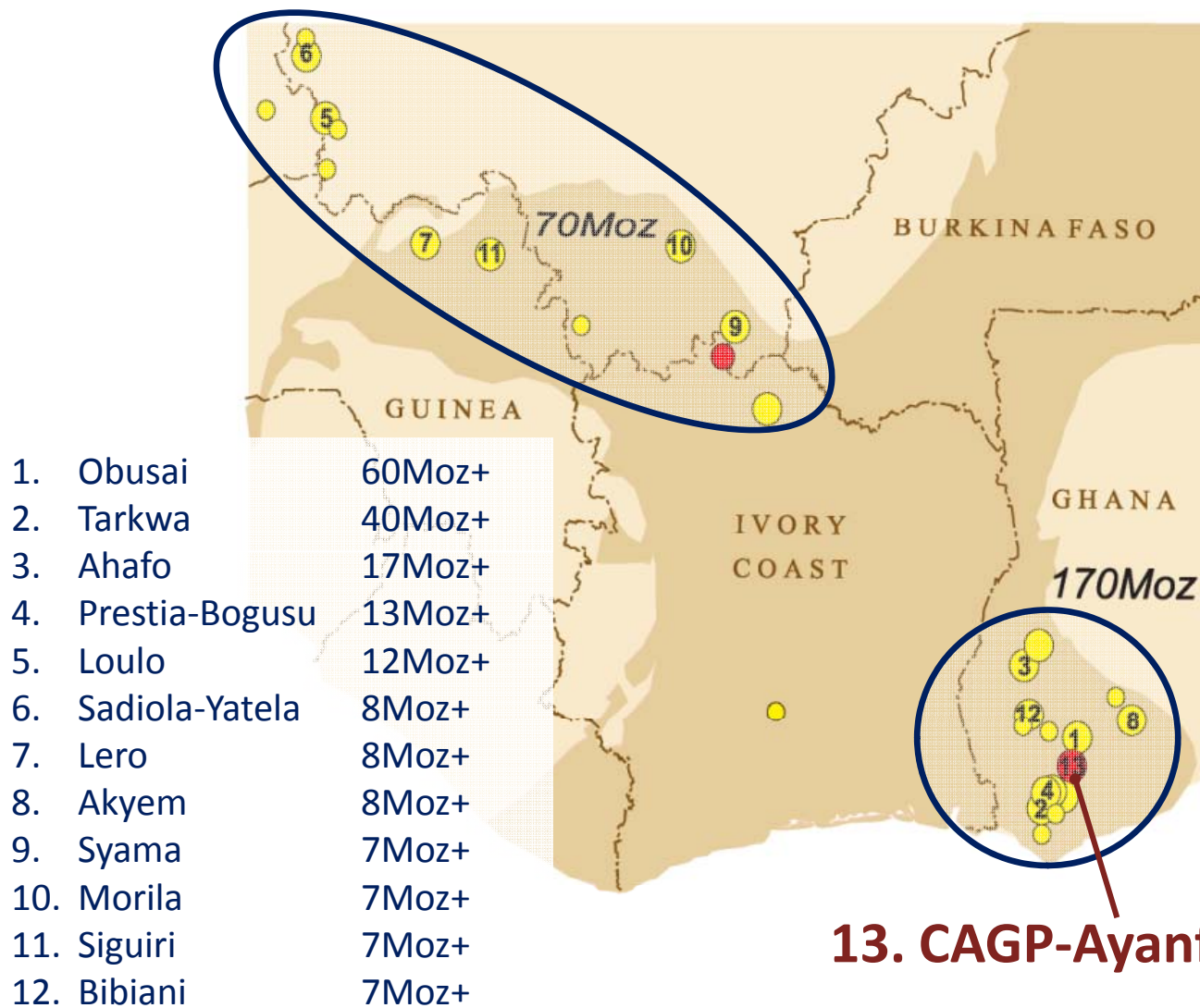
Strategy

Active phased mine development

Continued rapid reserve/resource
growth

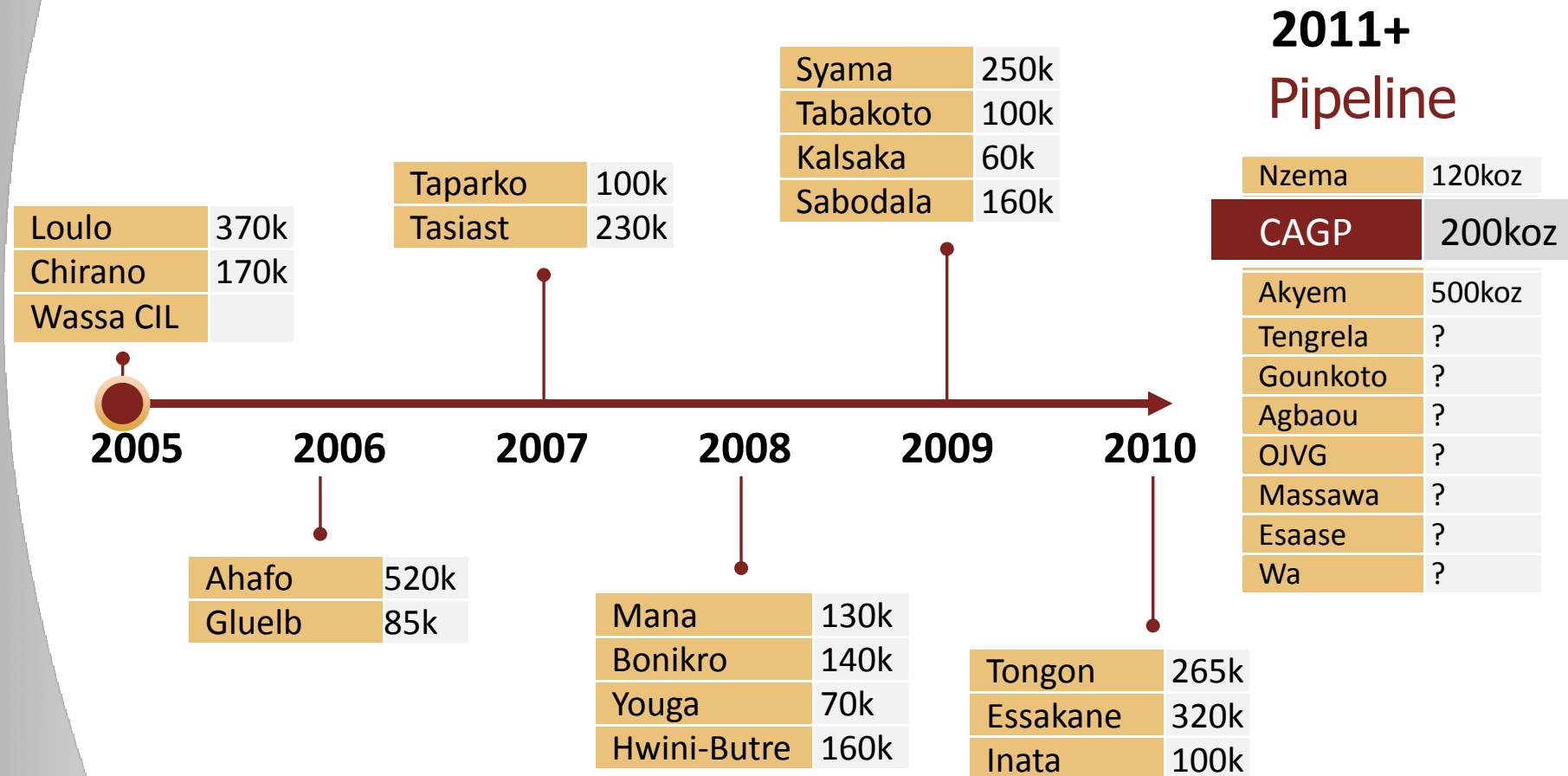


"Elephant Country"

