# **DOME GOLD MINES LIMITED**

# The New Name in Pacific Rim Mining

# **Gold – Copper – Mineral Sands**



#### **Dome Gold Mines Fiji tenements**





#### **Dome Gold Mines Investment Summary**

Dome is an emerging ASX listed Australian mining company with high quality, 100% owned assets in Fiji, including:

Ono:	An epithermal gold project with the hallmarks of a typical "Ring of Fire" gold deposit
Sigatoka:	A development-ready mineral sands deposit with anticipated production commencing 2018
Namoli :	A porphyry copper-gold project with world class potential

Dome's business strategy is to develop the mineral sands deposit first, generating a strong cash flow that will fund future growth and lead on to gold and copper production long into the future.

Strong Japanese backing, with additional investment from China



#### **Dome Gold Mines Company Snapshot**



#### About Dome

- Market Cap currently A\$80.74M (October 2016)
- Top 20 shareholders: 81%
- Since listing has traded consistently above IPO issue price
- Backed by Japanese and Chinese institutional and private investors
- Extensive experience operating in Fiji

#### Strategy

- Sound, realistic and achievable business plan
- Geographic focus with commodity diversity
- Operating in a low tax, low cost country
- English language and legal structure
- Well supported by mining-friendly government and local people



### **Dome Gold Mines – Project Summary**

#### **Ono Island**

- Very promising gold prospect analogous with other Pacific Rim deposits
- Exploration targeting two well defined prospects
- "Proof of Concept" drilling on Ono in 2017

#### Sigatoka

- Simple, robust dredging operation with minimal waste, anticipated to start in 2018
- Production from Sigatoka requires only modest capital, uses conventional technology and has low entry barriers
- Cash flow to start before capex draw down is complete
- Earnings generated will allow organic growth with minimal dilution

#### Namoli-Wainivau

- High potential porphyry copper-gold system at Namoli-Wainivau
- Probably similar to neighbouring world class Namosi Deposit
- Porphyry target definition in 2017
- Discovery drilling in 2017-18



#### **Dome's People**

#### **Experienced Board and Management**

#### Chairman

**Executive Director** 

Director

Director



Company Sec.



Garry Lowder Geologist



Andrew Skinner CPA Accountant



Allen Jay Geologist



Tadao Tsubata Investment Mgt



CEO

Jack McCarthy CEO, Geologist



Marcelo Mora Accountant

#### **Exploration Fiji**



Suliano Niurou Senior Geologist



Semi Luvuiwai Landowner Relations



Jean White Community Relations

Supported by a skilled team of expatriate and Fijian geologists, drillers, field assistants and administrative staff



### **Benefits of exploring and operating in Fiji**

#### About Fiji

- Democratically elected
  Government 17/9/14
- All sanctions lifted
- Mining-friendly legal system and culture – based on Qld
- Corporate tax rate of 20%
- Well mineralised region
- Gold, silver, copper, polymetallic, mineral sands and bauxite mines/deposits
- Low wage structure
- Skilled local workers



### Ono Island Gold Project OVERVIEW

- Ono Island created by volcanism ±4 million years ago
- Classic high-sulphidation epithermal alteration signature
- Exploration to focus on bonanza "boiling zone" gold deposition
- 3-D Induced Polarisation has been used to target drilling
- Potential for +1M ounce gold deposit discovery in 2017
- Budget to initial resource definition - \$2 million



Source: Mineral Resources Department - Fiji, 1979



### Ono Island Gold Project EXPLORATION TARGET

- High sulphidation epithermal gold system on Ono Island
- Hosted by young volcanic rocks cf. Lihir Island, PNG: Lepanto, Philippines
- Two adjacent targets Naqara East and West, each approx. 2km<sup>2</sup> in area
- Prospects defined by surface alteration, silicification, veining and geochemistry
- Geophysical (IP) survey completed
- Exploration next step, drilling to target boiling zones at 200m-350m depth 10 x 500m holes
- Objective to discover +1M ounce gold deposit





## **Ono Island Gold Project** INDUCED POLORISATION (IP) SURVEY



Plan view plots of the IP chargeability (top) and resistivity (bottom) at 250m depth.

Cross sections through the plane of proposed drill holes marked A - A' and B - B' are shown on slices through the 3D model on slide 11.



### **Ono Island Gold Project** INDUCED POLORISATION (IP) SURVEY



Sections A – A' (top) and B - B' (bottom) of the 3D chargeability model of the IP data along the plane of proposed drill holes.



