

April 23, 2014

### FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements. Forward-looking statements involve known and unknown risks, uncertainties and assumptions and accordingly, actual results and future events could differ materially from those expressed or implied in such statements. You are hence cautioned not to place undue reliance on forward-looking statements. Forward-looking statements include words or expressions such as "outlook", "expected", "guidance", "objective", "developing", "will", "promising", "estimated", "commitment", "strategy", "continue to", "anticipated", "ongoing", "short-term catalysts" and other similar words or expressions. Factors that could cause future results or events to differ materially from current expectations expressed or implied by the forward-looking statements include Siou and Fofina's ability to increase production and lower all-in sustaining costs, the ability to fund our exploration commitment over the Bilakongo, Tigan and Kana permits, the ability to execute on our strategy, the ability of our short-term catalysts to materialize, the ability to generate future cash flow, the ability to meet our production guidance of between 200,000 and 225,000 ounces of gold at a total cash cost of between \$695 and \$745 per ounce and an all-in sustaining cost of between \$840 and \$890 per ounce, the ability to meet our guidance with respect to ore processed, head grade, recovery, total operating cost/tonne, the ability to incur \$30.6 million of sustaining capital expenditures and \$17.9 million of growth capital expenditures, the ability to keep our general and administrative expenditures at \$16 million, the ability to optimize and improve efficiencies throughout the Corporation, the ability to spend \$18 million in exploration in 2014, fluctuation in the price of currencies, gold or operating costs, mining industry risks, uncertainty as to the calculation of mineral reserves and resources, delays, political and social stability in Africa (including our ability to maintain or renew licenses and permits) and other risks described in SEMAFO's documents filed with Canadian securities regulatory authorities. You can find further information with respect to these and other risks in SEMAFO's 2013 Annual MD&A and other filings made with Canadian securities regulatory authorities and available at www.sedar.com. Documents are also available on our website at www.semafo.com. These forward-looking statements are dated as of April 16, 2014 and we disclaim any obligation to update or revise these forward-looking statements, except as required by applicable law.

We also advise you that the terms "Inferred Resources" and "Indicated Resources", although recognized and required by the Canadian Securities Administrators, are not recognized by the US Securities and Exchange Commission. There is no certainty that Inferred Resources or Indicated Resources will be economically mineable. All mineral resources are exclusive of mineral reserves.

In this presentation, all amounts are in US dollars unless otherwise indicated.



### **OVERVIEW**

- Operator of the high potential Mana mine, Burkina Faso
  - Large highly prospective land package totalling 2,327 km<sup>2</sup>
  - Strong exploration program
  - 2.3M oz in reserves @ 2.81 g/t Au (December 31, 2013)
  - 2013 production: 158,600 oz at a total cash cost of \$777/oz
  - 2014 outlook: 200,000 225,000 oz at a total cash cost of \$695-\$745/oz
  - Increased production and lower all-in sustaining costs are expected as a result of mining of high-grade Siou and Fofina deposits
- No debt, cash position: \$83M (as at December 31, 2013)



## MANA: EXTENSIVE PROPERTY

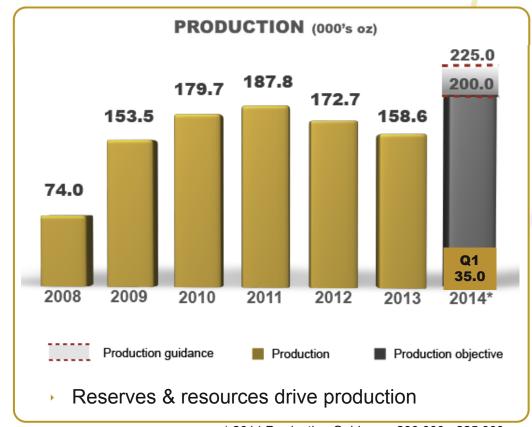


### PROVEN TRACK RECORD

SEMAFO's management and operations team comprises high-caliber individuals with a wide range of experience and expertise and a proven track record

- Exploration
- Discovery
- Development
- Construction
- Production
- Expansion
- 18 years of experience in West Africa

ExperiencedTeam Committedto Delivering Results



\* 2014 Production Guidance: 200,000 - 225,000 oz. Q1 2014 numbers are preliminary and subject to final adjustment.



