



Expanding footprint
and increased drilling
in West Africa

Disclaimer

This presentation contains only a brief overview of Predictive Discovery Ltd and its associated entities ("PDI or Predictive") and their respective activities. The contents of this presentation, including matters relating to the geology of the projects, may rely on various assumptions and subjective interpretations which it is not possible to detail in this presentation and which have not been subject to any independent verification.

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Competent Person Statement

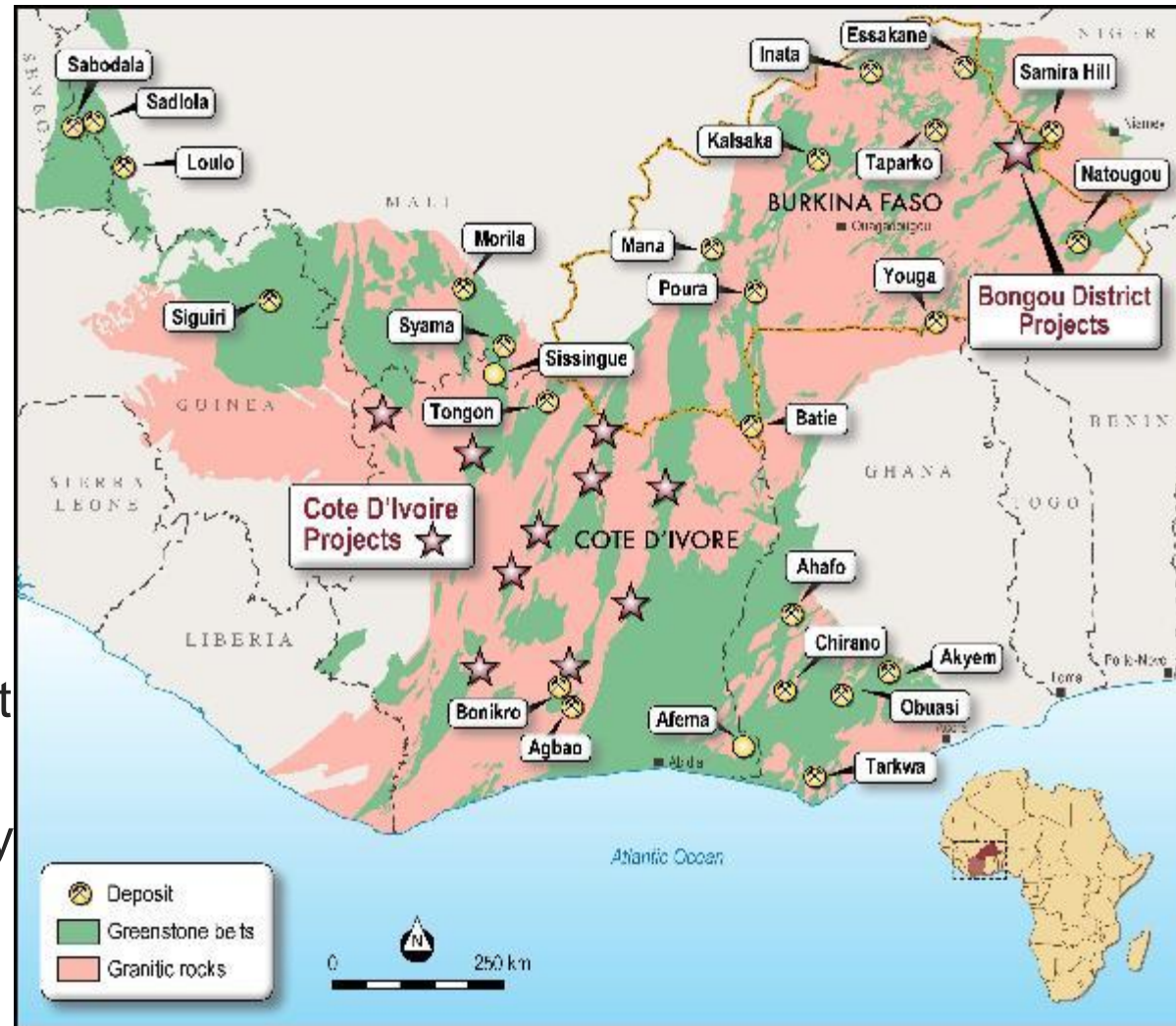
The information in this report that relates to Exploration Results and the near-Bongou Exploration Target is based on information compiled by Mr Paul Roberts who is a Fellow of the Australian Institute of Geoscientists. Mr Paul Roberts is a full time employee of the company and has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration 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.

The Mineral Resource estimation and classification of Mineral Resources for the Bongou deposit is based on, and fairly represents, information and supporting documentation compiled by Mr Richard Gaze. Mr Gaze is a full-time employee of Golder Associates Pty Ltd and a Member and Chartered Professional of the Australasian Institute of Mining and Metallurgy. Mr Gaze has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (2012 Edition). Mr Gaze consents to the inclusion of the estimates, classification and the supporting information in the form and context in which it appears.

Why Invest in West African Gold?

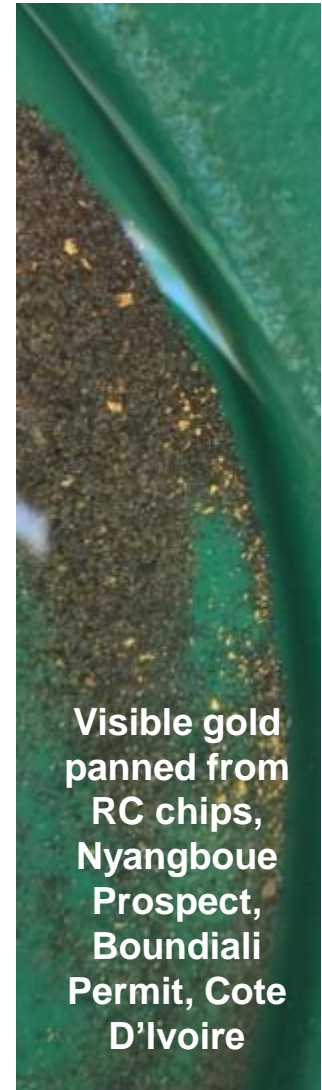
Birimian Belt (**green**) of West Africa is the **best geological terrain on earth to find & develop new gold deposits:**

- ❑ Widespread endowment: **>60 million ounce-plus gold deposits.**
- ❑ **Under-explored:** new gold discoveries being made and developed right now
- ❑ **Investor-friendly**, notably in Burkina Faso and Cote D'Ivoire
- ❑ Easy to operate



Why Invest in Predictive?

- ❑ **“One Stop Shop”** for investment exposure to Birimian gold discovery
- ❑ **10 years West African experience** – strong geological knowledge and contact networks
- ❑ **Large ground position:** >7,000km²
- ❑ **Pipeline of projects:** greenfields to more advanced (with JORC resource)
- ❑ **Gold discoveries made** e.g. Bongou, Nyangboue
- ❑ **Joint Venture (Prospect Generator) business model:**
 - ❖ PDI - early stage exploration to first drilling
 - ❖ JVs with qualified partners with mine development expertise
 - ❖ Retain 30-40% equity on better projects, more if results are outstanding
 - ❖ Backed by Sprott
- ❑ **Low overheads** enable **strong news flow** and multiple catalysts for **share price growth**



Visible gold panned from RC chips, Nyangboue Prospect, Boundiali Permit, Cote D'Ivoire

ASX:PDI - Corporate Summary

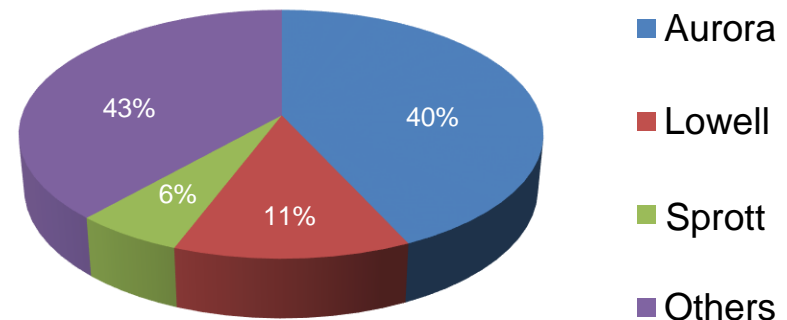
Board Members

Mr. Phillip Jackson	Non-Executive Chairman	Extensive board experience, resources petroleum/minerals, corporate lawyer. Chairman of Aurora (largest shareholder)
Mr. Paul Roberts	Managing Director	Discovery track record, global exploration experience
Mr. David Kelly	Non-Executive Director	Extensive geological, business development and investment banking experience

