



## EXCITING NEW GOLD DISCOVERY IN GUINEA'S SIGUIRI BASIN

CORPORATE PRESENTATION  
MAY 2020 | ASX:PDI



# Forward looking statements and 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.



# Well-funded exploration specialists focused on **district-scale greenfields gold discovery** in West Africa

1

**Predictive has spent 10 years building a large landholding across West Africa**

- ▶ 18 projects totalling 6,000km<sup>2</sup> across Guinea, Cote D'Ivoire and Burkina Faso

2

**During this time, the Company has made several significant gold discoveries...**

- ▶ Bongou Gold Deposit: 184,000oz @ 2.6g/t gold
- ▶ Nyangboue: 30m at 8.3g/t gold & 28m at 4.04g/t gold
- ▶ Ouarique South: 45.3m at 3.16g/t gold from 45.9m including 9m at 10.31g/t gold

3

**...in early 2019 the Company began work in Guinea's Siguiri Basin...**

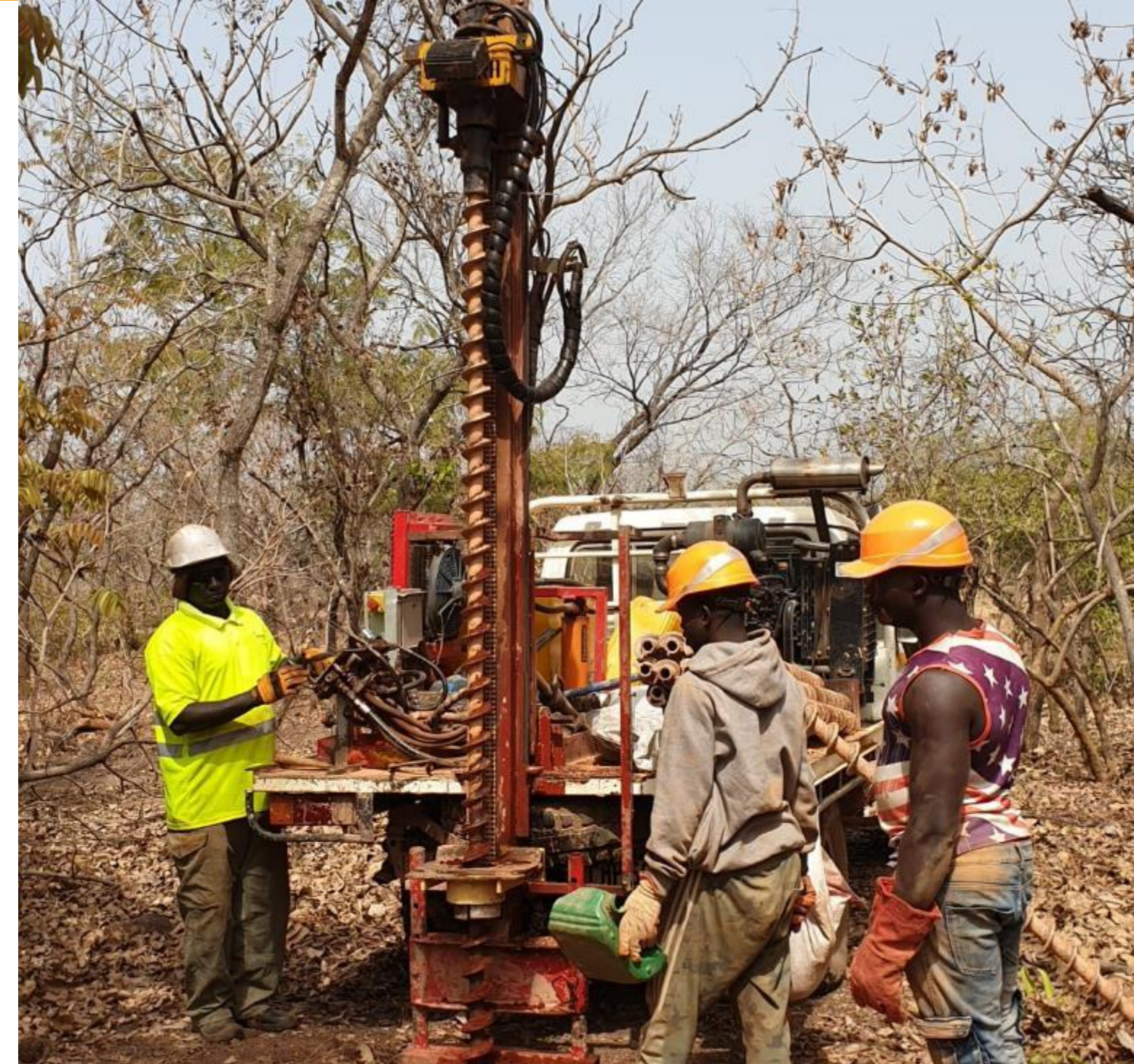
- ▶ Early exploration across four permits included rock/soil geochemistry, BLEG stream sediment sampling, power auger drilling and trenching
- ▶ The Company narrowed its focus to the Kaninko Gold Project which showed the most promise

4

**...the first drilling program at Kaninko was a success...**

- ▶ 46m (to EOH) at 6.58g/t gold including 10m at 26.52g/t gold
- ▶ 42m (to EOH) at 2.92g/t gold from 8m
- ▶ 50m (to EOH) at 1.53 g/t gold from surface including 20m at 2.51 g/t gold from 30m

**...confirming a new gold discovery at the NE Bankan prospect.**





# A high-quality gold portfolio with 100%-owned projects and a joint venture with Resolute Mining



## Kaninko Gold Project, Guinea

- ▶ Flagship project and a new greenfield gold discovery
- ▶ 46m (to EOH) at 6.58g/t gold including 10m at 26.52g/t gold<sup>1</sup>
- ▶ 100%-owned, shallow, saprolite hosted gold mineralisation
- ▶ Remains open to the North and South
- ▶ 50,000m of power auger, RC and DD drilling underway



## Koundian Project, Guinea

- ▶ New, right to acquire 100%, limited historical, confirmed high-grade gold<sup>2</sup>
- ▶ 4m at 19.80g/t gold from 50m, 2m at 7.00g/t gold from 44m
- ▶ Located along strike from 2 Moz Tri-K gold deposits



## Ferkessedougou North, Cote D'Ivoire

- ▶ JV with Resolute Mining, Ouarigue South Prospect
- ▶ 45.3m at 3.16g/t gold from 45.9m including 9m at 10.31g/t gold<sup>3</sup>
- ▶ Infill and extension planned to further test down dip extent