## **2013 ACHIEVEMENTS**

Objectives 2013	Achievements 2013
<ul> <li>Maximize organic growth</li> <li>Focus exploration on: <ul> <li>Adding Siou to reserves</li> <li>Expanding Siou Sector</li> <li>20-km radius of the plant</li> </ul> </li> </ul>	Added 769,300 ounces @ 4.94 g/t Au to reserves in September Increased Mana reserves by 24% and average grade by 22% Apex North/Siou intrusive context
<ul> <li>Potential new targets in the vicinity of the plant</li> </ul>	<ul> <li>✓ New Pompoi Nord permit (61 km²)</li> <li>✓ Invested \$21.4 million in exploration</li> </ul>
<ul> <li>Initiating the permitting process for Siou</li> </ul>	<ul> <li>✓ Initiated permitting process with NI 43-101 in September</li> <li>✓ Received authorization to begin development in November</li> <li>✓ Accelerated Siou development</li> <li>✓ Commenced construction of 17-km road to the plant</li> <li>✓ Commenced pre-stripping activities in December</li> </ul>



# **2013 ACHIEVEMENTS**

Objectives 2013	Achievements 2013	
<ul> <li>Deliver solid operational performance</li> <li>Production guidance at Mana of 153,000–168,000 oz at a total cash cost of \$805-\$855/oz</li> </ul>	<ul> <li>✓ Produced 158,600 oz at a total cash cost of \$777/oz</li> <li>✓ Achieved sixth consecutive year of production guidance</li> </ul>	
<ul> <li>Established CAPEX budget of \$83M</li> </ul>	✓ Invested CAPEX of \$83M	
<ul> <li>Optimize and improve efficiencies</li> <li>By conducting internal reviews to improve efficiency</li> </ul>	<ul><li>✓ Reduced headcount</li><li>✓ Reduced G&amp;A</li></ul>	
Through rigorous cost management	Realized significant operational savings	
By reviewing strategic alternatives for Samira Hill and Kiniero assets	<ul> <li>✓ Sold Samira Hill property in December 2013</li> <li>✓ Wound down operations at Kiniero (to care and maintenant in Q1 2014) and for sale</li> </ul>	ce

