PREDICTIVE DISCOVERY LIMITED

“Seeking new structures and ounces in Burkina Faso”

AFRICA DOWNUNDER – 31 AUGUST 2011
Disclaimer
This presentation contains only a brief overview of Predictive Discovery Ltd and its associated entities ("PD 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 presentation that relates to Exploration Results is based on information compiled by Mr. P. A. Roberts, who is a Fellow of the Australian Institute of Geoscientists, and has had sufficient experience which is relevant to the style of mineralization and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr. Roberts is an employee of Predictive and consents to the inclusion in the presentation of the matters based on his information in the form and context in which it appears.
Investment Highlights

- Gold focussed with strategic tenement holding of 1672 km² in Burkina Faso
- Strong Board and Management team with corporate and in-country expertise
- Recent drilling has revealed
  - broad, shallow oxide gold intersections at Bonsiega Project
  - high grade intercepts at Bangaba Project
- In 9 months since listing, intense activity completed including:
  - over 40,000m of RC and power auger and
  - extensive aeromagnetic and geological surveys
- Extensive drilling planned next field season - 21,000m RC/Diamond contracted
- Recently secured cornerstone institutional investor – Acorn Capital
- Predictore™ Technology separates PDI from its peers
Corporate Structure (as at 30/08/11)

### Board of Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>Position</th>
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<tbody>
<tr>
<td>Phil Harman</td>
<td>Non-Executive Chairman</td>
</tr>
<tr>
<td>Paul Roberts</td>
<td>Managing Director</td>
</tr>
<tr>
<td>Tom Whiting</td>
<td>Non-Executive Director</td>
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<tr>
<td>Bobby Danchin</td>
<td>Non-Executive Director</td>
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<tr>
<td>Phil Henty</td>
<td>Non-Executive Director</td>
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### Major Shareholders

<table>
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<tr>
<th>Shareholder</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Acorn Capital</td>
<td>12.7%</td>
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<tr>
<td>Lowell Resources Fund</td>
<td>6.0%</td>
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<tr>
<td>Black Fire Minerals</td>
<td>3.9%</td>
</tr>
<tr>
<td>Paul Roberts</td>
<td>2.9%</td>
</tr>
<tr>
<td>Top 20</td>
<td>50%</td>
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### Capital Structure

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
<td>Shares on Issue (ASX:PDI)</td>
<td>111 million</td>
</tr>
<tr>
<td>Share Price (52 week range)</td>
<td>0.17-0.38</td>
</tr>
<tr>
<td>Market Capitalisation</td>
<td>$22 million</td>
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<tr>
<td>Cash on hand</td>
<td>$6M</td>
</tr>
<tr>
<td>Enterprise Value</td>
<td>$16M</td>
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<tr>
<td>Debt</td>
<td>Nil</td>
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- Highly experienced Board
- Rights issue in process for $2.6M
- Institutional representation on register
Project Locations

Burkina Faso
ELDore JV, options, PD permits

Benmara JV
NT

Skipton EL
Vic
Priority Projects
Bonsiega Project
Large power auger gold anomalies on structures

Legend

Interface samples
Au ppb

- 500 to 5,000
- 100 to 500
- 50 to 100
- 25 to 50
- 0 to 25

Dave-Dave East
Bonsiega Project
Dave & Dave East Prospects – RC Drill Results

- 2km strike length tested
- Open in all directions
- Oxide to 60m depth
- Mineralisation on all lines
- Broad intercepts:
  - 26m @ 2.7g/t Au
  - 46m @ 1.4g/t Au
  - 14m @ 3.7g/t Au
  - 16m @ 1.7g/t Au
  - 18m @ 1.6g/t Au
  - 12m @ 2.9g/t Au
Bonsiega Project
Strong Mineralisation on Easternmost RC Line

