



## CORPORATE INFORMATION

Bassari Resources Limited is an Australian listed company focused on discovering and delineating gold resources which can be developed into profitable operations in the Birimian Gold Belt, Senegal, West Africa.

### FAST FACTS

ASX Code	BSR
Issued Capital	771,319,369
Unlisted options	2,500,000
No of shareholders	1,671
Top 20	50%

### INVESTMENT HIGHLIGHTS

Exploration permits cover approx. 850 km<sup>2</sup> over prospective Birimian Gold Belt, Senegal, West Africa.

- Makabingui Gold Project, Mineral Resource (December 2012) **1.0 million ounces in 11.9 Mt at 2.6 g/t gold at a 0.5 g/t cut-off**, comprising:
  - **Indicated: 336,000 ozs in 2.6Mt at 4.0g/t**
  - **Inferred: 669,000 ozs in 9.3Mt at 2.2g/t**
- Senegal, stable democracy since 1960.
- Quality ground holding in a +55M ounce gold region which hosts a number of world class deposits.
- 13 prospects identified along 80km strike length within Kedougou-Kenieba Inlier.
- Strategic and dominant exploration package of which Bassari holds an interest of 70%.
- Gold intersected over a wide interval at Konkouto Prospect.

### BOARD AND MANAGEMENT

#### Alex Mackenzie

Executive Chairman

#### Jozsef Patarica

Managing Director/CEO

#### Chris Young

Non Executive Director

#### Philip Bruce

Non Executive Director

#### Ian Riley

Company Secretary/Chief Financial Officer

### CONTACT US

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5 December 2013

## MAKABINGUI GOLD PROJECT STUDY TEAM

Bassari Resources Limited (ASX:BSR) is pleased to provide details on the experienced industry professionals for the Makabingui Gold Project study team.

The positive development results, ASX announcement 31 October 2013, were based on open pit optimisation studies and metallurgical test work for the development of the Makabingui Deposit. The deposit has a Mineral Resource of **1 million ounces of gold including a high grade Indicated Resource of 336,000 ounces of gold in 2.6 Mt at 4.0 g/t gold** which together with Makabingui South has strong growth potential. The positive results are key milestones to unlocking value for shareholders.

Bassari's Managing Director said: "This highly experienced team will take Makabingui the next step towards development. We have significant in country experience and importantly, people who have been involved with the Company's existing gravity plant which we plan to use. The calibre of the team will ensure the next phase of the projects path to development will maximise value for shareholders."

## Highlights

- **Results of the pit optimisation using selective mining at 300ktpa, show:**
  - Ore grade to the mill > **5.5g/t gold**
  - Mine life of >**3 years at ~50,000 ounces per year**
  - Indicative average operating cost of **US\$700/oz**
  - Gold cut-off lifted to **1.15 g/t gold** focusing on high grade core
  - High metallurgical recoveries >**95%** with approximately **80% by gravity**
  - Option to upgrade existing gravity plant capable of **300ktpa throughput rate and associated infrastructure to reduce capital costs**
- **Study due for completion by end of Q1 2014**

## **Study Team Members**

### **Study Manager – Mr Jozsef Patarica**

Mr Patarica, Managing Director/CEO of the Company is leading the Study Team and has over 20 years' experience in the mining industry in Australia and Senegal. His extensive business experience in the mining industry has included senior operational and project development roles including general management, project feasibility, construction and development in a range of projects.

### **Senegal Studies & Approvals – Mr Alex Mackenzie**

Mr Mackenzie, Executive Chairman of the Company has extensive experience in Senegal with extensive high level in-country relationships. He has been instrumental in developing the mining industry in Senegal, identifying and driving the potential of the ~\$400M Sabodala Gold and the ~\$600M Grand Cote Mineral Sands Projects. He has also successfully applied for exploitation permits and mining concessions in Senegal.

### **Geology – Mr Moussa Diba**

Mr Diba, Exploration Manager of the Company has more than 20 years' experience in the industry. He has extensive experience working in the Birimian gold fields of Senegal and has worked for major mining groups such as Ashanti Goldfields, IAMGOLD/AGEM JV, Randgold Resources and Mineral Deposits Ltd at the Sabodala Gold Mine. Moussa has been instrumental in growing the Makabingui Gold resource from its initial discovery by the Company.

