

# Rapid Development High Grade Gold Zones (10g/t) Transforms Mt Kare, PNG







#### Disclaimer



This document comprises written materials/slides for a presentation of Indochine Mining Limited ('Indochine' or 'the Company'). This presentation does not constitute or form part of any offer or invitation or solicitation to purchase or inducement to sell or issue any shares in the Company in any territory, state, country or nation. Neither this presentation nor any part of it shall form any part of, or be relied on in connection with, any investment decision in relation thereto. The information contained in this presentation reflects current legislation and the business and financial affairs of the Company which are subject to change without notice and audit, and is subject to the provisions contained within legislation and it is intended for distribution in Australia. The information contained herein is for discussion purposes only and does not purport to contain all the information that may be required to evaluate the Company or its financial position. No reliance may be placed for any purposes whatsoever on the information contained in this presentation or on its accuracy or completeness or on opinions contained herein or communicated in relation hereto. No representation or warranty, express or implied, is or will be given by or on behalf of the Company or any of its subsidiaries (together,' the Group'), any member of the Group's directors, officers or employees or their respective agents or adviser or any other person as to the accuracy or completeness of the information or opinions contained in this presentation and none of the foregoing accept any liability whatsoever arising from any use of this presentation, its contents or otherwise arising in connection therewith. Certain statements in this presentation are forward-looking statements, which reflect the Company's current expectations and projections about future events. By their nature, forward-looking statements involve a number of risks and uncertainties, many of which are outside the control of the Company, and the forward-looking statements involve subjective judgement and assumptions that could cause actual results or events to differ materially from those expressed or implied by the forward-looking statements. These risks, uncertainties and assumptions could adversely affect the outcome and financial effects of the plans and events described herein. The Company does not undertake any obligation to update or revise any statements in this presentation including forward-looking statements. Given these uncertainties, readers of this information are cautioned not to place undue reliance on any forward looking statements. The Company and its adviser makes no representation and gives no warranties to the accuracy or reliability of any information contained in this document and does not accept any liability for any loss caused by representations, errors or omissions on the part of the Company or by any of their respective officers, employees, authorised representatives or agents. In preparing this information, the Company did not take into account the investment objectives, financial situation and particular needs of the reader. he Pre-Feasibility Study (PFS) results are indicative only. They are based on assumptions considered reasonable by Indochine and its external consultants, which may not all be ultimately achieved. Technical and economic estimates in the PFS are prepared to varying confidence of accuracies with an expectation of overall accuracy of ±30%. It should be noted that Indochine is not declaring an ore reserve estimate as part of the PFS, with this work being scheduled for the BFS. The PFS has scheduled production based on the December 2011 JORC Resource with expected mining parameters applied. The Company expects that the drilling undertaken, awaiting assay results, will aid in the future conversion of a reasonable proportion of the Resource material to Indicated status such that this can then be considered for conversion to an ore reserve as part of the BFS, which may not be ultimately achieved. In accordance with relevant regulations governing the disclosure of mineral projects, readers are cautioned that scheduled production based on resource material is considered speculative.

#### **Competent Person Statement**

Anthony W. Burgess, a qualified consultant for Indochine Mining Limited, is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity undertaken, being reported herein as Mineral Resources and Exploration Results, 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 (The JORC Code, 2004 Edition). Anthony W. Burgess has consented to the public reporting of these statements and results and the form and context in which they appear.

## **High Grades = Very High Margins**



Wide,
high
grade
zones:
+10 g/t
Au
0.5Moz

Rapid increase
Target:
1Moz
10 g/t Au

Partnered with mining experts

support

Local

Govt support High margin, low cost underground mine 150-200k oz/yr

Faster return on investment

Reduced time to high margin gold production

## **Transforming Mt Kare**



- High grade 470,000 oz
  @ 10 g/t Au within a
  2.1 Moz Au resource
- Targeting +1 Moz @ 10 g/t Au

- Wide & consistent high grade zones
- Rapid increase expected in ounces & grade
- Capex <\$100M target
- Half the cost to production than 2012 PFS



- Developing high grade & high margin underground mine
- Partnering with experts in underground mining & plant design

- Local communities committed /on-side
- Strong & public support from PNG Government

## **Corporate Structure**

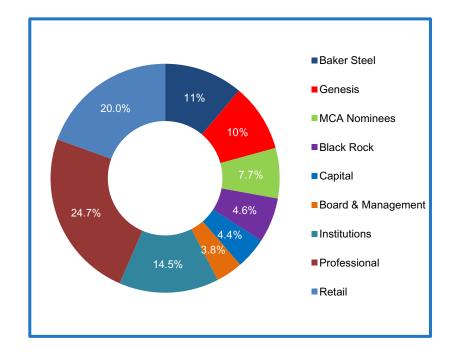


Capital Structure				
ASX Code	IDC			
Market Cap (@8c/sh)	A\$70 M			
Shares on Issue	880 M			
Cash (30 June '13)	A\$1.8 M			
Raising (7 August '13)	A\$3 M			