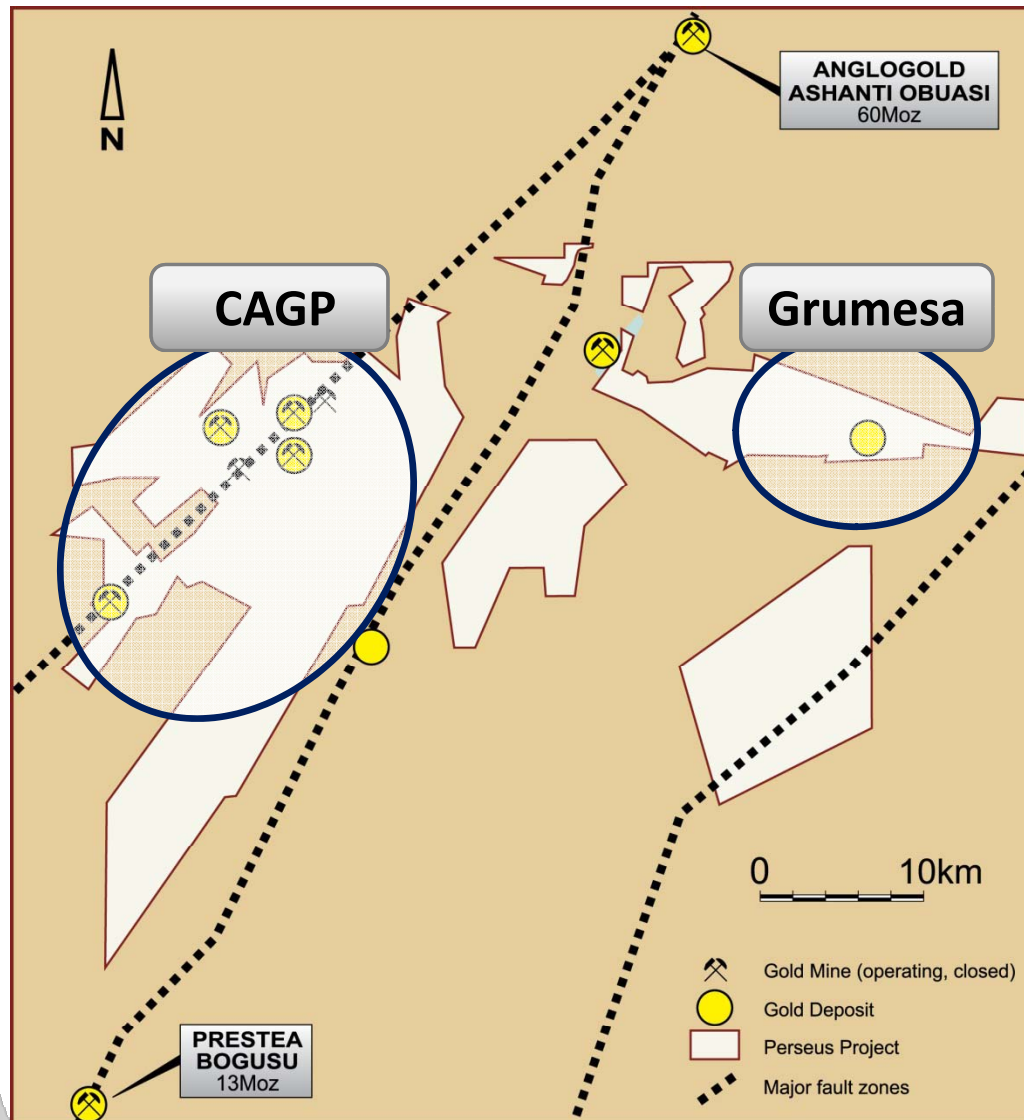


"Elephant Country"

15 new gold mines in 5 years



Perseus Ghana: Ashanti Belt Projects



CAGP

M&I 3.2Moz incl;

Proven & Prob. 2.1Moz

Inferred 2.1Moz

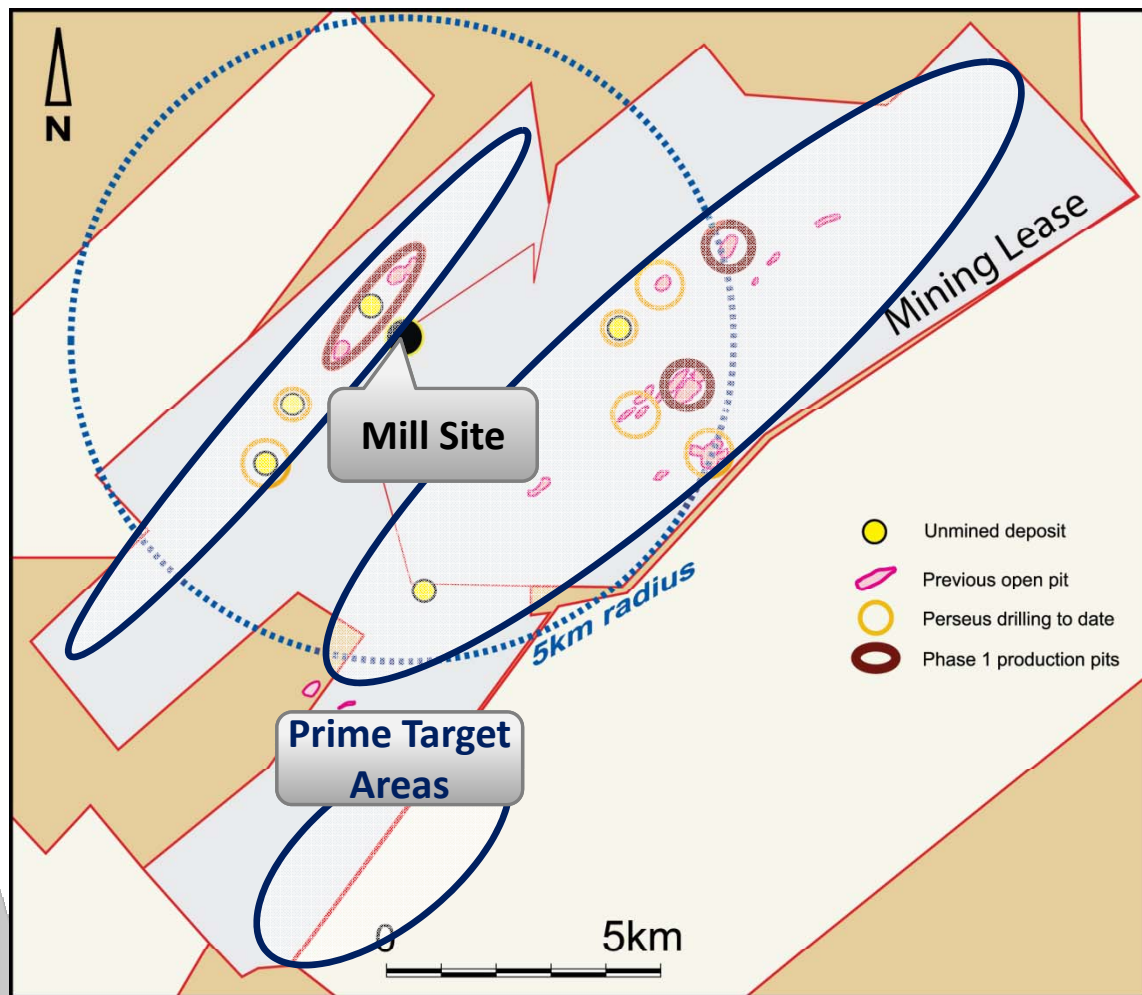
Next update Q4 2010

Grumesa

M&I 0.2Moz

Next update Q4 2010

CAGP (Ayanfuri)



Targets

Reserves



2009	2Moz
2010	3Moz
2011	4Moz

Production

Phase 1: 2011
+200,000ozpa

Phase 2: 2013
+300,000ozpa

Exploration

1 discovery p.a.