Capital Structure

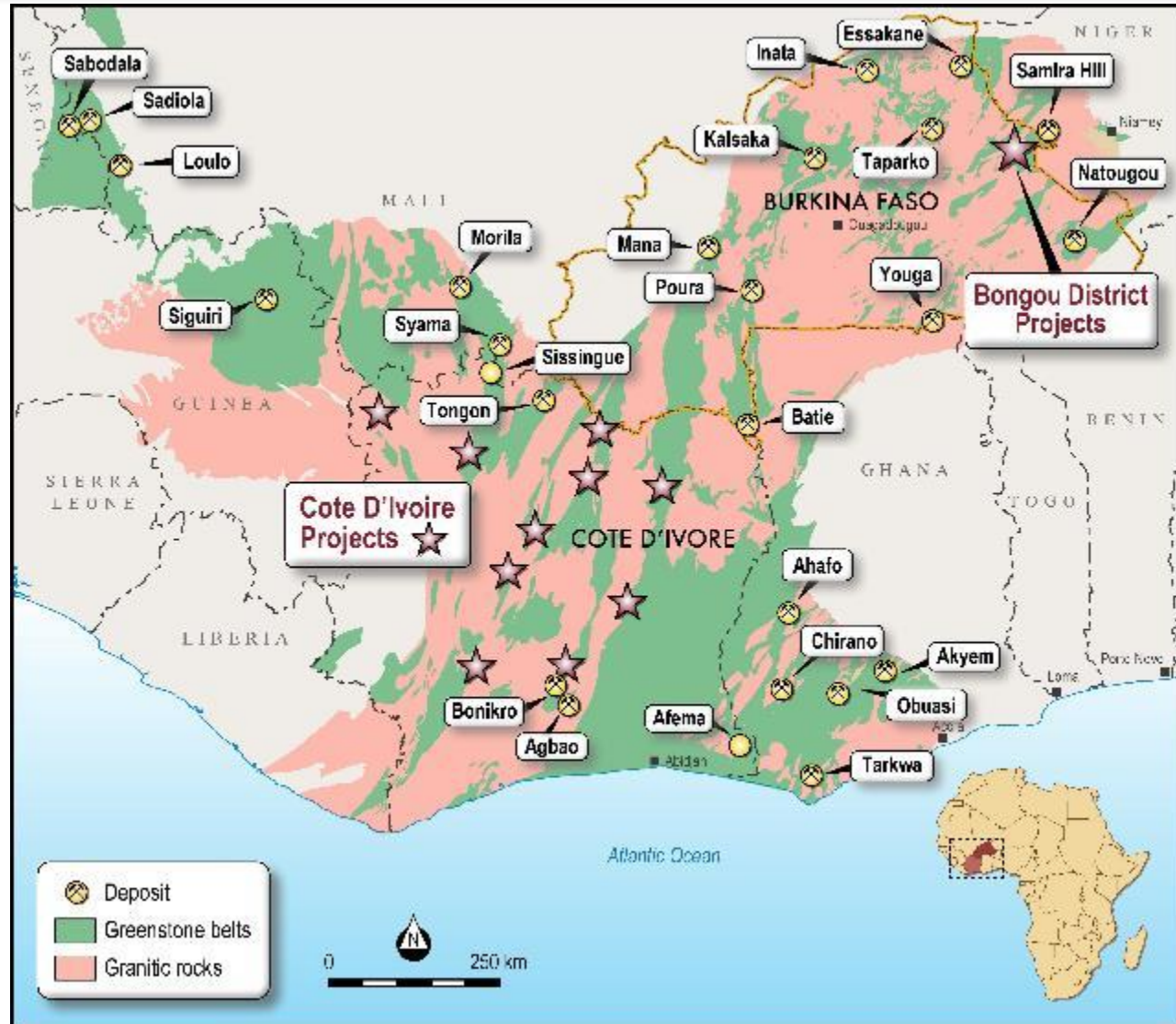
Shares on Issue (ASX:PDI)	163 million
Share Price	A\$0.08
Market Cap. (@0.08)	A\$13.0 million
Cash Position 30/06/17	A\$1.6 million
Enterprise Value	A\$11.4 million
Debt	Nil
Top 20 Shareholders (%)	70%

Shareholders



PDI'S CONSISTENT FOCUS: WEST AFRICA

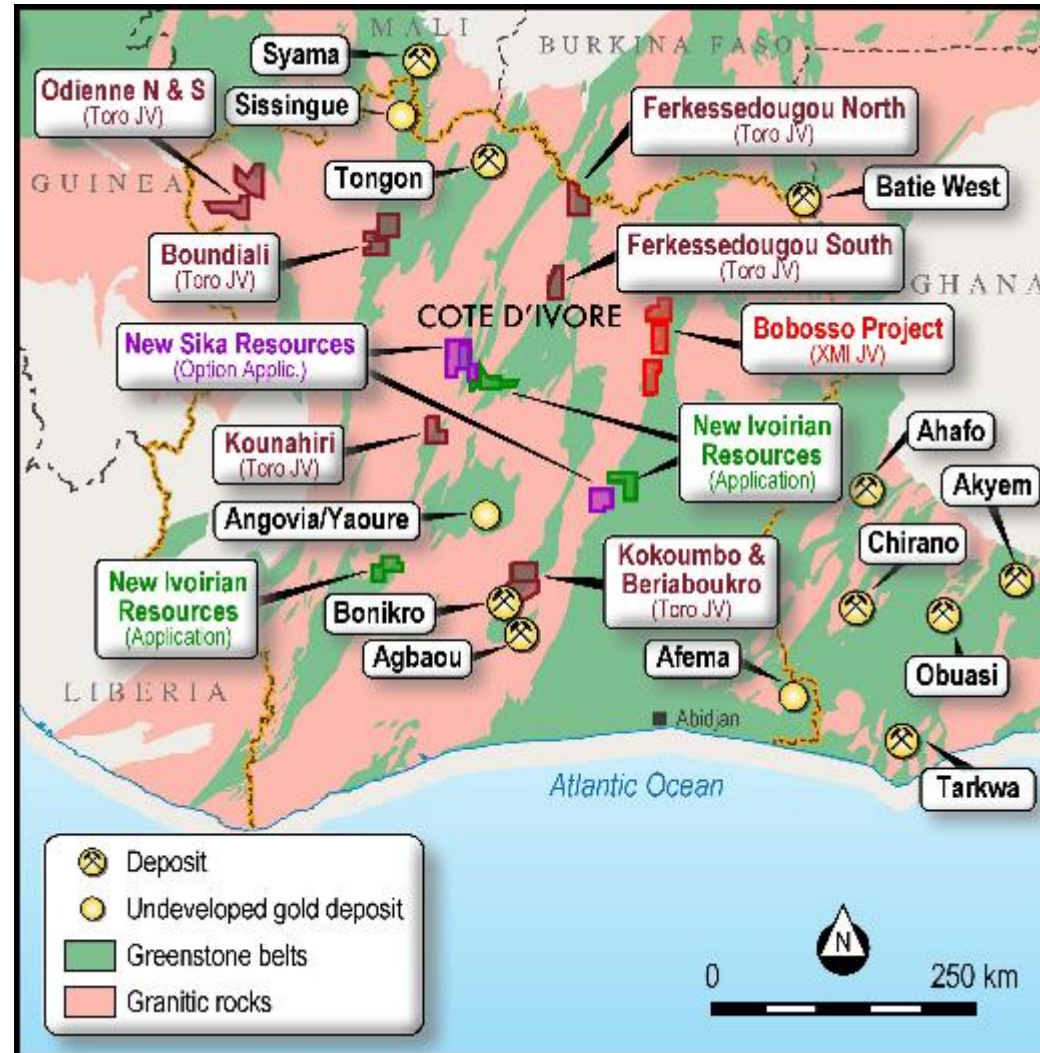
- ❑ **Eleven** projects: grass roots to advanced
- ❑ Assessing projects throughout West Africa
- ❑ Cote D'Ivoire and Burkina Faso:
 - ❖ Strong democracies
 - ❖ Supportive mining policies and laws
 - ❖ >50% of the Birimian greenstones
 - ❖ Francophone Africa – common currency (pegged to €) & legal framework, similar mining/taxation laws



Cote D'Ivoire Permits

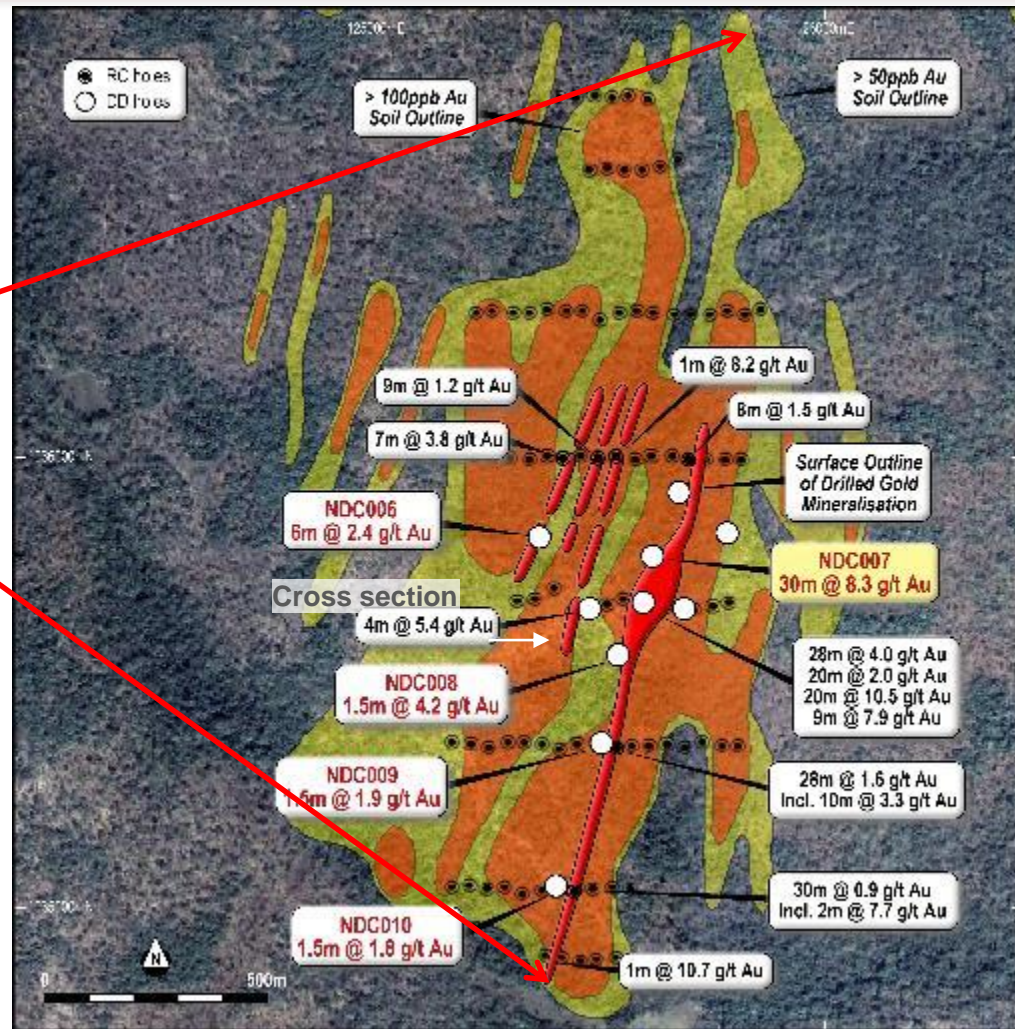
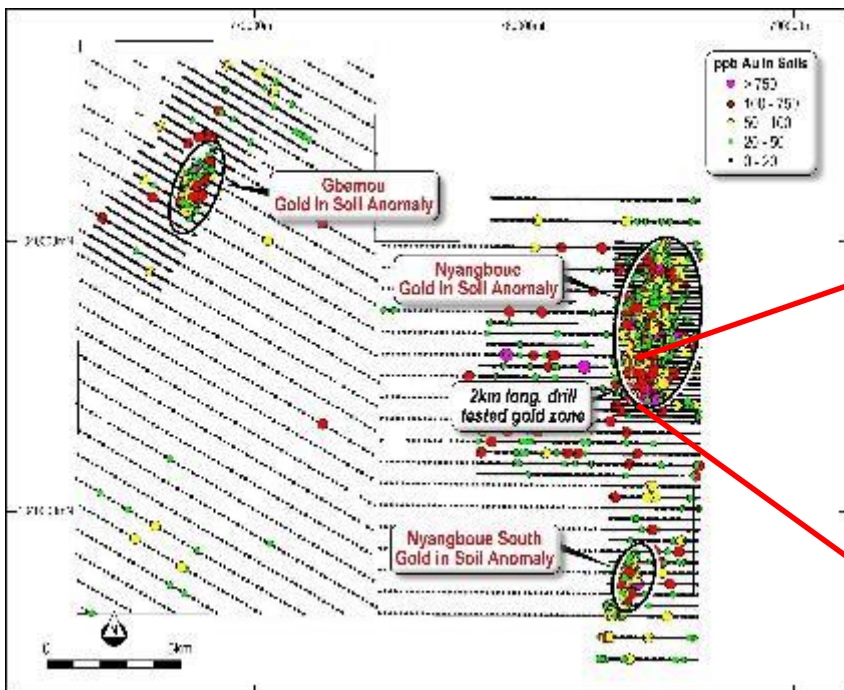
6,000 km² of permits and permit applications

