



21st February 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: 1.63B shares

Share Price: 1.3 cents

Market Capitalisation: \$21.2M

Directors

Phillip Jackson
Non-Exec Chairman

Paul Roberts
Managing Director

David Kelly
Non-Executive Director

Diamond Drilling Commences in Cote D'Ivoire

Predictive Discovery Limited (ASX: PDI) is pleased to announce that Joint Venture partner, Toro Gold Limited, has just commenced a 1,500m diamond drilling program at the Nyangboue prospect on the Boundiali permit in Cote D'Ivoire (Figure 1):

- Drilling is aimed at understanding the controls on gold mineralisation intersected in the initial RC drilling program last year. This obtained some excellent gold results (Figure 2), including :
 - **20m at 10.5g/t Au** from 38m including **1m at 144.5g/t Au**,
 - **28m at 4.0g/t Au** from 3m including **1m at 49.7g/t Au**, and
 - **9m at 7.9g/t Au** from 99m including **1m at 44.7g/t Au**.
- Drill hole design has been based on a program of re-logging the RC chips, geological mapping and two geophysical surveys conducted in the second half of 2016.
- Results of this diamond drilling program will guide an infill RC drilling program aimed at tightening the drill line spacing from the current 320m to either 160m or 80m. This is planned for the June Quarter.

Mr Paul Roberts, Predictive's Managing Director said: *"We are very pleased to announce that drilling is again underway in the Toro Gold JV starting with diamond drilling of the new, Nyangboue gold discovery in northern Cote D'Ivoire .*

Drilling is also planned on some other Cote D'Ivoire permits in the current field season, including Ferkessedougou South, Ferkessedougou North and the Kokoumbo/Beriaboukro ground package in the Toro Gold Joint Venture, and the Bobosso project in the XMI Joint Venture. In addition, ground geochemical surveys are ongoing on the Toro Gold Joint Venture ground and we are expecting initial geochemical exploration work to commence on the new Cote D'Ivoire permit applications announced on 6th February 2017 as soon as they are granted.

This is an exciting time for Predictive shareholders. We expect a steady rate of important news flow coming out of our Cote D'Ivoire projects for much of 2017."

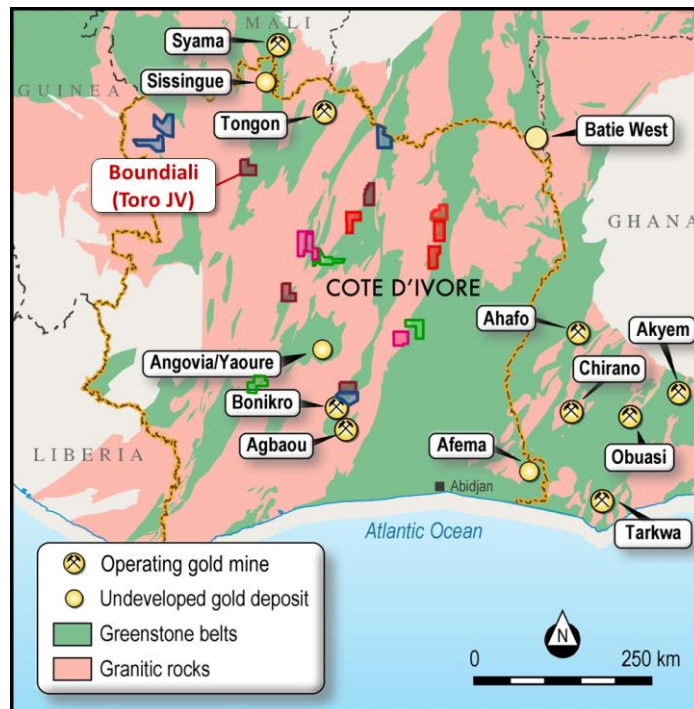


Figure 1: Locality map showing the initial Toro JV permits (in brown), the GIV JV permits/permit applications (in blue), permits/applications covered by PDI's agreement with XMI SARL over the Bobosso Project (red), the new wholly owned Ivoirian Resources SARL permit applications (in green) and the new, optioned Sika Resources SARL permit applications (in magenta). The location of the Boundiali permit is highlighted.

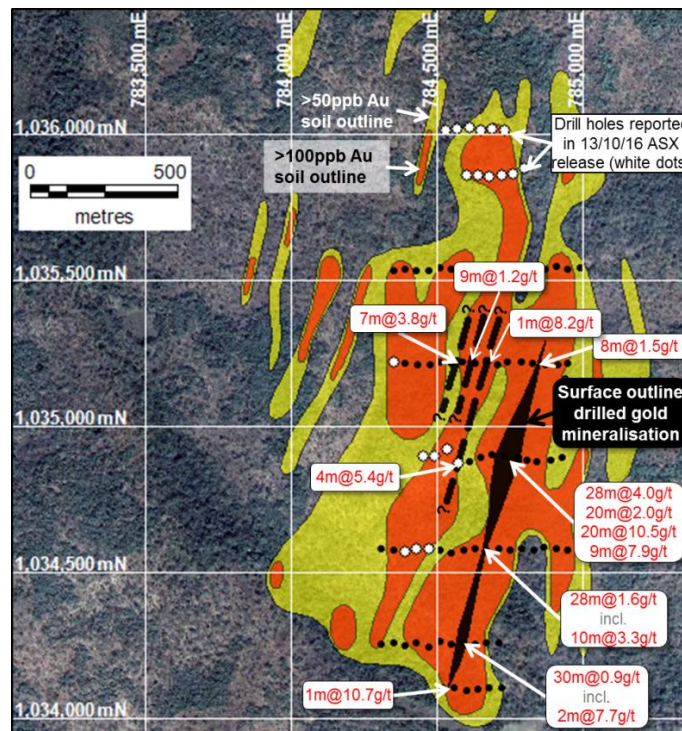


Figure 2: RC drill hole collar locations on a gold-in-soil geochemical contour plan, highlighting key drill results, in the southern 2km portion of the Nyangboue Prospect (announced to the ASX on 23/6/16, 25/7/16, 8/8/16, 12/9/16 and 13/10/16). Gold geochemical contours are superimposed on satellite imagery.

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 1,200km² and is 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 an area of over 6,000 km².

Competent Persons Statement

The exploration results and the Exploration Target 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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