

### **Consistently Delivering On Commitments**



November 26, 2015 Innovation • Performance • Growth

# Waihi Site Visit

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#### **Technical Disclosure**

The Mineral Resources for Didipio were prepared by, or under the supervision of, J. G. Moore, whilst the Mineral Resources for Macraes and Reefton were prepared by S. Doyle. The Mineral Reserves for Didipio were prepared under the supervision of M. Holmes, while the Mineral Reserves for Macraes and Reefton were prepared by, or under the supervision of, K Madambi. The Mineral Reserves and Reserves for Haile were prepared by, or under the supervision of, J. Sohua Snider, P.E., Erin Paterson, P.E., Lee "Pat" Gochnour, M.M.S.A., John Marek, P.E. and Carl Burkhalter, P.E. Each of the aforementioned persons is a "Qualified Person" for the purposes of NI 43-101. The Mineral Reserves and Resources for Waihi were prepared by, or under the supervision of, T. Maton, P. Church and D. Bertoldi. M. Holmes, S. Doyle, K. Madambi, J. G. Moore, T. Maton and P. Church are Members and Chartered professionals with the Australasian Institute of Mining and Metallurgy and each is a "qualified person" for the purposes of NI 43-101. D. Bertoldi is a fellow of the Australasian Institute of Mining and Metallurgy and is a "qualified person" for the purposes of NI 43-101. D. Bertoldi is a fellow of the Australasian Institute of Mining and Metallurgy and is a "qualified person" for the purposes of NI 43-101. Messrs Holmes, Doyle, Madambi, Moore, Maton, Church and Bertoldi have sufficient experience, which is relevant to the style of mineralisation and type of deposits under consideration, and to the activities which they are undertaking, to qualify as Competent Persons as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("JORC Code").

The resource estimates for the El Dorado property were prepared by Mr. Steven Ristorcelli, C.P.G., of Mine Development Associates, Reno, Nevada (who is an independent Qualified Person as defined in NI 43-101) and conforms to current CIM Standards on Mineral Resources and Reserves.

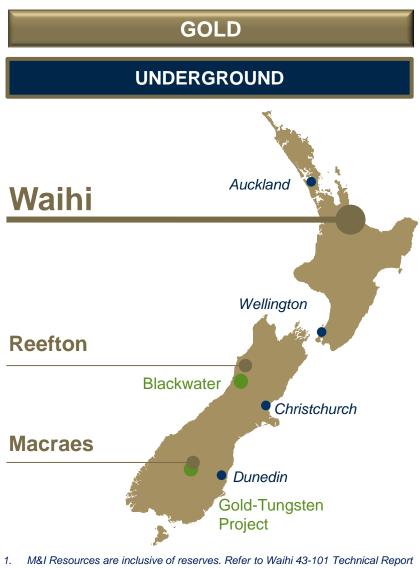
For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating to the Reefton Project, the Macraes Project, the Didipio Project, the Waihi Gold Operation and the Haile Gold Mine Project, please refer to the NI 43-101 compliant technical reports available at sedar.com under the Company's name. For further scientific and technical information (including disclosure regarding mineral resources and mineral reserves) relating to the El Dorado property, please refer to the reports publicly available on SEDAR (<a href="https://www.sedar.com">www.sedar.com</a>) prepared for Pacific Rim Mining Corp.