- Toro Gold JV (*brown*):
 - ❖ Toro Gold: successful explorer, developing Mako Gold Mine in Senegal
 - ❖ Toro:PDI 65%:35%. PDI contributing
 - ❖ Excellent results incl. Nyangboue gold discovery
- Bobosso (XMI) JV (*red*):
 - ❖ Progress Minerals: Canadian private, substantial mine development expertise
 - ❖ Progress investing US\$1m for 30%
 - ❖ Very large gold mineralised system
 - ❖ Encouraging diamond drilling results
- Recent acquisitions – Sika Resources Options & Ivoirian Resources (100% PDI) - (*magenta & green*):
 - ❖ All permit areas selected using PDI Predictore target selection system



Cote D'Ivoire Permits

Toro Gold JV – Boundiali permit



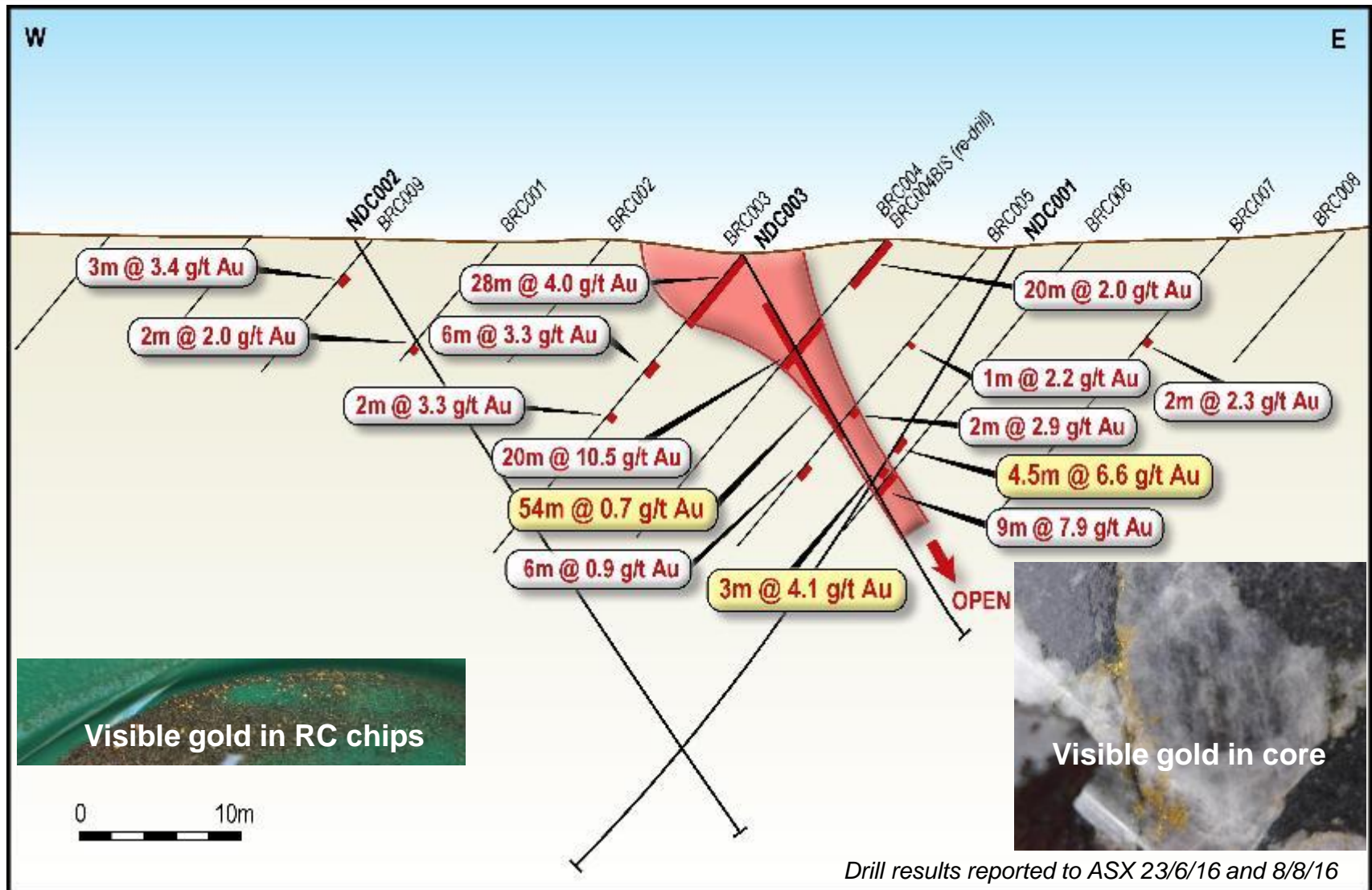
- NYANGBOUE discovery – 1.2km long gold mineralised system.
- Best intercepts (near surface) - 20m @ 10.5g/t Au, 30m @ 8.3g/t Au, 28m @ 4.0g/t Au
- Large untested soil anomalies defined in NW and SE – drilling in progress

Note: Black dots - 2016 RC holes, White dots - 2017 DD holes.

Drill results reported to ASX 23/6/16, 25/7/16, 8/8/16, 12/9/16, 13/10/16, 17/5/17 and 29/5/17