<sup>1</sup>ASX Announcement – 15 April 2020

<sup>2</sup>ASX Announcement – 7 April 2020

<sup>3</sup>ASX Announcement – 4 June 2019





# Corporate Overview

## CAPITAL STRUCTURE

**636m**

SHARES  
ON ISSUE

**\$1.9m\***

CASH AS AT  
15<sup>th</sup> of April 2020

**\$43.9m**

MKT CAP at A\$0.069

**\$42.0m**

ENTERPRISE  
VALUE

**94m**

OPTIONS  
Exc. at \$0.018

### TOP 4 HOLDERS

CAPITAL DI - 14.15%

AURORA MINERALS - 7.81%

HSBC LIMITED - 5.92%

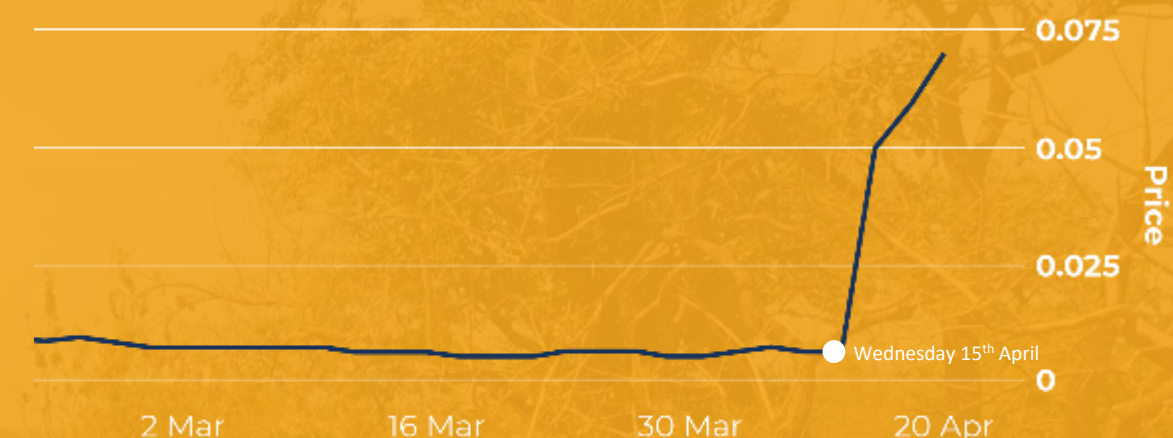
LOWELL RESOURCES - 5.73%

\*\$9m in additional funds (180m more shares)  
expected from recently announced capital  
raising - ASX Announcement 05/05/2020

## 48 Hours When Predictive Shook The ASX

733% single largest 1-day gain on the  
ASX in the past 3 years

+1 Billion shares traded in 48 hours  
across ASX and Chi-X+



## Transformational 2 Months

15/04 - **Outstanding Drill Results from New Gold Discovery in Guinea**

16/04 - **Diamond Drilling Extends Gold Mineralisation** at Ouarigue CDI

27/04 - **44m at 2.06g/t gold** from Bankan Creek, Kaninko, Guinea

30/04 - Final Drill Results, Bankan Creek, **Kaninko Project, Guinea**

05/05 - **Transformational Capital Raising** to Advance Kaninko Guinea



# One of West Africa's most **respected exploration focused** teams supported by a **disciplined commercial Board**

An accomplished exploration team who have made significant gold finds...



**PAUL ROBERTS**

BSc, MSc, FAIG

**Managing Director**

Paul is a geologist with 11 years experience working in West Africa and is associated with a number of discoveries including the Henty gold deposit in Tasmania, and the PDI Kaninko discovery.



**BARRY MURPHY**

B.A, Hons, Ph.D

**Chief Geologist**

Barry is a structural geologist with 10+ years experience working in West Africa with experience in Australia, Sudan, DRC, South America, Indonesia and Europe. Barry played a major role in the the regional targeting work that led to the Kaninko discovery.



**AIME NGANARE**

MSc, MBA

**Principal Geologist**

Aimé has over 18 years of experience in orogenic gold exploration in Central and West Africa, including his role as General Manager of the Geological Survey of the Central African Republic.

...and a disciplined Board of commercially focused executives who fund high-quality exploration



**PHILLIP JACKSON**

B. Juris (LLB), MBA, FAICD

**Non-executive Chairman**

Phillip has had a long career in the petroleum and mining industries along with extensive experience as a public company director, particularly in the resources sector.



**STEVEN MICHAEL**

B.Com, CA, MAICD

**Non-executive Director**

Steven has over 25 years' experience in the global resources sector specialising in corporate finance and equity capital markets.



# Kaninko Discovery

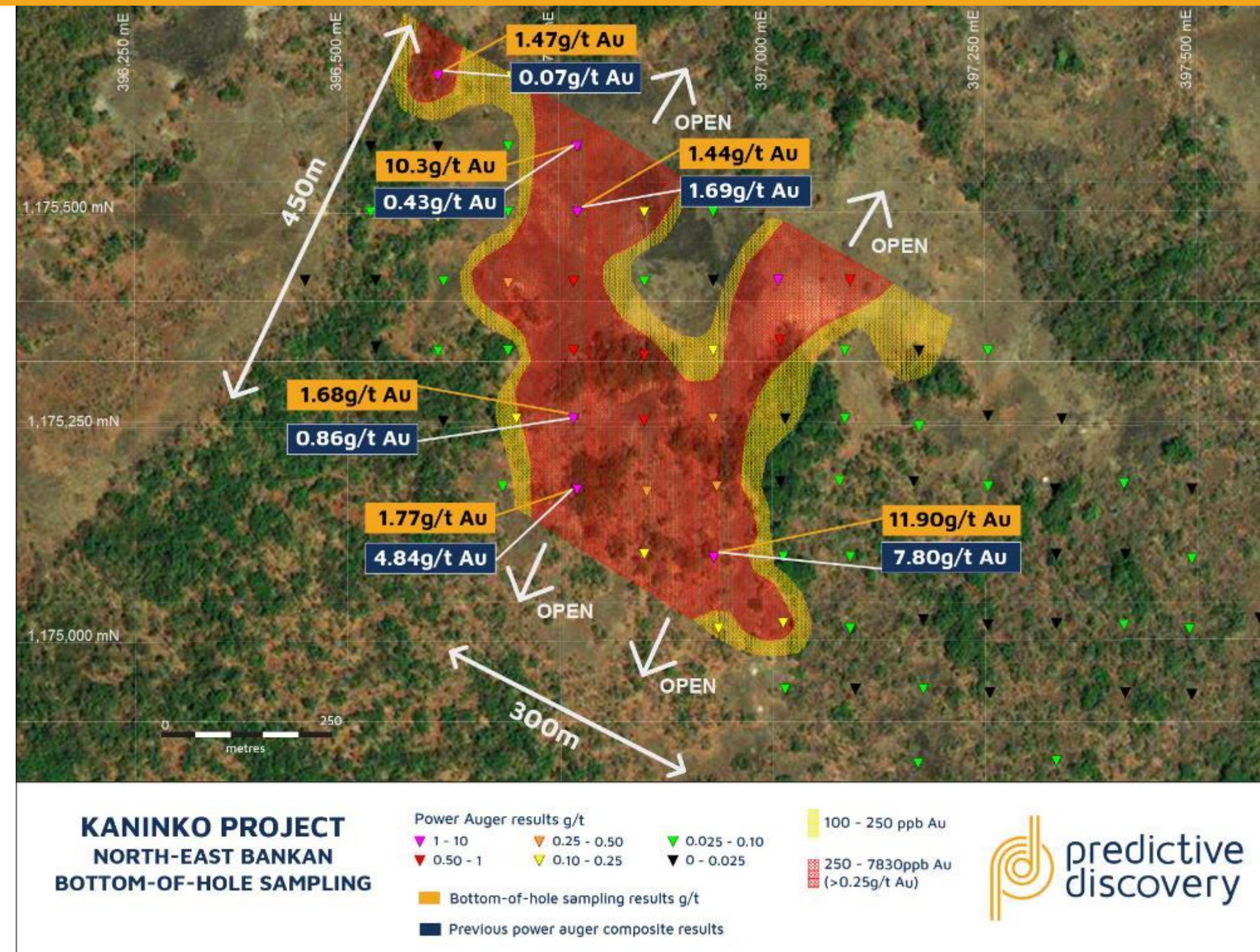
Guinea





# Power auger drilling outlined the **NE Bankan Creek Prospect**, a 12.8 ha north-north-east trending gold zone, open to the north and south