Major Shareholders				
Baker Steel Capital	11%			
Genesis Asset Management	10%			
MCA Nominees	7.4%			
BlackRock	6.6%			
Capital	4.6%			

Board	
lan Ross	Chairman
Gavan Farley	Non Executive Director
Dr Michael Leggo	Non Executive Director

Management	
Stephen Promnitz	Chief Executive Officer
George Niumataiwalu	Country Manager, PNG
Anthony W Burgess	Chief Geological Consultant
Ashok Jairath	Chief Financial Officer



## Mt Kare- An Enviable Project, Strategically Located



Located in the highest concentration of world class gold deposits

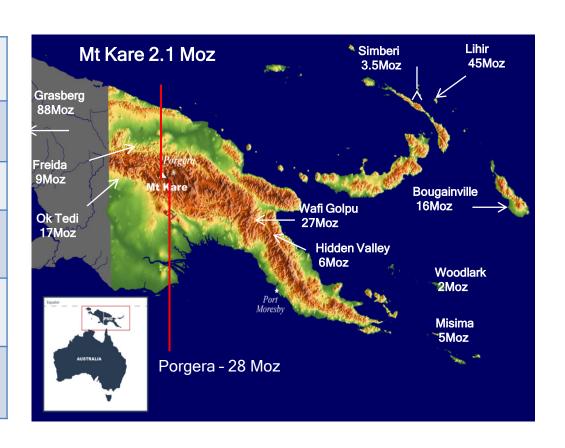
15 km from Barrick Gold's 28 Moz Porgera mine

Similar geological setting to Porgera

Landowner investigation study completed; local support

Supported by some of the world's largest funds

PNG government support of mining industry and Mt Kare project



## Mt Kare and Porgera: Identical Projects?



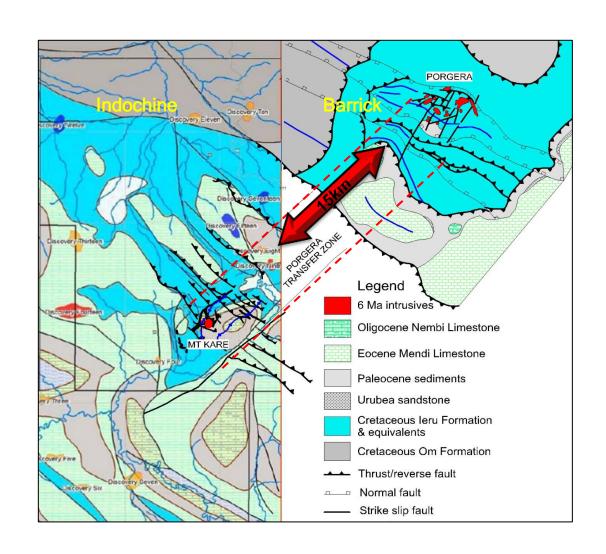
# Mt Kare shares many similarities to Porgera:

Similar geology Similar setting Similar high grade gold zones; large gold systems

Porgera = world class 28 Moz Au Inc. 5 Moz @ 27 g/t Au

Mt Kare = world class Moz 2.5 Moz Au Eq (Current) inc. 470,000 oz @ 10 g/t

Porgera started with an exploration adit and underground mining of high grades



## **Government Support**



"It is my.. Government's intention to support mining prospects such as Mt Kare, which offer PNG significant new development and social & economic .. opportunities" Minister Chan

"The exploration program has been undertaken in .. close association with the local landowners" Minister Chan



MINISTRY OF MINING
OFFICE OF THE MINISTER FOR MINING

## Minister for Mining Renewal of Exploration Licence 1093 Mt Kare – Summit Development Limited

I am pleased to announce the renewal of Exploration Licence 1093 (EL 1093) to the current tenement holder. Summit Development Limited (Summit), for a period of two years ending August 2014, following recommendations from the Minina Advisor Council.

Summit with effect from August 2019, and consequently the regular reporting of very positive mineral prospects including bonanca grades. This exploration program has been undertaken in conjunction with ongoing work in close association with the local landowners intended to complete a comprehensive Land identification Study (LIS) being conducted in the

Mt Kafe has had a long and disputatious history since an alluvial gold rush in the late 1980's that opened the area to local landowners and introduced many settlers, Over time, exploration camps and equipment [including a helicopter] were destroyed and compensation claims for significant, unsubstantiated amounts were made. There had been numerous court cales. Landowner groups had each attempted to claim supremacy over rights to the area. This difficult prospect to also suffered from the liquidation of the previous tenement holder, Madison Enterprises (PNG) Limited, in 2008/2009.

These are not the messages that the mining industry in PNG wishes to pass to prospective investors and players in our industry, especially when the mining sector is still the lifeblood of the PNG economy.

It is my, and my Government's, intention to support mining prospects such as Mt Kare, which offer PNG significant new development and social, educational and economic advancement opportunities. We can confirm that relevant government authorities including the prime Minister were kept updated on the progress of the project leading up to this oin in time. I note that Summit have committed in excess of 140m to their ongoing exploration work program during the renewed term and have spent double that amount during the term just ended.