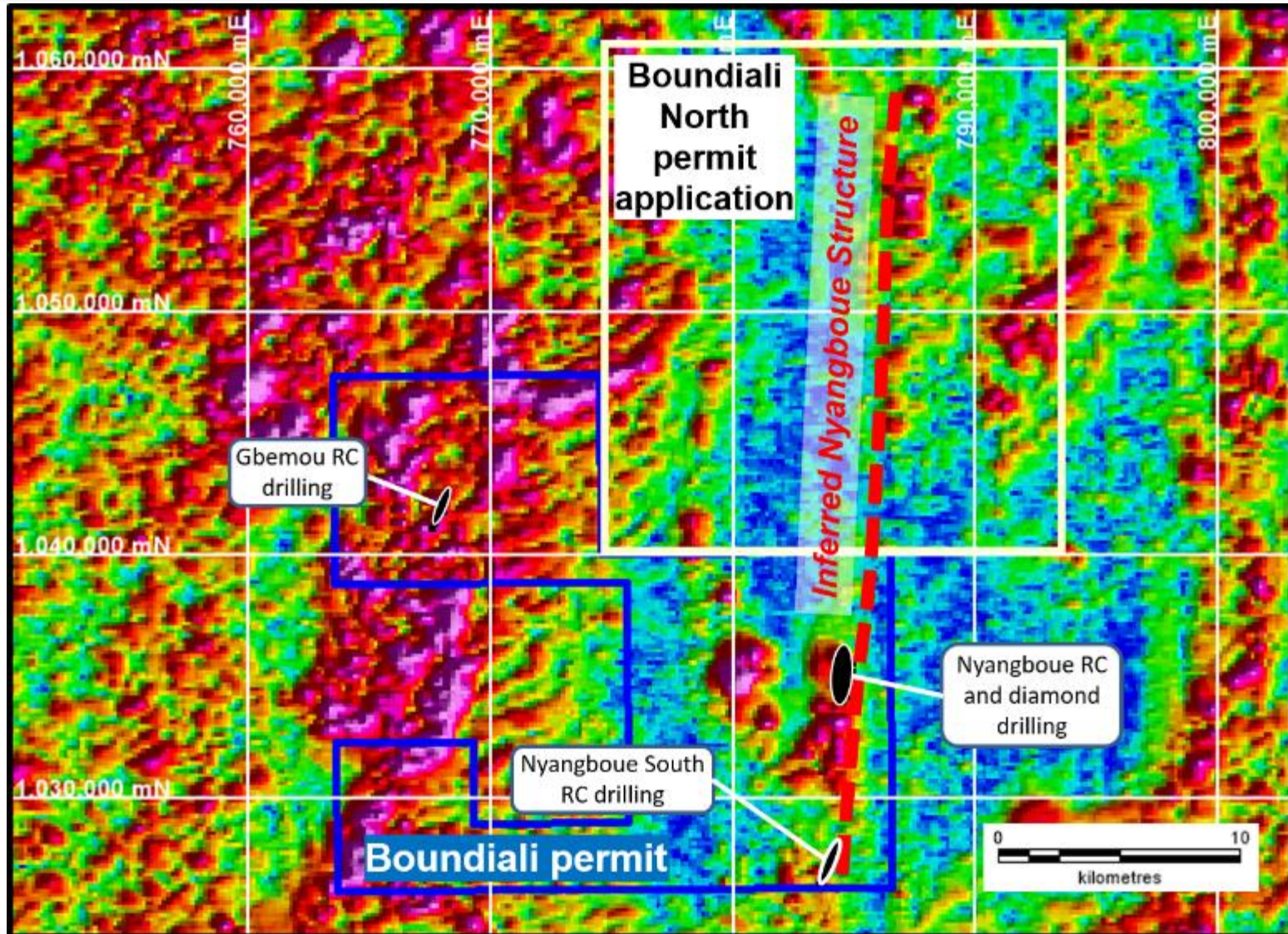
Cote D'Ivoire Permits

Nyangboue Prospect – Cross Section



New Ground along strike to N of Nyangboue

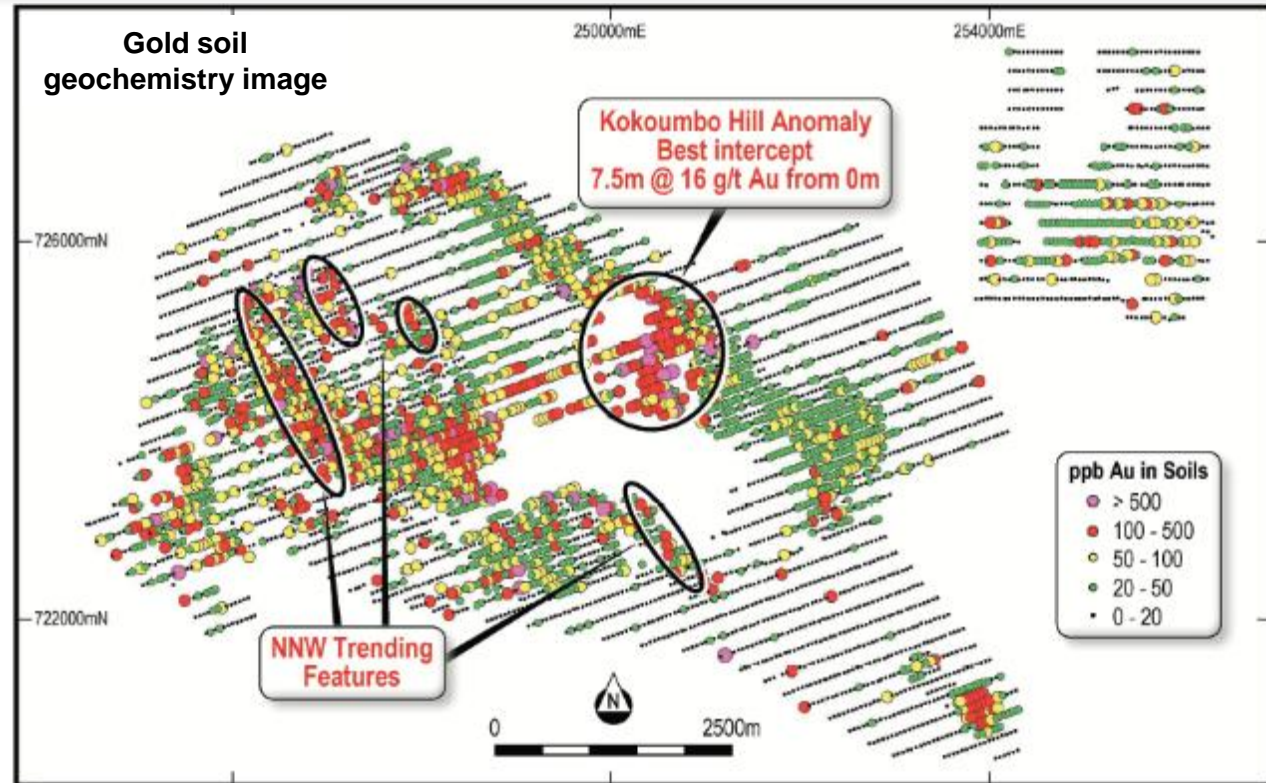
Plotted on regional aeromagnetic image



Cote D'Ivoire Permits

Toro Gold JV – Kokoumbo permit

- ❑ Close to Bonikro and Agbaou Mines
- ❑ First Toro drill hole – **7.5m @ 16g/t Au** from surface
- ❑ NNW soil anomalies
- ❑ Long history of artisanal mining
- ❑ Part of 800km² ground package

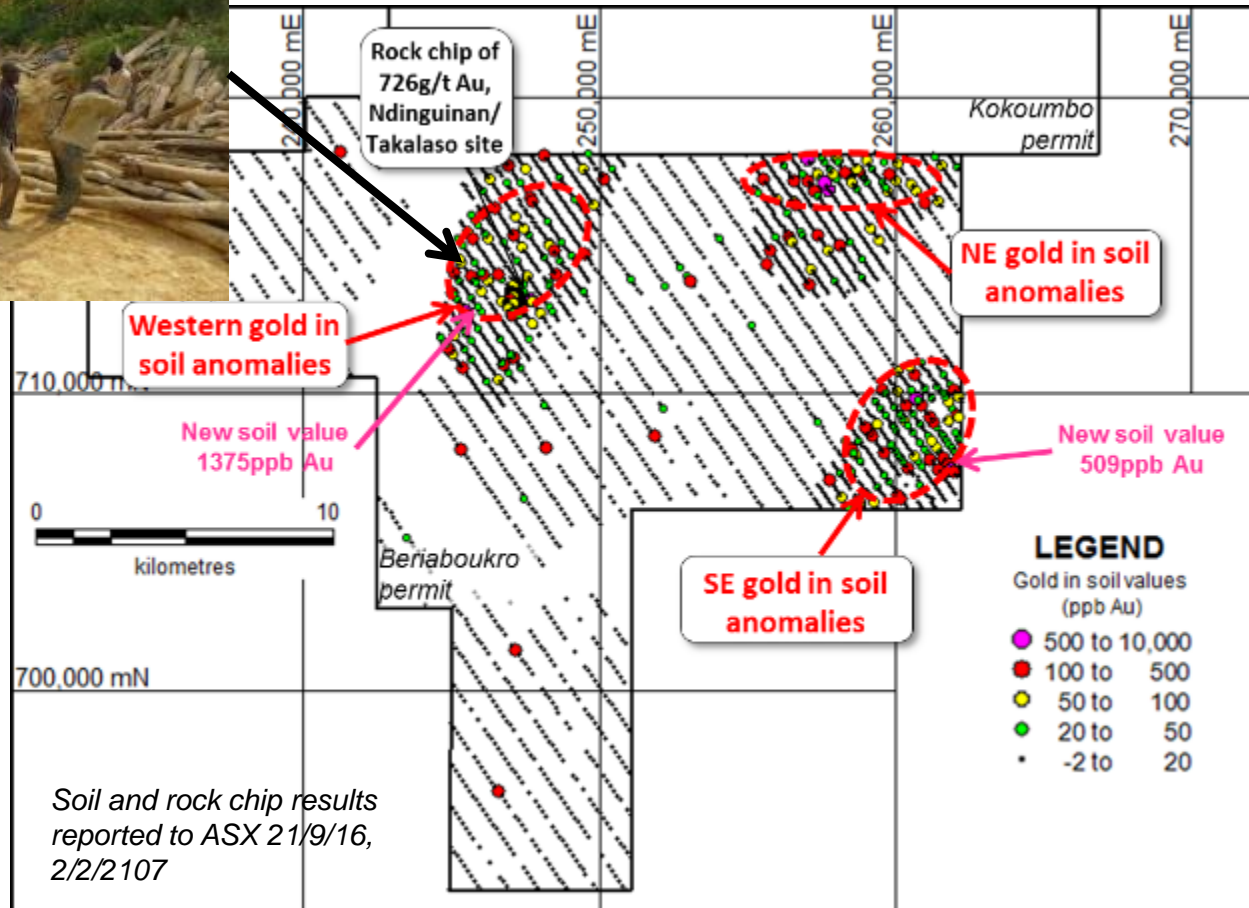


Soil results reported to ASX 20/10/15, 28/4/17
Chip-channel results reported to ASX 10/11/15
Drill results reported to ASX 13/5/16

Cote D'Ivoire Permits

Toro Gold JV – Beriaboukro permit (S of Kokoumbo)