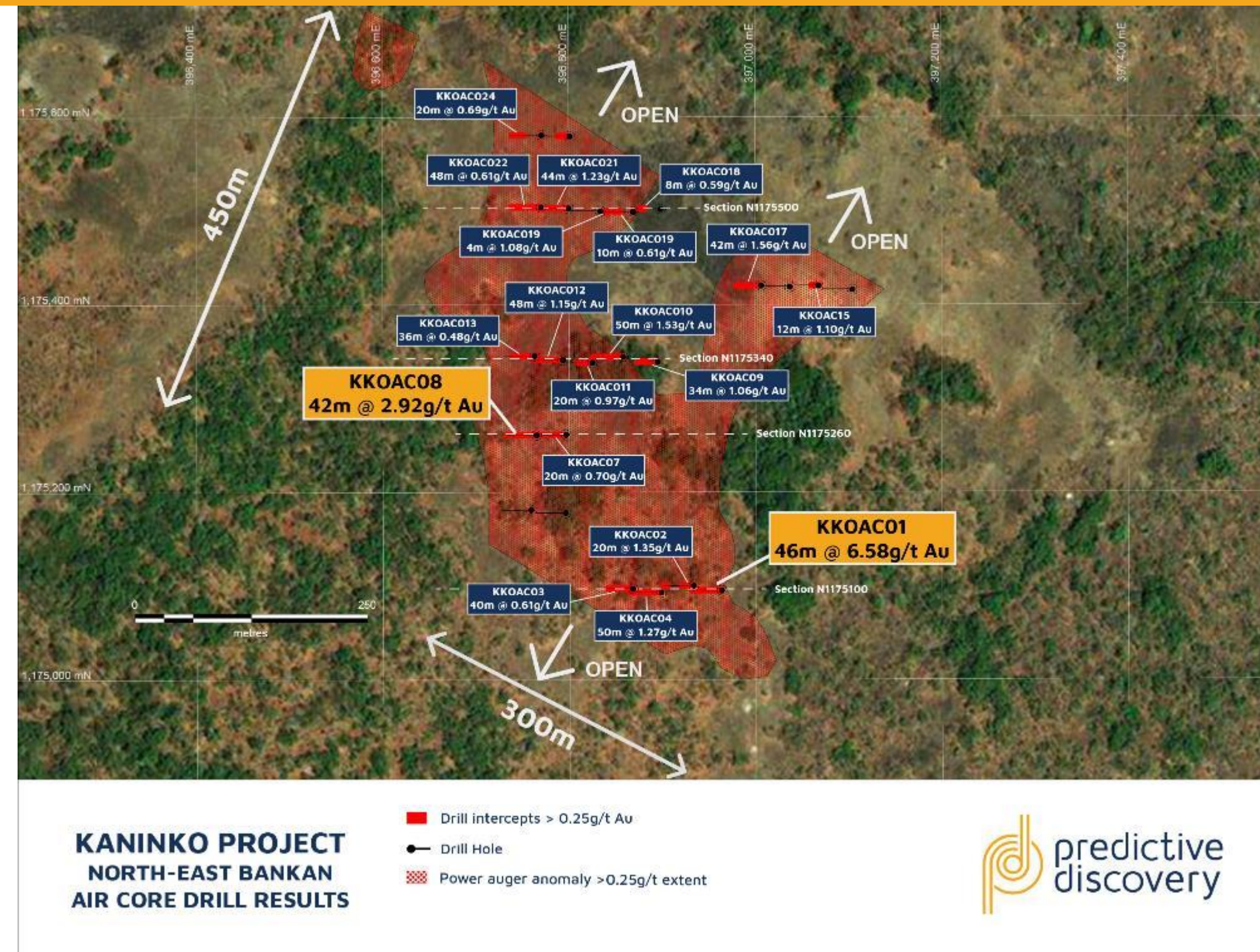
- ▶ Negligible previous exploration
- ▶ Initial Authorisation granted in June 2019, then Permit grant in October 2019
- ▶ Initial work - geology, rock/soil geochemistry, BLEG stream sediment sampling
- ▶ Power auger drilling and trenching on NE Bankan and Bankan Creek
- ▶ **12.8 ha +0.25g/t Au power auger anomaly** at NE Bankan (average of 18 holes 1.5g/t Au<sup>1</sup>)
- ▶ **DRILL DISCOVERY at NE Bankan Creek announced to ASX on 15 April 2020**





# First-up AC/RC drilling returned **thick, high-grade gold intersections**, from surface to a depth of 50m

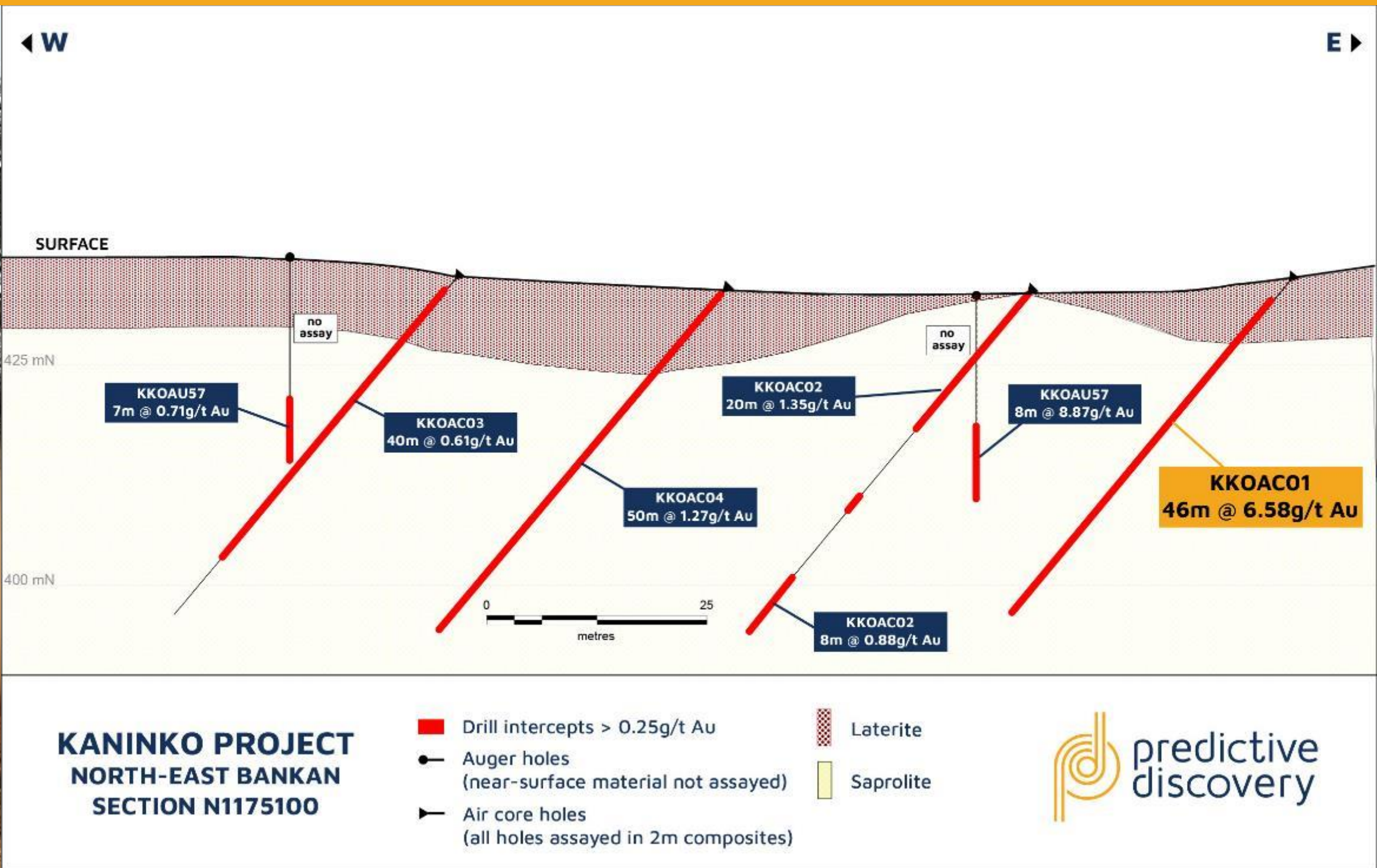
- ▶ **46m (to EOH) at 6.58 g/t gold from 4m including:**
  - ▶ 10m at 26.52 g/t gold from 34m
- ▶ **42m (to EOH) at 2.92 g/t gold from 8m**
- ▶ **50m (to EOH) at 1.53 g/t gold from surface including:**
  - ▶ 20m at 2.51 g/t gold from 30m
- ▶ **42m at 1.56g/t gold from surface including:**
  - ▶ 30m at 2.07 g/t gold from 12m
- ▶ **20m at 1.35g/t gold from surface**
- ▶ **50m (to EOH) at 1.27 g/t gold from surface**
- ▶ **34m at 1.06 g/t gold from surface**
- ▶ **48m at 1.15 g/t gold from surface**