I have received detailed advice on current and historic landowner grievances and note that the genuine landowners in the Mt Kare/EL 1093 tenement area have waited many years for such a development opportunity, which will finally provide the chante to return to them something from that difficult past.

Accordingly, in supporting Summit to pursue the significant work it has undertaken to date, and to bring this advanced exploration prospect to the phase of a mine development, but recognising the issues that exist, I have required the tenement holder to work on certain critical and important aspects, inter alia;

- Completing the LIS by the end of thilly fee followed by the formation of genuine landowner representative
  groups or associations are recognised by the LIS. Summit and the Enga it Powincial Government are also
  groups. It is in everyone's best interests to achieve these important steps.
- 2. Completing a bankable feasibility study to take the project into its development and production stages as early as possible.

Finally, I have also acknowledged that the original intent at Mt Kare, as contained as a condition in the original Exploration to Licence 1093 granted in 1994, was for the tenement holder to ensure that I andowner equity was accommodated through properly constituted representative groups of genuine Mt Kare landowners. History tells me that this has never occurred as Intended.

I have therefore required the tenement holder to address this issue in negotiations with those genuine landowners identified under the LIS.

Accordingly, to ensure that a mine development proceeds at Mt Kare, all parties must now come together and work together to shape their respective futures such that the mine development may become a reality and from that beginning will flow the benefits from this rich mineral resource.

Approved for release

Byron Chan

"I have received detailed advice ...and note that the genuine landowners in the Mt Kare area have waited many years for such a development opportunity" Minister Chan

"Let's give the opportunity to our people to benefit and participate in the development from the mine"

Prime Minister O'Neill

# ay, 11 July, 2013 - The

## Mt Kare exploration to go on

PRIME Minister Peter O'Neill has confirmed that his government will grant an extension to a mine exploration license to Summit for the explorations at the Mt Kare mine in the Hela and Enga provinces.

O'Neill said it was long overdue for the Mt Kare people to benefit from their resources and the Government had decided to grant an extension to the operation and further exploration in the area.

"We have received an application for an extension for further exploration from Summit, the operator of the Mt Kare gold mine," O'Neill told Parliament yesterday.

"I have discussed with Mining Minister Byron Chan and we have agreed that it should be extended because it has been long overdue.

"Let's give the opportunity to our people to benefit and participate in the development from the mine."

O'Neill was responding to questions from Lagaip-Porgers MP Nixon Mangape's who wanted to know why it had taken eight months to process Summit's licence renewal application.

8 Post-Courier, Monday, July 29, 201

## **Melanesian Approach**



Melanesian Approach	Benefits Distribution
Customary landowner identification	Benefits structured to reflect traditional systems
Focus on defining rightful customary landowners using their methodology	Benefits agreed through consensus by clan leaders
Using pre-colonial time local customs	Respect and partnership; collaborative process
A new approach to resolving landowner disagreements and guaranteed long term support	Local employment; new local support industries