Key Parameters of CAGP Feasibility

Gold Production (Phase 1 only)

Year 1	230,000 oz
--------	------------

Reserves P&P	2.14 Moz
--------------	----------

Earnings Capability (EBITDA)

First 3 years

Total 10 years

@ US\$850/oz	US \$334M	US \$758M
--------------	-----------	-----------

@ US\$1,200/oz	US \$500M	US \$1,295M
----------------	-----------	-------------

Capital and Operating Costs

Initial Capital Cost	US\$160M (incl. larger mill equipment)
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Plant Capacity	5.5 million tpa
----------------	-----------------

IRR (at US\$1,050)	80%
--------------------	-----

Cash Operating Cost	US\$409/oz (Year 1) US\$512/oz (10 years) (incl. 5% Royalty)
---------------------	--

Key Parameters of CAGP Feasibility

Timing

Construction start	Q2 2010
Gold Production	Q3 2011
Payback	1yr 8mths (at US\$850), 1yr 1mths (at US\$1,050)
IRR	60% (at US\$850), 80% (at US\$1,050)

* Including hedging of 170koz at \$1,241

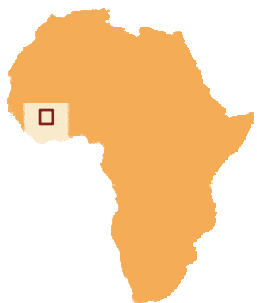
CAGP Construction



CAGP Construction



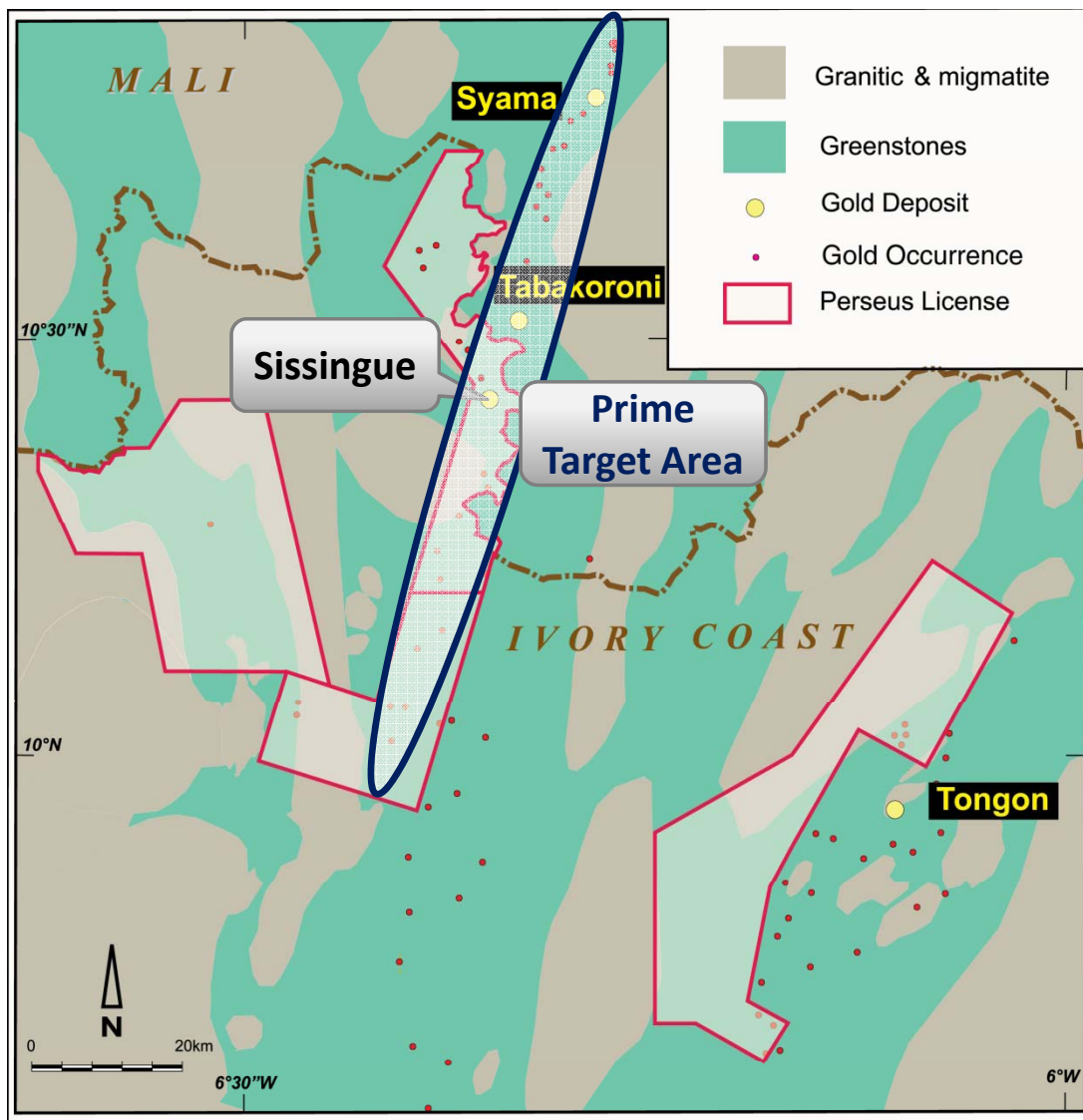
Perseus Ivory Coast



Sissingue

M&I 0.9Moz
(15.2Mt)