# NE Bankan Cross Sections

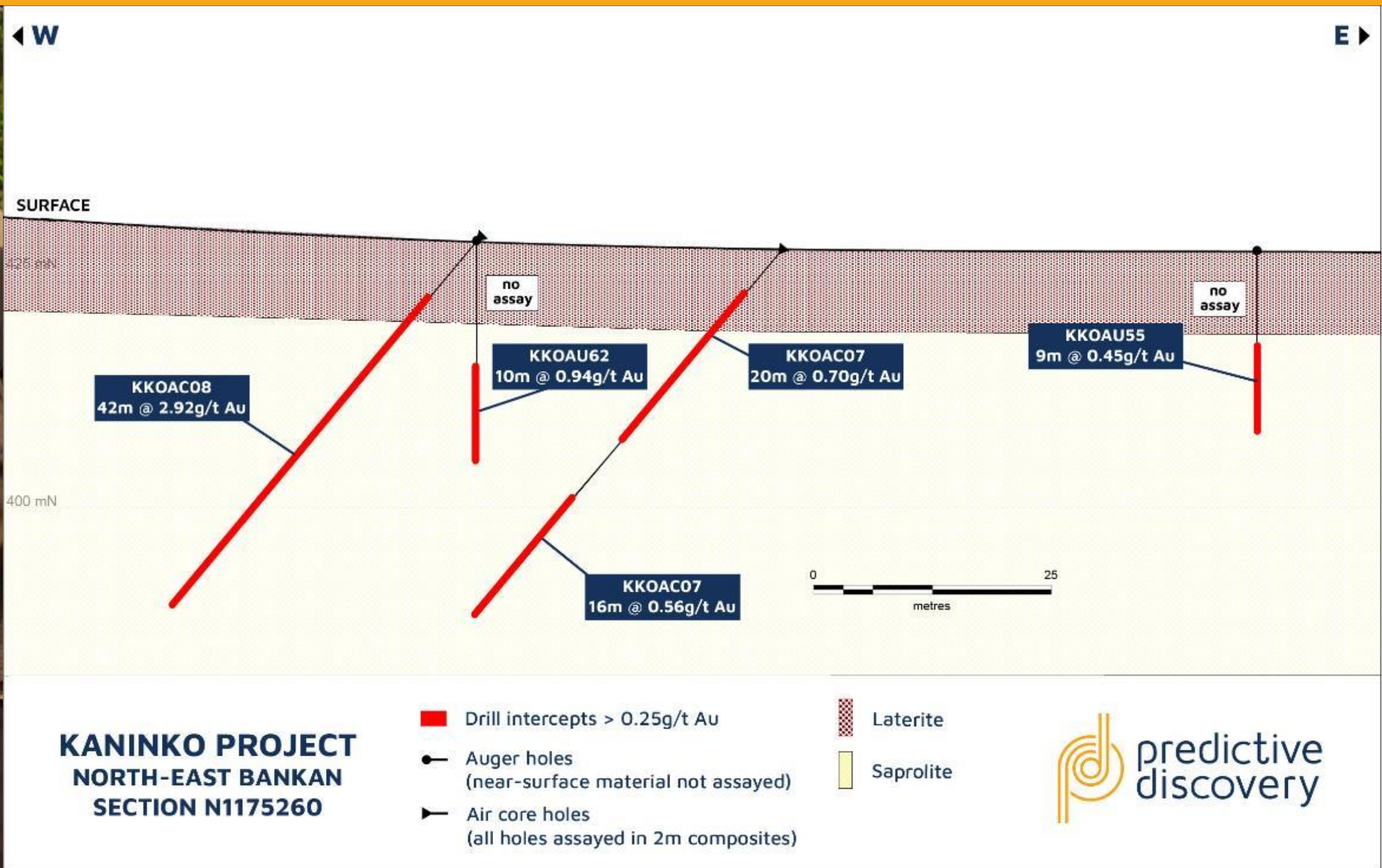
open in all directions  
north, south, on drill lines to east, west and at depth





# NE Bankan Cross Sections

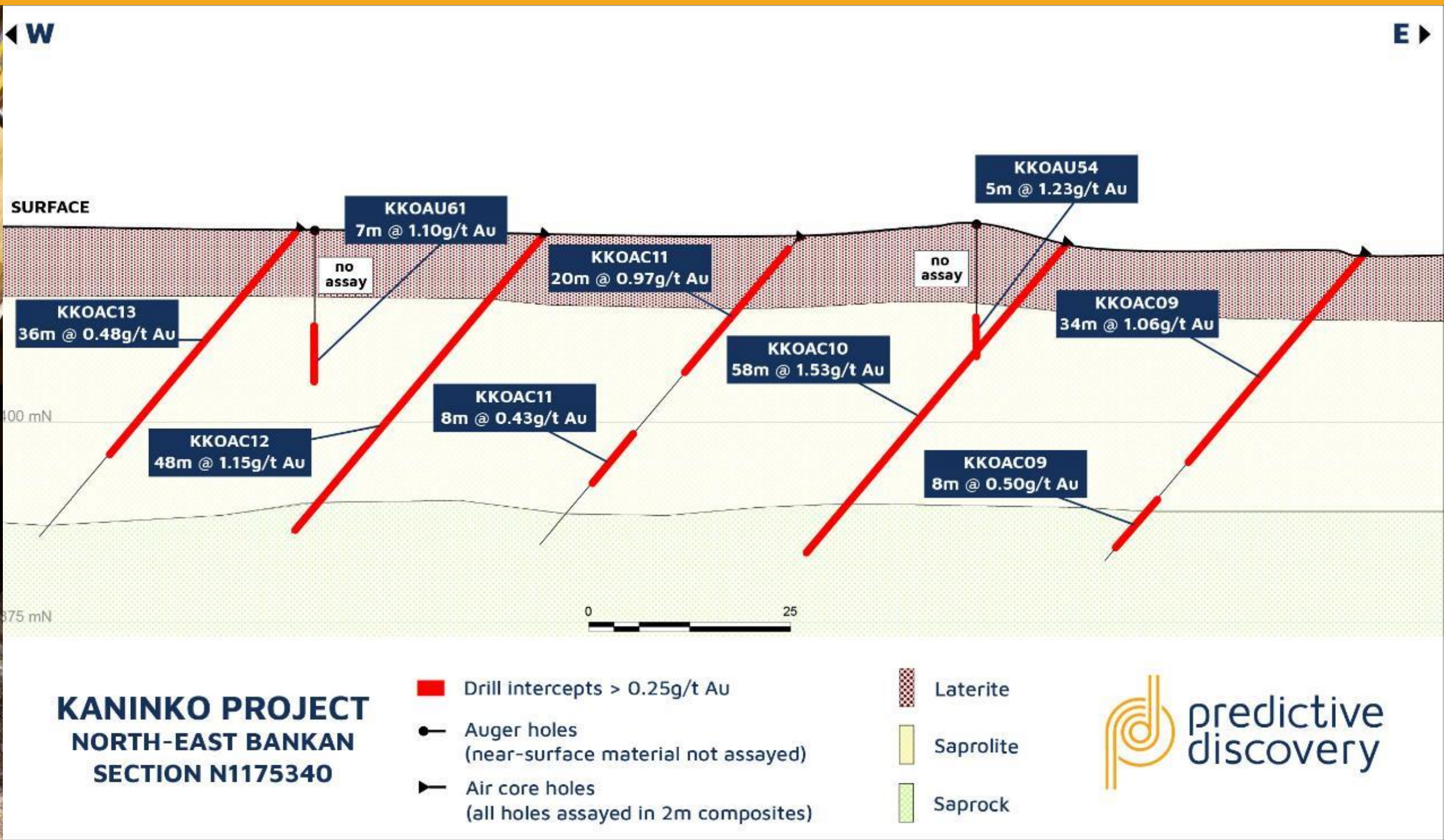
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north, south, on drill lines to east, west and at depth