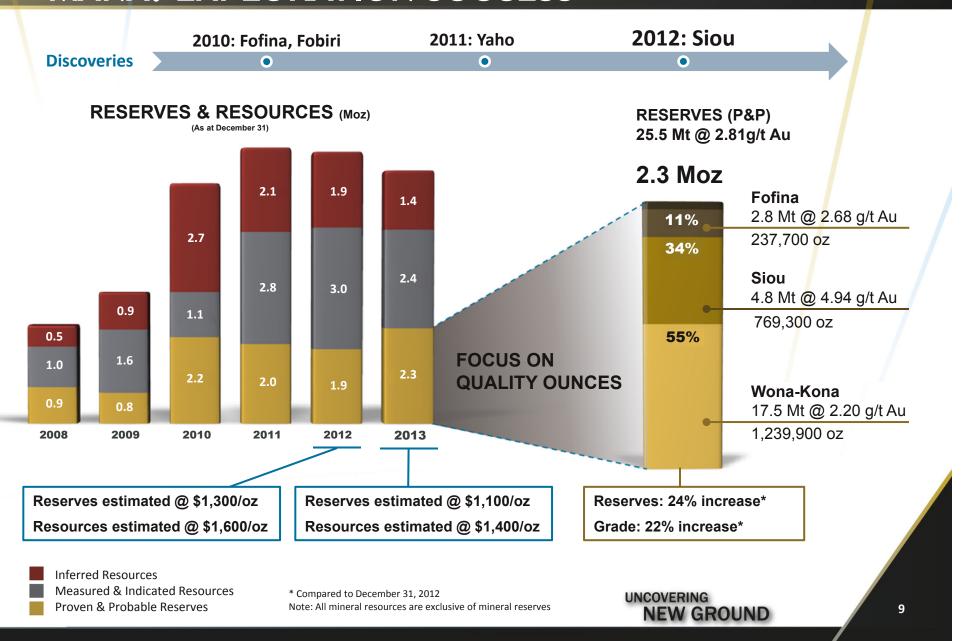


## STRATEGY: GENERATE FUTURE CASH FLOW

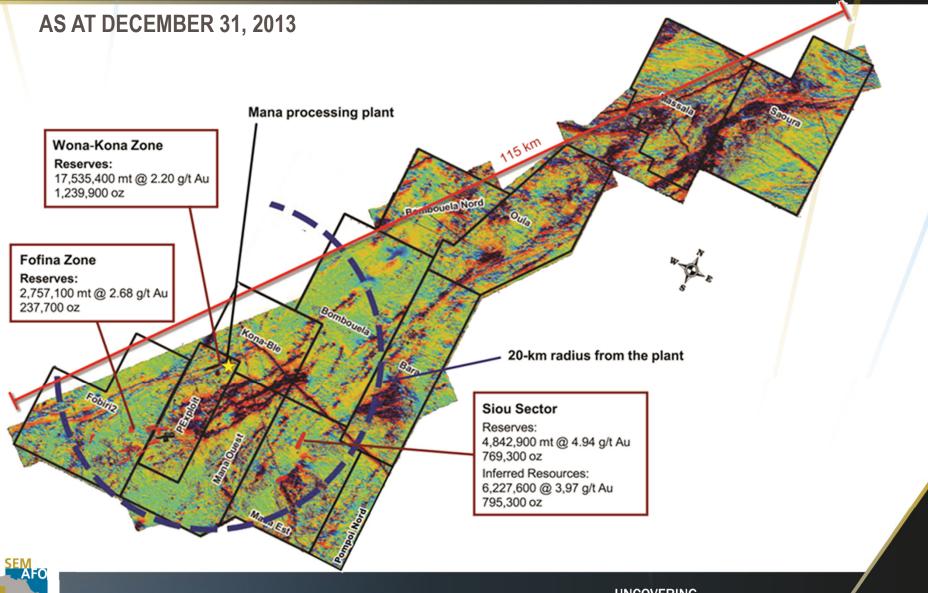
**Cost control and optimization programs** Production realizes value **Disciplined capital allocation** Solid balance sheet **Exploration & discovery** build future cash flow Strong operational performance Create value by generating future cash flow **Disciplined exploration Quality ounces** 



### MANA: EXPLORATION SUCCESS



## MANA: PRIORITY FOR GROWTH - SIOU



### SEMAFO'S MOST IMPORTANT DISCOVERY

# SIOU

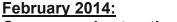
P&P reserves: 4.8 Mt @ 4.94 g/t Au (769,300 oz)
Inferred resources<sup>1</sup>: 6.2 Mt @ 3.97 g/t Au (795,300 oz)
96% gold recovery (CIL)



- Reserves to a depth of ≈180 meters
- Zone dips 45 to 60 degrees
- Siou Sector thickness averages between 4 to 4.5 m
- Open laterally and at depth
- Located 15 km from Mana processing plant, within trucking distance
- Minimally affected by variations in the price of gold



## SIOU: A WELL-EXECUTED PLAN



Commenced extraction, transportation of ore to the plant and processing

#### November 2013:

Governmental authorization to start development and road construction

September 2013: Announced reserves at \$1,100/oz: 4.8MT @ 4.94 g/t Au (769,000 oz). Inferred resources at \$1,400/oz: 6.2MT @ 3.97 g/t Au (795,300 oz)

**Q2 2013:** Delineation drilling program for reserves to 180 m deep

### March 2013:

In-pit inferred resources of 1M oz

#### **August 2012:**

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Discovery of high-grade Siou