### **Geotechnical Study – AMC Consultants Pty Ltd (Mr Anthony de Veth)**

Mr de Veth has extensive experience in open cut and underground mines throughout Australia and Internationally. He has gained exposure to a wide variety of mining methods in a range of challenging environments. His expertise lie in stability assessments of open pit and underground mines, design of ground support, mine design, data collection methods, and site based training of technical teams. Anthony is a Chartered Professional (Geotechnical) with the AusIMM.

### **Mine Design & Planning – Australian Mine Design and Development Pty Ltd (AMDAD) – Mr John Wyche**

Mr Wyche is a mining engineer with over 30 years' experience in the mining industry. He has extensive experience in open cut and underground metals, coal and industrial mineral projects throughout Australia, the South Pacific, South East Asia, China, Mongolia, North & South America, Mongolia and Africa. He has been involved in the Makabingui Gold Project pit optimisation study.

### **Metallurgy – Australian Minmet Metallurgical Laboratories Pty Ltd (AMML) – Mr Graeme Sheldon**

Mr Sheldon has had over 35 years' experience in mineral processing and is a co-founder of Metcon Laboratories in Sydney. He has extensive experience in gold projects and consulted to several companies on metallurgical projects.

## **Process Design – Timora Pty Ltd (Mr Bill Flannery) & Devlure Pty Ltd (Mr Ron Goodman)**

Mr Flannery has extensive experience in design and construction of processing plants and was involved in the design and construction of the existing gold gravity plant which will be used as the gravity circuit. He has broad experience in Australia and internationally including Senegal.

Mr Goodman has over 35 years of worldwide experience as a Metallurgist in all aspects of mineral processing, including flow sheet design and feasibility studies. His experience includes wet and dry processing technologies for recovery of gold, silver, tin, copper, molybdenum, lead, zinc, antimony, fine coal, graphite, heavy mineral alluvial, mineral sands and glass sands. His experience encompasses the unit processes of crushing, grinding, heavy media separation, sulphide flotation, oxide flotation, acid leaching and tailings disposal.

## **Tailings Storage Studies – Trevor Clark & Associates (Mr Trevor Clark)**

Mr Clark is a qualified civil engineer with more than 20 years' experience within the mining industry related to mining approvals, civil design of tailings storage facilities, water storage dams, roads and drainage design and project management.

## **Financial Modelling – Mr Ian Riley**

Mr Riley, Chief Financial Officer of the Company, has extensive financial experience in Australia, China and Senegal. He has brought his commercial understanding to a diverse range of start-up and development projects modelled.

## **Existing Gravity Plant & Associated Infrastructure**

The initial development phase of the Makabingui Gold Project will incorporate the Company's existing gravity plant and associated infrastructure already established in country.

The gravity plant will form the gravity circuit of the processing facility which incorporates jig modules, 30 inch Knelson concentrator, process water tanks, thickener, gold room and genset.

**Figure 1** - View of the plant from the 26 inch cyclone tower where the thickener, processing water tanks, genset, and gold room can be seen.

**Figure 2** shows the four jig units in operation with the gold room in the background.

**Figure 3** shows part of the 120 person camp which includes offices, kitchen/dining hall, laundry and ablution/shower block.

**Figure 4** shows the water storage dam used for water supply to the processing plant. The dam is full after the wet season.

**Figure 5** shows the medical centre located within the camp compound.

**Figure 6** shows the heavy vehicle maintenance workshop used to service the heavy equipment mobile fleet.



**Figure 1 - View of gravity plant from 26 inch cyclone tower**



**Figure 2 – Four gravity jigs in operation**



**Figure 3 – Douta 120 person camp**



**Figure 4 – Water dam**



**Figure 5 – Douta Medical Centre**



**Figure 6 – Mobile maintenance workshop**

## Commitment to the Community

Bassari has undertaken considerable community development initiatives in recognition and respect of the country's culture, values and traditions. Initiatives include constructing a school and medical clinic, providing fresh water pumps and a grain mill to the community. Other completed infrastructure projects include building of roads and bridges, provision of power and establishing water dams. People from the local region are employed with a strong focus on skills development and transfer of knowledge.



Water



School



Agriculture

## Makabingui Gold Project – Location & Geology

Makabingui is located within the Kedougou-Kenieba Inlier, Eastern Senegal, where multi-million ounce gold deposits are being mined and developed (Figure 7).