# NE Bankan Cross Sections

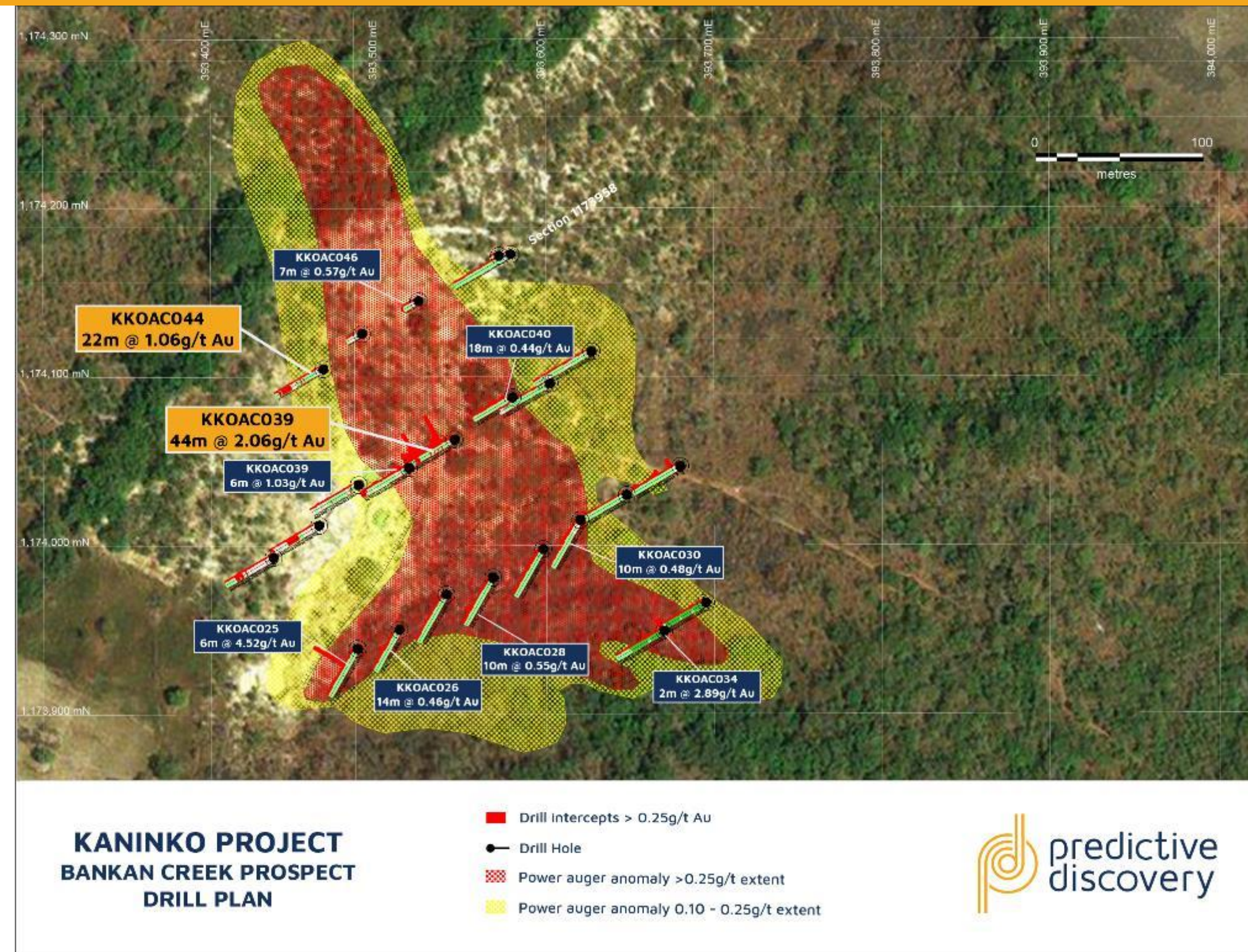
open in all directions  
north, south, on drill lines to east, west and at depth





