



Steve Parsons Managing Director

23 November 2011





Gryphon Minerals Forward looking statements

This presentation may contain certain forward looking statements and projections regarding:

- estimated, resources and reserves;
- planned production and operating costs profiles;
- planned capital requirements; and
- planned strategies and corporate objectives.

Such forward looking statements/projections are estimates for discussion purposes only and should not be relied upon. They are not guarantees of future performance and involve known and unknown risks, uncertainties and other factors many of which are beyond the control of Gryphon Minerals Limited. The forward looking statements/projections are inherently uncertain and may therefore differ materially from results ultimately achieved.

Gryphon Minerals Limited does not make any representations and provides no warranties concerning the accuracy of the projections, and disclaims any obligation to update or revise any forward looking statements/projects based on new information, future events or otherwise except to the extent required by applicable laws.

The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr Stephen Parsons, who is a Member of The Australasian Institute of Mining and Metallurgy. Mr Stephen Parsons is a full-time employee of the company. Mr Stephen Parsons has sufficient experience which is relevant to the style of mineralisation and type of deposits 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'. Mr Stephen Parsons consent to their inclusion in the report of the matters based on his information in the form and context in which it appears.

Information in this report from data collection to wireframe interpretation, at Nogbele and Fourkoura Prospects and geostatistical modelling calculations is based on work by Mr Sam Brooks which was reviewed by Mr Michael Fox. Mr Brooks is a full time employee of Gryphon Minerals, and a member of the AIG. Mr Fox is a full time employee of Gryphon Minerals and a member of the AIG with sufficient experience relevant to the style of mineralisation and type of deposit to qualify as competent person defined by the 2004 Edition of the "Australian Code for Reporting of Mineral Resources and Ore Reserves". Mr Fox consents to the inclusion in this report of the matters based on information in the form and context in which it appears.



Gryphon Minerals International offer restrictions

Disclaimer language for Presentation

The following disclaimer applies to this document and any information provided regarding information contained in this document. You are advised to read this disclaimer carefully before reading or making any other use of this document or any information contained in this document. In accepting this document, you agree to be bound by the following terms and conditions and including any modifications to them.

General Information

This presentation has been prepared for the purposes of providing information to the recipient regarding Gryphon Minerals Limited (**Gryphon** or the **Company**). It does not, and does not purport to, contain all the information that the recipient may require to evaluate the Company. It should be read in conjunction with Gryphon's other periodic and continuous disclosure announcements, which are available at www.asx.com.au.

This presentation has been provided to recipients for information only and on the express understanding that they shall use it only for the purpose set out above. Subject to any continuing obligations under applicable law or any relevant listing rules of the Australian Securities Exchange, Gryphon disclaims any obligation or undertaking to disseminate any updates or revisions to any forward looking statements in these materials to reflect any change in expectations in relation to any forward looking statements or any change in events, conditions or circumstances on which any such statement is based.

Not a prospectus

This presentation is not a prospectus or a product disclosure statement under the Corporations Act 2001 (Cth) (Corporations Act) and has not been lodged with the Australian Securities and Investment Commission (ASIC). The offer of Gryphon ordinary shares (New Shares) to which this presentation relates will only be made to persons to whom offers can be made without a prospectus in accordance with Chapter 6D.2 of the Corporations Act.

Disclaimer

No representation or warranty is given as to, and the recipient must not rely on, any information, statement or opinion contained in this presentation, or its accuracy, reasonableness or completeness. Except for statutory liability which cannot be excluded, each of Gryphon, its affiliates, directors, employees, advisers and agents expressly disclaims any responsibility for the accuracy or completeness of the material contained in this presentation and excludes all liability whatsoever for any loss or damage of any kind arising as a result of the use of, or reliance on, the information in this presentation.

This presentation does not take into account the investment objectives, financial situation or particular needs of any investor, potential investor or any other person. No investment decision should be made in reliance on this presentation. Independent financial and taxation advice should be sought before making any investment decision.

Foreign offer restrictions

The distribution of this document in jurisdictions outside of Australia may restricted by law and you should observe any such restrictions. This presentation is not for distribution in, nor does it constitute an offer of securities for sale in any jurisdiction where such distribution or offer is unlawful. Neither this presentation nor a copy of the presentation can be taken or transmitted into the United States of America, its territories or possessions, or distributed, directly or indirectly, in the United States of America, its territories or possessions or to any US person as defined in Regulation S under the US Securities Act 1933, as amended (the **Securities Act**). Any failure to comply with this restriction may constitute a violation of United States securities laws. The presentation and any oral statements made in connection with it are not an offer of securities for sale in the United States.

New Shares may not be offered or sold in any country outside Australia except to the extent permitted below.



Gryphon Minerals International offer restrictions

Canada

This document constitutes an offering of New Shares only in such Provinces of Canada (the Provinces) and to those persons to whom they may be lawfully distributed in the Provinces, and only by persons permitted to sell such New Shares. This document is not, and under no circumstances is to be construed as, an advertisement or a public offering of securities in the Provinces.

This document may only be distributed in the Provinces to persons that are "accredited investors" within the meaning of NI 45-106 – Prospectus and Registration Exemptions, of the Canadian Securities Administrators.

No securities commission or similar authority in the Provinces has reviewed or in any way passed upon this document, the merits of the New Shares or the offering of New Shares and any representation to the contrary is an offence.

No prospectus has been, or will be, filed in the Provinces with respect to the offering of New Shares or the resale of such securities. Any person in the Provinces lawfully participating in the offer will not receive the information, legal rights or protections that would be afforded had a prospectus been filed and receipted by the securities regulator in the applicable Province. Furthermore, any resale of the New Shares in the Provinces must be made in accordance with applicable Canadian securities laws which may require resales to be made in accordance with exemptions from dealer registration and prospectus requirements.

The Company, and the directors and officers of the Company, may be located outside Canada, and as a result, it may not be possible for Canadian purchasers to effect service of process within Canada upon the Company or its directors or officers. All or a substantial portion of the assets of the Company and such persons may be located outside Canada, and as a result, it may not be possible to satisfy a judgment against the Company or such persons in Canada or to enforce a judgment obtained in Canadian courts against the Company or such persons outside Canada.