Inferred 0.3Moz



Grade - Sissingue

Intercepts >400 Au gm (Past 12 months)	Au gm x m
6m at 476g/t	2,856
8m at 325g/t plus 36m* at 3.1g/t	2,712
6m at 429g/t plus 18m at 7.5g/t	2,709
22m at 72.1g/t	1,586
68m* at 21.3g/t	1,448
26m at 19.5g/t plus 18m at 4.9g/t	595
8m at 65.7g/t	526
110m* at 4.0g/t	440
14m at 28.7g/t	402



Targets

Reserves

2010 0.7Moz

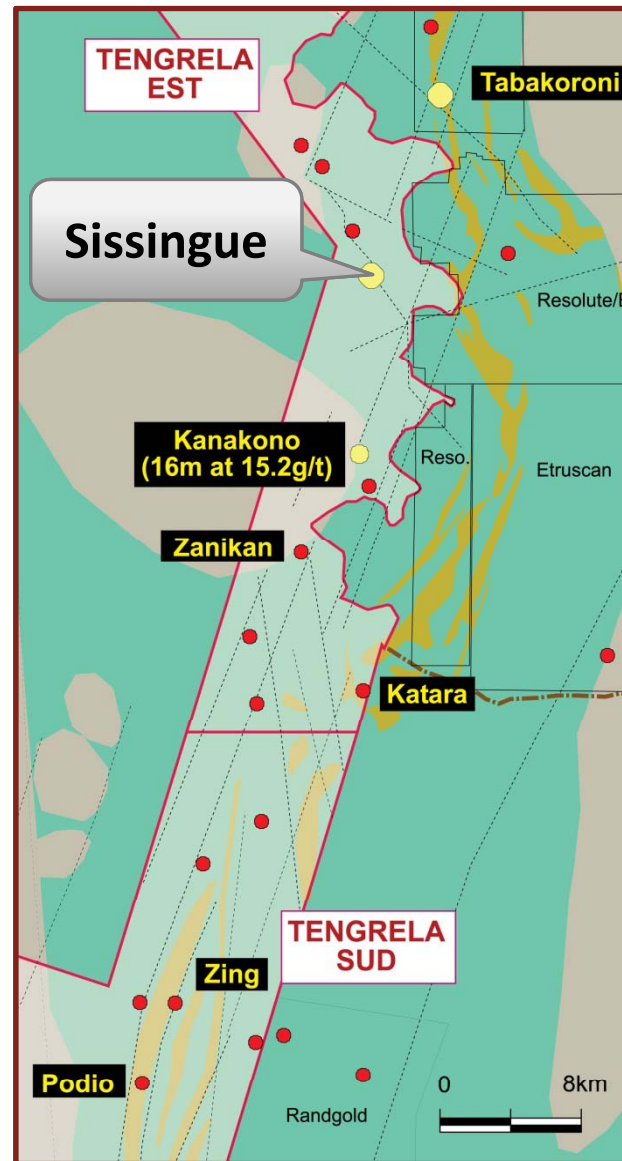
2012 1.5Moz

Production

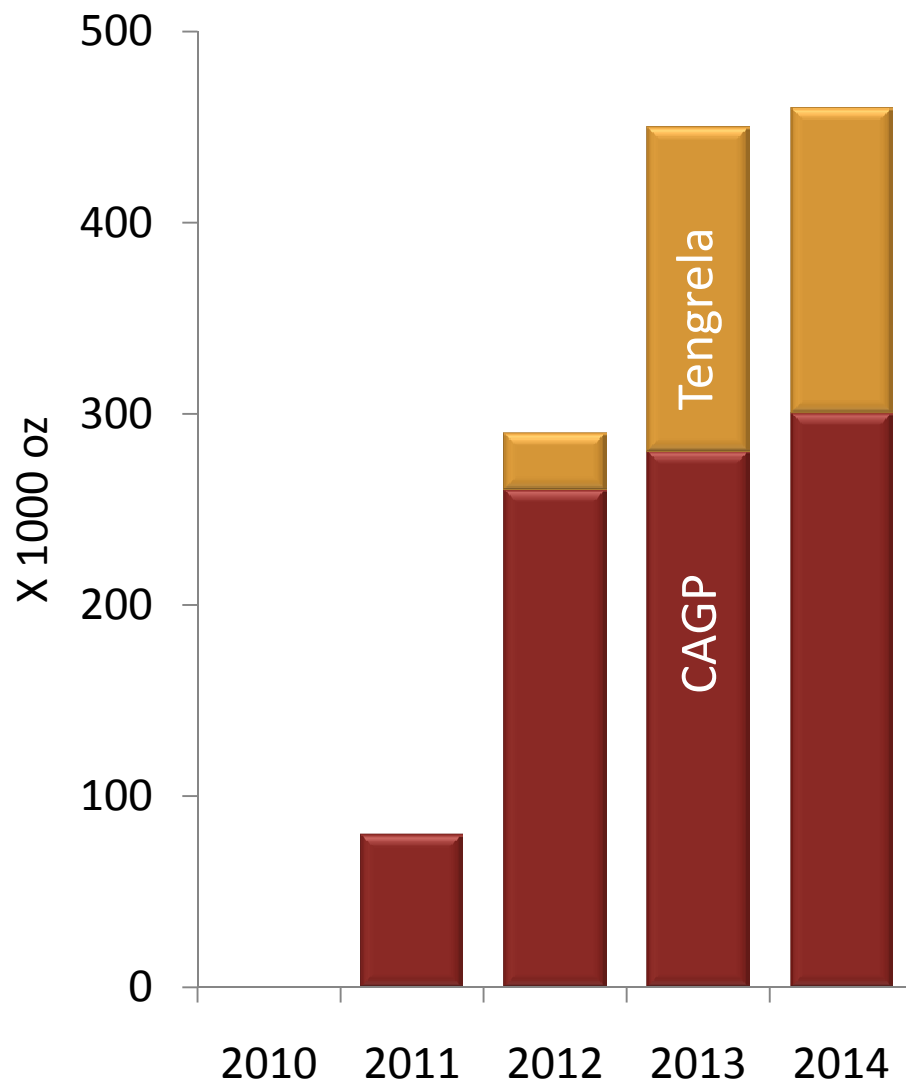
Phase 1: Q4 2012
>150,000ozpa

Exploration

New Discoveries