#### **General Presentation Notes**

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- All AISC and cash costs are <u>net of by-product credits</u> unless otherwise stated
- All financials are denominated in <u>US Dollars</u> unless otherwise stated

## Waihi Gold Mine Overview



1.	M&I Resources are inclusive of reserves. Refer to Waihi 43-101	Technical Report
	dated 23 Nov 2015 at www.oceanagold.com	
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Reserves and Resources <sup>(1)</sup>					
	Mt	g/t Au	Moz Au	g/t Ag	Moz Ag
P&P Reserves	1.5	6.33	0.31	24.0	1.17
M&I Resources	1.5	6.33	0.31	24.0	1.17
Inferred Resources	0.6	7.73	0.15	16.7	0.33

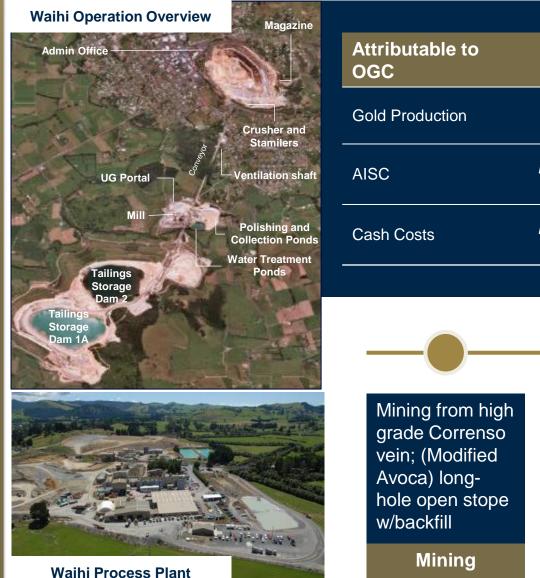
### Avg. Unit Operating Costs (H2 2015)

Mining Costs	NZD / t mined	90 – 100
Processing Costs	NZD / t milled	35 – 38
Site G&A Costs	NZD / t milled	15 – 17

Capital Costs (H2 2015)			
Capitalised Mining	NZDm	1 – 2	
Sustaining	NZDm	4 – 5	
Exploration	NZDm	5 – 6	

Note: NZD:USD = 0.67 (29-Oct-15)

## **Waihi Operation**



Attributable to OGC		Guidance (H2 2015)	Q3 2015 <sup>(1)</sup>
Gold Production	οz	65,000 – 70,000	32,997
AISC	per oz sold	US\$650 – US\$680	US\$497
Cash Costs	per oz sold	US\$490 – US\$520	US\$393

Mining from high<br/>grade Correnso<br/>vein; (Modified<br/>Avoca) long-<br/>hole open stope<br/>w/backfillConventional<br/>SAG & Ball<br/>mills, CIP circuitCapacity of 0.9<br/>Mtpa with<br/>underground ore<br/>– currently<br/>under-utilisedMiningProcessingProcessing

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1. Refer to the Q3 2015 MD&A for disclosures regarding accounting treatment of Waihi post transaction Innovation Performance Growth close, which took place on 30 Oct 2015

## Workforce

Waihi Gold	Employees/Workers
Underground	18
Open Pit	1
Processing	50
HSE	14
Community	4
Site Services	5
Admin/Commercial/HR	11
Exploration	8
Subtotal	111
Contractors	Employees/Workers
Thiess (Underground)	95
Boart (Drilling)	34
Security	14
Various	35
Subtotal	178
TOTAL	289

**Residential operation** 

Contract mining by Thiess (provide labour, some equipment) working 24/7 with 3 crews

Contract exploration drilling and security, working 24/7

Open pit operations suspended due to wall failure April 2015

Processing plant 24/7 operation with 4 crews

## **Management Team**



- Over 30 years industry experience
- 6 years as GM at Macraes operation
- Mining engineer with extensive open pit and underground experience
- Worked extensively in Australia, North and South America and New Zealand
- Track record of delivering on operational performance

#### Lorrance Torckler Exploration & Geology Manager

- 37 years experience in the mining industry primarily in epithermal vein deposits
- Graduated MSc Geology from Auckland University
- Experience in gold exploration across diverse geological settings
- Intimately involved in the discovery, feasibility and mining of the Favona, Moonlight, Trio and Correnso deposits

### Dino Bertoldi Processing Manager



- Fellow of the AusIMM and member of the SME
- 30 years processing experience
- Worked in Australia, Turkey, Ghana, PNG, Malaysia & New Zealand