DAVR007
DAVR008
DAVR009

Transported Laterite

6m @ 1.1 g/t Au
26m @ 2.7 g/t Au
4m @ 1.3 g/t Au

0.2 g/t Au cut off envelope

0 25m
Bonsiega Project

>16km of similar anomalies – 2km drill tested

10km of untested structure beneath damp alluvium

Dave-Dave East

0.4g/t Au in weathered bedrock

Legend
Interface samples Au ppb
- 500 to 5,000
- 100 to 500
- 50 to 100
- 25 to 50
- 0 to 25
Burkina Faso Projects - Bangaba
- 27 years of artisanal mining
- 4,000 people at Solna artisanal site
- 10-15kg gold per month being produced
- Workings to 90m depth in places
- >20km of shear zone
- Past exploration focused on Solna and Tambiri
Historic Tambiri drilling intersected high grade gold:

- SEBT96-01: 5m @ 16.4g/t Au
- SEBT96-17: 16m @ 10.6g/t Au
- SEBT96-02: 2m @ 56.1g/t Au
- SEBT96-11: 2m @ 9.9g/t Au

PDI drilling tested 320m of strike (open to S and N)
Bangaba Project
Tambiri Drilling Results

Cross-section

Locations of High River Gold intercepts are approximate only

Area where gold ore has been partially extracted by artisanal miners

- **SEBT96-2**
  - 2m @ 56 g/t Au

- **SEBT96-17**
  - 16m @ 10.6 g/t Au

- **SEBT96-01**
  - 5m @ 16.4 g/t Au

- **SEBT96-7**
  - 5m @ 17.0 g/t Au

- **SEBT96-09**
  - 7m @ 2.1 g/t Au

- **SEBT96-8**
  - 2m @ 9.9 g/t Au

- **TMBRC007**
  - 5m @ 2.1 g/t Au

- **TMBRC005**
  - 5m @ 2.1 g/t Au

- **TMBRC003**
  - 9m @ 2.6 g/t Au
  - inc. 1m @ 13.4 g/t Au

- **TMBRC001**
  - 3m @ 6.3 g/t Au

- **TMBRC004**
  - 1m @ 2.2 g/t Au

- **TMBRC002**
  - 3m @ 1.1 g/t Au

- **TMBRC008**
  - 1m @ 0.7 g/t Au

- **TMBRC006**
  - 12m @ 2.4 g/t Au
  - inc. 1m @ 12.1 g/t Au

- **PDI drill holes**
Bangaba Project
Tambiri Drilling Cross Section

17m @ 9.6 g/t Au
5m @ 2.1 t Au
16m @ 2.0 g/t Au

0.2% Au cut off envelope
0.5% Au cut off envelope
0.2% Au cut off envelope

0 - 50m
Main gold mineralised zone appears to dip steeply with multiple shallow dipping veins within it

RC holes intersected new lodes

Intrinsically high grades indicated by drill results and deep artisanal workings below water table
PDI Technology – Predictore™

- Emerged from a national research centre (the pmd*CRC)
- 2 scales – terrane and drill target
- Drill target scale: 2 steps – validate against known deposit and then predict
- Use of geophysics and good geology mapping essential
**Aggressive Exploration Program**

- **3 Months**
  - Aeromagnetic data processing
  - Drill target prioritisation all areas with Predictore™
  - Geological mapping commences Oct 2011
  - RC and power auger drilling commences Late Oct or Nov 2011

- **6 Months**
  - Minimum 18,000m RC
  - 3,000-5,000m diamond drilling (commences Dec)
  - Minimum 30,000m power auger drilling

- **12 Months**
  - Ongoing drilling
  - Planned maiden resource estimate Q1 2011-12
Conclusions

- Gold focussed with strategic tenement holding of 1672 km² in Burkina Faso
- Strong Board and Management team with corporate and in-country expertise
- Recent drilling has revealed
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Telephone: +61 402 857 249