# Resource Location – High Grade Zones



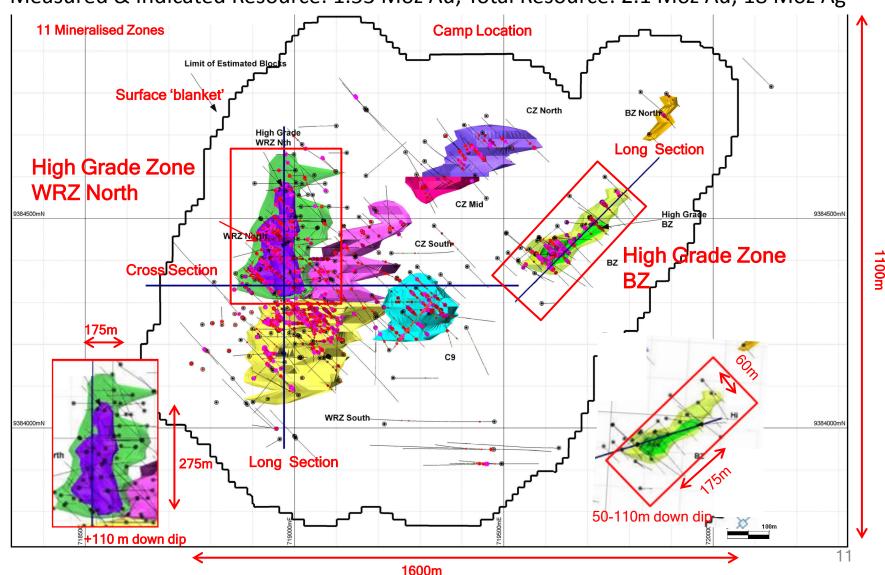


#### Mt Kare – Resource



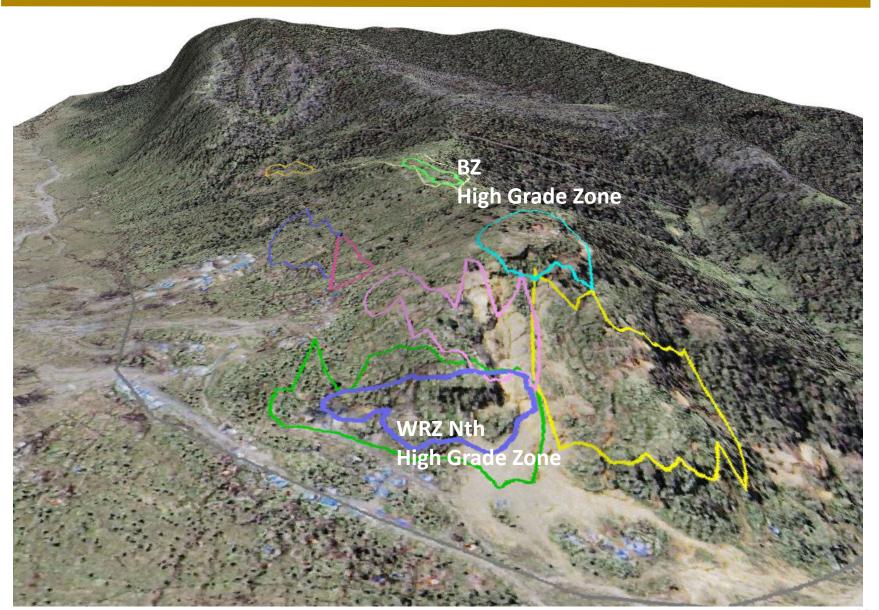
2 High Grade Zones: 470,000oz Au at 10.1g/t, 52g/t Ag

Measured & Indicated Resource: 1.53 Moz Au; Total Resource: 2.1 Moz Au; 18 Moz Ag



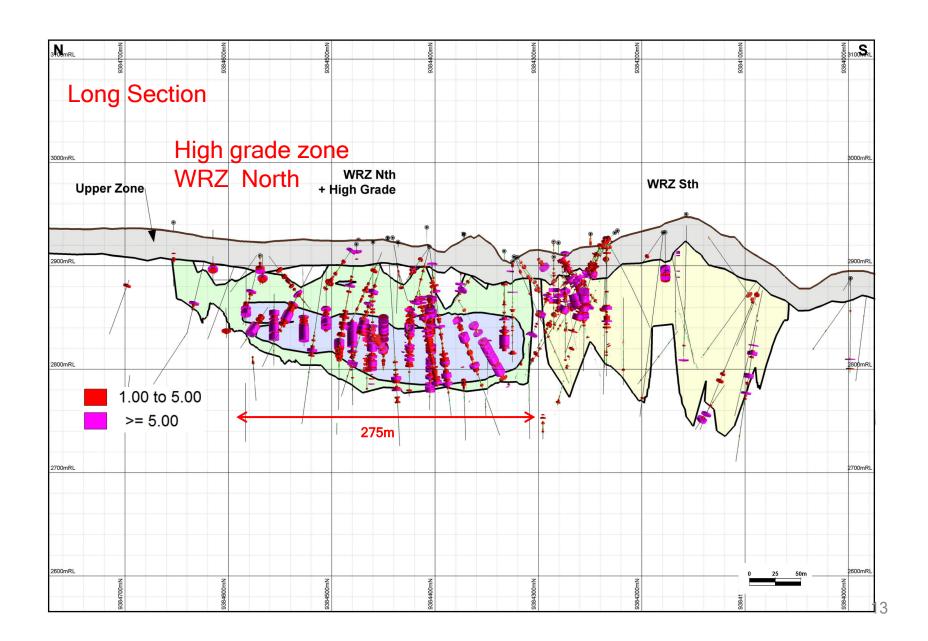
## Resource Domains – High Grade Zones





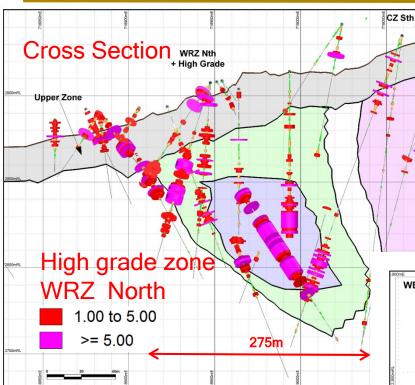
## **High Grade Zones – WRZ North**



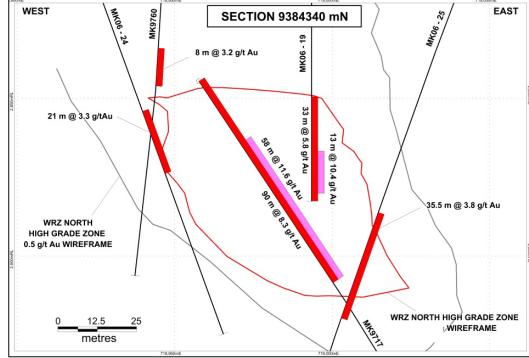


## **High Grade Zones – WRZ North**





Cross Section WRZ North High Grade Zones



## **Technical Support – High Grade Focus**



#### Mt Kare project – 2 High Grade Zones (July, 2013)

	Lower Cut-off Au grade (g/t)	Mt	Gold g/t	Gold oz	Silver g/t	Silver Moz	Gold Equivalent <sup>(1)</sup> Oz
Top Cap 50g/t Au; 500g/t Ag	0.5	2.31	5.4	400,000	36	2.7	449,000
Top Cap 500g/t Au	0.5	2.31	6.6	493,000	49	3.3	553,000
Top Cap 500g/t Au	2.0	1.43	10.1	466,000	52	2.2	507,000

The effect of different modelling parameters on two high grade zones (BZ & WRZ North)

- from JORC Resource statement Explanatory Notes July 2013

#### Technical justification for focus on high grade zones:

Two high grade zones (WRZ North and BZ), wire-framed domains used in the JORC Resource model, demonstrated significant continuity for modelling purposes. These high grade zones demonstrate clear potential for underground development, given the high grade nature, the significant widths and the demonstrated continuity.