#### Kevin Storer Site Services Manager



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- · 25 years experience within the mining industry
- Business Management Degree Monash Mt Eliza
- Boddington Gold Mine Contracts Manager
- Golden Cross Mine Project Cost Controller/Contracts Manager
- · Martha Mine Contracts/Supply Projects Manager

### Kerry Watson HSEC Manager

- Diverse work background including Environmental Manager for one of NZ's prominent electricity generators, a Detective Constable for NZ Police and a secondary school biology teacher.
- Significant experience in environmental management, monitoring, regulatory processes and community engagement

#### Charlie Gawith Underground Manager



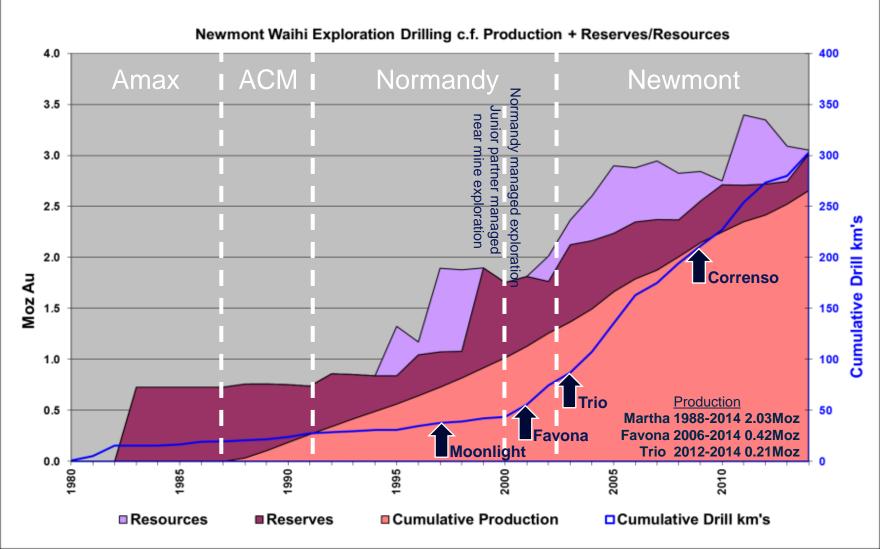
- Bachelor of Mining Engineering
- Over 12 years mining industry experience
- Experience working in Zimbabwe, Australia & New Zealand

#### Jill Mason Human Resources Advisor



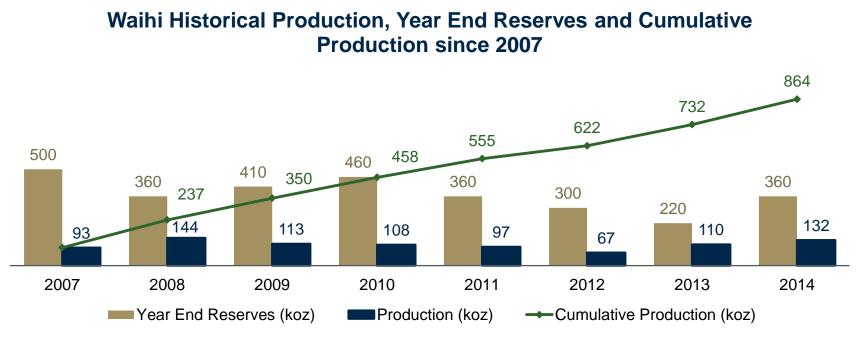
- Over 20 years experience in generalist human resource roles
- NWG 10 months
- Prior work experience with SGS NZ, Restaurant Brands Ltd & Fletcher Challenge Group