Any financial information contained in this document has been prepared in accordance with Australian Accounting Standards and also comply with International Financial Reporting Standards and interpretations issued by the International Accounting Standards Board. Unless stated otherwise, all dollar amounts contained in this document are in Australian dollars.

Statutory rights of action for damages or rescission

Securities legislation in certain of the Provinces may provide purchasers with, in addition to any other rights they may have at law, rights of rescission or to damages, or both, when an offering memorandum that is delivered to purchasers contains a misrepresentation. These rights and remedies must be exercised within prescribed time limits and are subject to the defences contained in applicable securities legislation. Prospective purchasers should refer to the applicable provisions of the securities legislation of their respective Province for the particulars of these rights or consult with a legal adviser.

Certain Canadian income tax considerations

Prospective purchasers of the New Shares should consult their own tax adviser with respect to any taxes payable in connection with the acquisition, holding, or disposition of the New Shares as any discussion of taxation related maters in this document is not a comprehensive description and there are a number of substantive Canadian tax compliance requirements for investors in the Provinces.

Language of documents in Canada

Upon receipt of this document, each investor in Canada hereby confirms that it has expressly requested that all documents evidencing or relating in any way to the sale of the New Shares (including for greater certainty any purchase confirmation or any notice) be drawn up in the English language only. Par la réception de ce document, chaque investisseur canadien confirme qu'il a que que ce par les présentes qu'il expressément exigé tous les documents faisant foi ou se rapportant de quelque manière soit à la vente des valeurs mobilières décrites aux présentes (incluant, pour plus de certitude, toute confirmation d'achat ou tout avis) soient rédigés en anglais seulement.

Gryphon Minerals Investment highlights



- ☑ Dominant & strategic landholdings in Burkina Faso & Mauritania
- Inferred resource estimate of 29Mt @ 2.1g/t for 2,000,000oz gold
- ☑ Shallow, outcropping and open along strike and at depth
- ☑ Pipeline of new & exciting targets
- ☑ Engineering studies completed with a clear path to gold production
- ✓ Aggressive exploration budget
- Experienced management with a history of discoveries & mining in West Africa



Gryphon Minerals Offer summary

	- Total Capital Raising of up to A\$68.5m, comprising:
Offer Size	- Placement of 45m shares raising A\$58.5m (within the Company's 15% placement capacity);
	- Share Purchase Plan for a maximum of A\$10m
Offer Price	- Placement and SPP price of A\$1.30 per Share
Terms	- Offer comprises a s708 placement of 45m shares
	- SPP maximum of A\$10m
	- Euroz Securities Limited and Paradigm Capital Inc. appointed Joint Lead Managers
	- RBC Capital Markets, Canaccord BGF Limited and Global Hunter Securities LLC appointed Co- Managers
	- Max Capital Pty Ltd acted as Corporate Advisor
Use of Funds	- Resource and reserve drilling at Banfora Gold Project
	- Exploration at Banfora Gold Project
	- Advancement of DFS at Banfora Gold Project
	- Mauritanian projects exploration
	- Ongoing working capital requirements and potential acquisitions



Gryphon Minerals Use of funds

Total Funds	A\$
Existing Funds (Sept '11 Quarterly)	\$41m
New Placement Funds	\$58.5m
Total Placement and Existing Funds	\$100m
SPP Proceeds	\$10m
Use of Funds	A\$
Resource & Reserve definition at Banfora Gold Project	\$15m
Step out and deeper drilling at Banfora Gold Project	\$15m
Regional Exploration - Banfora Gold Project	\$15m
Definitive Feasibility Studies - Banfora Gold Project	\$10m
Capital equipment (Procure long lead items, preliminary site works)	\$20m
Regional Exploration - Mauritania	\$10m
Working capital & potential acquisitions	\$14.5m
Total Placement and Existing Funds	\$100m
SPP proceeds to be applied to working capital and potential acquisitions	\$10m



Gryphon Minerals Indicative timetable

Action	Date

Trading Halt Monday 21 November

Record date for SPP

Tuesday 22 November

ASX announcement and return to trade: pre market Wednesday 23 November

Settlement of placement Wednesday 30 November

Allotment of placement shares Thursday 1 December

New shares commence trading on the ASX Friday 2 December

NB 1: SPP applicable date & detail pending, \$10m maximum

NB 2: This timetable is indicative only, and subject to change without notice



Gryphon Minerals Corporate snapshot

Pro-forma Capital Structure* (ASX:GRY) S&P/ASX200		Board		
* Excludes proposed SPP Shares	345M	Mel Ashton	Non-Exec Chairman B.Com, FCA, FAICD	
Cash (Sept '11 qtly & Placement Funds)	A\$100M	Steve Parsons	Managing Director B.Sc (Hons) Geology, MAusIMM	
Excellent Liquidity	1.5M+ shares/day	Didier Murcia	Non-Exec Director LLB, BJuris Hon Consul Tanzania	
Placement Price	A\$1.30	Steven Zaninovich	Non-Exec Director BSc Eng	
Market Capitalisation	~A\$449M	David Netherway		
Institutional shareholders	80%+		Non-Exec Director B.E. (Mining), C.Dip.A.F	
Major Shareholders		Management		
100%	Management (FD) Van Eck Fund Colonial Global	Matthew Bowles Tim Holt	Chief Development Officer B.Com CPA ASA Chief Financial Officer/Co. Secretary B.Com C.	
	IFC (World Bank Group) JA Advisory Baker Steel	Brett Dunnachie	Co. Secretary B.Com CA	
	RBC Investments	Michael Fox	Exploration Manager B.Sc Geology, MAUSIMM	
Genesis Fund Macquarie Investments JP Morgan Other Australian & International Institutional &		Investments		
		an emerging Austra		
	Sophisticated Investors	~ 12% of Tawana Resources Ltd (ASX: TAW) West African gold/base metal explorer		
	Retail	110017 11110011 8010/ 1	Page 9	



