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## ASX Announcement

# Bangaba bedrock gold anomalies exceed 8 km in length.

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### HIGHLIGHTS

- Strike length of strong bedrock gold geochemical anomalies at Bangaba exceeds 8km
- Tambiri prospect extended to 3.5km long
- Solna Prospect 3km long
- Other gold anomalous zones located along and across strike from Solna
- Highest power auger gold value 7.0g/t Au
- Substantial along strike potential from known high grade gold mineralisation at Solna and Tambiri now indicated

Predictive Discovery Limited (**ASX: PDI**) announces that assays have been received from power auger drilling on the Bangaba Project in eastern Burkina Faso.

### Managing Director's Assessment of Drill Results

Mr Paul Roberts, PDI's Managing Director commented: *"These power auger results announced today have upgraded the scale of the gold mineralised systems at Bangaba. This complements RC and diamond drilling at Bangaba that has obtained repeated high grade gold intercepts on the Tambiri and Solna Prospects over a strike length of approximately 1.2km. These results indicate considerable potential to discover new shallow gold mineralisation extending the Tambiri and Solna Prospects. This will add to the potential of the zones where we plan to complete an infill drilling program after the rainy season with a view to calculating a maiden, high grade JORC Resource. These new target areas may result in additional similar gold discoveries to add to the resource inventory in 2013"*.

## Bangaba Project

### Background

The Bangaba project in Eastern Burkina Faso (Figure 1) covers areas of extensive artisanal mining. PDI is earning a 95% interest in the 128 km<sup>2</sup> Bangaba exploration permit by making a series of staged payments in cash and shares. PDI's equity now stands at 68%.

It is estimated that artisanal miners have produced several tonnes of gold at Bangaba over 27 years. Artisanal workings are located on two complex structures on the north-west and south-east contacts of a granodiorite-diorite body (Figure 2).

RC and diamond drilling programs at the two major sites of artisanal mining, Solna and Tambiri, have generated a series of high grade intercepts, including:

- 2m at 56g/t Au from 54m

- 5m at 17g/t Au from 96m
- 7m at 13g/t Au from 117m
- 3m at 18g/t Au from 58m
- 9.3m at 4.9g/t Au from 62.7m including 3.3m at 17g/t Au
- 5.6m at 16g/t Au from 205m

PDI is well advanced in a program to identify a high grade resource to a JORC standard. In conjunction, commencing in late 2011, the Company has conducted two phases of power auger geochemistry over the Project area with the goal of extending the known mineralised zones under cover and discovering new ones. 2,835 holes have been drilled totalling 11,531 metres. The drilling was targeted on and around the contacts of the diorite-granodiorite body (Figure 2) and structures identified by a detailed aeromagnetic survey.

### **Power Auger Program**

Initially, holes were drilled 50m apart on mostly 400m spaced lines. Follow-up infill sampling was largely on 200m spaced lines with 25m hole spacing. Some closer infill drilling was carried out in the immediate vicinity of the Solna Prospect. Wherever possible, samples were collected at the interface between surficial materials (laterite or alluvium) and weathered bedrock and from the weathered bedrock itself. If the holes did not penetrate through to weathered bedrock, samples were taken at the bottom of hole. Gold analysis by AAS was carried out by the SGS laboratory in Ouagadougou.

Large gold anomalies with values exceeding 50ppb Au and strike lengths of 3.5km and 3.0km were identified along strike from the Tambiri and Solna Prospects respectively. Further, significant anomalies were identified in the south-western part of the Project area. The cumulative strike length of gold anomalies now exceeds 8km. At an average hole depth of 4m, most of the gold anomalous results were obtained from beneath thin cover, indicating potential for a series of new, shallowly concealed gold deposits.

### **Outlook**

A recent program of infill and extension drilling on the Solna and Tambiri prospects consisted of 47 holes totalling 6,584m. These holes were designed mainly to clarify the interpretation of individual gold zones at Solna and test for extensions along strike and at depth. Assays from these holes are pending with a release of some of those results anticipated in the next two weeks.

An infill RC drilling program is planned for both the Solna and Tambiri Prospects in October-November, which is anticipated to be sufficient to allow for calculation of JORC Resources on both Prospects. Some drill testing of the new targets described in today's announcement may be carried out at the same time.