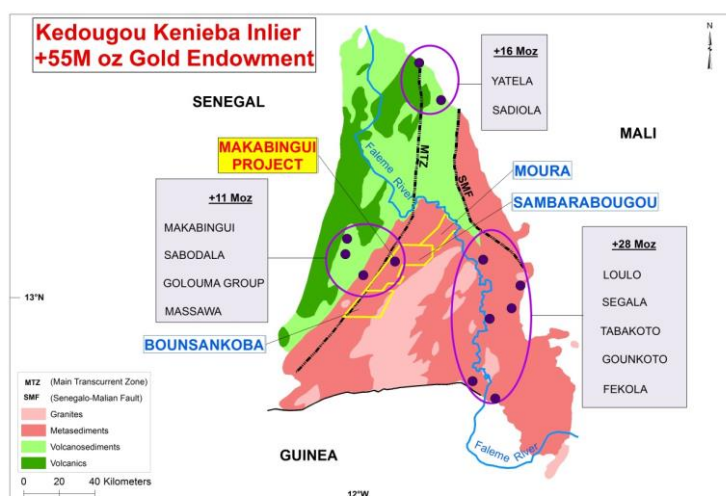


Figure 7 – Project Location Map – Kedougou Kenieba Inlier

## **Regional Geology**

The resource is located in the Palaeoproterozoic Birimian volcano-sedimentary sequence and the intrusives of the Diale Formation. The Diale Formation lithologies commonly comprise chlorite-sericite schists and phyllites derived from the metamorphism of greywackes and argillaceous sediments.

## **Local Geology**

The Makabingui deposit is located near the southern margin of asyntectonic granite (Sambarabougou Granite). Gold mineralisation, commonly as free gold, is associated with quartz veins and stockworks with silica, sericite, biotite and carbonate alteration together with variable amounts of pyrite, arsenopyrite and pyrrhotite.

The deposit comprises a large number of generally shallow east dipping lodes and quartz veins ranging in thickness from 8 metres down to less than 1 metre width and hosted by a gabbroic intrusive and contact metasediments. Mineralised structures have been identified over an area of some 1.7 kilometres by 1.2 kilometres to date. The Sambarabougou Granite and host gabbro lie within the east-west trending crustal fracture zone identified by the presence of a major diorite dyke which extends from the Makana area to the west through to the Loulo-Goukoto project area in nearby Mali, eastwards to Sitakil; a newly discovered “porphyry” gold deposit.

Makabingui South is a mineralised zone 6-8 kilometres long which has been interpreted from RAB and RC drilling. Within metasediments, it is characterised by layer parallel faults and tight isoclinal folds that have been refolded to more open folds. Weathering within the sediments is relatively deep in the order of 60-80 metres.

## **Strategic Exploration Package**

The Company's exploration permits of which Bassari has a 70% interest, cover an area of approximately 850 km<sup>2</sup> over the highly prospective Birimian Gold Belt. The Makabingui Gold Project area is centrally located within the three contiguous permits and is approximately 25 kilometres from the Sabodala Gold Operation (Figure 8).

Artisanal activity established within the Makabingui Project area south of the existing resource (refer ASX announcement 11 October 2012) has identified potential for new lodes within a significant NE trending shear zone, and further highlights the prospectivity of Makabingui. Additional artisanal sites have since been established further south along strike within the well-defined gold mineralised structural corridor.