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### Ono Island Gold Project EXPLORATION MODEL



### Sigatoka Mineral Sands OVERVIEW

- Joint Ore Reserves Committee (JORC) 2012 Indicated and Inferred Resource published October 2014 at 131.6MT
- About one-third of deposit is incorporated into JORC 2012 resource estimate
- Environmental Impact Assessment approved October 2015
- Mining will produce magnetite (Fe-ore) concentrate, non-magnetic concentrate and industrial sand and gravel
- Environmentally sustainable minimal waste streams with domestic & export markets available for industrial sand and gravel products
- Deepening of Sigatoka River will mitigate flooding and creates potential for commercial port and river developments and brings community benefits



### **Sigatoka Mineral Sands Deposit SPL 1495**



Heavy mineral sand exposed on Koroua Island

- Heavy mineral content: 11 17% (i)
- Including magnetite: 1 12% (i)
- Low slimes: <7% <sup>(i)</sup>
- Sand thickness: >35m
- High quality sonic drilling



Sonic drill rig



Drilling in the river



Sonic drill rig 'core'

### Sigatoka Mineral Sands Deposit RESOURCE

- Current JORC 2012 resource is +131 million tonnes (indicated and inferred)<sup>(i)</sup>
- Additional resources are yet to be drilled on Koroua Island and offshore
- Mining lease expected shortly



### Sigatoka Mineral Sands Deposit PRODUCTION



*Typical dunal mining plant in operation (example)* 



Typical dunal mining plant restacking dunes (example) Note: These plants are not owned by Dome

#### Simple operation:

- No impact on National Park
- Mining by conventional dredging
- River bed and dunes mined in parallel
- Standard gravity and magnetic processing
- Endorsed by local people
- Supported by Fijian Government
- Excellent longer term potential offshore
- Sand thickness: >35m
- Heavy mineral content: 11%-17%, including:
  - Magnetite: 1%-12%
  - Low slimes: <7%</li>



### Sigatoka Mineral Sands Deposit FUTURE OPTIONS

- About two-thirds of sand deposit is not yet included in the JORC 2012 resource estimates – still to be drilled
- Scope exists for increased production
- Life of the mine estimated to be 20+ years
- DME has opportunity to benefit from community infrastructure for marina, commercial port or coastal resort infrastructure



#### Namoli-Wainivau Porphyry Copper-Gold Project SPL 1452





### Namoli-Wainivau Porphyry Copper-Gold Project OVERVIEW



### Namoli-Wainivau Porphyry Copper-Gold Project OVERVIEW

- Large tenement adjacent to Newcrest's Namosi porphyry copper-gold deposit
- Two prospects: Namoli and Wainivau 2km apart
- Outcropping porphyry style copper-gold mineralisation has been discovered by Dome
- Historic drilling (1970's) at Wainivau intersected long intervals of anomalous copper mineralisation on margins of Dome's target area
- Dome exploration targeting large tonnage porphyry hosted copper-gold deposits
- Possible repetition of Namosi system



### Namoli Porphyry Copper-Gold Project EXPLORATION TARGET



Namoli Prospect Rock Geology & Geochemistry Red numbers = >100ppm Cu

- Coherent gold signature at Namoli
- Partly hidden by younger volcanics and sediments
- Copper mineralisation exposed along Wainivau Creek
- Rock alteration and geochemistry typical of high levels of a porphyry systems
- 3-D Induced Polarisation and magnetometer geophysics will help target exploration drilling
- 5 x 1,000m drill holes proposed for each prospect
- Discovery drilling results 2017



### **Dome Gold Mines – Forward Work Program**

#### **Ono Island**

- Follow up IP survey at Naqara Prospect with 'discovery' diamond drilling of identified targets
- 10 x 500m diamond drill holes
- Budget for 2016-17: \$A2 million

#### Sigatoka

- Add to resource base by further drilling, including offshore, in 2017
- Complete Definitive (Bankable) Feasibility Study during 2017
- Proceed to staged development (river then dunes)
- Production by late 2018 possible
- Pre-development budget: \$A6M

#### Namoli-Wainivau

- Complete IP and magnetic surveys of both prospects in 2017
- Follow up with 'discovery' diamond drilling of porphyry targets
- Up to 10 x 1000m diamond drill holes
- Budget for 2017: \$A2M



#### **Contact Details**

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#### **Competent Person's Statement:**

The information in this report that relates to Exploration Results is based on information compiled by John McCarthy, who is Chief Executive Officer of the Company. Mr McCarthy is a geologist who is a Member of the Australasian Institute of Mining and Metallurgy and has sufficient experience which is relevant to the style of mineralisation and type of deposits under consideration and to the activities which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr McCarthy indirectly holds shares in the Company and consents to the inclusion in this report of the matters based on his information in the form and context in which it appears.

(i) All the material assumptions underpinning the resource estimates information in the initial public report (see ASX release dated 23 October 2014) continue to apply and have not materially changed.

No new exploration results for Namoli-Wainivau or Ono Island are reported in this release and further details of JORC 2012 compliant information, such as Table 1 disclosures, can be found in Dome's previous ASX releases, quarterly activities reports or at the Company's website: www.domegoldmines.com.au

#### **Forward Looking Statements**

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