2012 2013 2014

18 months from discovery to production



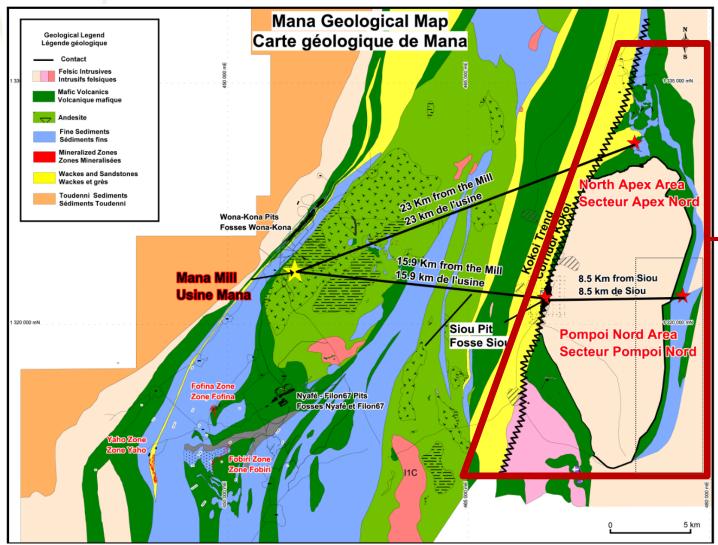
# **DEVELOPING SIOU**



## SIOU MAIN VEIN



## MANA: EXPLORATION FOCUS

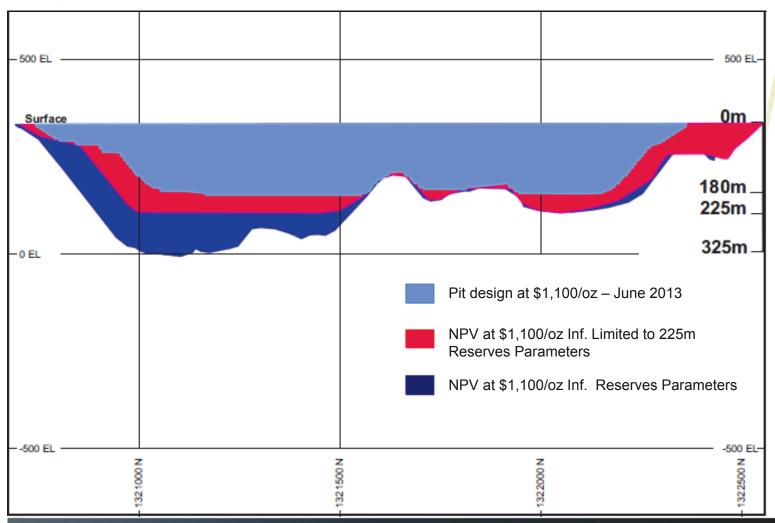


2014
Exploration
Focus –
Initial Budget:
\$18M



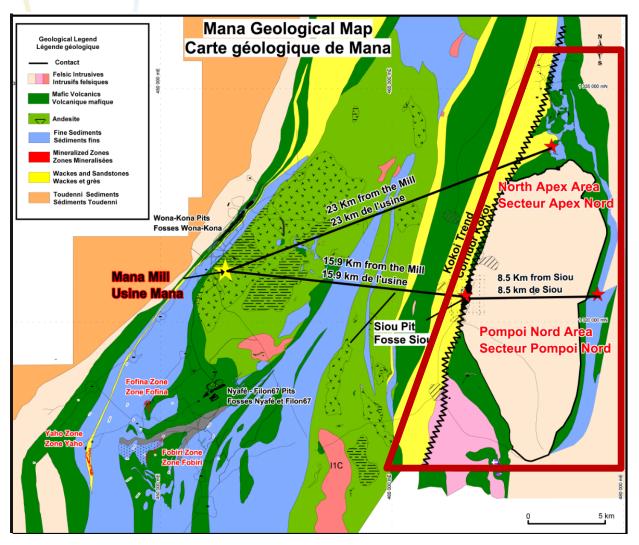
### SIOU - OBJECTIVE: INCREASING RESERVES

In 2014: 24,000 meters of infill drilling planned, focusing on 180-225 meters (\$4M)





## **EXPLORATION PRIORITY: SIOU INTRUSIVE**

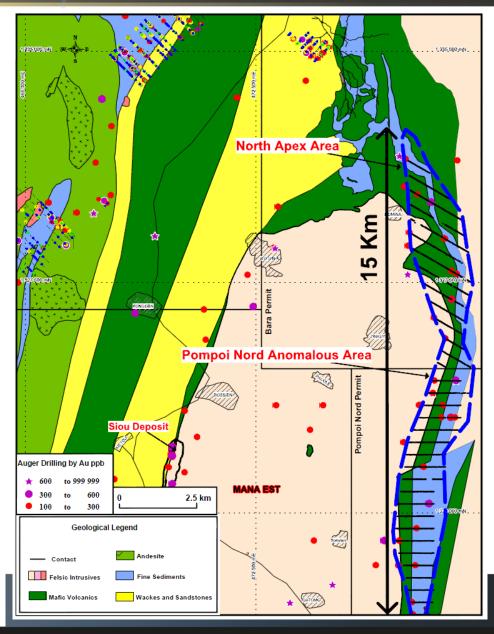


The balance of the exploration budget (\$14M) will be allocated as follows:

- ► 103,000 m of RC drilling
- 290,000 m of auger drilling
- ► 8,400 soil samples



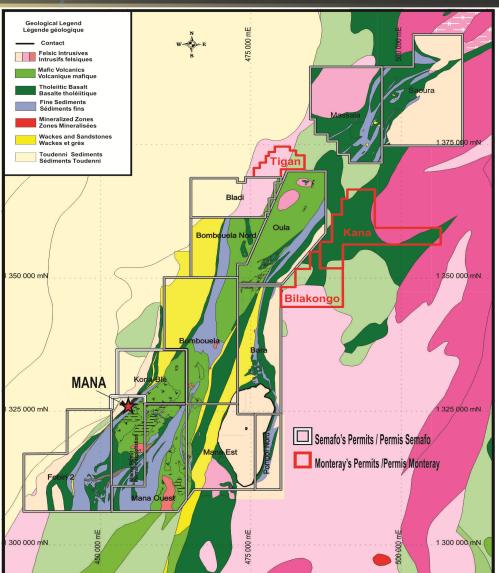
### **NEW 15-KM GEOCHEMICAL ANOMALY TREND**



- Promising 15-kilometer geochemical anomaly trend
- New anomalies overlap with the North Apex soil anomalies
- Trend remains open in both directions
- Auger assay results range up to 1,020 ppb
- Trend continuity and strike length make it a top priority target for follow-up RC drilling starting in March 2014

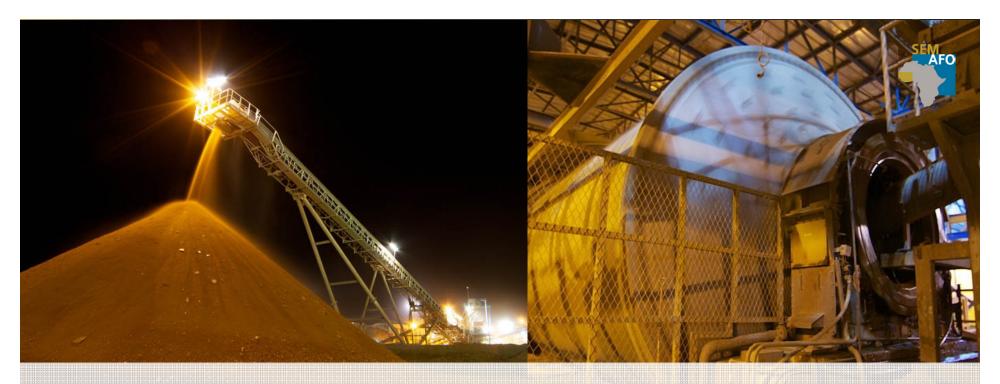


# FARM-IN AGREEMENT OVER THREE PERMITS OWNED BY MONTERAY MINING GROUP LIMITED



- Bilakongo, Tigan and Kana permits: northeast of Mana
- Three-year working rights
- Option to acquire:
  - 90% interest on Bilakongo and Tigan
  - 100% interest on Kana
- Total exploration funding commitment over three years:
  - **\$800,000**
- Cash payments:
  - **\$230,000**





# OPERATING ON A SOLID FOUNDATION



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### MANA: PRODUCTION AND GUIDANCE

Siou and Fofina will account for 30% and 16% of the mill feed, respectively, in 2014. In 2015, Fofina and Siou will contribute to the mill feed throughout the year.

	2013	2014 GUIDANCE Including Wona-Kona, Siou and Fofina
Ore processed (t)	2,834,500	2,494,500
Head grade (g/t)	1.99	3.00
Recovery (%)	86	90
Total gold ounces produced (K)	158.6	200-225
Total operating cost/tonne (\$)	40	≈ 58
Total cash cost/ounce <sup>(1)</sup> (\$)	777	695-745



### 2013 – Sixth consecutive year of achieving production guidance



(1) Total cash cost per ounce is a non-IFRS financial performance measure with no standard definition under IFRS and represents the mining operation expenses and government royalties per ounce sold.