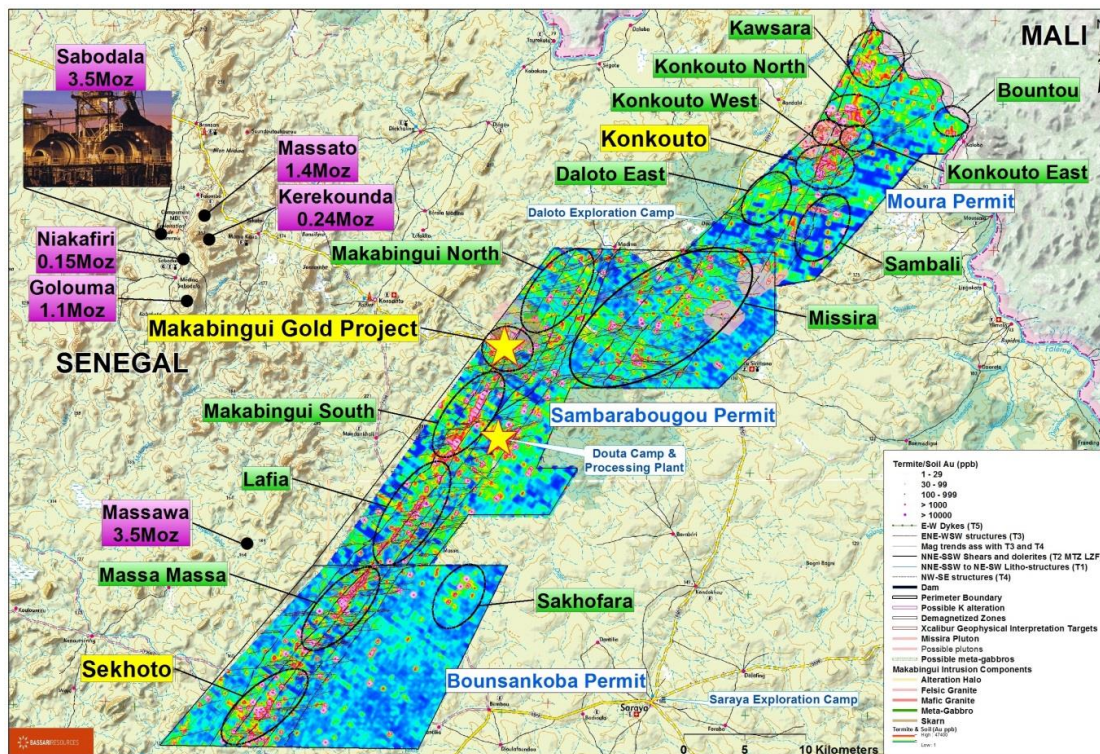


Figure 8 – Exploration Permits – Moura, Sambarabougou & Bounsankoba

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## **About Bassari**

Melbourne - based West African gold explorer Bassari Resources Limited (ASX:BSR) has a strategic portfolio of exploration permits focused on the Birimian Gold Belt in Senegal. The permits cover an area of 850 km<sup>2</sup> of which Bassari holds a 70% interest, with 80 km of strike along the combined three contiguous permits. The permits are located within the Kenieba Inlier which is a +55M ounce gold region. Bassari's vision is to discover and delineate gold resources which can be developed into profitable operations.

## **Forward Looking Statement**

This release may include forward-looking statements which are based on assumptions and judgements of management regarding future events and results. Statements regarding Bassari Resources Limited plans with respect to future exploration and drilling are forward-looking statements. Forward-looking statements are necessarily subject to risks, uncertainties and other factors, many of which are outside the control of Bassari Resources Limited that could cause actual results to differ materially from such statements. Bassari Resources Limited makes no undertaking to subsequently update or revise the forward-looking statements made in this release to reflect events or circumstances after the date of this release.

## **Competent Persons Statement**

The technical information in this report has been reviewed and approved by Mr Chris Young who is a Member of the Australasian Institute of Mining and Metallurgy and the Australian Institute of Geoscientists. Mr Young has over 40 years' experience in the industry and has more than five years' experience which is relevant to the style of mineralisation being reported upon 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 Young consents to the inclusion in the report of the matters based on the information in the form and context in which it appears.

## **Technical Terms**

<b>g/t</b>	grams per tonne
<b>Mt</b>	Million tonnes
<b>Mtpa</b>	Million tonnes per annum
<b>ktpa</b>	Thousand tonnes per annum
<b>RAB Drilling</b>	Rotary Air Blast drilling.
<b>RC Drilling</b>	Reverse Circulation drilling
<b>DD Drilling</b>	Diamond drilling
<b>ppb</b>	parts per billion, e.g. 1000 ppb gold is 1 g/t gold
<b>ppm</b>	parts per million
<b>km<sup>2</sup></b>	square kilometres
<b>km</b>	kilometres
<b>mm</b>	millimetres
<b>Au</b>	Chemical symbol for gold
<b>3D</b>	Three dimensional
<b>COG</b>	Cut-off grade
<b>kg</b>	kilogram
<b>NE</b>	North East
<b>ASX</b>	Australian Securities Exchange