Modelling of the two wireframed high grade zones (WRZ North and BZ) was conducted using 1 m - 1.5 m analytical sample results, a top cut of 500 g/t Au (instead of 50 g/t Au used in the JORC resource) and a lower cut-off grade of 2.0 g/t Au (instead of 0.5 g/t Au used in the JORC resource). Results for the high grade zones showed almost twice the grade, with 1.43 Mt grading 10.1 g/t Au, 52 g/t Ag, for a total of 466,000 oz Au and 2.2 Moz Ag or 507,000 oz gold equivalent. A higher cut-off grade of 6.0 g/t Au indicates grades of nearly 20 g/t Au and 70 g/t Ag over reduced tonnage, using uncapped analytical sample results. The resource model showed 2.3 Mt at 5.4 g/t Au and 36 g/t Ag (with a lower cut-off grade of 0.5 g/t Au) and a top cut of 50 g/t Au. The geological similarity has been identified between the Mt Kare deposit and the adjoining Porgera gold mine, including the similarity in mineralisation

style with the very high grade mineralisation at Porgera. Porgera was initially developed as a high grade underground operation and based on the advice of underground mining professionals, Mt Kare shows clear potential for underground development. Porgera has previously identified populations of 100's of grams of gold and used a top cut of 1500 g/t Au in resource modelling. Sampling theories (Pitard 1992) and modelling methodologies are challenged by these high grades and may not be the best representation of the contained gold.

## **High Grade Deposits – Rare**



High grade deposits are rare

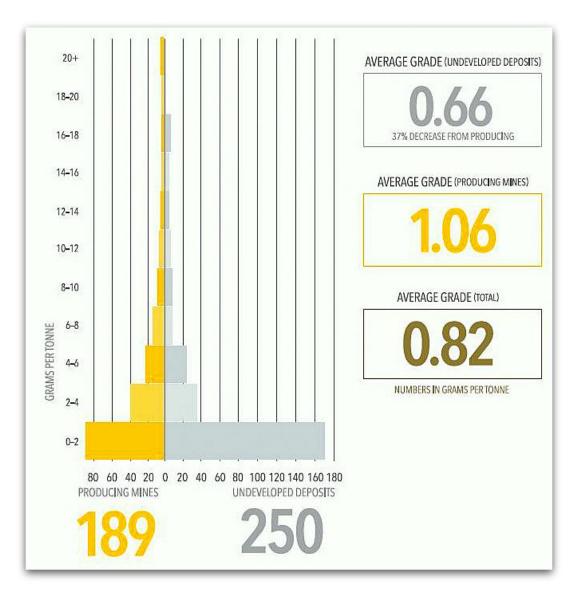
~440 deposits >1Moz

<1g/t Average discovery grade <1.8g/t Av. Mine grade

<20 deposits with +10g/t Au

High grade zones are often 2-10m wide

Mt Kare is >50m wide



## **Adding More High Grade Ounces ... More Cost Effective**

**ASX:IDC** 

New resource model is **conservative** – high grade is primary focus +10 g/t Au

Targeting +1 Moz @ +10 g/t Au

Underground drilling faster – rapid growth; more high grades

Extensions targeted down dip and along strike

Partnered with the best in underground mining and plant design







## ind@chine

## **Focus on Rapid Low Cost Quality Ounces**

Targeting production of 150 – 200,000 oz /yr at 10 g/t Au

Mining earlier than 2012 PFS - targeting 2015

Half the Capex of 2012 PFS (Targeting <\$100 M)