Gryphon Minerals Analyst consensus

	Institutions	Analyst	Rating	Target Price
RBC	RBC	Geoff Breen (24/8/2011)	Spec buy	2.60
PARADIGM	Paradigm Capital	Jon Case (7/7/2011)	Spec buy	2.45
XRBS Morgans	RBS Morgans	James Wilson (31/8/2011)	Buy	2.36
EUR ØZ SECURITIES LIMITED	Euroz Securities	Andrew Clayton (1/9/2011)	Out perform	2.25
MorganStanley	Morgan Stanley	Brendan Fitzpatrick	Buy	2.25
⊕ Investec	Investec	Geoff Muers (19/10/2011)	Spec buy	2.20
CANACCORD BGF	Canaccord BGF	Warwick Grigor (6/5/2011)	Buy	2.20
Austock Group	Austock Securities	Anna Kassianos (14/9/2011)	Spec buy	2.19
CREDIT SUISSE	Credit Suisse	Michael Slifirski (2/11/2011)	Out perform	2.15
ARGONAUT The Natural Chairs to Resources	Argonaut	Troy Irvin (1/9/2011)	Spec buy	2.15
MACGUAFRE	Macquarie	Mitch Ryan (3/10/2011)	Spec buy	2.10
Deutsche Bank	Deutsche Bank	Levi Spry (28/9/2011)	Buy	2.05
cîtî	Citi Group	Craig Sainsbury (3/10/2011)	Buy	2.00 Page

West Africa The Gold hot spot

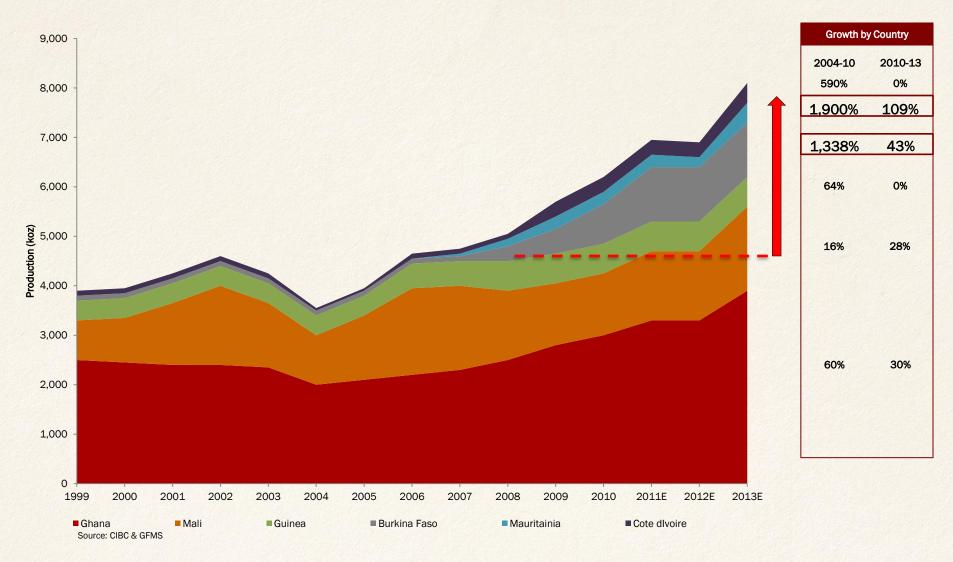


- Fastest gold growth region in the world
- Gold production set to rise +30% over next 4 years
- Host to huge +10mill oz deposits such as Obusai,
 Tarkwa, Syama, Ahafo, Sadiola, Loulo, Morilla, Tasiast
- Cash costs in West Africa typically 30% less than Australia and other places around the world



