



10th November 2017

ASX Announcement

Predictive Discovery Limited is a gold exploration company with strong technical capabilities focused on its advanced gold exploration projects in West Africa.

ASX: PDI

Issued Capital: 163 million shares

Share Price: 4.5 cents

Market Capitalisation: \$7.3M

Directors

Phillip Jackson
Non-Exec Chairman

Paul Roberts
Managing Director

David Kelly
Non-Executive Director

5,000m RC Drilling Program Starts at Bobosso, Cote D'Ivoire

Predictive Discovery Limited (ASX: PDI) is pleased to announce that a 5,000m RC drilling program has now commenced on the Bobosso Project, Cote D'Ivoire. Details include:

- Drilling will test up to 9 target areas (Figure 1), including following up 2 areas where the April-May diamond drilling program obtained encouraging results (ASX release dated 20/7/17).
- The program is being funded by Progress Minerals Inc (Progress) as part of the three-way joint venture between Predictive, Progress and West African Ventures Investment SARL (WAVI). Progress is currently part way through spending US\$1 million to earn a 30% interest.
- The earlier diamond drilling obtained a series of encouraging results including:
 - **8.7m at 3.3g/t Au** from 39.6m including **1.2m at 14.3g/t Au**
 - **17m at 1.47g/t Au** from 41m including **2m at 6.95g/t Au**
 - **28m at 1.00 g/t Au** from 0m including **16m at 1.32g/t Au**
 - **13.5m at 1.36g/t Au** from 77m
- Samples will start being sent to the assay laboratory in the coming weeks.

Mr Paul Roberts, Predictive's Managing Director said: *"This is a key new step in the joint venture's evaluation of Bobosso. Drilling will now extend outwards from the very small areas diamond drilled in May 2017. I am now going to Cote D'Ivoire to work with our geologists and joint venture partners on site. We expect to receive all assays in the next few months prior to deciding on the next phase of work."*

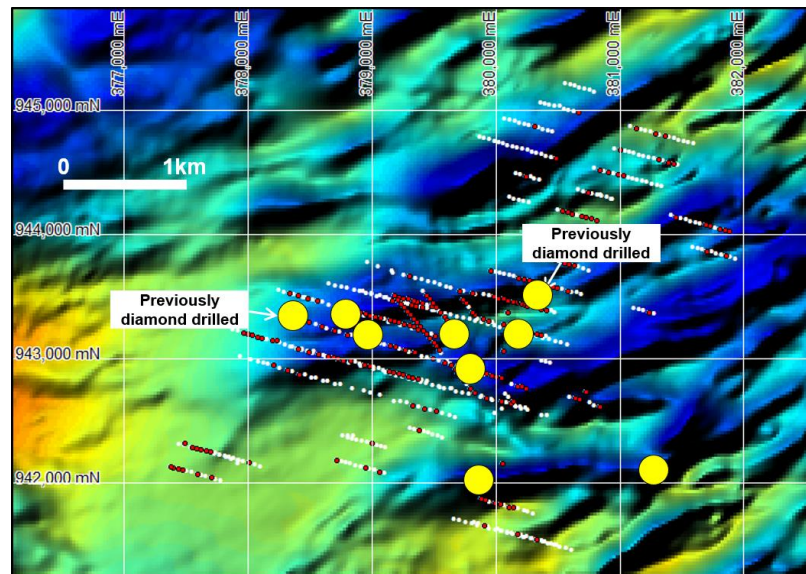


Figure 1: Location of Bobosso drill targets (yellow dots) superimposed on aeromagnetic map of the prospect area and showing location of previous drillholes.

INTRODUCTION

The Bobosso Project consists of two granted exploration permits, Bassawa and Wendene in northern Cote D'Ivoire (Figure 1), which are held by an Ivoirian company, XMI SARI (XMI). Bassawa and Wendene are located in the southern extension of the well mineralised Hounde Belt in Burkina Faso, which includes Semafo's Mana Mine (5 Moz in ore resources and reserves¹).

