



Perseus  
MINING LIMITED

ASX/TSX: PRU

[www.perseusmining.com](http://www.perseusmining.com)



# Review of December Quarter 2012

Mark Calderwood – CEO  
Jeff Quartermaine - CFO

21 January 2013

# Cautionary Statements



## Forward-Looking Statements

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.

## Competent Person's Statement

The 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 Chartered Professional 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 qualified person pursuant to National Instrument 43-101 of the Canadian Securities Administration. Mr. Calderwood consents to the inclusion in this presentation of matters based on this information in the form and context in which it appears.



- Gold production of 51,090 oz from Edikan (“EGM”) during the Quarter. 13% under revised guidance of 58,500-61,750oz largely due to mechanical failures in the crushing circuit.
- Production cost of US\$588/oz compares favourably to guidance of US\$575/oz which given the production shortfall is a credible result.
- “All Up” site cost of US\$1,060/oz within 6% of targeted US\$1,000/oz including production, royalty, development & sustaining capex plus investment in stockpiles and waste stripping.
- Sissingué Gold Mine development in Côte d’Ivoire remains on hold but positive developments late in the December Quarter.
- 35,356m of drilling completed in Ghana and Côte d’Ivoire including significant intercepts from new prospects
- Available cash balance of A\$39.7M plus 11,785oz of gold on hand and at refinery (valued at A\$18.9M) at 31 December 2012 plus US\$100.0M of available debt.

# Edikan Gold Mine – Performance Overview



- Gold Production
  - Production 51,090oz, 13% under revised guidance
  - Production cost US\$588/oz or US\$1,060/oz including royalty, development and sustaining capital and investment in stockpile and waste stripping)
  - Poor crusher availability due to mechanical issues with the crusher.
  - Mill throughput rate of 811dtpd during Quarter equates to annual throughput rate ~6.4MTPA (at 90% availability)
- Gold sales 48,080oz at weighted average price of US\$1,581/oz
  - 14,000oz at US\$1,243/oz delivered to hedge contracts, balance sold at spot prices
  - Royalty expense US\$107/oz

	DEC QTR 2012	Revised Guidance
Gold Production	51,090oz	58,500 – 61,750oz
Cash Cost	US\$588/oz	US\$575/oz
Cash Cost + royalty	US\$695/oz	-
Total site cost	US\$1,060/oz	



- Mining
  - 4.06Mbcm of ore + waste mined (in line with Sep Qtr)
  - 1.65Mt of ore at 1.3g/t Au
  - Strip ratio 5.6:1 (bcm:bcm) due to push back on current pits, strip ratio will average 2.6:1 for AFG stage 2 and 3.5:1 for Fobinso stage 2
  - Ore stockpile increased to 4.6Mt at 0.8g/t containing 111Koz of gold
  - Mining cost average US\$2.90/t of material (in line with Sep Qtr)
  
- Processing
  - 1.36Mt (**up 6%** from Sep Qtr notwithstanding shortage of feed ore due to crusher problems)
  - Dec Qtr processing rate 811dtpH (**up 6.5%** from Sep Qtr)
  - Recovery 84.2% (down by **4%** from Sep Qtr) due to increased oxide feed ratio
  - Processing cost US\$8.83/t (down **9%** from Sep Qtr)
  
- Other Expenditure
  - Overheads - US\$1.7M per month (in line with Sep Qtr)
  - Royalties - US\$5.5M (US\$107/oz)
  - Capital expenditure - US\$5.0M incl expenditure on mining contractor establishment, tailings dam, haul road and community

# Edikan Gold Mine - Processing Issues & Improvements

- Processing issues
  - Crusher availability of 44% over 51 days resulted in poor mill utilization and reduced production
- Processing Upside
  - In October mill was close to 90% utilisation and with only 77% crusher utilisation, resulted in record gold production month.