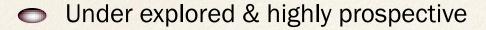
West Africa West African production







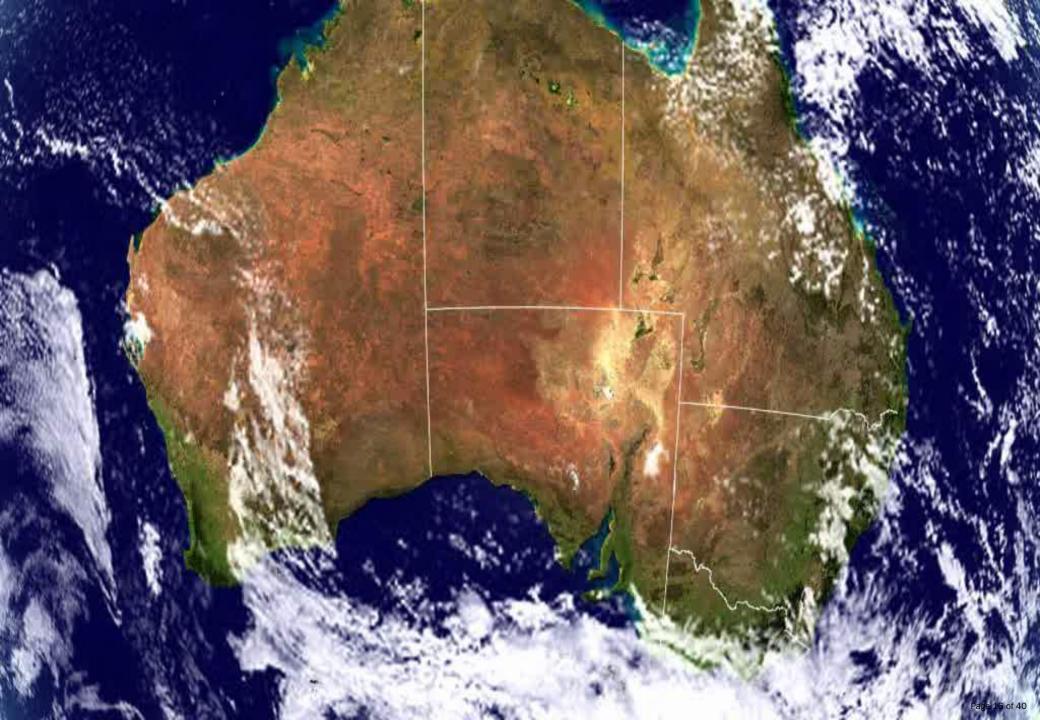






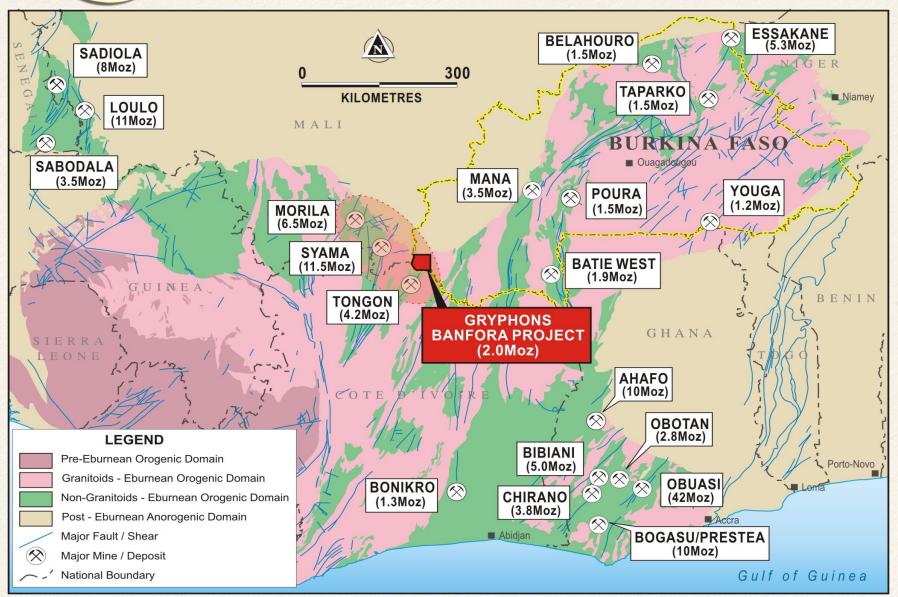
- New modern mining code "Burkina Faso is open for business" Dr Abdoulaye Cisse, previous Minister for Mines Burkina Faso
- Moved from zero gold production to 4th largest gold producer in Africa
- Strong government support
- Previously a French colony called Upper Volta
- 24 years of strong democratic government

Country	% Greenstone Belt (prospective for gold)	% of Gold oz (+1Moz Deposits)	
Ghana	20%	60%	
Mali	10%	17%	
Burkina Faso	22%	7%	
Guinea	10%	6%	
Cote d'Ivoire	35%	6%	
Senegal	3%	3%	
Total		+168Moz	



West Africa Burkina Faso





Banfora Gold Project Burkina Faso



- Substantial landholding of 1,200km² owned 100% by Gryphon Minerals
- A major gold producing district
 - 4.2 Million oz gold Tongon Randgold (30km)
 - 11.5 Million oz gold Syama Resolute (50km)
 - 6.5 Million oz gold Morila Randgold/Anglo Ashanti (75km)
- Interim Resource estimate 29Mt @ 2.1g/t for 2,000,000oz gold (ASX 31/03/11)
 - majority from surface to <100m depth
 - open at depth & along strike
 - excellent metallurgical recoveries of 93% (96% oxide & 91% sulphide)
- Aiming to establish a multi-million oz gold district in the near term
- Preliminary independent engineering studies completed
- Burkina Faso is pro-mining, with grid power & water



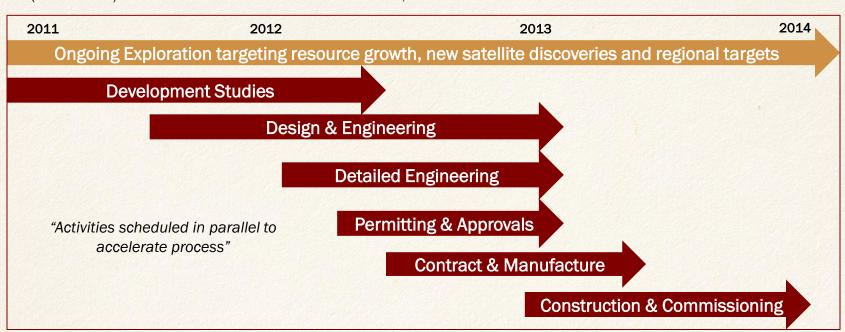
Banfora Gold Project Preliminary independent engineering studies

- Studies completed by Lycopodium Perth
 - 2.5mtpa open pit mining operation
 - conventional Carbon In Leach (CIL) processing plant
- Production first two years of
 - +180,000oz gold per annum (160,000oz LOM)
 - @ 2.6g/t gold head grade (+2g/t LOM)
 - <US\$430 cash costs (US\$610 LOM)
- Detailed feasibility has now commenced on
 - +3.5mtpa open pit mining operation
 - +200,000oz gold per annum
 - in line with anticipated resource growth in 2011/12



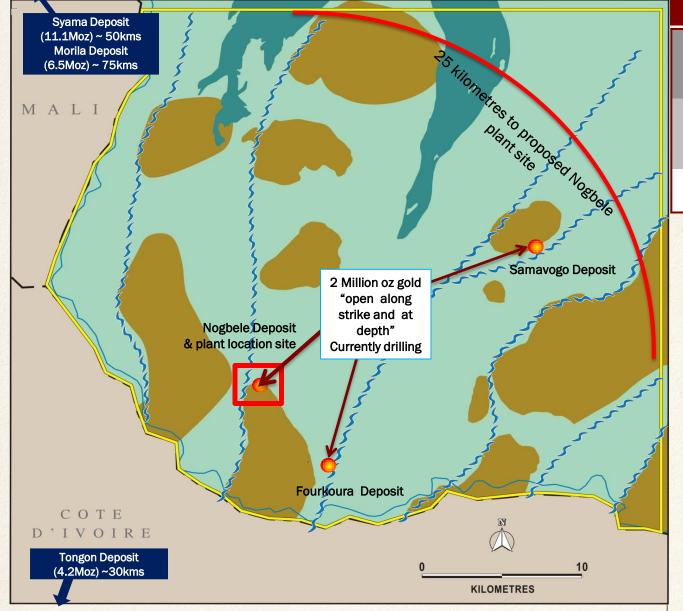
Banfora Gold Project Preliminary independent engineering studies