Production Strategy



Cash cost & capex targets

2011-12 US\$520/oz

2013-15 US\$450/oz

Capex* US\$100/oz

* total start up and sustaining capital



News Flow 2010

Drilling
25,000m/month

DFS and Reserve for
Tengrela (Oct 2010)

CAGP Construction
updates

CAGP Reserve updates
(Sep-Dec 2010)

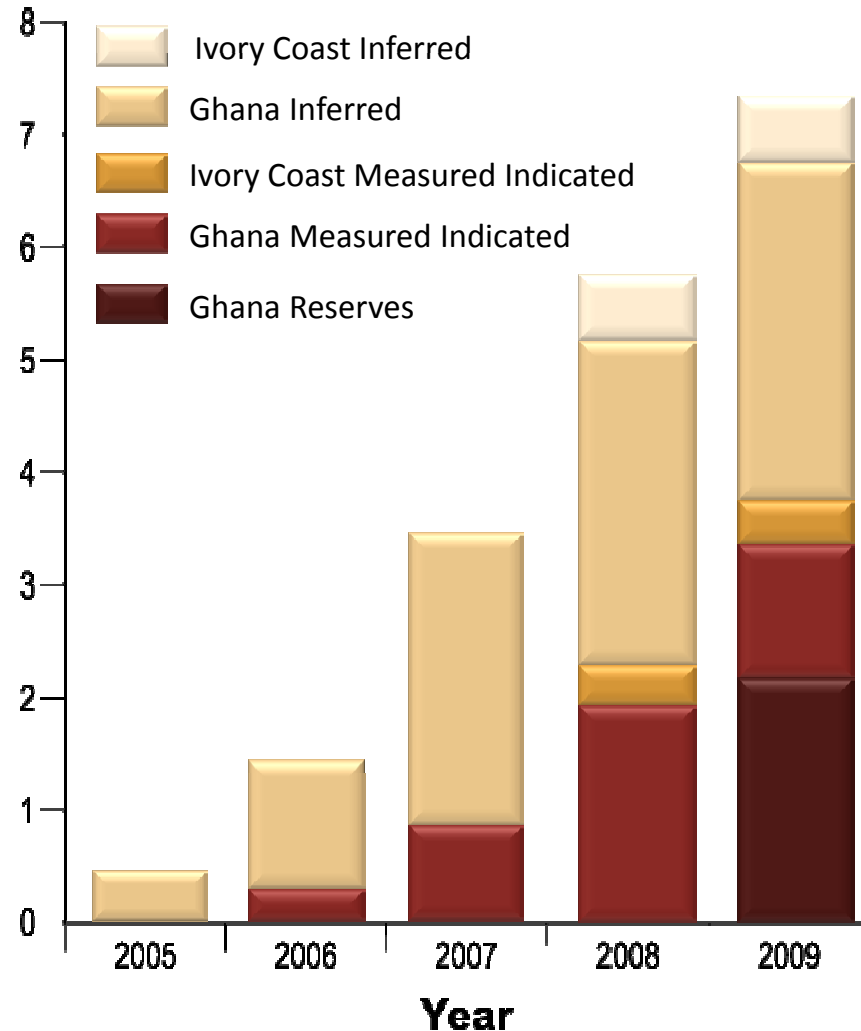


Value and Growth



Rapid resource/reserve growth
Near term production + growth
2013 Target - 450koz per annum
@ US\$450/oz cash cost
Fully funded
Strong news flow
(S&P ASX 200)