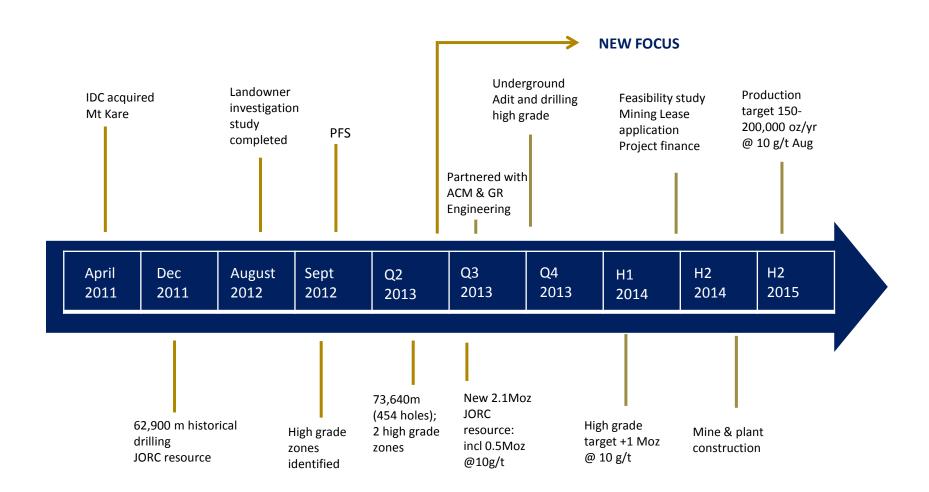
- Treatment plant 750,000 t/yr planned

High margins at much higher grade

Discover a "New Porgera" – 28 Moz adjoining mine

### **Time Line to Production**





## Mt Kare ticks all the boxes



- ✓ Infrastructure in place
- **✓** Power and roads nearby
- Local community support
- ✓ Landowner investigation study completed
- **✓ Government support**
- **Experience and expertise in PNG**

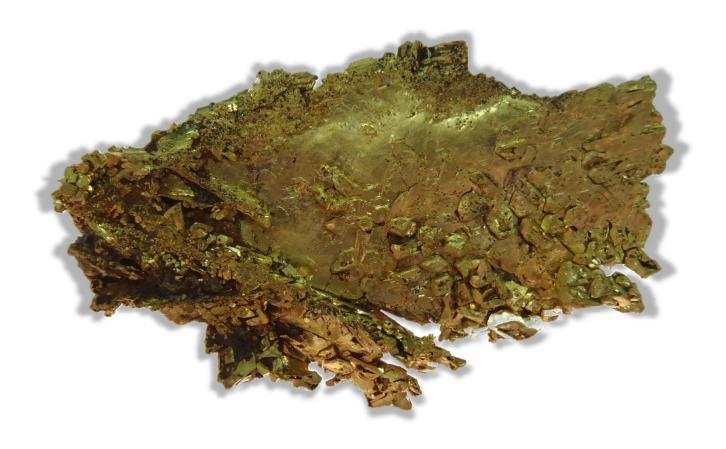
## In Summary.....



#### High grade, high margin and low cost project with significant upside

- On track to rapidly develop high-grade, low cost underground mine
- Initially targeting +1Moz @ 10 g/t Au in H1, 2014
- Potential to substantially increase mineable ounces and grade
- <\$100 million Capex targeted; Half the cost of PFS in 2012</li>
- Targeting 150-200k oz/yr of 10g/t high-grade gold from underground
- Production targeted for 2015
- Letters of Intent with underground mining and plant design experts
- Local and Government support matched by strong community support





#### **Skilled Partners and Co-Investors**



- GR Engineering Services Limited
  - > Treatment plant specialists feasibility studies, design, EPC
  - > Track record of making projects work in difficult locations
  - ➤ Built plants across Australia, Asia incl Simberi, PNG
- Australian Contract Mining (ACM)
  - Specialist underground mining contractor/driller
  - History of fast & cost efficient underground mining
- Letters of Intent issued; first priority for contracts

Brian Rodan - Managing Director Australian Contract Mining Pty Ltd (ACM)

Brian founded ACM after years in underground mining and drilling. Brian was one of 5 who originally set up Eltin contract mining. He has worked in many locations in Australia Africa and Europe.



## Tony Patrizi - Executive Director G R Engineering Services Limited

Tony cofounded GR Engineering and is a mechanical engineer with over 20 years experience in the mining and mineral processing industry. Previously the operations manager of JR Engineering he has designed and built processing plants around Australia, Asia and Africa



## **Mt Kare History**



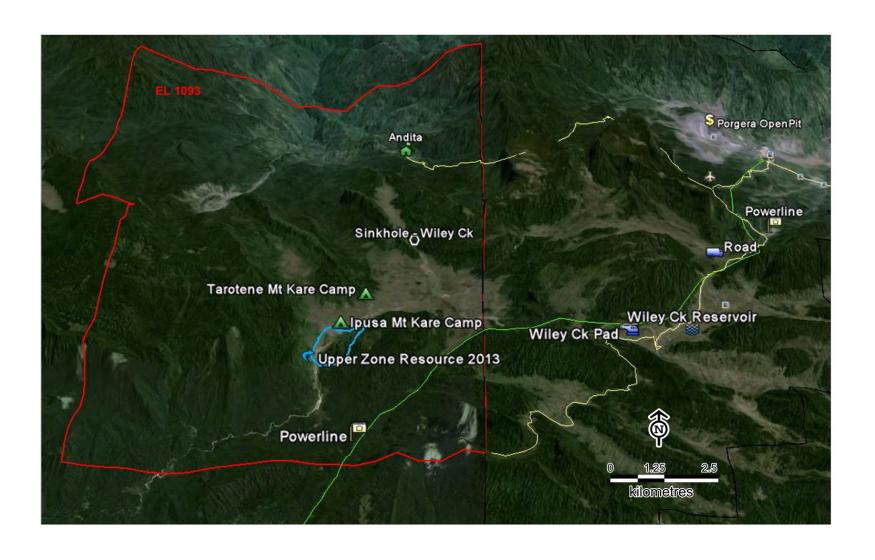
History of Mt Kare			
Gold rush 25 years ago  More than 1 Moz in gold nuggets			
Three prior owners 365 drill holes			
Past focus	Large low grade open pit		
New focus	High grades; underground mining		