Consultant	Services		
In house	Project Management, initial pit designs		
Lycopodium	Process, plant & infrastructure design, project impl.		
Knight Piesold	Geotechnical, tailings and infrastructure design		
Orway Mineral Consultants	Circuit design		
AMMTEC Perth	Metallurgical test work		
Peter O'Bryan Associates	Geotechnical assessment		
Cardno & KBC	Social and Environmental assessments		
IFC (World Bank)	Environmental, Social studies		
	2010		





Banfora Gold Project 2 Million oz gold and growing



Banfora Gold Project Resource Estimate

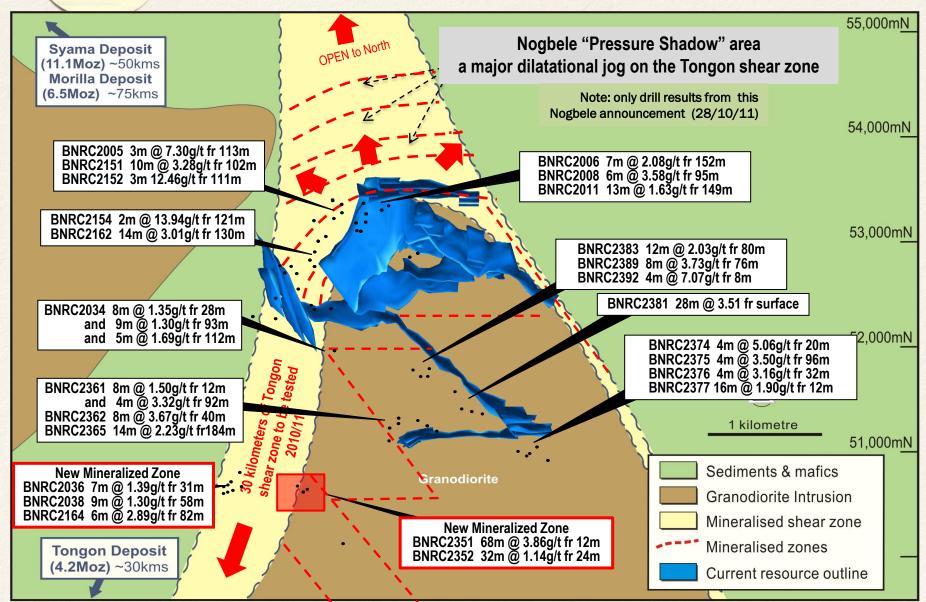
Deposit	Category	Tonnage (Mt)	Grade Au (g/t)	Contained Gold (Million Ounces)
Nogbele	Inferred	16	2.2	1.2
Fourkoura	Inferred	4.4	2.1	0.3
Samavogo	Inferred	8.2	2.0	0.5
Total		29	2.1	2.0

Refer to ASX release 31/03/11

- Project area +1200km²
- Over 120km of highly prospective regional shear zones
- So far less than 5% have been drill tested
- The first three prospects (Nogbele, Fourkoura & Samavogo) have inferred resource estimates totaling 2 Million oz gold
- Engineering studies show plant location at the Nogbele Gold Deposit