# MANA: 2014 ESTIMATED CAPEX AND PRODUCTION GUIDANCE

- ► 2014 production guidance: 200,000 225,000 oz
  - Total cash cost<sup>(1)</sup>: \$695 \$745 per ounce
  - All-in sustaining cost<sup>(2)</sup>: \$840 \$890 per ounce

Estimated CAPEX (in millions of \$)	
Sustaining Capital – 2014	10.1
Stripping Costs	12.1
Sustaining Capital – 2013 Deferred	8.4
<b>Total Sustaining Capital Expenditures</b>	30.6
Siou Development*	12.4
Fofina Development*	5.5
Total Growth Capital Expenditures	17.9

<sup>\*</sup> Includes initial pre-stripping.



<sup>(1)</sup> Total cash cost per ounce is a non-IFRS financial performance measure with no standard definition under IFRS and represents the mining operation expenses and government royalties per ounce sold.

<sup>(2)</sup> All-in sustaining cost is a non-IFRS financial performance measure with no standard definition under IFRS and represents the total cash cost, plus sustainable capital expenditures and prestripping costs per ounce.

### Q1 2014 HIGHLIGHTS

- Bulk test results from Siou confirm reserves block model
- Commenced pre-stripping at Fofina, one quarter ahead of schedule
- Siou began to have a positive impact on Mana's overall head grade

		PRODU	CTION <sup>1</sup>	
	TONNES	HEAD GRADE	RECOVERY	OUNCES PRODUCED
Q1	642,000	1.93	88%	35,100
	March (Includ	des ore from Siou)		
	222,330	2.64↑	92% ↑	17,300

<sup>(1)</sup> Numbers are preliminary and are subject to final adjustment.



### SEMAFO'S STRATEGY

### IN A VERY VOLATILE GOLD PRICE ENVIRONMENT

- Continue to pursue cost control and optimization programs
  - Reduced our G&A trimmed corporate office by 30% in 2013 \$16M budgeted for 2014
  - Total cash cost<sup>(1)</sup> per ounce: \$695 \$745 per ounce; lower than 2013: \$777/oz
- Restrict funding to exploration projects with a focus on quality ounces
   initial 2014 budget of \$18M
- Focus on maintaining financial flexibility
  - Solid financial position, debt-free, cash of \$83M (as at December 31, 2013)
  - Siou minimally affected by gold price variations
  - Siou capital expenditures: \$12.4M (including \$2.6M in pre-stripping)
  - Fofina capital expenditures: \$5.5M production anticipated this month



(1) Total cash cost per ounce is a non-IFRS financial performance measure with no standard definition under IFRS and represents the mining operation expenses and government royalties per ounce sold.

### SHORT-TERM CATALYSTS

- Bring Siou to full mining rate in Q2
- Begin processing ore from Fofina in Q2
- Focus our exploration efforts in the vicinity of the Siou Intrusive:
  - 15-km geochemical anomaly trend
    - → With the objective to find quality ounces
- Continue to expand our project pipeline
- Ongoing optimization programs



### IN SUMMARY

### Committed to creating value by generating future cash flow

- Disciplined exploration program focused on the vicinity of the Mana processing plant
- Highly prospective Mana property 2,327 km²

### Solid balance sheet

- \$83M in cash (as at December 31, 2013)
- Debt-free

### Successful track record

- Sixth consecutive year of achieving production guidance
- Time to bring Siou from discovery to production: 18 months
- Significant cost containment and optimization in 2013, and ongoing



### **RESPONSIBLE MINING - CSR**

SEMAFO remains committed to making significant contributions to improving the quality of life in the communities in which we operate.





- Fondation SEMAFO focuses primarily on developing education, health and revenuegenerating programs and projects.
- SEMAFO pledges to contribute up to 2% of its net income to support Fondation SEMAFO.