## **30-Year History at Waihi**



## **Recent Historical Production and Reserves**

### Waihi has a track record of reserve replenishment over its 27 year history

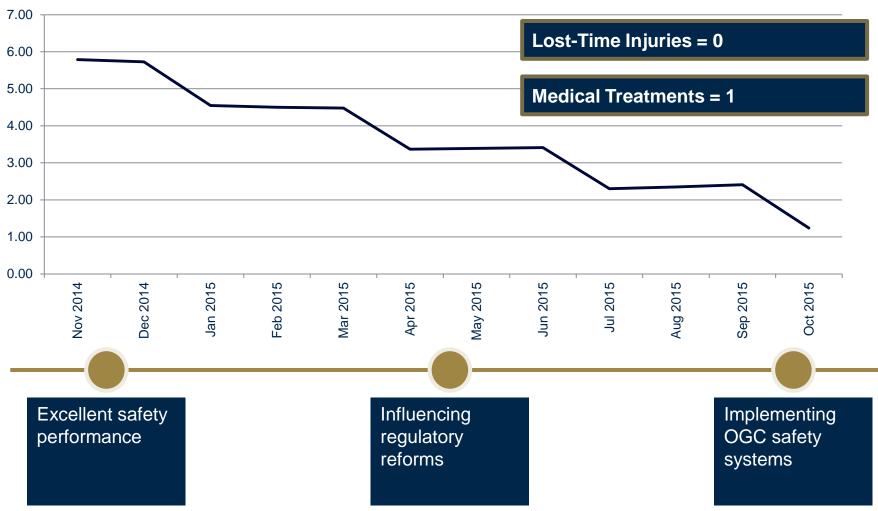


Source: Newmont Annual Reports.

Waihi has produced c.2.7Moz of gold since re-opening in 1988

## **Safety Performance**

### **Total Recordable Injury Frequency Rate**



(12 Month Moving Average)

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## **Safety Initiatives**





### Show of Hands for Safety

Vital Behaviours Open Days

State-of-the-art, cross-industry ERT training program

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Innovation Performance Growth