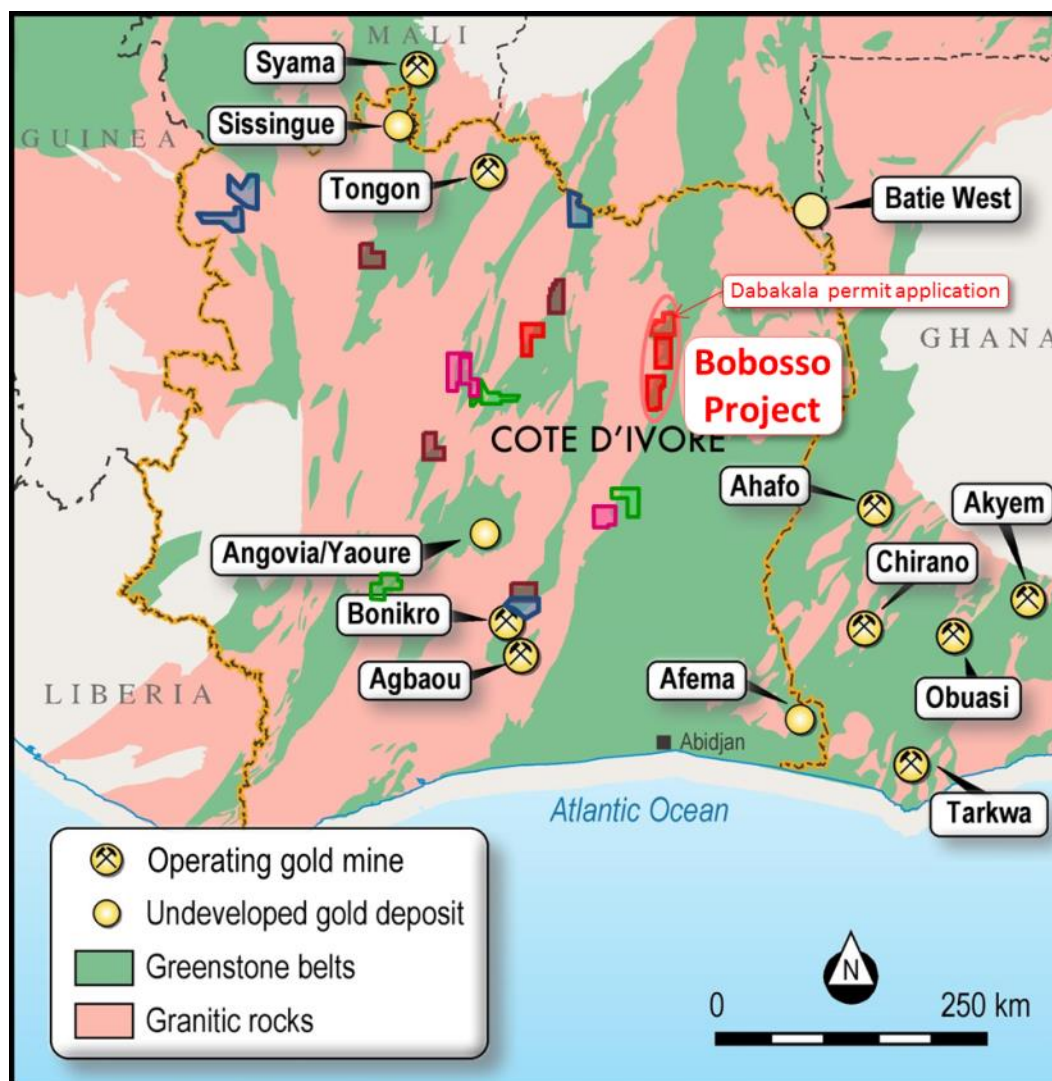


Figure 2: Locality map showing the Bobosso Project. The granted Wendene and Bassawa permits lie directly to the south of the Dabakala permit application (highlighted). The map also shows the initial Toro Joint Venture permits (brown), the GIV Joint Venture permits and permit applications (blue), the new wholly owned Ivoirian Resources SARL permit applications (in green) and the recent, optioned Sika Resources SARL permit applications (in magenta).

Previous exploration by Equigold, Lihir and Newcrest including a series of large drilling programs totalling 569 RC holes and 11 diamond drill holes. This obtained many gold mineralised intercepts

¹ See <http://www.semafo.com/English/operations-and-exploration/reserves-and-resources/default.aspx>

beneath a 7km² gold-in-soil geochemical anomaly (ASX release dated 28/10/15) indicating the presence of a large gold mineralised system.