## **Location - Infrastructure**





## **Drillholes**



#### **IDC** Drillholes

Drillhole	Metres	Gold	Silver	From
	Width	g/t	g/t	m
170SD12	26	3.9	59	5
168SD12	204.8	1.9	15	22.2
163SD12	23	4.1	15	29
154SD12	15	6.1	42	49
150SD12	42	4.9	62	62
147SD12	30	3.7	96	7
146SD12	38	20.8	57	78
Includes	5	120.1	93	94
138SD12	32	4.1	6	35
135SD12	40.6	3.8	21	102
133SD12	52	6.7	23	11
132SD12	78	6.0	19	6
Includes	54	8.2	18	
131SD12	99	3.2	19	23
126SD12	21	5.5	625	99
123SD11	36.4	6.2	232	56.8
122SD11	17.7	100.3	134	59
Includes	4	420	170	67

## **Drillholes**



#### **IDC** Drillholes

Drillhole	Metres Width	Gold g/t	Silver g/t	From m
180SD12	23	4.7	46	62
181SD12	21	5.8	70	64
Includes	8	10.4	54	77
183SD12	49	22.3	71	63
Includes	21	33.8	64	91
Includes	5	105	100	91
185SD12	21	13.6	144	61
Includes	30	9.6	55	61
Includes	7	35.2	83	75
187SD13	26	6.7	6	25
Includes	7	11.7	7	36
188SD13	14	15.3	9	36
Includes	7	22.9	14	
205SD13	7	7.3	32	104
Includes	46	3.4	11	172
	6	7.6	14	210
206SD13	14	20.4	42	0
Includes	48	3.6	55	68
	12	6.1	54	81

## **Drillholes**

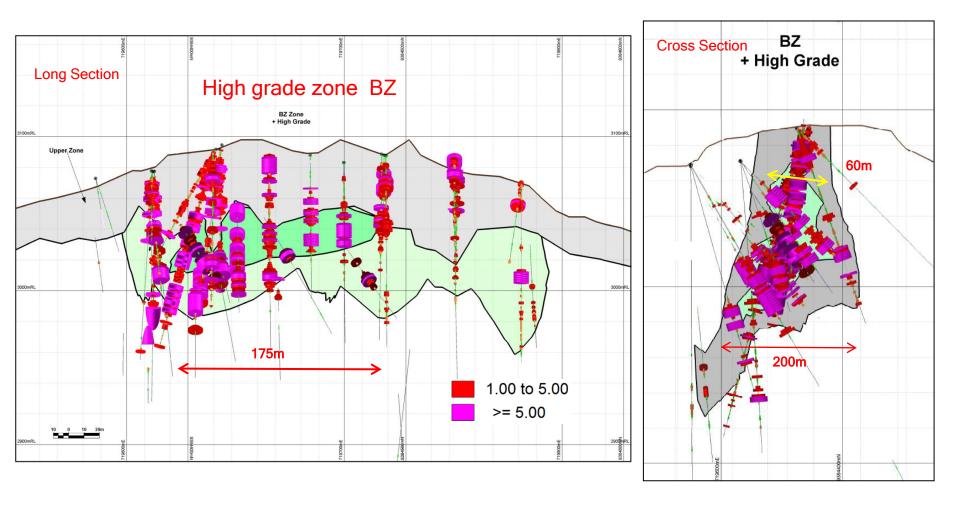


#### History repeats – spectacular grade in past results

Drillhole	Metres Width	Gold g/t	Silver g/t	From m
MK9705	20.5 m	443.9	163	37.5
MK9706	15 m	23.3	145	67.5
MK99146	12 m	173.5	73	84
MK06-53	40 m	15.3	69	93
MK9717	58.5 m	11.7	37	84
MK15	14 m	28.0	213	68
MK0650	27.5 m	17.2	18	101
MK0609A	33.4m	15.7	10	44.6
MK0611	2.5 m	172	103	56
MK06-58	30.5 m	19.2	72	78
MK06-63	25 m	22.6	70	98.2
MK9744	18 m	20.6	65	159
P178	19 m	5.4	337	33
MK9892	19.5 m	2.5	390.8	4.5