### **Together for a Better Society**

A national radio campaign in Burkina Faso aimed at raising awareness and providing information to favor development





## **SEMAFO**

#### TSX, OMX: SMF

Average Daily Trading Volume <sup>(1)</sup>	•	3.9M
Close	<b>)</b>	C\$3.93*
Market Cap	>	C\$1.1B*
Cash (As at December 31, 2013)	<b>&gt;</b>	\$83M
No Debt		

\*As at April 16, 2014

#### O/S 276M SHARES



# Geographic Distribution of Shares (2)



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## **APPENDICES**







UNCOVERING NEW GROUND

# 2013 RESULTS

(in thousands of US dollars)	2013	2012
Revenues – Gold sales	226,618	287,209
Mining operating expenses	114,595	113,789
Government royalties	10,798	14,334
Write-down and other	82,283	92,615
Operating income	18,942	66,471
Income tax expense	5,709	19,705
Net income (loss) from continuing operations <sup>(1)</sup>	(9,227)	14,927
- per share	(0.03)	0.06
Cash flow from operating activities from continuing operations	77,562	113,944
- per share	0.28	0.42

<sup>&</sup>lt;sup>1</sup> Attributable to equity shareholders



# MANA

	2013	2012	
Operating Data			_
Ore mined (tonnes)	2,762,700	2,712,200	
Ore processed (tonnes)	2,834,500	2,738,000	
Head grade (g/t)	1.99	2.25	
Recovery (%)	86	87	
Gold ounces produced	158,600	172,700	
Total cash cost (per ounce sold)	777	750	
Cash operating cost (per tonne processed)	40	42	
Financial Data (in thousands of US dollars)			
Revenues – Gold sales	226,618	287,209	
Mining operations expenses	114,595	113,789	
Government royalties	10,798	14,334	
Depreciation	57,423	45,502	
Write-down and other	4,675	21,485	
Segment operating income	39,127	92,099	
Average realized selling price (per ounce)	1,405	1,682	



### MANA PROPERTY<sup>1,2,4</sup> – MINERAL RESERVES AND RESOURCES (As at December 31, 2013)

The following table states the Corporation's mineral reserves and resources as at December 31, 2013.

				DEC	EMBER 31	,2013			
DEPOSITS	PROV	EN RESER	RVES	PROBA	BLERESE	RVES	TOTAL	RESERV	ES
	Tonnage	Grade (g/t Au)	Ounces	Tonnage	Grade (g/t Au)	Ounces*	Tonnage	Grade (g.t Au)	Ounces*
WONA-KONA	8,216,300	227	599,900	9,319,100	2.14	640,000	17,535,400	2.20	1,239,900
NYAFÉ	262,600	5.85	49,400	4,100	5.02	700	266,700	5.84	50,100
FOFINA	1,742,300	2.53	141,600	1,014,800	2.94	96,100	2,757,100	2.68	237,700
SIOU	3,394,400	5.55	605,500	1,448,500	3.52	163,800	4,842,900	4.94	769,300
ROMPAD	114,000	1.50	5,500	0	0.00	0	114,000	1.50	5,500
TOTAL MANA	13,729,600	3.18	1,401,900	11,786,500	2.38	900,600	25,516,100	2.81	2,302,500

				DEC	EMBER 31	1, 2013			
DEPOSITS	М	EASURED		11	IDICATED		TOTAL	RESOUR	CES
	Tonnage	Grade (g/t Aul)	Ounces*	Tonnage	Grade (g/t Au)	Ounces®	Tonnage	Grade (g/t Au)	Ounces
WONA-KONA	928,600	2.65	79,100	16,100,500	2.90	1,499,600	17,029,100	2.88	1,578,700
NYAFÉ	300,200	5.60	54,100	229,500	5.84	43,100	529,700	5.71	97,200
FOFINA	519,400	1.92	32,000	555,700	4.04	72,200	1,075,100	3.01	104,200
YAHO	4,654,400	1.05	157,200	9,895,200	0.99	316,200	14,549,600	1.01	473,400
FILON 67	26,100	2.72	2,300	8,900	3.59	1,000	35,000	2.93	3,300
FOBIRI	468,900	1.80	27,100	114,200	1.52	5,600	583,100	1.74	32,700
siou	241,200	1.22	9,500	1,832,100	2.49	146,700	2,073,300	2.34	156,200
TOTAL MANA	7,138,800	1.57	361,300	28,736,100	2.26	2,084,400	35,874,900	2.12	2,445,700

	DECEM	1B ER 31, :	2013
DEPOSITS	INI Tonnage	FERRED Grade (g/t Au)	Ounces
WONA-KONA	4,441,100	2.80	399,500
NYAFÉ	150,800	5.86	28,400
FOFINA	210,500	5.36	36,300
YAHO	470,800	1.45	22,000
FILON 67	5,500	6.32	1,100
FOBIRI	577,600	1.39	25,800
MAOULA	2,628,200	1.62	137,100
SIOU	6,227,600	3.97	795,300
TOTAL MANA	14,712,100	3.06	1,445,500



The Corporation indirectlyowns 90% of SBMAFO Burkina, which directlyholds the interest in the Mana Mine reserves and resources.