# **Sound Environmental Management**

### An unwavering commitment to the environment today, for tomorrow



 Management of neighbouring farms



Monitoring of local wildlife

### Rehabilitation



Restoring lands with native flora

### Water



Six river monitoring sites

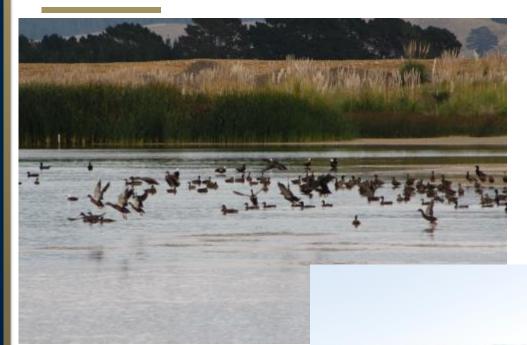


Native Dotterel monitoring



Protection of significant sites

## **Tailings Impoundment**



Indigenous wildlife – birdwatch conducted twice daily

### Progressive rehabilitation

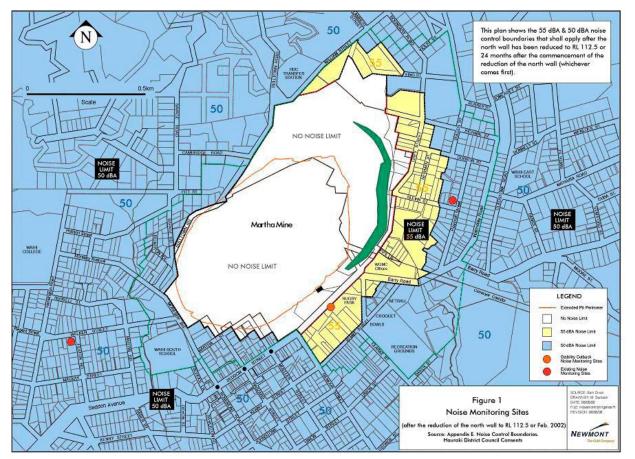


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## **Community Relations**

### High engagement and monitoring due to proximity of mining activity



### Noise Monitoring



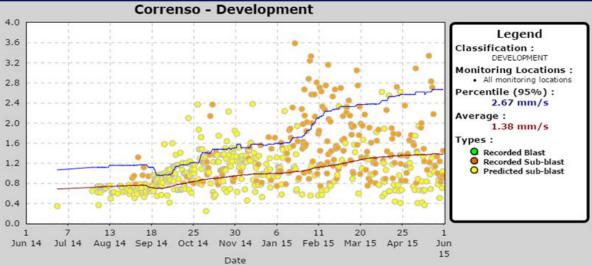
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## **Community Relations**



Vibration & Dust Monitoring

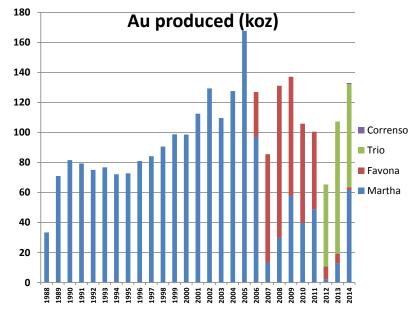




#### Innovation Performance Growth

## **Martha Pit Stages**





### Four phases mined

- 1. Licensed Pit 1988 to 1999 (7.7Mt at 3.0g/t)
- Extended Pit 1997 to 2006 (10.5Mt at 3.5g/t), north, east and south wall cutbacks, mill upgrade, new TSF
- 3. South Layback 2006 to 2011 (3Mt at 2.7g/t), historic pump-house relocation, south wall stabilization
- 4. East Layback from 2011 (1.1Mt at 3.1g/t)

## Martha Open Pit – North Wall Failure

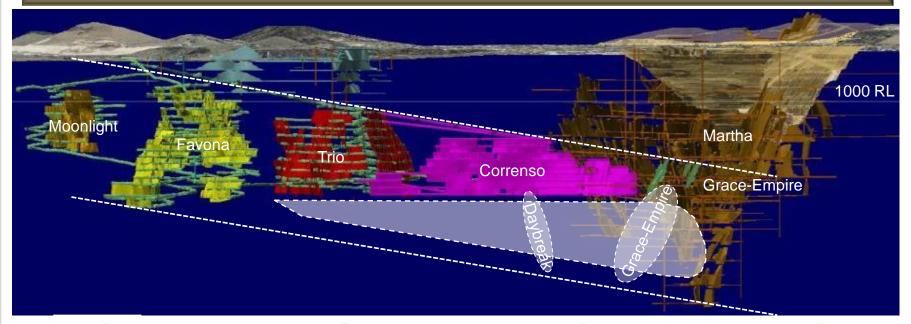
### Ore remaining in Phase 4: 0.9Mt at 2.9 g/t



- North wall failure on upper ramp
- Looking at re-entry options

## **Correnso Underground Mine**

### Project capital commenced August 2014



### Capital expenditure is complete. OGC expenditure plan being implemented

Currently producing 10-12 koz per month Mining undertaken by Thiess under an Alliance contract

### Unaffected by Martha Open-Pit wall slip

## **Correnso Underground Fleet**

Equipment Type	Model	Quantity
Jumbos	Tamrock Axera 7-240	3
Production drills	Tamrock Solo 5-5V Tamrock Solo DL 3305	1 1
Trucks	Atlas Copco MT 5020	3
Charge unit	Normet 1610B	1
Shotcrete unit	Normet 6050W	1
Total carriers	Volvo L120F Volvo L120G	2 1
Grader	Catepillar 12H	1
Water cart	Isuzu NPR-33	1
Hiab Truck	Isuzu Hiab Truck	1





**Innovation Performance Growth** 

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### **Processing Plant**



Mill throughput of 0.5 Mtpa with suspension of open pit. Max throughput of 0.9 Mtpa (underground ore), 1.3 Mtpa for open pit ore only.