Million Ounces of Gold

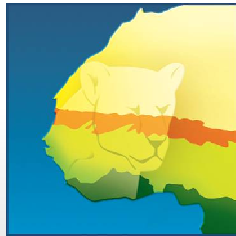


Broker Recommendations



Date (2010)	Institution	Author	Target	Recommendation
20/08	BGF	Warwick Grigor	A\$4.00	Strong Buy
20/07	CIBC	Cosmos Chiu	C\$3.50 (A\$3.85)	Sector Outperform
19/07	RBS	Sam Berridge	A\$2.53	Buy
21/06	Clarus Securities	Nana Sangmuah	C\$4.15 (A\$4.56)	Buy
19/06	Rodman & Renshaw	Alka Singh	C\$4.00 (A\$4.40)	Market Outperform
17/06	Cormark	Mike Kozak	C\$3.50 (A\$3.85)	Strong Buy
11/03	Ambrian	Julian Emery	A\$2.08	Buy

Other Assets



BUREY GOLD

20%

(1.08Moz Gold)

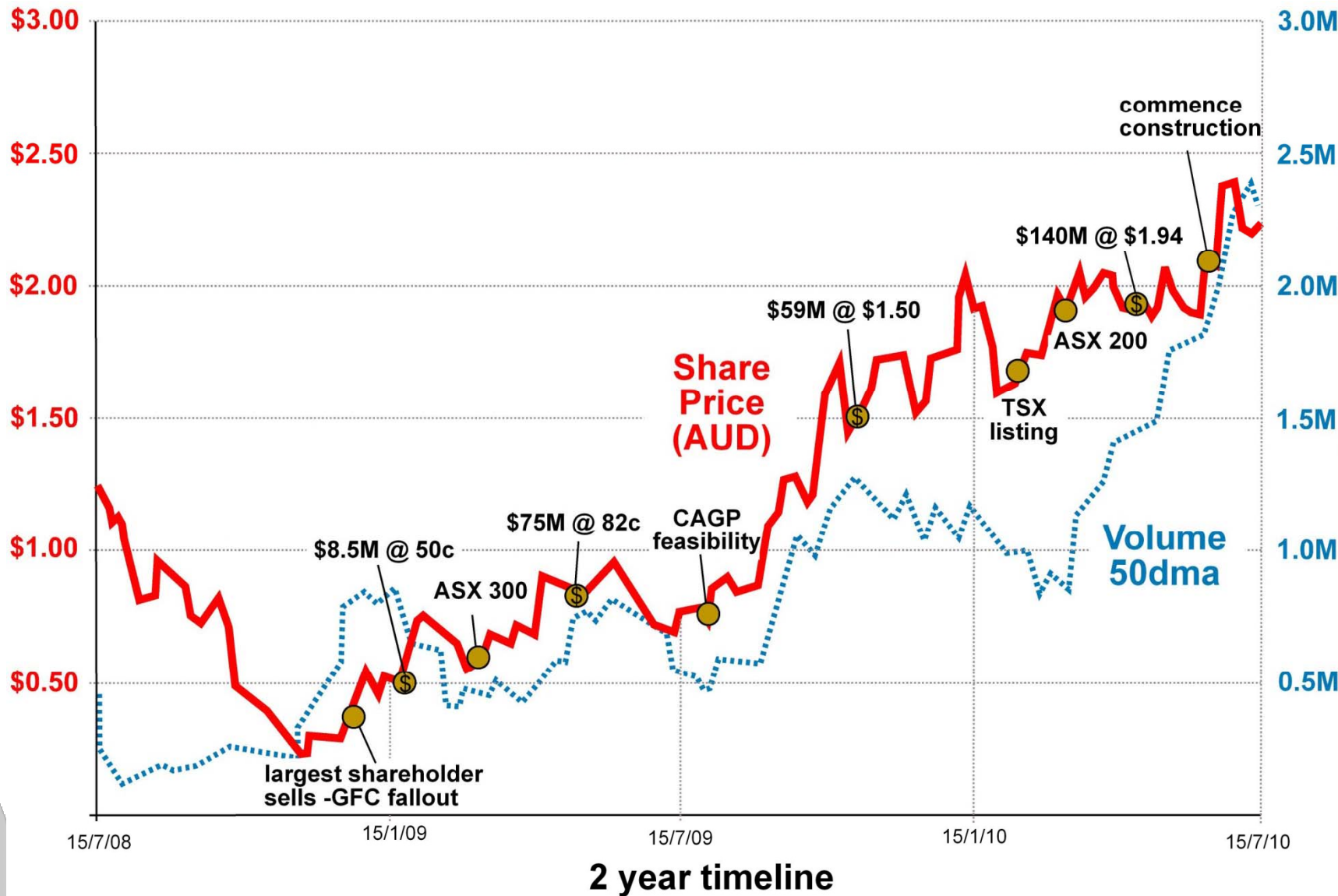


MANAS
RESOURCES

28%

(1.13Moz Gold)