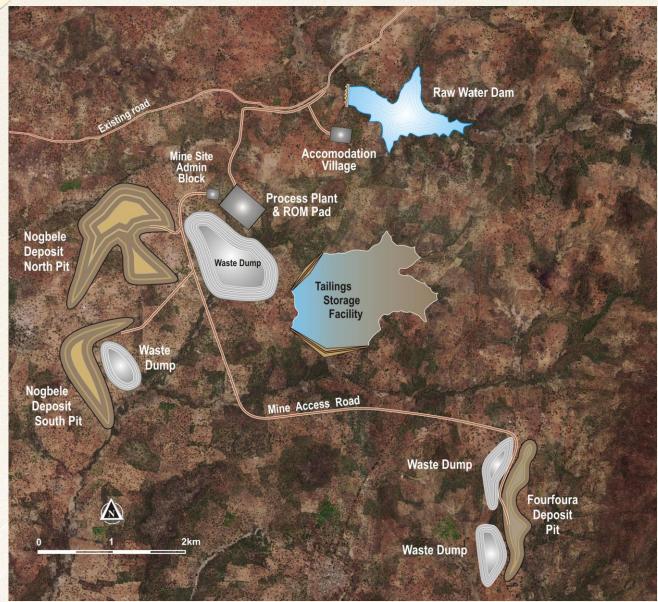


Nogbele Deposit & Plant location 1.2 Million ounces & growing



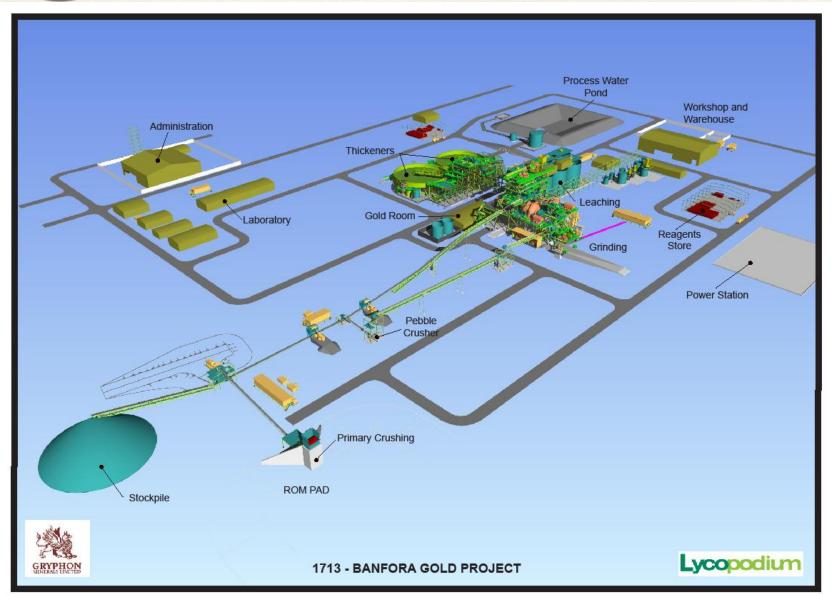


Banfora Gold Project Plant location - Nogbele Deposit



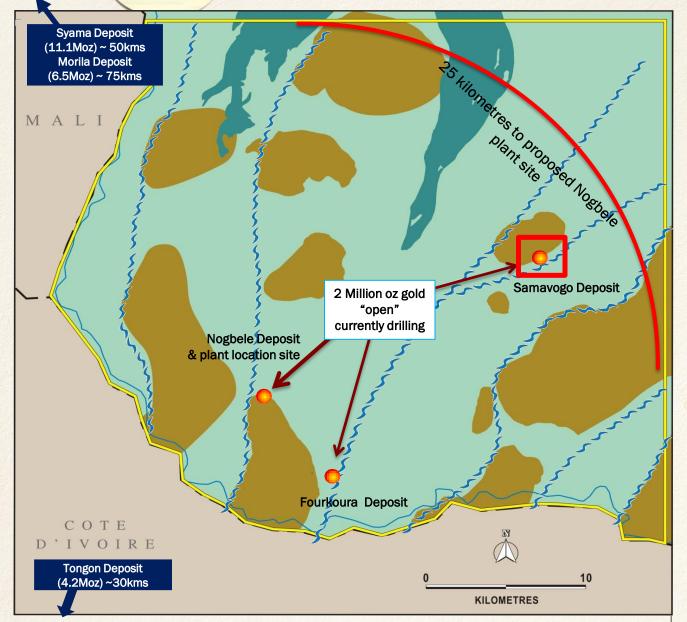


Banfora Gold Project Plant layout design





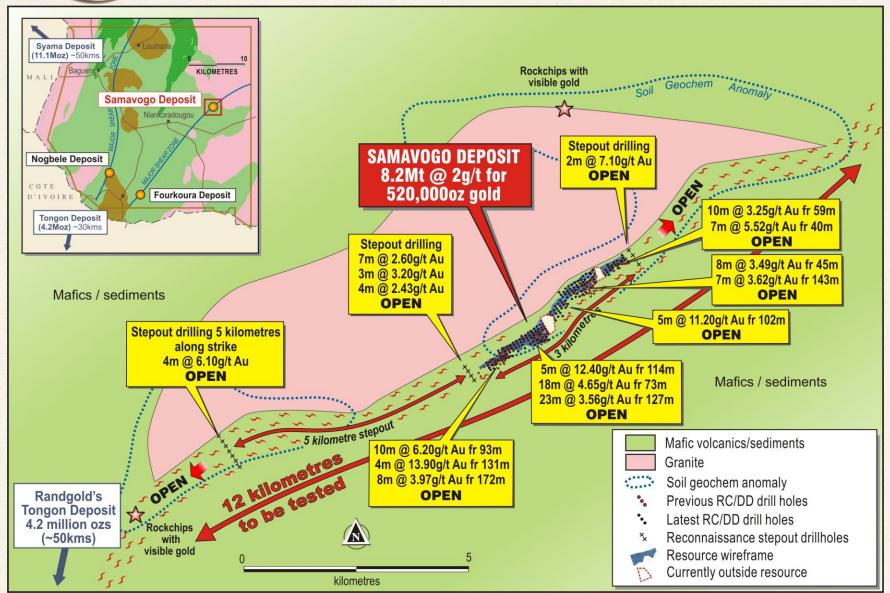
Banfora Gold Project Regional upside - Samavogo Discovery



- Samavogo Deposit is a new gold discovery at Banfora
- Maiden inferred resource estimate of 8Mt @ 2.0g/t for 500,000oz gold
- 3000 meters strike outcropping at surface and drilled to approximately 100 meters vertical depth
- Open at depth and along strike
- Currently drilling with RC and DD rigs during 2011/2012