Email: paul.roberts@predictivediscovery.com

Website: www.predictivediscovery.com
## Appendices – Board of Directors

<table>
<thead>
<tr>
<th>Name</th>
<th>Title</th>
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<tr>
<td><strong>Phil Harman</strong></td>
<td>Non Executive Chairman</td>
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<tr>
<td>Phillip Harman has substantial experience in senior positions in the junior exploration sector, and was previously Chief Geophysicist and Exploration Manager-South America for BHP Billiton.</td>
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<tr>
<td><strong>Paul Roberts</strong></td>
<td>Managing Director</td>
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<tr>
<td>Paul Roberts has a long and successful history in mineral exploration management and mine geology both in Australia and overseas, including discovery of the Henty gold deposit in Tasmania.</td>
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<tr>
<td><strong>Tom Whiting</strong></td>
<td>Non Executive Director</td>
</tr>
<tr>
<td>Dr Tom Whiting is a consultant and Company Director and former Vice President of Exploration of BHP Billiton Minerals.</td>
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<tr>
<td><strong>Bobby Danchin</strong></td>
<td>Non Executive Director</td>
</tr>
<tr>
<td>Dr Bobby Danchin is currently non-executive director of Cluff Gold plc and Mineral Deposits Limited. Both companies have developed gold mining operations in West Africa. Formerly Managing Director – Exploration and Acquisition Division of Anglo American.</td>
<td></td>
</tr>
<tr>
<td><strong>Phil Henty</strong></td>
<td>Non Executive Director</td>
</tr>
<tr>
<td>Phil Henty has extensive experience in the Australian securities markets. He has worked for nearly thirty years in the stock broking and investment markets.</td>
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### Appendices – Management

<table>
<thead>
<tr>
<th>David Pascoe – Exploration Manager</th>
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<tr>
<td>David Pascoe has over 30 years experience in mineral exploration, new project generation and mine geology. He has worked mostly in Africa, South America, Eastern Europe and Australasia. He successfully managed exploration in Australia, Papua New Guinea and Brazil. He has discovered new deposits (including Kerimenge gold – Papua New Guinea, Magellan lead - Australia) and identified projects for company acquisition at the prospect stage (including Tocantinzinho gold – Brazil).</td>
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<tr>
<th>Barry Murphy – Chief Geologist</th>
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<tr>
<td>Dr Barry Murphy has had a highly successful career in mineral exploration, consulting and research. He brings wide experience in structural geology consulting, mineral exploration management, overseas project generation studies (e.g. India and Ireland) and mineral system research for the pmd*CRC. He is a specialist in the use of wavelet processed data for project generation, and has played a critical role in PD's ground selection efforts.</td>
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<tr>
<th>Ian Hobson – Chief Financial Officer</th>
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<tr>
<td>Ian Hobson is a chartered accountant and a chartered secretary who has had 25 years experience in the profession, acts in various roles for various listed and unlisted entities, and specializes in transaction support, due diligence and prospectus preparation. Prior to commencing his own practice, Ian was a director at Ferrier Hodgson and prior to that at PricewaterhouseCoopers.</td>
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<th>Burkina Faso exploration team</th>
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<td>Consisting of 24 staff including a local manager, seven staff geologists, accountant and support staff (drivers, technical assistants, field assistants)</td>
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Appendices – Burkina Faso facts

• Landlocked country bordered by Ghana, Mali, Cote d’Ivoire, Togo, Benin and Niger
• Area: 274,000 sq km (slightly larger than Victoria)
• Population: 16 million
• Political system: stable democracy
• GDP per capita: USD1,200
• Religion: 60% Muslim, 20% Christian, 20% other
• Life expectancy at birth: approximately 50 years
• Economy – rural focus, cotton and gold the principal exports
• Mining industry:
  • focus on gold – currently 6 mines in production (Kalsaka, Taparko, Youga, Mana, Inata, Essakane)
  • Government is free carried to production at 10% in all mining projects
  • Royalty is on a sliding scale from 3% to 5% depending on the gold price