Crushing, grinding, fine grinding, carbon-inpulp, elution, electro winning, and smelting



Achieving overall recoveries > 90% in 2015 in line with historical performance.

Identifying optimal operation strategy with reduced ore supply.

## **Process Flowsheet**

### Grinding

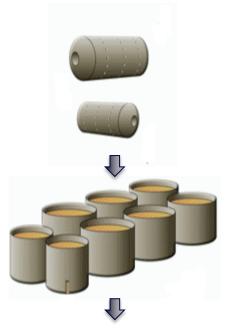
SAG and Ball mills grind ore to p80 <70 microns.

### Leaching and Adsorption

Weak cyanide solution dissolves gold and silver that is passed into six adsorption tanks.

### **Elution and Electrowinning**

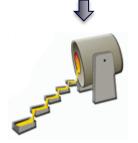
Loaded carbon washed and gold and silver is won onto steel cathodes.



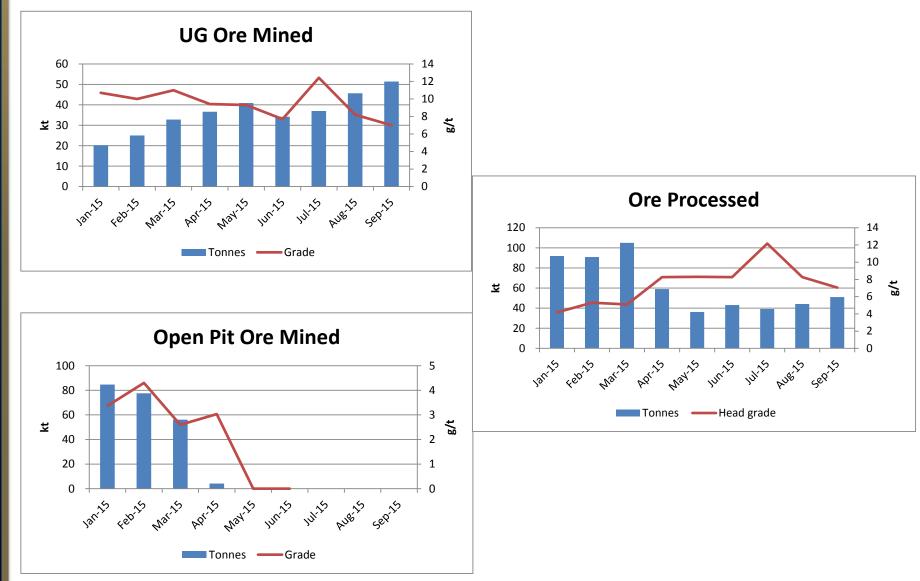


### **Bullion Production**

Loaded cathodes rinsed and gold and silver is melted and molded into dore bullion.



## **2015 YTD Physicals**

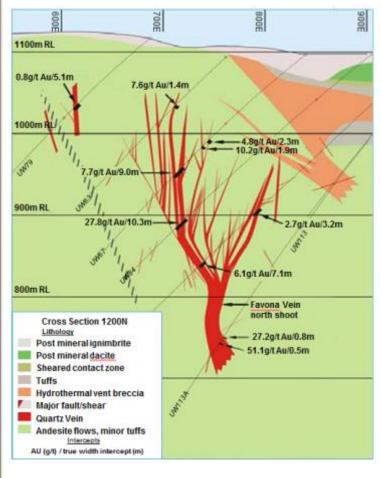


## **Opportunities and Growth: Opportunities**

Opportunity	Action Plan
Operational improvements	<ul> <li>UG owner-mining</li> <li>UG crib room and fibre optic</li> <li>Review COG strategy; reduce COG if economic</li> <li>Review of property divestment strategy</li> <li>Supply pricing synergies</li> <li>Processing study to optimise costs (eg campaign milling).</li> </ul>
Recommence mining Martha Phase 4 pit	Investigate re-entry.
Martha Phase 5 pit	Scoping study underway and drilling scheduled.
Exploration (brownfields and greenfields)	Ramp up exploration in 2016 and 2017.
UG Backfill	Investigate UG exploration drive as cheaper backfill
Reduce cost of constructing outer capping layers on TSF- PAF surfaces by reducing thickness of NAF layer	Design and study to assess if any environmental effect; obtain regulatory approvals
Reduce tax payable by using tax losses within group	Tax planning