Geological mapping and re-logging of historical diamond drill core by Predictive staff has demonstrated that the gold mineralisation is hosted in a sequence of mafic volcanics, with lesser felsic to intermediate volcanics and minor metasediments. Gold mineralisation is found in both broad, moderate grade alteration zones (silica-sericite-carbonate-pyrite) and narrower, higher grade quartz veins.

PDI has earned a 37% equity in the Bobosso project through an agreement which was signed in October 2015 with the owner of XMI, West Africa Venture Investment (**WAVI**). More recently, Predictive and WAVI have entered into a funding agreement with Progress Minerals Inc (**Progress**) by which Progress is funding US\$1 million of expenditure to earn a 30% equity in the project (ASX release dated 16/3/17). Execution of the current RC drilling program will complete that commitment.

RC Drilling Program

A 5,000m RC drilling program has now commenced. It will test Targets 1 and 4, where earlier drilling obtained encouraging drill results (see Figures 3 and 4) as well as up to seven other targets, for which:

- Historical drilling has already encountered encouraging gold results, or
- Strong gold-in-soil geochemical anomalies coincident with major structural targets have not yet been tested by historical drilling.

Following the success of the May diamond drilling program in confirming that the overall strike of most gold mineralisation is between east-north-east and east-west and dips to the north-north-west, the new (angled) drill holes will be drilled towards the south-south-east. All the new drilling will lie within the confines of the 7km² soil geochemical anomaly defined by earlier explorers (ASX release dated 28/10/15).

The RC drilling will undertaken by Foramin, a Cote D'Ivoire based drill contractor.

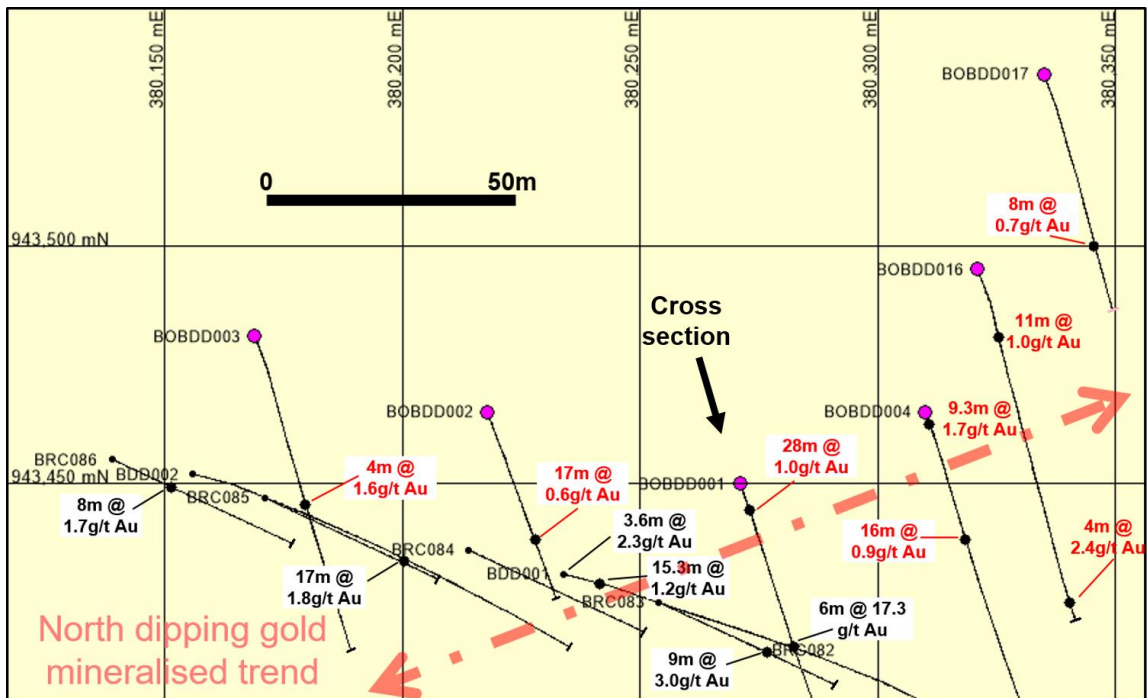


Figure 3: Target 1 plan view showing results of April-May 2017 diamond drilling program (in red – ASX release dated 20/7/17) along with historical results in black (reported to the ASX on 28/10/15). Black dots show the centre point of each gold intercept (reported at a 0.25g/t Au cut-off grade). Holes BOBDD016 and BOBDD017 were designed to test the along strike extension of the shallow gold mineralised zone encountered in holes BOBDD001 and BOBDD004.