Ndinguinan/Takalaso
artisanal mine site

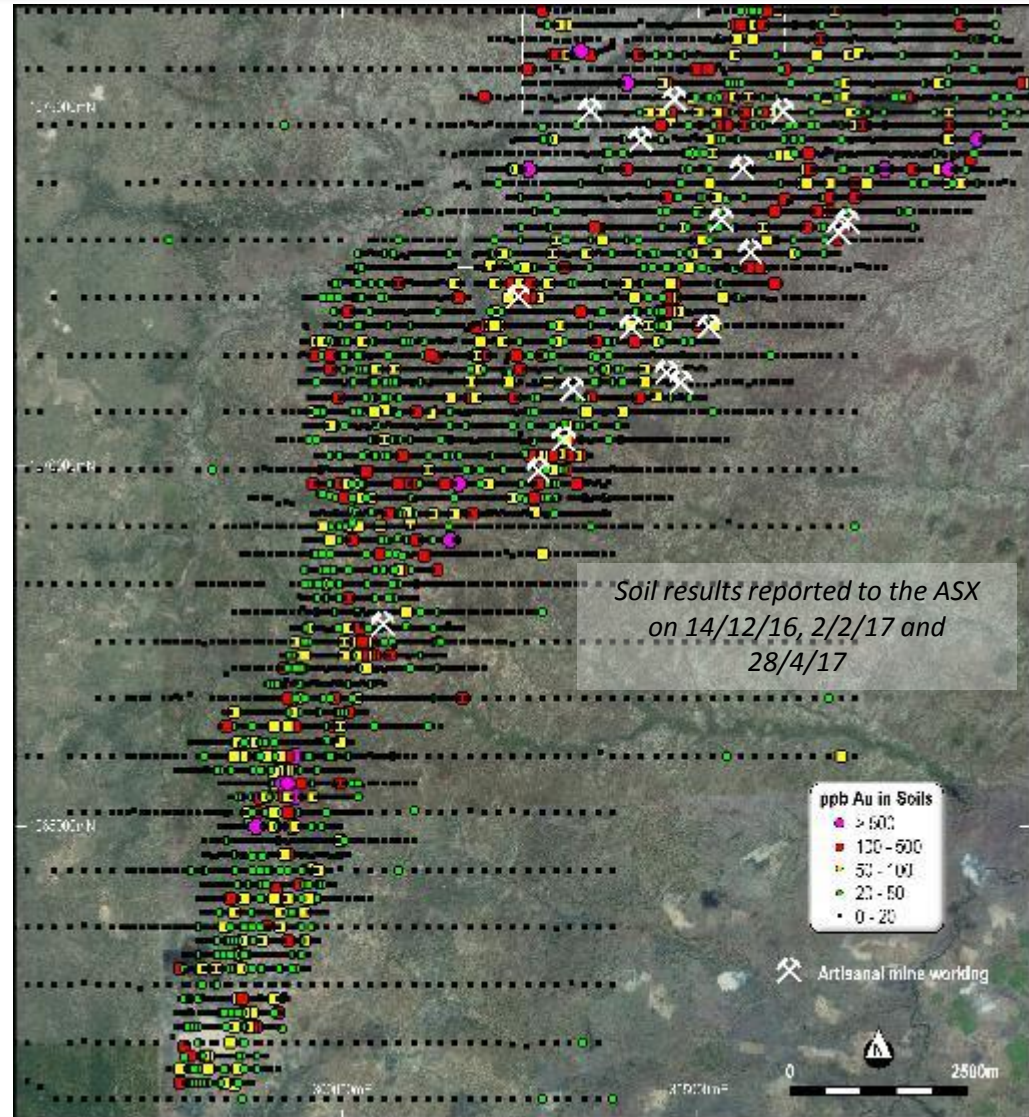


- Multiple soil anomalies
- Impressive workings with high gold grades in rock chips
- RC and/or diamond drilling planned
- 20-30km from Bonikro Mine

Cote D'Ivoire Permits

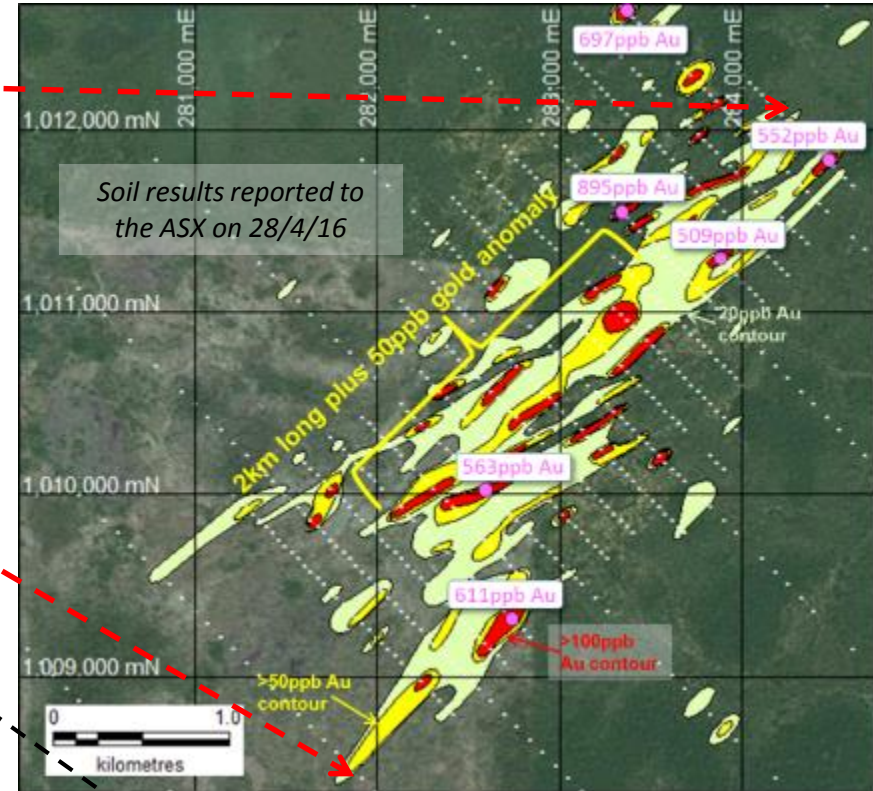
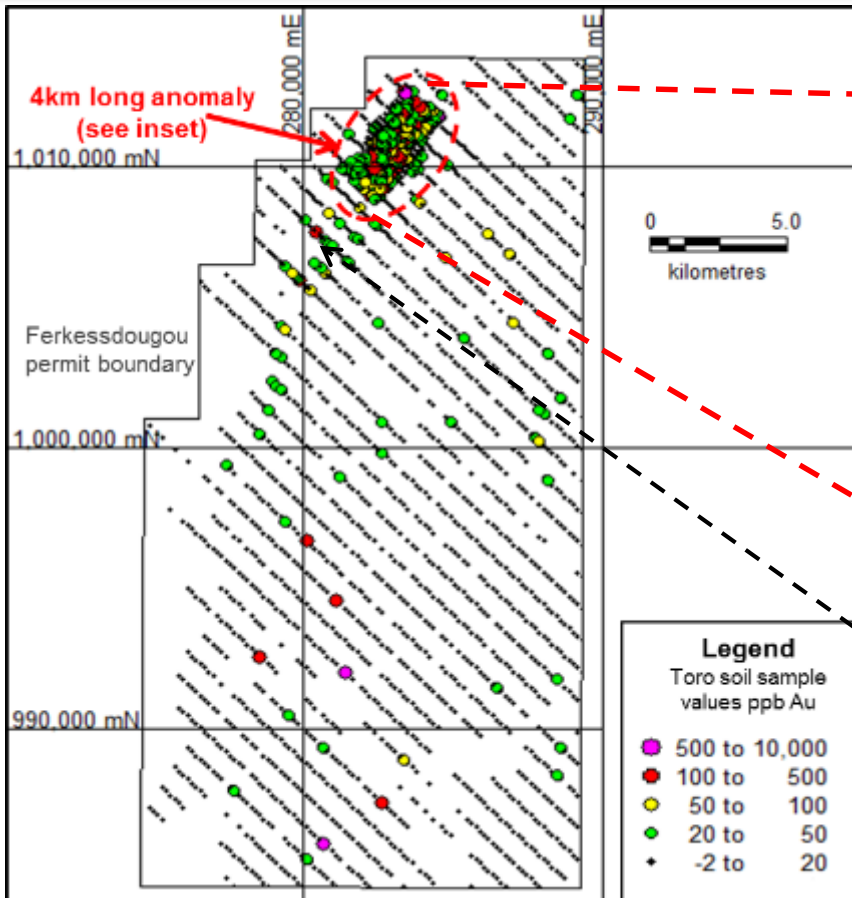
Toro Gold JV – Ferkessedougou North

- ❑ 17km long gold-in-soil trend
- ❑ Inferred NNE trending gold mineralized shear zones
- ❑ 16 soil samples >0.5g/t Au
- ❑ Early days – aeromagnetics planned before RC drilling