Period	Days	Primary Crusher				SAG Mill				
		Wt <sup>(1)</sup>	wt/hr	util <sup>(2)</sup>	Evts <sup>(3)</sup>	dt <sup>(4)</sup>	dt/hr	dir ox feed <sup>(5)</sup>	util <sup>(2)</sup>	Evts <sup>(3)</sup>
<b>July</b>	31	419,656	872	65%	1	394,599	771	-	69%	1
<b>August</b>	31	515,363	979	71%	1	473,249	744	-	85%	0
<b>September</b>	30	450,413	1,120	56%	1	415,347	772	-	75%	2
<b>October</b>	31	515,239	898	77%	0	565,454	851	2%	89%	0
<b>1 Nov. - 21 Dec.</b>	51	465,782	870	44%	5	622,650	774	18%	66%	3
<b>22 Dec. - 31 Dec.</b>	9	161,228	1,118	67%	1	155,631	831	20%	87%	0

Notes:

- 'wt' denotes wet tonnes
- 'util' denotes percentage of utilisation. Utilisation of the crusher is often impacted when the crushed ore stockpile is full or is being pushed out to expand ore stockpile capacity, while utilisation of the mill is often impacted by depletion of the crushed ore stockpile
- 'evts' denotes the number of shut down events exceeding 24 hours.
- 'dt' denotes dry tonnes.
- 'dir ox feed' denotes percentage of total mill feed, fed directly to the mill by the oxide feed circuit. Prior to December 22 the primary crusher treated a variable combination of primary and oxide material.



- **Production Guidance**
  - Revised guidance is expected to be released at around the time of financial results
  
- **Mining**
  - Ore currently coming from AF-Gap and Fobinso
  - Revisiting mine planning to optimise value of the project
  
- **Processing**
  - Continue to increase mill availability through preventative maintenance programme and improvements to supply chain
  - Continue to increase daily throughput
  - Reduce unit operating costs
  
- **Capital Projects**
  - Start debottlenecking and project to increase throughput capacity to 8MTPA
  - Continue work on crop compensation and village move



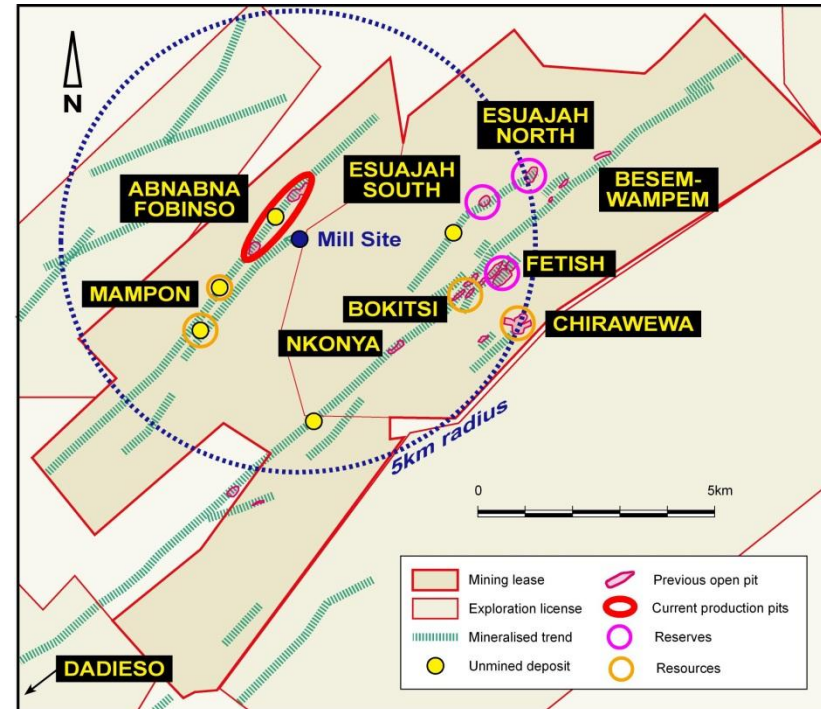
- **Permitting & Fiscal Arrangement**
  - Development approval remains on hold pending clarity on fiscal
  - Encouraging progress made late in December Quarter with scrapping of “Super Profits” Tax in favour of modified royalty regime
  - Revised Mining Convention tabled and under review by authorities
- **Project Approval**
  - Undertaken a full review of project operating and capital budgets – moderate cost increases relative to DFS
  - Financing plan enhanced by debt restructure
- **Timetable**
  - 12-month build from start of construction
  - Target for mid 2014 start of commissioning
- **Capital Expenditure** of US\$15.4M to Dec 31 2012