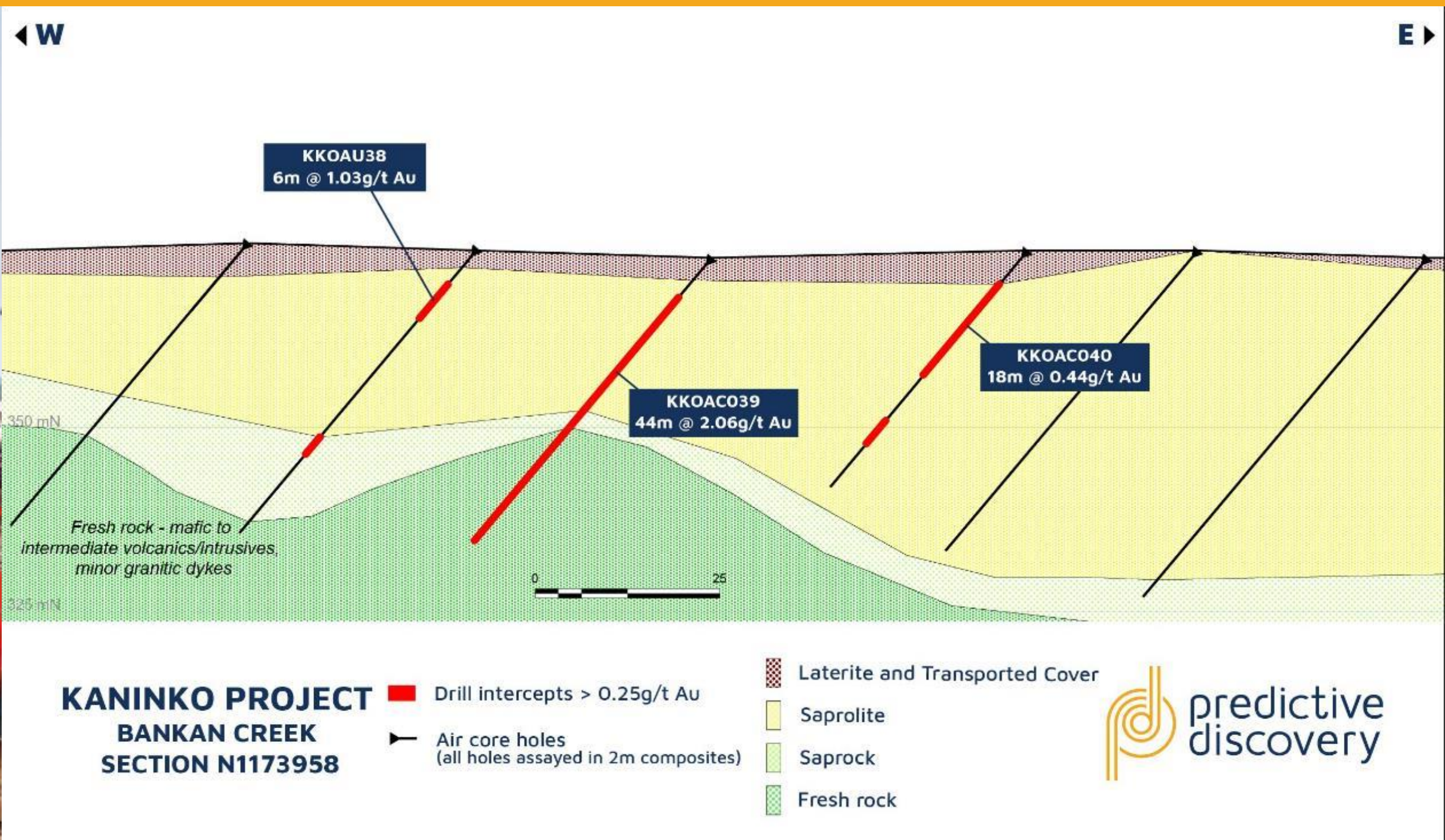
# Bankan Creek is a satellite prospect, 3 km southwest of NE Bankan, with **encouraging AC/RC drill results**

- ▶ **44m (to EOH) at 2.06 g/t gold from 6m including:**
  - ▶ 18m at 2.97 g/t gold from 32m
- ▶ **6m at 4.52 g/t gold from 16m**
- ▶ Different (more complex) geology:
  - ▶ A mix of rock types – mafic to intermediate volcanics, granitic dykes
  - ▶ Quartz vein stockwork (vs. little/no quartz at NE Bankan)
- ▶ Gold grade may improve at depth (18m at 2.97g/t Au all in fresh rock)
- ▶ Needs diamond drilling into fresh rock to understand mineralisation orientation





# Bankan Creek Cross Section





# Once AUD 9 million is raised, the Company will be well-funded to test Kaninko with 50,000 meters of DD, RC and power auger drilling, **now underway**

## ► 20,000 meters of Power Auger Drilling

(in progress):

- Define full extent of NE Bankan system
- Test other prospects on permit

## ► 25,000 meters of RC Drilling (starting May 2020):

- Complete coverage of NE Bankan anomaly on 80m-spaced lines
- Extensions immediately north and south

## ► 5,000 meters of Diamond Drilling at depth on both prospects (commenced May 2020)

## ► Metallurgical Testwork on shallow and deeper samples (July-September 2020)

*(Subject to regional COVID-19 restrictions not preventing drilling and assaying in the next 4 months)*





# Guinea Portfolio





# The Guinea portfolio includes two high-potential projects with walk-up drill targets and identified high-grade gold

## Kankan:

- ▶ AC/RC drilling on 1-2 targets (late April 2020)
- ▶ Assay results in May 2020

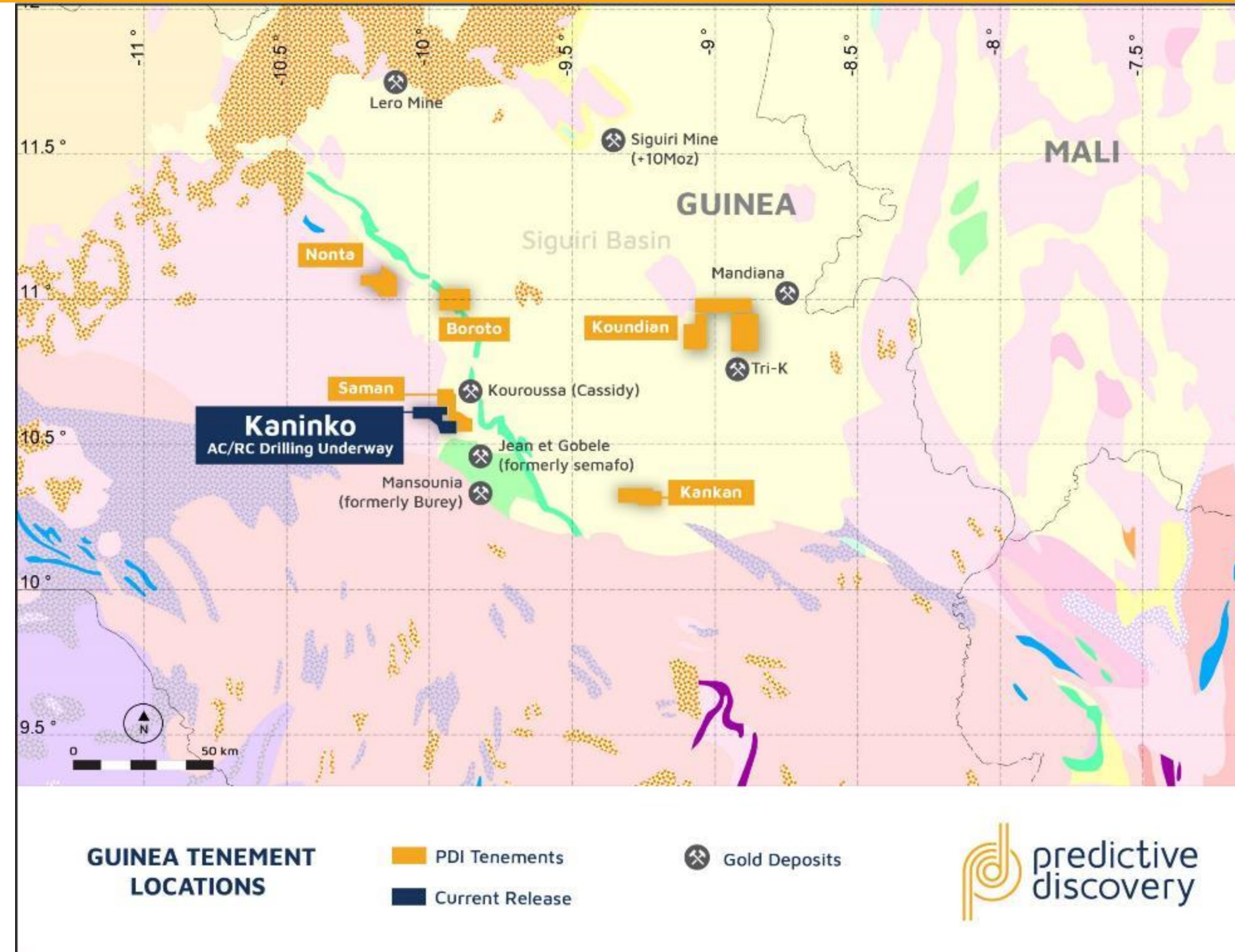
## Koundian:

- ▶ Initial geology/regolith mapping, geochemical programs (May-June 2020)
- ▶ Pilot ground geophysical surveys (May-June 2020)
- ▶ Aeromagnetic survey (late 2020)

## Elsewhere:

- ▶ Assay results in May 2020
- ▶ Modest cost geological/geochemical programs (May-June 2020)

*(subject to any national COVID-19 restrictions)*





# Cote D'Ivoire Joint Venture

With Resolute Mining (ASX:RSG)  
(PDI 23.5% equity)

## Diamond Drilling completed on Ferkessedougou North

High-profile, well funded JV partner

Field work currently suspended (COVID-19 restrictions in  
Cote D'Ivoire)

### Ferkessedougou North

(previous drilling)

45m at 3.2g/t gold

40m at 3.5g/t gold

### Boundiali

(previous drilling)

30m at 8.3g/t gold

28m at 4.04g/t gold



<sup>1</sup>ASX Announcement – 04 June 2019





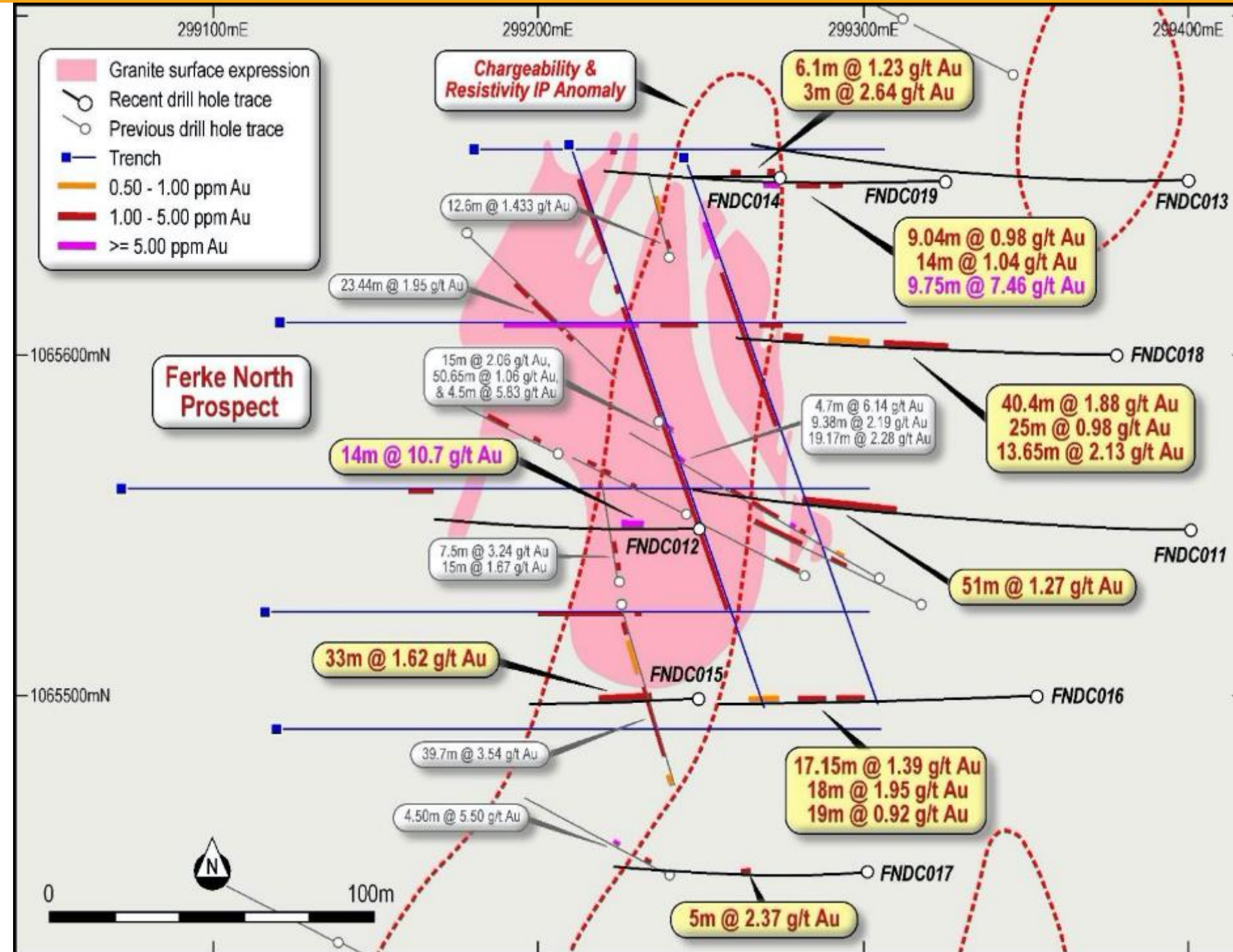
# Ouarigue South Discovery

(Ferkessedougou North Permit)

With Resolute Mining (ASX:RSG)  
(PDI 23.5% equity)

## New drill results (see plan view):

- ▶ FND011: 51.00m at 1.27g/t gold from 169.00m
- ▶ FND012: **14.00m at 10.74g/t gold from 33.00m**
- ▶ FND015: 33.00m at 1.62g/t Au from 28.00m
- ▶ FND016: 17.15m at 1.39g/t Au from 110.85m  
18.00m at 1.95g/t Au from 134.00m
- ▶ FND018: **40.40m at 1.88g/t Au from 105.60m**  
25.00m at 0.98g/t gold from 154.00m  
13.65m at 2.13g/t gold from 194.00m
- ▶ FND019: **9.75m at 7.46g/t gold from 104.00m**





# Ouarigue South Discovery

(Ferkessedougou North Permit)