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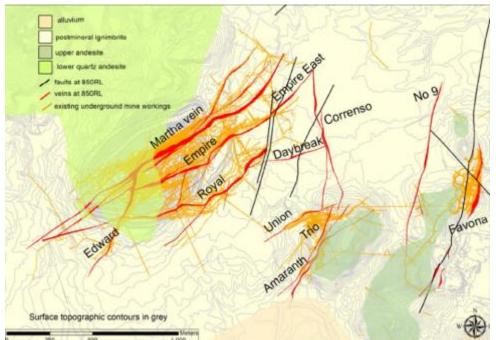
## Waihi Geology



Low sulphidation epithermal gold & silver deposits in quartz veins within andesitic to ryholitic volcanics

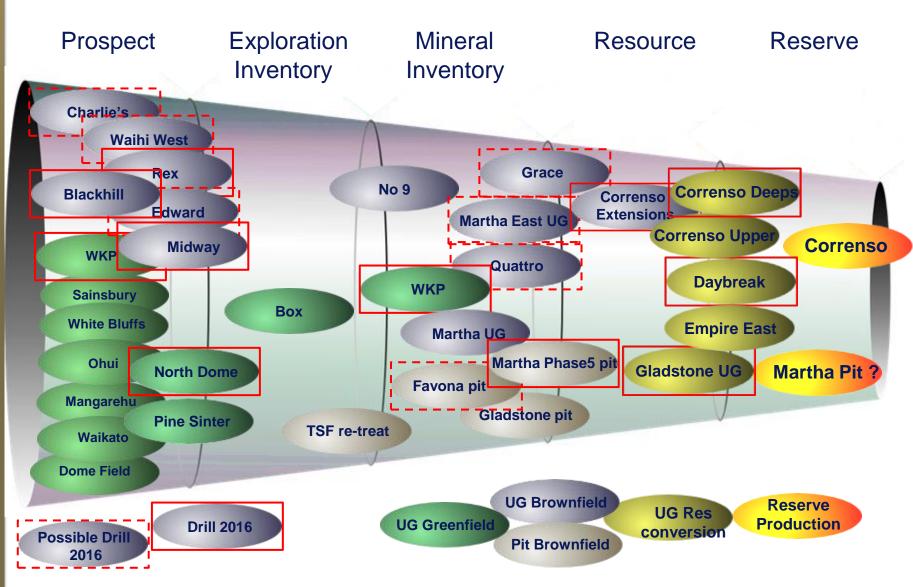
Main ore minerals are electrum & silver sulphides with minor pyrite

Generally steep dipping veins which splay upwards to narrower hanging wall vein sets, typically 1-5m wide