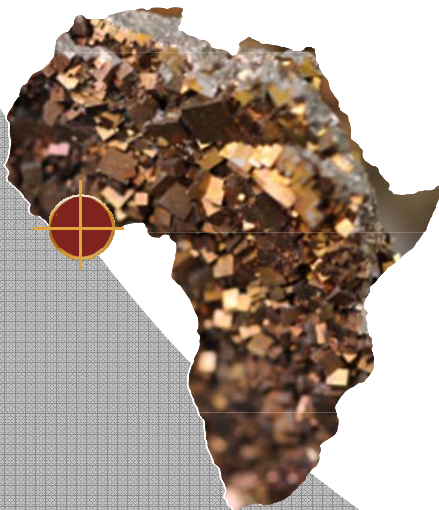
Share Price





Perseus
MINING LIMITED

ASX/TSX: PRU www.perseusmining.com



Booth 86

Mark Calderwood

Managing Director

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Nathan Ryan

Investor Relations

+61 420 582 887

Appendix 2: Board of Directors



Reg Gillard

22yrs director / chairman,
public companies

Non Executive Chairman

Executive Directors



Mark Calderwood

24yrs exploration and
corporate management



Colin Carson

23yrs in public company
management



Rhett Brans

35yrs in feasibilities and
engineering

Non Executive Directors



Neil Fearis

30yrs as commercial lawyer



Sean Harvey

21yrs in investment banking and
public company management



Michael Bohm

23yrs as mining engineer with
project, operational & corporate
management

Appendix 3: Construction & Operations

Rhett Brans (Executive Director)

A civil engineer with 35 years' experience in the design and construction of mineral treatment facilities, most recently for Straits Resources – General Manager Engineering & Construction.

Garrick Allen (Project Manager)

38 years' experience across five continents in the management of engineering, design, procurement, construction, quality assurance, planning, contract administration, estimating, cost control etc.

Stephen Osei-Bempah (Senior Mining Engineer)

A mining engineer with 18 years' experience from mine planning and management to general manager for Billiton, Cluff, Ashanti and Goldfields in Ghana and Burkina Faso.

Paul Criddle (Principal Metallurgist)

10 years' experience in metallurgical design, development and operations for gold mines in Australia and Africa.

Grant Pierce (General Manager of Opt)

A mining engineer with 23 years' experience in operations and mine management including 10 years on African gold and base metal mines.

Paul Hug (Commercial Manager - Ghana)

An accountant with 24 years' experience commercial and financial management with 10 years' experience in Africa.

Michael Bourguignon (Principal Project Engineer)

13 years project engineering & management including Ayanfuri tender process.

Experienced Ghanaians being Recruited for Senior Management positions

Administration	OH&S
Environmental	Social



***~200 years' combined
relevant experience***

Appendix 5: CAGP (Ayanfuri) History



History

- Mined in 1990s by Cluff-Ashanti
- 23 shallow pits produced 300,000oz 1994-2001
- May 06 Perseus gained control of 180,000oz resource

Location

- 30kms from AngloGold's +60Moz Obuasi Mine
- 45kms from Prestea-Bogusu project

Exploration

- Perseus A\$40m, >200km of drilling in 3 years
- Resource 5.3 Moz in Mar-09 from 8 deposits
- Still large exploration upside

Geology

- Granite with quartz stock-works ~80m wide

Proposed Operation

- Low strip ratio, bulk open pit mining
- Low cost coarse grind. Gravity/float/CIL. Free milling

Reserves

Mineral Reserves (Gold)

Deposit	Proven			Probable			Total		
	Tonnes (million)	g/t Au	Ounces Au	Tonnes (million)	g/t Au	Ounces Au	Tonnes (million)	g/t Au	Ounces Au
CAGP- (Ayanfuri) >0.5g/t ⁽¹⁾	18.4	1.4	828,000	37.2	1.1	1,313,000	55.5	1.2	2,141,000

Notes:

(1) Last updated on 30-07-2009

Resources

Mineral Resources (Gold)

Deposit (cutoff g/t Au)	Measured & Indicated			Inferred		
	Tonnes (million)	g/t Au	Ounces Au	Tonnes (million)	g/t Au	Ounces Au
CAGP-(Ayanfuri) >0.8g/t ⁽¹⁾	15.8	1.5	764,000	30.2	1.5	1,423,000
CAGP-(Ayanfuri) 0.4g/t - 0.8g/t ⁽¹⁾	14.1	0.6	267,000	31.9	0.7	691,000
Grumesa Sth >0.4 / 0.6g/t ⁽³⁾	7.1	0.9	195,000	1.9	0.8	46,000
Grumesa Nth >0.4g/t ⁽⁴⁾				21.4	0.8	573,000
Tengrela⁽²⁾ >1.0g/t	9.8	2.5	783,000	3.5	1.7	185,000
Tengrela⁽²⁾ 0.5-1.0g/t	5.4	0.8	132,000	3.8	0.7	90,000
Totals >0.8g/t (1.0g/t Tengrela)	25.6	1.9	1,547,000	33.7	1.5	1,608,000
Totals >0.4g/t (0.5g/t Tengrela)	52.2	1.3	2,141,000	92.7	1.0	3,008,000

Notes:

(1) Last updated on 30-07-2009

(2) Last updates July 2010

(3) Last updated on 30-4-07

(4) Last updated on 29-9-2006

(5) The company holds 90% of Ayanfuri, 90% of Grumesa and 80% of Tengrela after allowing for Government equity at mining stage.