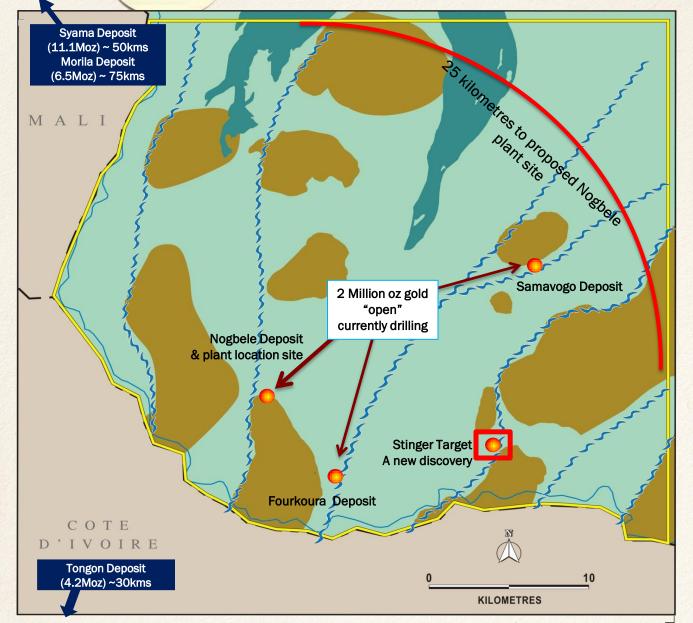


Samavogo Deposit Open along strike & at depth





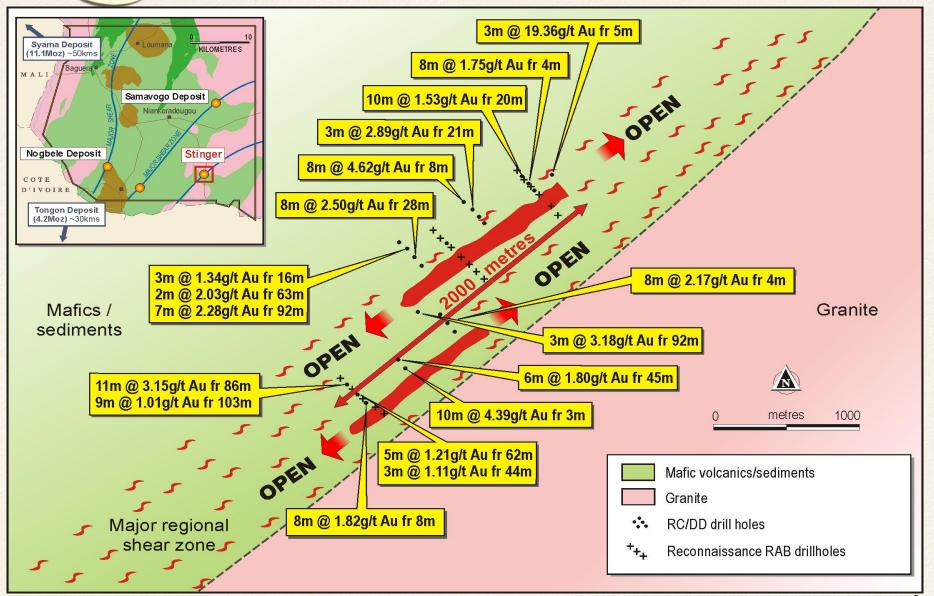
Regional upside - Stinger Discovery



- Stinger Prospect is a new gold discovery at the Banfora Gold Project
- Multiple zones of mineralisation outcropping from surface
- Open along strike and at depth
- To date only a 2000 meter section of a major regional structure has received any drilling.
- Currently RC & DD drill testing during 2011/2012

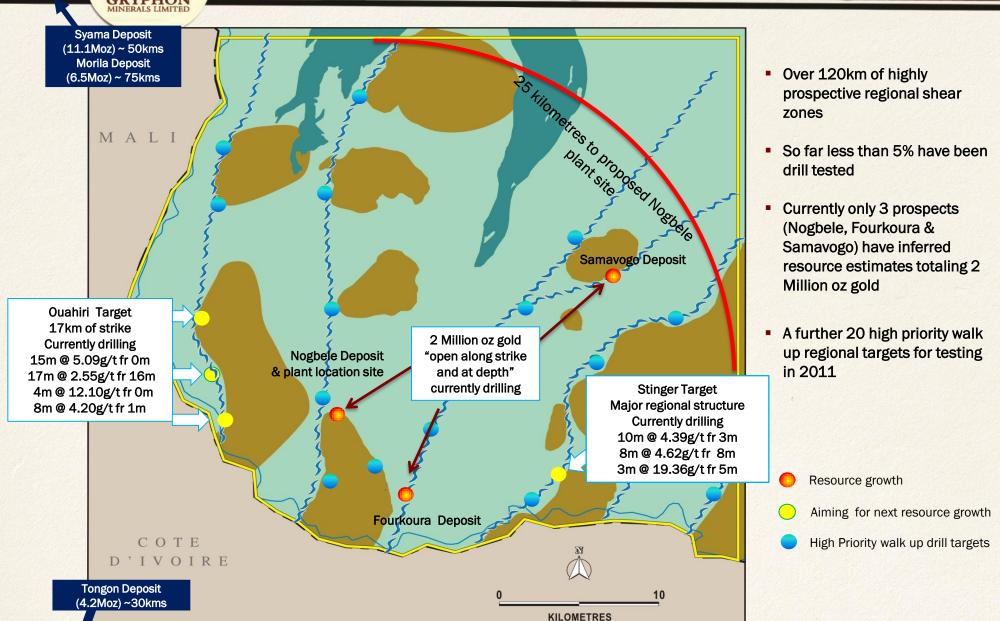


Stinger Prospect A new gold discovery



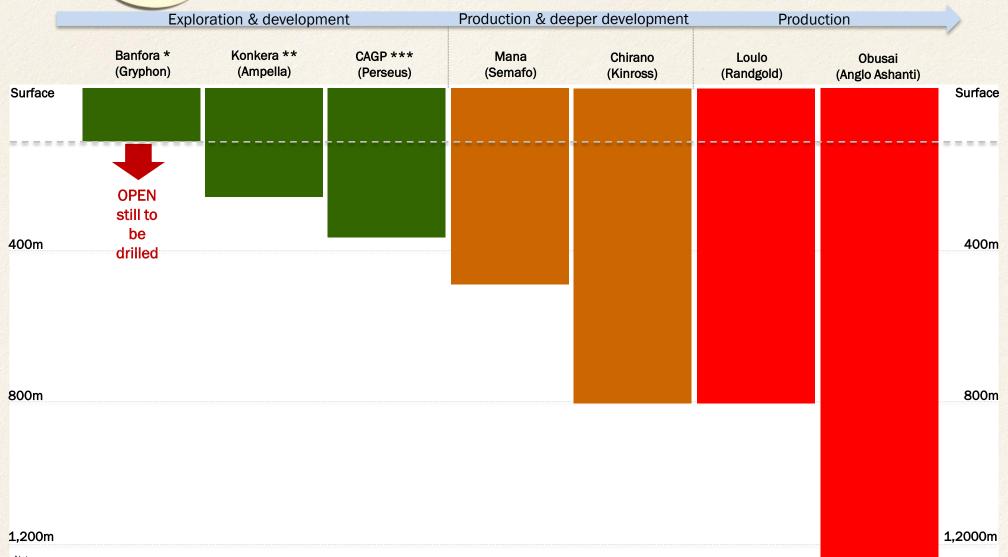
GRYPHON MINERALS LIMITED

Banfora Gold Project Defining a multi million oz gold district





Depth of Potential at Banfora Gold Project Majority of resource drilled only to 100m depth



Notes

- * Majority in top 100m (ASX GRY: 31/3/2011)
- * * Principally contained within top 200m (ASX:AMX 10/2/2011)
- * * * 220m RL (360m vertical) below that depth the resource is constrained by lack of drill date (ASX: PRU 23/12/2010)