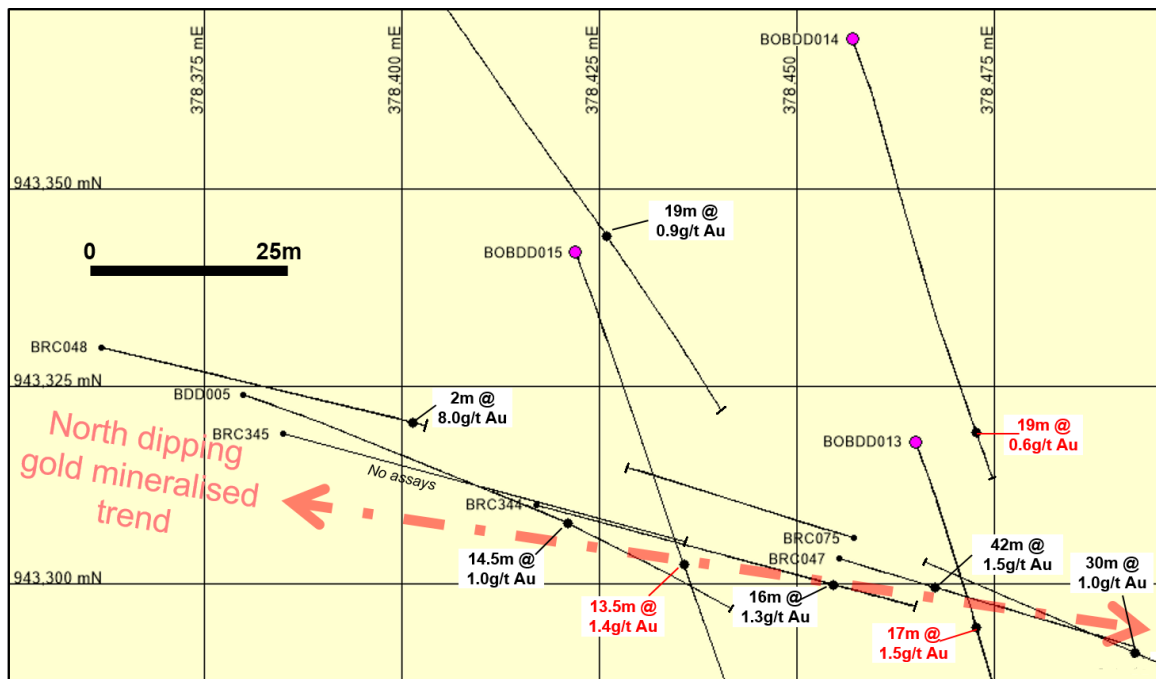


Figure 4: Target 4 plan view showing results of April-May diamond drilling program (in red – ASX release dated 20/7/17) along with historical results in black (reported to the ASX on 28/10/15). Black dots show the centre point of each gold intercept (reported at a 0.25g/t Au cut-off grade).

Predictive Discovery Limited (PDI) was established in late 2007 and listed on the ASX in December 2010. The Company is focused on exploration for gold in West Africa. The Company operates in Burkina Faso, West Africa where it has assembled a substantial regional ground position covering 949km² and has been exploring for large, open-pittable gold deposits. Exploration in eastern Burkina Faso has yielded a large portfolio of exciting gold prospects, including the high grade Bongou gold deposit on which a resource estimate was calculated in September 2014. PDI also has interests in a large portfolio of permits and permit applications in Côte D'Ivoire covering a total area of over 6,000 km².

Competent Persons Statement

The exploration results reported herein, insofar as they relate to mineralisation are based on information compiled by Mr Paul Roberts (Fellow of the Australian Institute of Geoscientists). Mr Roberts is a full time employee of the company and has sufficient experience relevant to the style of mineralisation and type of deposits being considered to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Roberts consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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