Cote D'Ivoire Permits

Toro Gold JV – Ferkessedougou permit

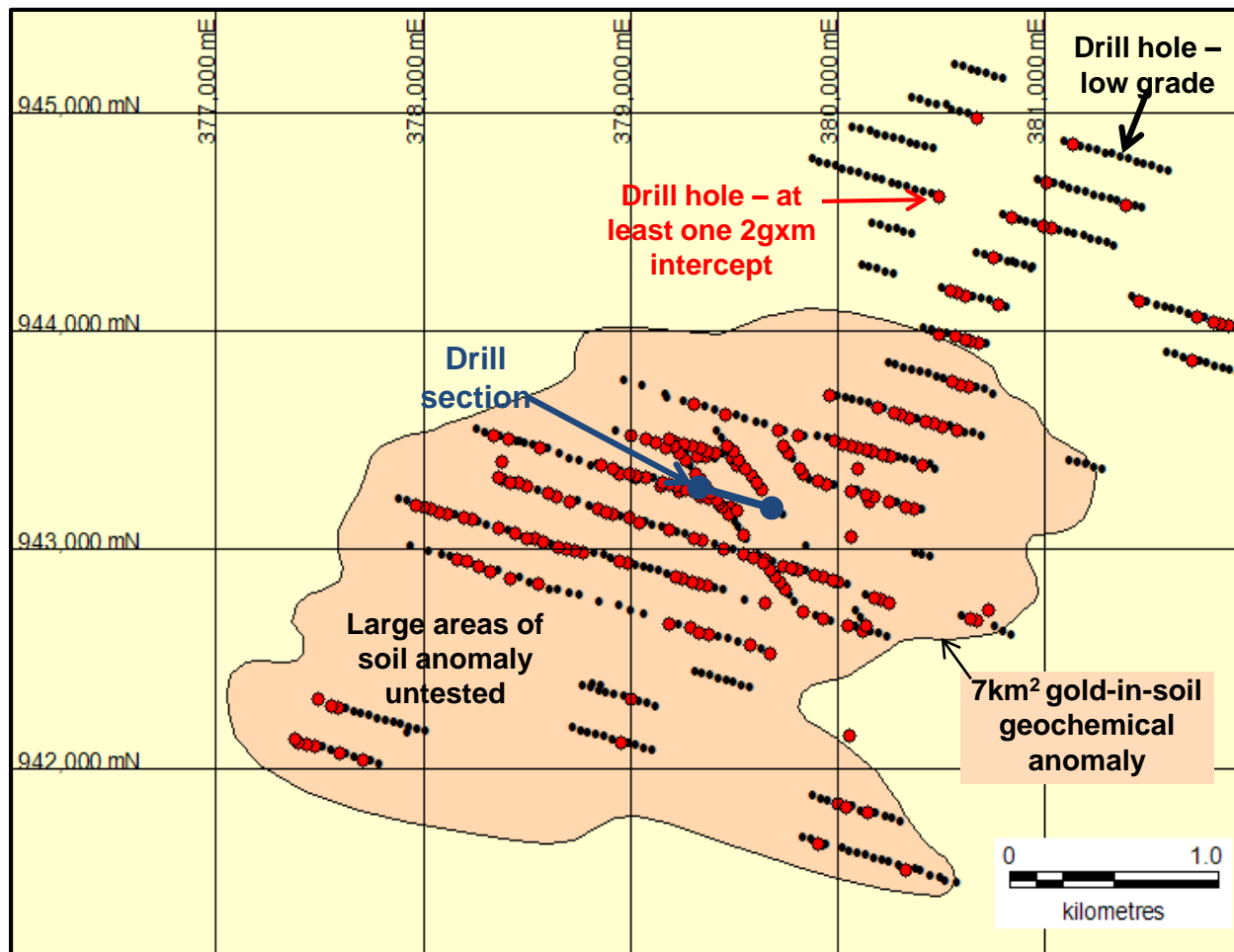


- 4km long anomaly with active alluvial gold workings nearby (e.g. image)
- Aeromagnetics and RC drilling planned

Cote D'Ivoire

XMI Agreement - *Bobosso Project*¹

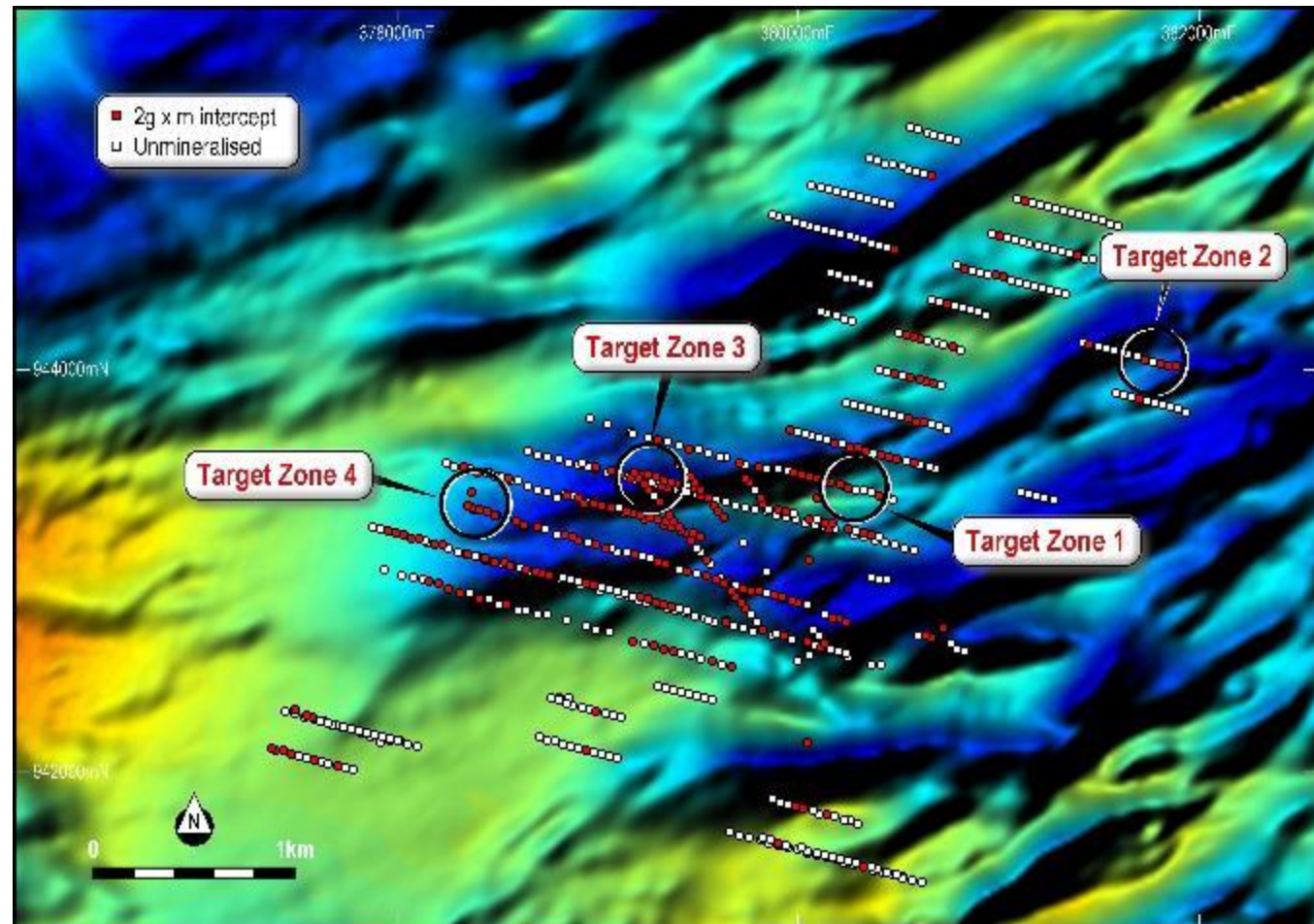
- 7 km² gold soil anomaly, averaging **0.4g/t Au**, peaking at **40g/t Au**¹
- Complex gold system with numerous shallow gold intercepts¹ e.g.
 - 5m @ **21g/t Au** from 48m
 - 32m @ **1.9g/t Au** from 12m
 - 7m @ **9.5g/t Au** from 26m
- Many strong gold anomalies not yet drilled
- PDI at 37%, Progress Minerals funded recent **diamond drilling** program.



Cote D'Ivoire

Drill program on E-W structures in magnetics

- Historical drilling¹ at oblique angle to structures:
- gaps along strike between drill lines of **about 500m**
- North-dipping & flat mineralisation styles
- Several east-west structures untested by drilling
- Additional discovery potential along 90km of **Hounde Belt**²

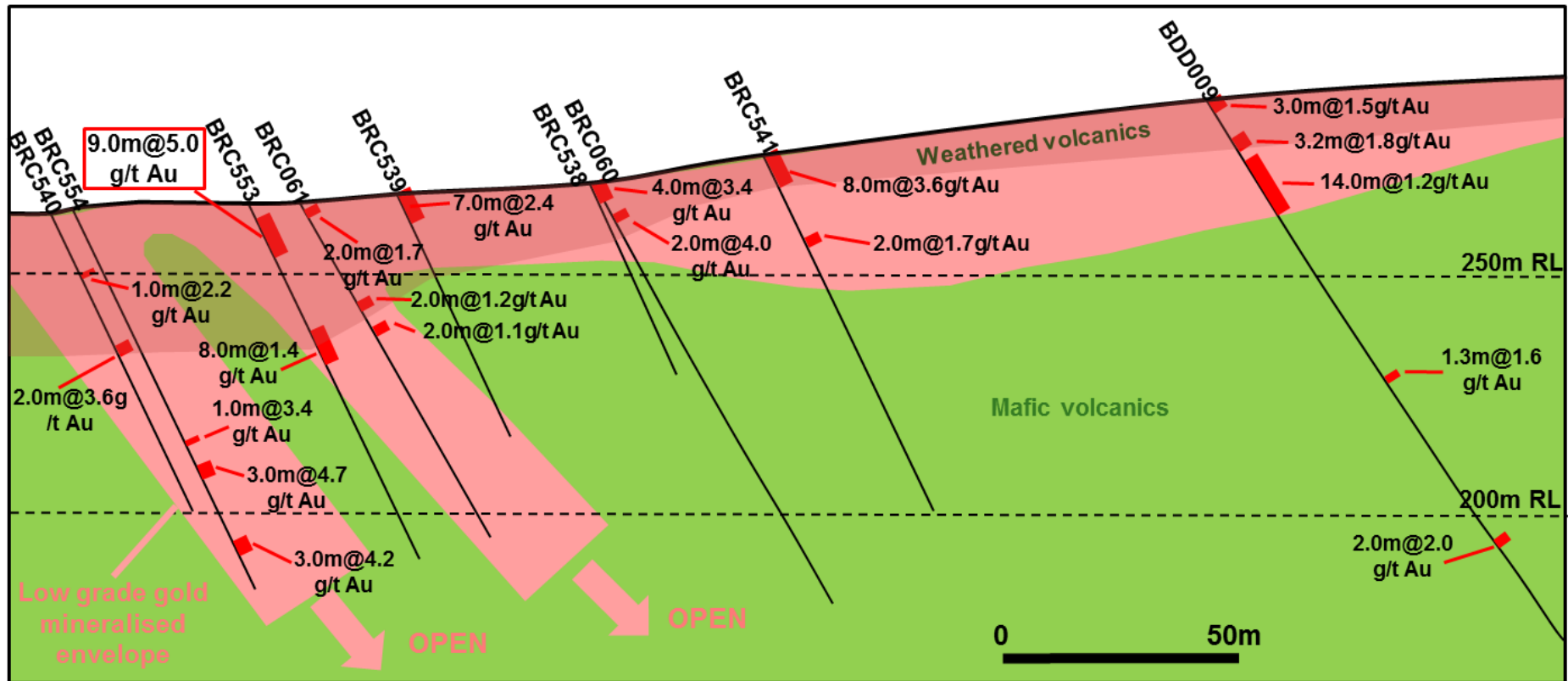


¹ ASX release dated 28/10/15

² Hosts Semafo's Mana Mine and Roxgold's Yaramoko Mine, Burkina Faso

Cote D'Ivoire

Bobosso Project – Near surface mineralisation



Gold mineralisation below colluvial gold zone – primary alteration with apparent flat dip