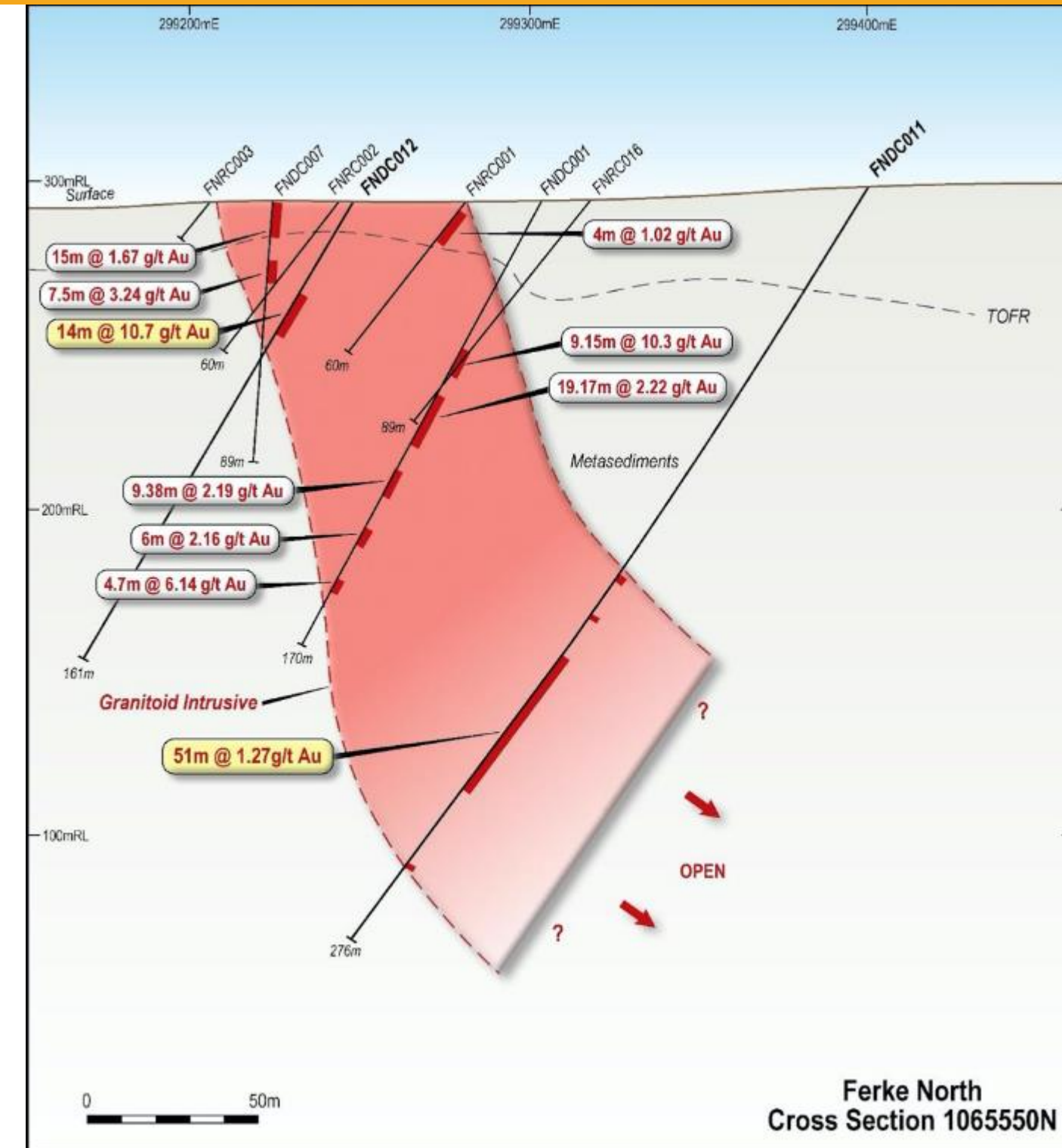
With Resolute Mining (ASX:RSG)  
(PDI 23.5% equity)

## New drill results (on section):

- ▶ FNDC011: 51.00m at 1.27g/t gold from 169.00m
- ▶ FNDC012: 14.00m at 10.74g/t gold from 33.00m

## Next Steps:

- ▶ More drilling along strike of Ouarigue South
- ▶ Explore 17km long Leraba soil trend for more Ouarigue South-type (granite hosted) gold deposits



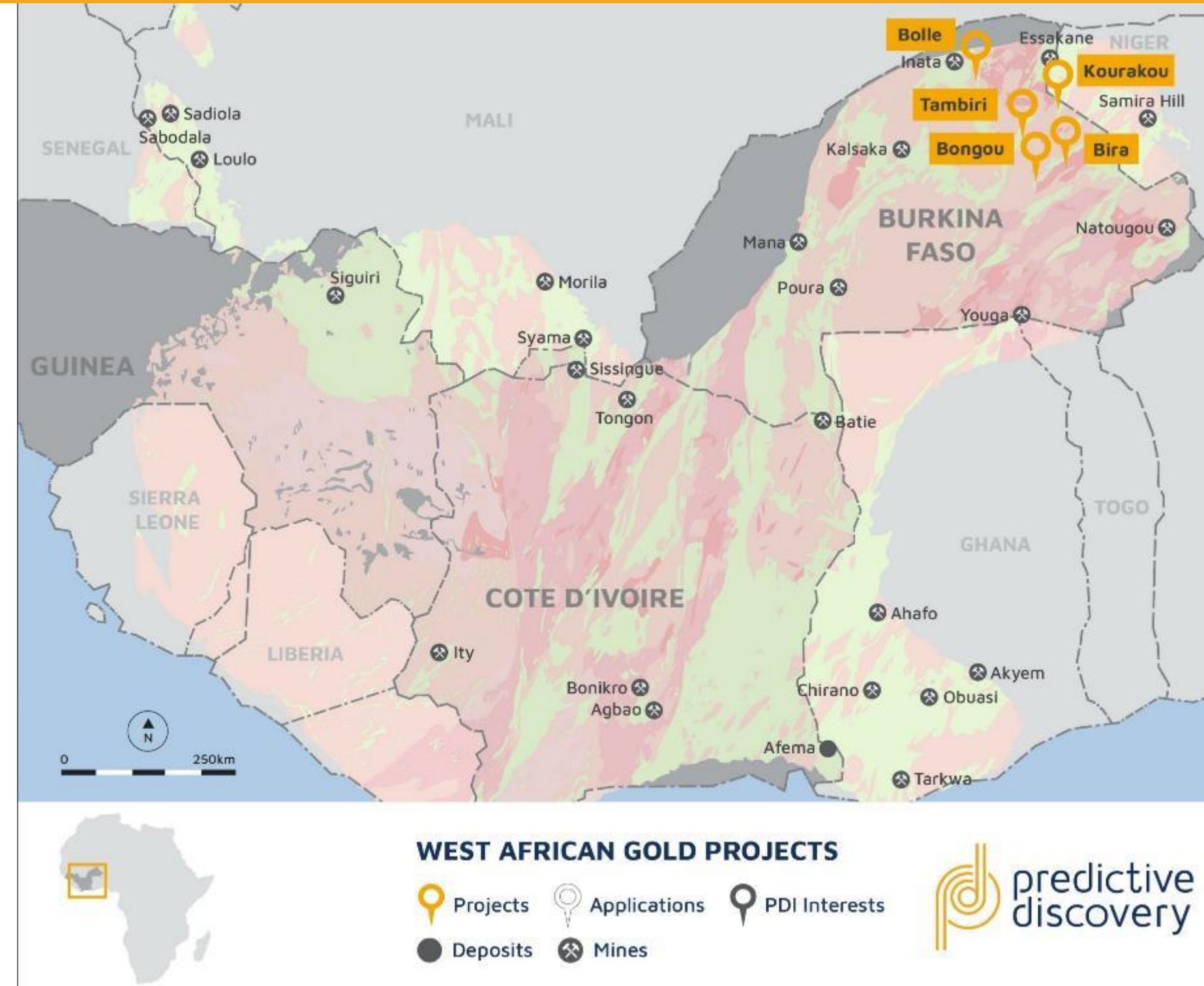


# Burkina Faso

Montage  
Joint Venture

## Portfolio Overview:

- ▶ Bongou 184,000 oz Gold Resource<sup>1</sup>:
  - ▶ Thick, consistent mineralisation
  - ▶ Excellent metallurgy
  - ▶ Exploration Target within 10km
- ▶ Promising initial drill results from Bira
- ▶ Numerous drill ready targets
- ▶ Potential for +1Moz deposits
- ▶ Currently on care & maintenance





# Funded to aggressively target a **JORC compliant resource** at the Kaninko Gold Project in 2021

## Three 100%-owned Projects

Drilling to focus on Kaninko with additional limited drilling planned for Koundian and Kankan and low-cost exploration on regional targets

## Fully funded to complete significant drilling programs

50,000 meters of power auger, RC and DD programs underway at Kaninko

## Outsized influence

One of West Africa's most respected exploration teams with four new gold discoveries in the past 5 years

## Expansive holdings in West Africa's golden triangle

6,000km<sup>2</sup> across 16 projects in Cote D'Ivoire, Guinea and Burkina Faso





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