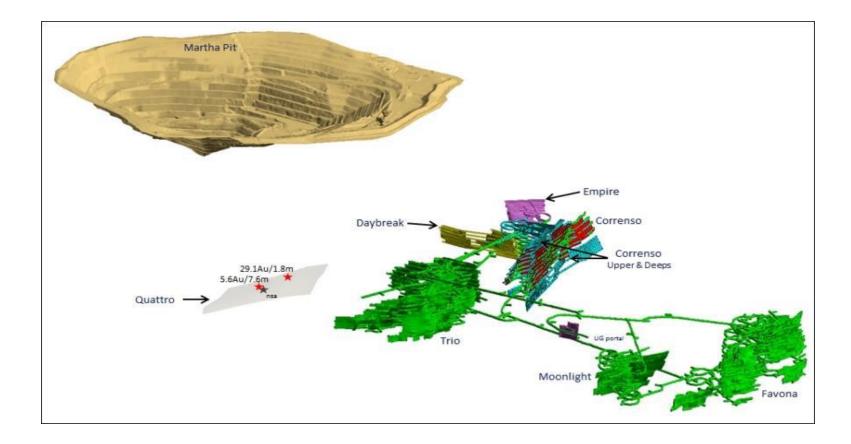
#### **Innovation Performance Growth**

# Waihi Project Pipeline 2015



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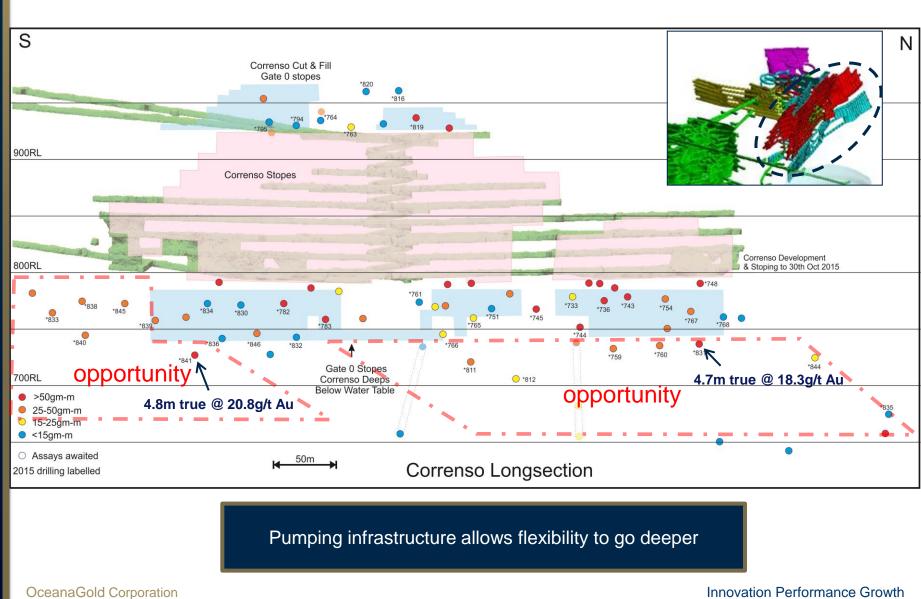
## **Brownfields Exploration**



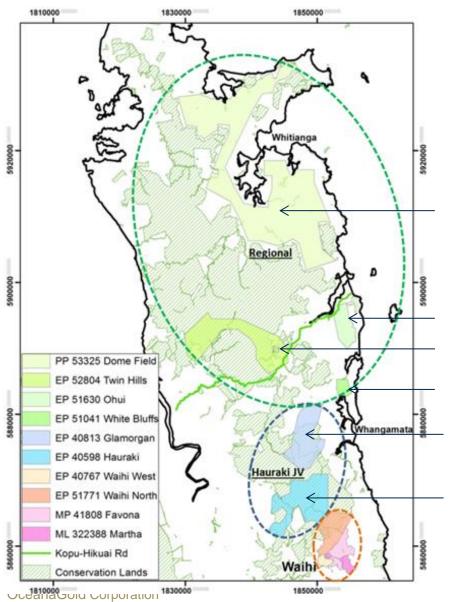
# 14,000 metres of drilling planned underground

## 8,000 metres of drilling planned at Martha

## **Brownfields Exploration**



### **Greenfields Exploration**



Dome Field: EP application/s - design and initiate program

Ohui: Remodel – target generation for 2017 Twin Hills: Map/sample – access post Treaty Settlement White Bluffs: 500m drilling

Glamorgan: Map/sample – access post Treaty Settlement

Hauraki: Includes WKP, significant drill program planned for 2016



### oceanagold.com