Historical drill results released to the ASX on 28/10/15

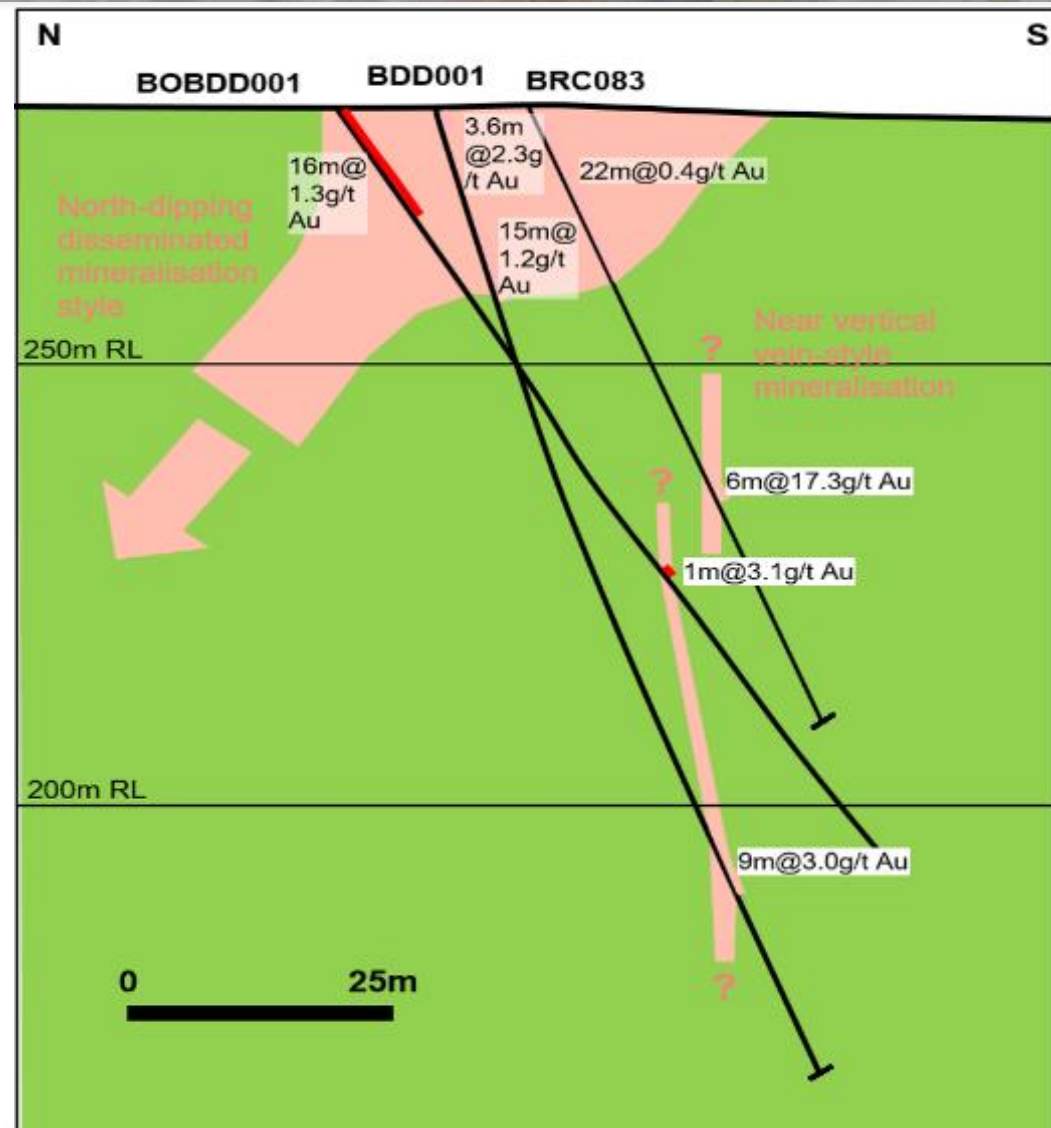
Visible gold in outcrop (flat mineralised zone)



Cote D'Ivoire

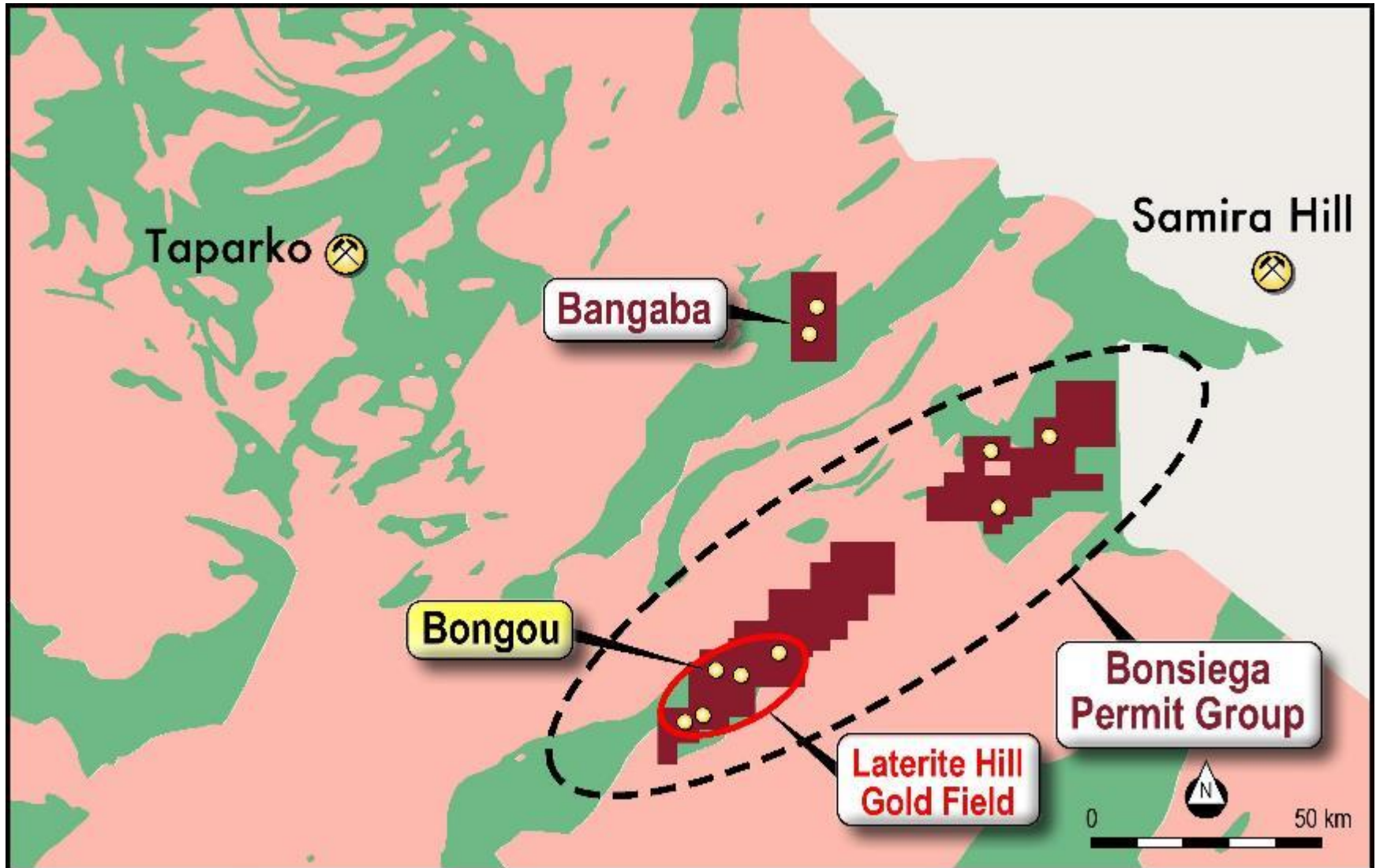
New Bobosso Drill Results

- ❑ 17 diamond drill holes, 16 with reportable gold grades
- ❑ Better intercepts¹ include:
 - ❖ **8.7m at 3.3g/t Au** from 39.6m incl. 1.2m at 14.3g/t Au
 - ❖ **17m at 1.47g/t Au** from 41m incl. 2m at 6.95g/t Au
 - ❖ **28m at 1.00 g/t Au** from 0m incl. 16m at 1.32g/t Au
 - ❖ **13.5m at 1.36g/t Au** from 77m
 - ❖ **9.3m at 1.72g/t Au** from 0m
 - ❖ **2m at 4.64g/t Au** from 54m
- ❑ E-W mineralization continuity demonstrated on two targets
- ❑ Very small area tested so far



¹Drill results released to the ASX on 20/07/17

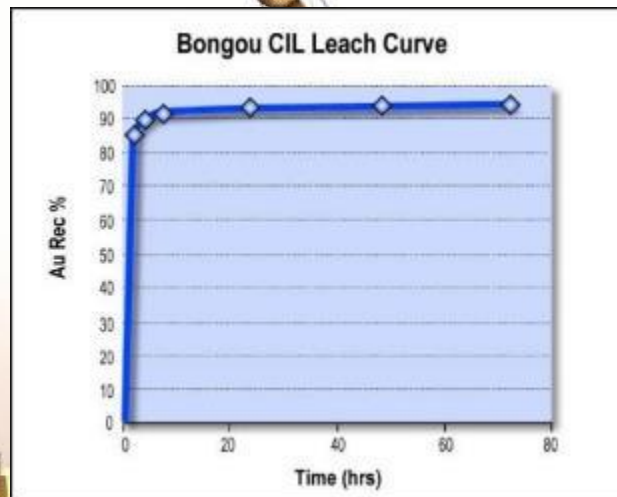
Burkina Faso – Major ground position, advanced project