## **High Grade Zones - BZ**



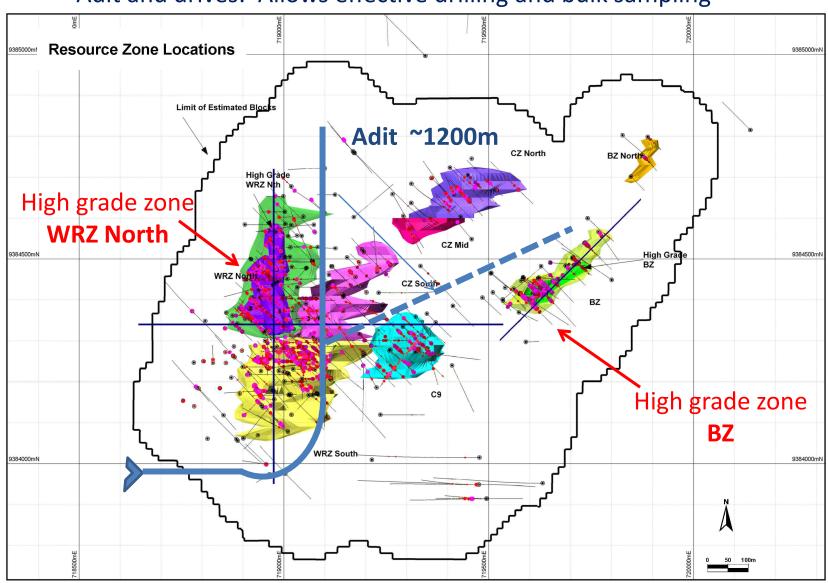




## **Underground Drilling – Fast; Lower Cost**

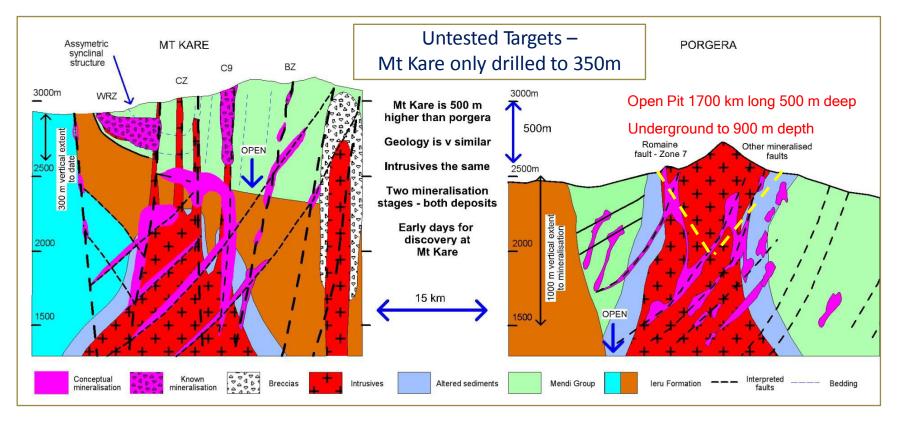
ASX:IDC

#### Adit and drives: Allows effective drilling and bulk sampling



## **Mt Kare - Porgera Comparisons**





Mt Kare	Porgera
500 m higher elevation	RL 2500 m
Similar geology	Similar geology
Same intrusion composition, age	Same intrusion composition, age
Two stage mineralisation	Two stage mineralisation

Targets identified; potential to discover more high-grade mineralisation; many mineralised zones at Porgera – untested at Mt Kare

#### **Resource Statement**



#### Mt Kare project – JORC Mineral Resource Statement (July, 2013)

Resource Classification	Million Tonnes	Gold g/t	Silver g/t	Gold Moz	Silver Moz	Gold Equivalent Moz <sup>(1)</sup>
Measured Resource	20.2	1.84	20.9	1.19	13.5	1.44
Indicated Resource	8.3	1.29	8.1	0.34	2.2	0.38
Measured and Indicated Resource (Combined)	28.4	1.68	17.2	1.53	15.7	1.82
Inferred Resource	14.1	1.27	6.0	0.57	2.7	0.63
Total Mineral Resource	42.5	1.54	13.5	2.11	18.4	2.45

#### Notes

- 1) Gold equivalent grades (Au Eq) are calculated based on a gold price of US\$1200/oz and a silver price of US\$22/oz, or 54.55 silver ounces per 1 gold ounce; this does not consider metallurgy recovery factors.
- 2) Cut-off grades and capping: A lower cut-off of 0.5 g/t Au was used based on the data distribution. Capping strategy utilised: In low grade domains, analyses capped at 30 g/t Au, 250 g/t Ag; Upper Zone and high grade domains at 50 g/t Au, 500 g/t Ag.
- 3) Material classified as Measured and Indicated Resources are wire framed gold mineralisation based on the 2013 block model considering an average distance between drilling of 25 m and 50 m among other criteria. It is considered that this category material has a high probability of being economically extracted, including comparisons with a previously modelled PFS open pit shell based on various assumptions including the prior 2011 resource. Mineralisation beyond an average distance between drilling of 80 m was not included within the lowest category of Inferred Resource.
- 4) Rounded estimates are used, which may cause apparent discrepancies in totals. Significant figures do not imply precision.
- 5) The resources have been reported in compliance with the JORC (2004) code.

#### **Competent Person Statement**

Anthony W. Burgess, a qualified consultant for Indochine Mining Limited, is a member of the Australasian Institute of Mining and Metallurgy and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity undertaken, being reported herein as Exploration Results, 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 (The JORC Code, 2004 Edition). Anthony W. Burgess has consented to the public reporting of these statements and results and the form and context in which they appear.

## **Contact Details**