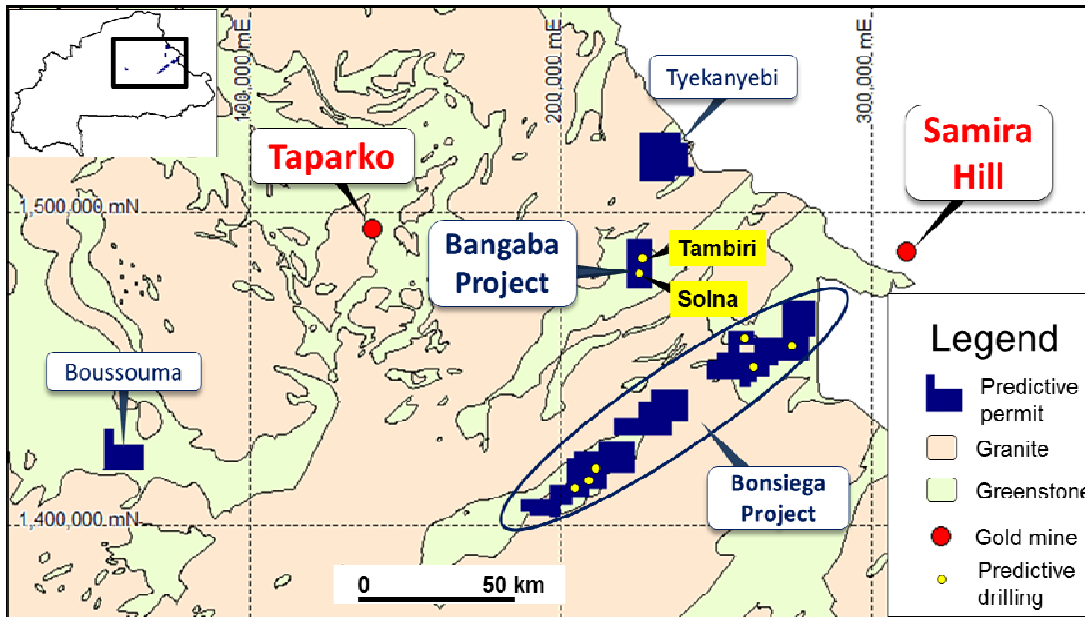


Figure 1: Geological map of eastern Burkina Faso showing PDI's tenements including the Bangaba Project

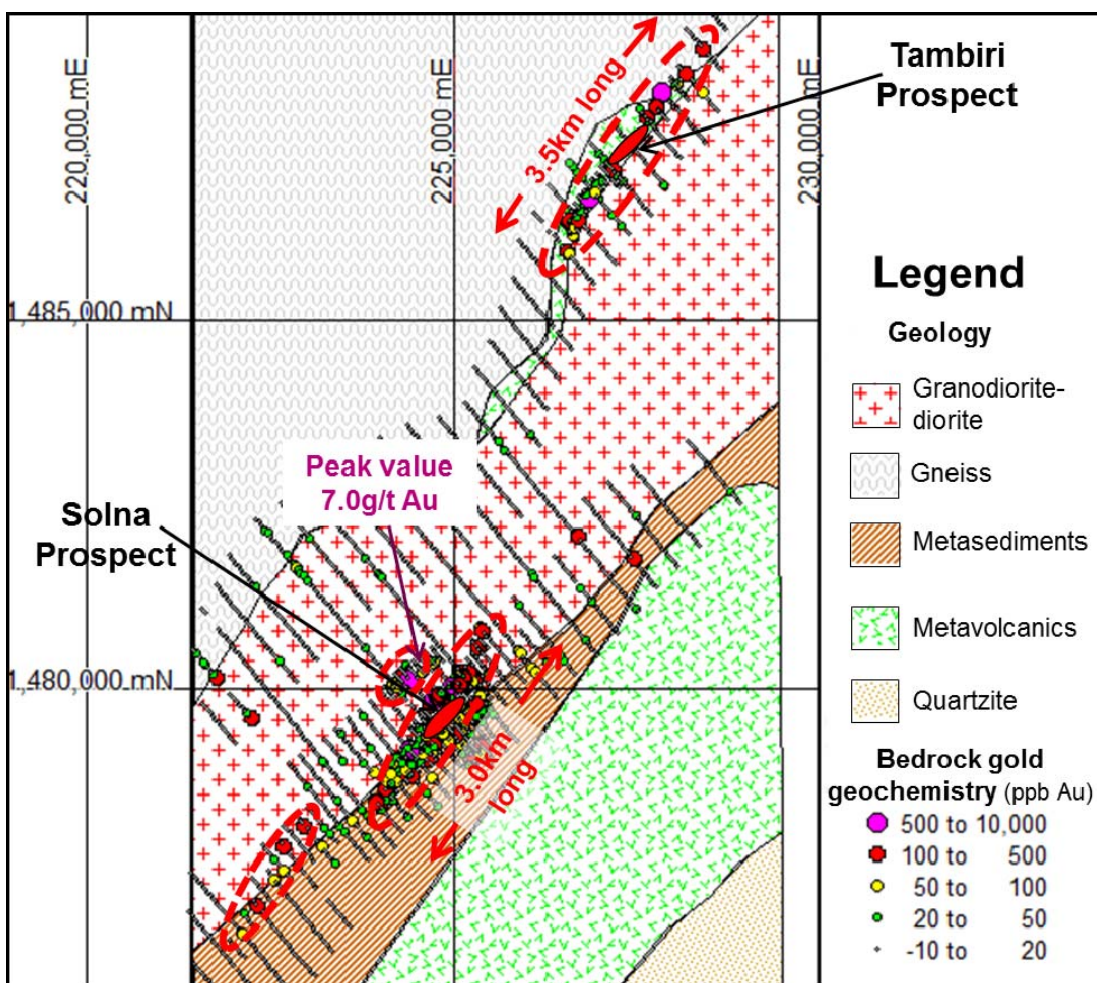


Figure 2: Geological map of part of the Bangaba Project showing the location of the power auger drill sites and gold anomalous results. The areas which have been drill tested to date at the Solna and Tambiri Prospects are shown as small red ellipses.

**About Predictive Discovery:**

*Predictive Discovery Limited (PDI) was established in late 2007 to explore for gold and uranium. The Company is focused principally on exploration for gold in West Africa with one additional gold project in Australia. PDI has a distinctive technological capability, known as Predictore™, which is designed to increase drill targeting efficiency thereby reducing ore discovery cost. The Company's major focus is in Burkina Faso, West Africa where it has assembled a substantial regional ground position totalling 1,544km<sup>2</sup> and is exploring for large open-pittable gold ore deposits.*

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 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (the JORC Code, 2004 Edition). 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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