# Ghana - Exploration

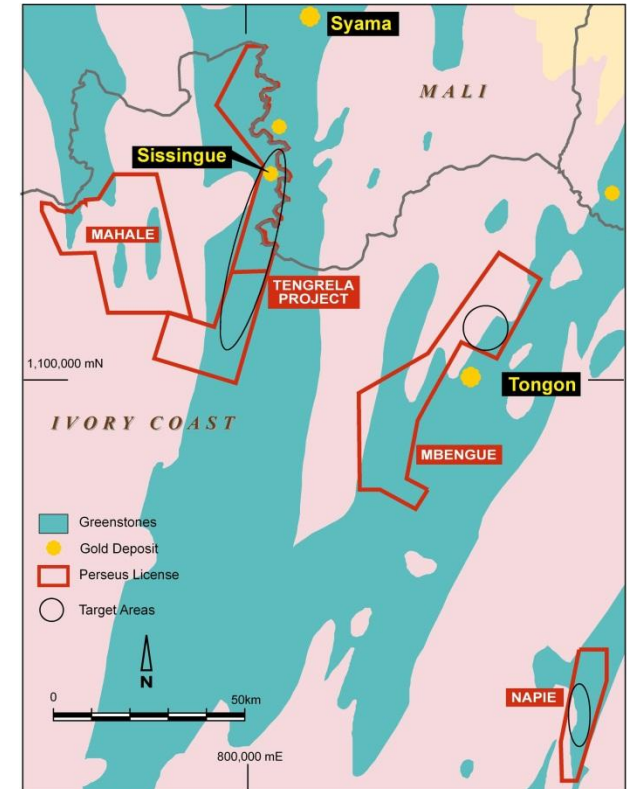


- 10,792m of drilling completed during Quarter
- Exploration Results -
  - Pokukrom - 30 m @ 2.2g/t Au from 42m
  - Dadieso - 14.5m @ 7.4g/t Au from 154.7m
- Planned Mineral Reserve Upgrade in June 2013 Quarter





- 24,564 m of drilling completed
- Exploration Results from Sissingué deposit included:
  - 2m @24.2g/t from surface
  - 2m @ 13.7g/t from 14m
  - 2m @ 35.6g/t from 74m
- Extensional drilling at Sissingué included:
  - 27.7m @7.0g/t from 204m and
  - 19.2m @ 9.4g/t from 253.8m
- Mbengué Permit
  - 22,000m aircore programme has started to test anomaly 7 km north of Tongon
  - Early intercepts include 4m @ 5.2g/t, 3m @ 7g/t, 7m at 2.3g/t and 20m @ 0.8g/t
- Planned Mineral Resource upgrade in March Quarter 2013 to include recent infill drilling at Sissingué





- Available cash at 31 December 2012 was A\$39.7M and bullion holdings on site and at refinery totaled 11,785oz of gold valued at a further A\$18.9M
- Undrawn line of credit with a limit of US\$100M and term to December 2015
- Hedge commitment reduced to 216,000oz at average of US\$1,374/oz
- Full Management Discussion and Analysis (MD&A) and Financial Statements for the three months and six months to 31 December 2012 to be released to ASX and TSX on about 15 February 2013



# Perseus

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