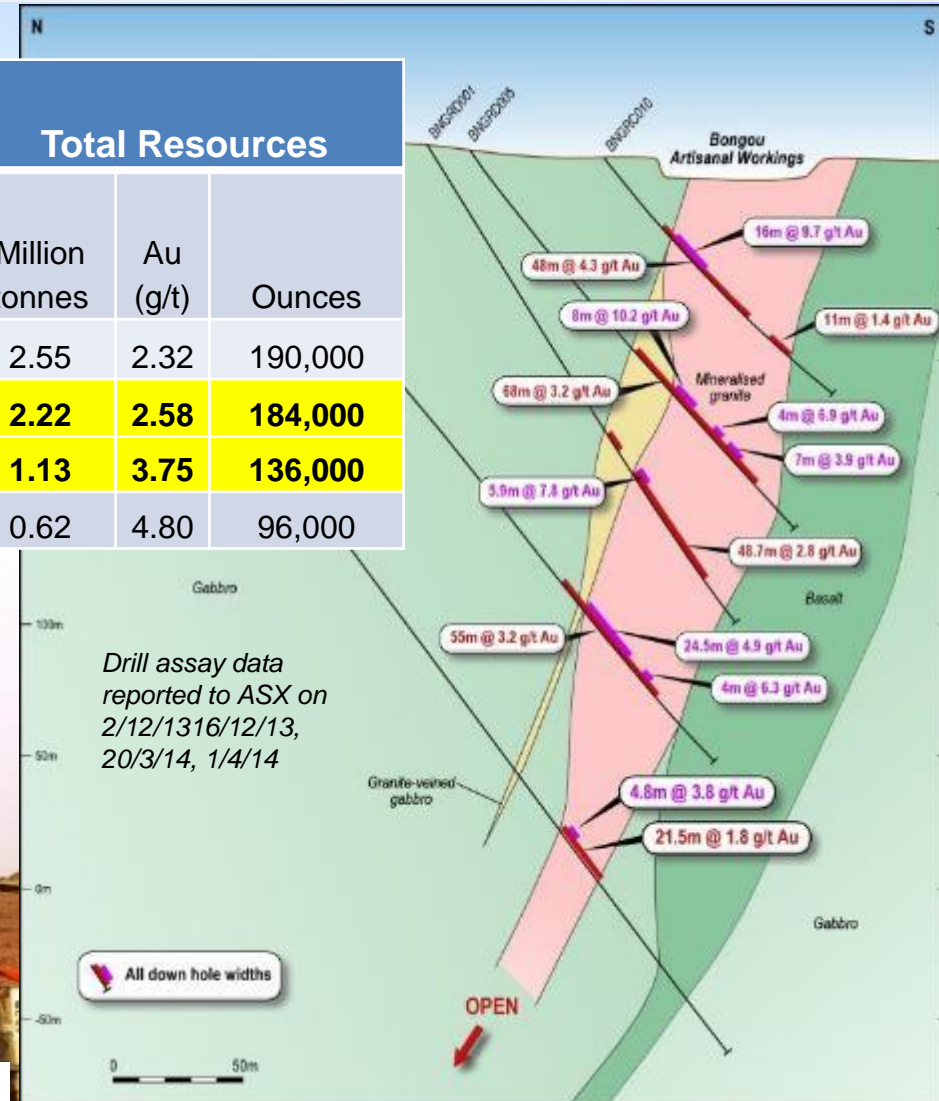
Bongou Gold Discovery

Mineral Resource Estimate (Reported to ASX on 4th Sept 2014)

	Indicated Resources			Inferred Resources			Total Resources		
Cut-off grade	Million tonnes	Au (g/t)	Ounces	Million tonnes	Au (g/t)	Ounces	Million tonnes	Au (g/t)	Ounces
0.4	1.21	2.54	99,000	1.33	2.13	91,000	2.55	2.32	190,000
0.8	1.14	2.67	98,000	1.09	2.48	86,000	2.22	2.58	184,000
2.0	0.64	3.64	75,000	0.49	3.90	61,000	1.13	3.75	136,000
3.0	0.34	4.68	52,000	0.28	4.95	45,000	0.62	4.80	96,000



Note: These metallurgical results were reported to the ASX on 14 May 2013. This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported

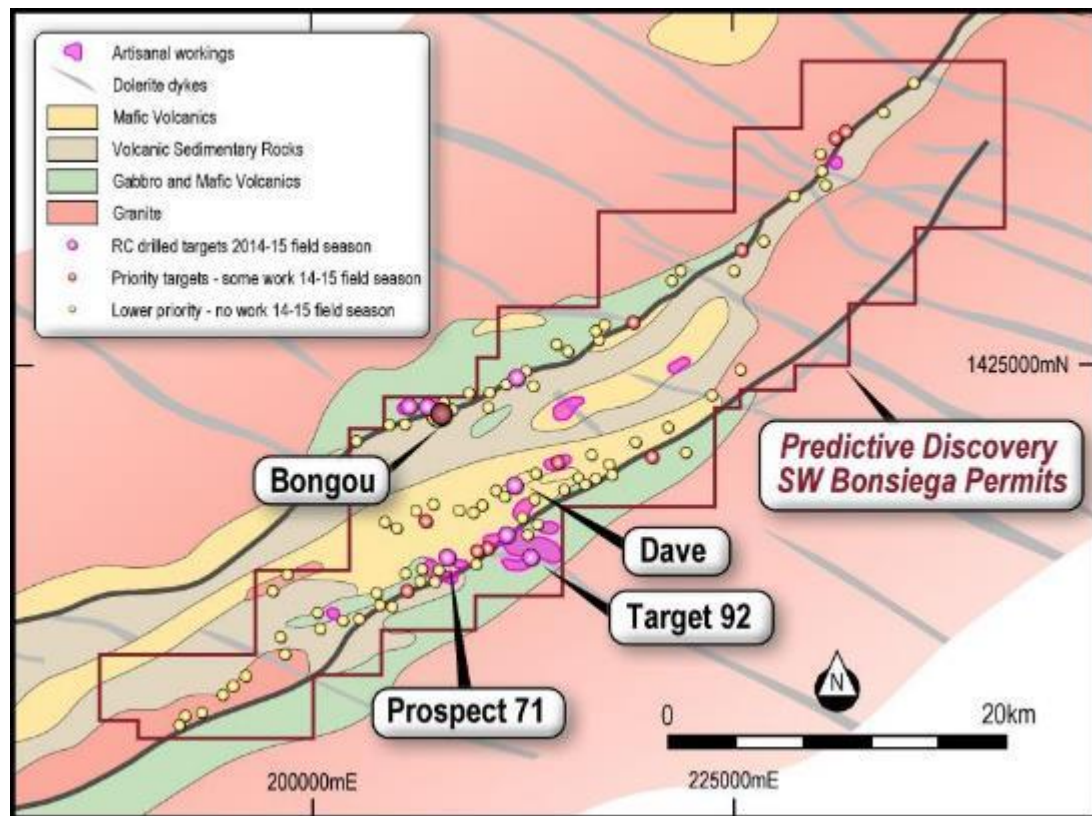


Bongou - Nearby Gold Potential

- ❑ Over 90 selected targets
- ❑ Exploration Target calculation (excluding Bongou, within 10km of Bongou – ASX release 3/9/15):
 - ❖ On: Dave Prospect, Target 92, Laterite Hill Prospect 71, near Bongou targets.
 - ❖ 9.4-10.4Mt
 - ❖ 1.5-1.7g/t Au
 - ❖ **460,000 – 560,000oz Au**

The potential quantity (tonnage) and grade of the Exploration Target is conceptual in nature. There has been insufficient exploration to estimate Mineral Resources and it is uncertain if further exploration will result in the estimation of Mineral Resources.

- ❑ Potential for heap leach - sighter metallurgical testwork on Dave RC chips gave 89% Au recovery
- ❑ Additional potential within 80km: Bira, Tambiri, Solna



Land tenure notes: 5 permits covering 665 km². PDI owns 100% of 620 km², and is earning 100% on one peripheral 45 km² permit without RC or DD drilling. Permits for all key prospects are renewed to mid-2017.

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EXPLORATION TARGET DATA AND PARAMETERS

Data: Gold intercepts from 291 reverse circulation holes, 4 air core holes and 5 diamond drill holes were used in the calculation. The holes were mostly drilled on lines spaced from 50m to 100m apart, with spacing along the lines ranging from 10m to 50m.

Parameters: 0.5 g/t gold cut-off grade; minimum downhole intercept width of 2m and a minimum grade times width intercept of $2g \cdot m$; minimum internal waste of 3m except for a few holes where it was clear that the holes had drilled almost down-dip and where the inclusion of larger down-hole intervals of internal waste made geological sense; maximum of 100m strike extent from drill holes (where the continuity of the mineralisation is supported by mapping and/or the location of artisanal workings and/or anomalous auger results); maximum of 70m vertical extent below surface; Dry bulk density estimates as follows: laterite - 2.2, saprolite - 1.8, weathered rock between base of saprock and base of complete oxidation (BOCO) - 2.3, fresh mafic volcanics - 2.8, fresh felsic to intermediate rocks including granite and granodiorite - 2.7.

The calculation was carried out using a cross sectional method with volumes projected half way to the next hole (on the section) or half way to the next section to a maximum distance of 100m (along strike).

Expanding Footprint & Increased Drilling in W Africa

News flow/share price catalysts

Item	New Field Season from Oct 2017
Bongou area, Burkina	JV with Co. with mine development capability to advance projects towards feasibility. New major work program (incl. RC drilling) leading to new resource estimation.
Boundiali, Cote D'Ivoire (Toro)	Aeromagnetics & RC drilling planned. Soil geochemistry on new Boundiali North permit (on grant)
Kokoumbo-Beriaboukro, Cote D'Ivoire (Toro)	RC & diamond drilling planned.
Ferkessedougou and Ferkessedougou North	Aeromagnetic surveys then trenching & RC drilling .
Bobosso, Cote D'Ivoire (XMI)	New RC drilling program in December Quarter.
New West African projects	6 new gold-focused permit applications in Cote D'Ivoire; commence geochemistry/geology work on grant. Project Generation in Burkina Faso, Mali & Cote D'Ivoire.

Predictive Discovery Limited West African Gold Explorer



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