Mineral reserves and resources were estimated using a gold price of \$1,100 and \$1,400 per ounce respectively.

Rounding of numbers to the nearest hundreds of tonnes may present slight differences in the figures representing the ounces contained.

All mineral resources reported are exclusive of mineral reserves. All mineral reserves and resources are net of mining depletion.

# Ē OF MINE SIMULATION \*

765	580	649	1,025	All-in sustaining cost <sup>3</sup> (\$/oz)
139,157,830	15,000,000	15,000,000	15,000,000	Sustaining capital (\$)
155,997,000	12,935,000	24,598,000	23,510,000	Pre-stripping costs (\$)
621	476	490	778	Total cash cost per ounce <sup>2</sup> (\$)
44	45	44	45	Cash operating cost per tonne <sup>1</sup> (\$)
2,056,337	268,780	248,581	156,152	Gold recovered (oz)
86%	91%	90%	84%	Rесоvегу (%)
2.77	3.60	3.45	2.29	Head grade (g/t)
26,830,000	2,547,000	2,485,000	2,519,000	Ore processed (t)
89,103,000	8,441,000	14,416,000	13,678,000	Pre-stripping waste (t)
232,275,000	28,474,000	23,742,000	23,290,000	Waste (t)
				Mana Consolidated
30,000	3,000	3,000		Gold recovered
				Others (Nyafé + ROM Pad)
8.7				Total strip ratio
4,555,000	731,000	-	-	Pre-stripping costs (\$)
478	331		-	Total cash cost per ounce <sup>2</sup> (\$)
32	29			Cash operating cost per tonne <sup>1</sup> (\$)
208,486	43,812			Gold recovered (oz)
88%	91%			Recovery (%)
2.68	3.55			Head grade (g/t)
2,758,000	424,000			Ore processed (t)
3,720,000	597,000	,		Pre-stripping waste (t)
20,394,000	2,170,000			Waste (t)
				Fofina
10.8				Total strip ratio
95,523,000	7,780,000	9,794,000	19,758,000	Pre-stripping costs (\$)
813	821	895	866	Total cash cost per ounce <sup>2</sup> (\$)
44	42	43	45	Cash operating cost per tonne <sup>1</sup> (\$)
1,079,335	60,194	82,124	128,723	Gold recovered (oz)
81%	81%	81%	82%	Recovery (%)
2.19	2.10	1.96	2.09	Head grade (g/t)
18,832,000	1,097,000	1,611,000	2,332,000	Ore processed (t)
51,974,000	4,433,000	5,000,000	10,753,000	Pre-stripping waste (t)
150,851,000	12,054,000	11,800,000	20,524,000	Waste (t)
				Wona-Kona
18.8				Total strip ratio
55,919,000	4,424,000	14,804,000	3,752,000	
380	383	282	364	Total cash cost per ounce <sup>2</sup> (\$)
50	56	47	46	Cash operating cost per tonne <sup>1</sup> (\$)
738,516	161,774	163,457	27,429	Gold recovered (oz)
96%	96%	96%	96%	Recovery (%)
4.94	5.45	6.56	4.75	Head grade (g/t)
4,843,000	962,000	807,000	187,000	Ore processed (t)
33,409,000	3,411,000	9,416,000	2,925,000	Pre-stripping waste (t)
57,667,000	14,250,000	11,942,000	2,766,000	Waste (t)
				Siou
Total LOM <sup>4</sup> (1-10 Years)	Year 3	Year 2	Year 1	
				LITE OF MINE SIMOLATION



Cash operating cost per tonne is a non-IFRS financial performance measure with no standard definition under IFRS and is calculated using tonnes processed.

Total cash cost per ounce is a non-IFRS financial performance measure with no standard definition under IFRS and represents the mining operation expenses and government royalties per ounce sold.

All-in sustaining cost is a non-IFRS financial performance measure with no standard definition under IFRS and represents the total cash cost, plus sustainable capital expenditures and pre-stripping costs per ounce.

<sup>\*</sup>Excerpt from the National Instrument 43-101 technical report.