Banfora Gold Project Burkina Faso

"Clear path to becoming the first Australian gold producer in Burkina Faso with strong government & local community support "











Tasiast Gold Discovery

- "Tasiast is unfolding into one of the gold sectors best discoveries this cycle"
 - Paradigm Capital
- "shaping up to be one of the best global gold discoveries in many many years"
 - RBC Capital Markets
- "the potential to be one of the worlds great gold mines"
 - Kinross Mining

Recent Mergers & Acquisitions

- Kinross takeover of Redback Mining
- Xstrata takeover of Sphere Resources
- Gryphon takeover of Shield Minerals



\$A8,000 Million

\$A 450 Million

\$A 27 Million



West Africa Mauritania



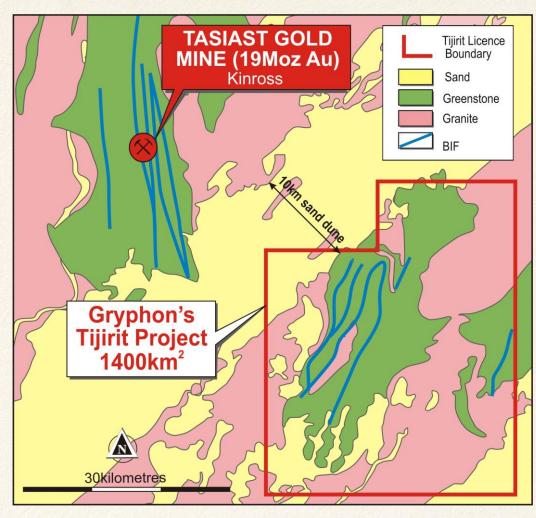


Tijirit Gold Project Mauritania



- 1,400km² of under explored tenure
- Same geology, rock types and structures as Tasiast
- Only a sand dune separates Tasiast & Tijirit Gold Project
- To date only 1% of Tijirit Gold Project has had any drilling
- Historical Shield Mining reconnaissance drill results incl:
 - 6m @ 17.63g/t Au from 10m
 - 6m @ 10.47g/t Au from 16m
 - 2m @ 24.90g/t Au from 56m

30,000m drilling underway Q4 2011





Banfora Gold Project

- Step out & deeper drilling on current resource underway
- Discovery drilling on satellite targets (20 high priority targets) underway
- New regional exploration (mapping, geophysics, auger/recon drilling) underway
- Resource upgrades Q1 2012
- Detailed feasibility studies +3.5mtpa operation Q2 2012

Mauritania

- Geological targeting (geophysics/ surface geochem/ diamond drilling) ongoing
- Drill testing Tijirit Q4 2011 / Q1 2012
- Drill testing Akjoujt Q4 2011 / Q1 2012





Investments
ASX: RNS & TAW

Mauritania
Exploration pipeline

Banfora Regional

Multi-million oz gold district in 2011

Banfora Gold Project

2 million oz gold resource and growing



- Dominant & strategic landholdings in Burkina Faso & Mauritania
- Significant resource base that continues to grow
- Aggressive and focused exploration in 2011
- Experienced team with a history of major discoveries in West Africa



181 Roberts Road Subiaco Western Australia

Telephone: +61 8 9287 4333 Facsimile: +61 8 9287 4334 e. admin@gryphonminerals.com.au www.gryphonminerals.com.au





Appendix One Biographies



Mel Ashton
Non Executive Chairman
Chartered Accountant
Ex Chairman of Institute of
Chartered Accountants



Steve Parsons
Managing Director
Geologist
ex Placer Dome, Platinum
Australia, CRAE



Didier Murcia
Non Executive Director
Lawyer
French speaking
& French legal system
Honorary Consul for Tanzania
Non-Exec Director Gindalbie Metals



Steven Zaninovich
Non Executive Director
Mining Engineer,
Numerous
West African mines
Senior BDO Lycopodium



David Netherway
Non Executive Director
Mining Engineer over 30yrs,
Wealth of Board experience with gold
mining companies including;
Afcan, Ashanti, Semafo, Orezone,
Equigold



Matthew Bowles
Chief Development Officer
Ex Executive Director of
Ernst & Young M&A
Ex Rio Tinto



Chief Financial Officer/Co Sec Ex Director Finance Xstrata Nickel Sudbury Operations Ex Vice President Finance BHP Billiton Ekati Diamond Mine



Brett Dunnachie
Co Sec
Chartered Accountant
Ex-Audit Manager of
PricewaterhouseCoopers
Over 10yrs exp. corporate &
secretarial experience



Elliot Grant Geologist

Steve Parsons Managing Director

Daouda Souge Sr. Burkinabe Geologist

Sam Brooks Senior Geologist

Michael Fox - Exploration Manager Africa ex Gallery Gold, IAMgold, African Gold Resources, WMC ex Bank of West Australia resource project funding



Appendix Two Corporate | Social Responsibility

The International Finance Corporation (a member of the World Bank) defines Community Investment as: "Voluntary contributions or actions by companies to help communities in their areas of operation address their development priorities, and take advantage of opportunities created by private investment, in ways that are sustainable and support business objectives"

A Strategic Community Approach will underpin Gryphon Minerals future community investments:

- Strategic well thought out and defined in advance
- Aligned with business as well as community interests and priorities
- Multi-stakeholder driven community as well as business involvement
- Sustainable encouraging self-reliance rather than dependency through to mine closure
- Measurable assessing outcomes and impact, but also return on our investment





Appendix Three The highest world standards

- Gryphon Minerals uses the highest world standards for corporate social responsibility in all regions that it works
- Gryphon Minerals has adopted the International Finance Corporation (IFC a member of the World Bank Group) best practices, which has been an investor in Gryphon since 2009
- Examples of current local community projects
 - Niankorodougou village library benefiting a community of 4,500 people
 - Nogbele village waterbore benefiting a community of 1,200 people
 - Women's group market garden contributing to the support of 50 families
- Examples of Local Community Projects in the pipeline
 - Road upgrades to support local farming community
 - Support reforestation by planting 2000 trees
 - Upgrading small dams to provide livestock with water during dry season
 - Equipment for local vocational training

