



# Tuvatu Gold Project

Navilawa Alkaline Gold System

Fiji Islands

December 2020





## DISCLAIMER

The information provided in this presentation is not intended to be a comprehensive review of all matters and developments concerning the Company and should be read in conjunction with all other disclosure documents of the Company. The information contained herein is not a substitute for detailed investigation or analysis. No securities commission or regulatory authority has reviewed the accuracy or adequacy of the information presented.

## FORWARD-LOOKING STATEMENTS

This presentation contains statements and information that constitute forward-looking information within the meaning of Canadian securities legislation, referred to herein as "**forward-looking statements**", include statements regarding proposed exploration and development activities and their timing, resource estimates, exploration potential and the PEA, including estimates of capital and sustaining costs, anticipated internal rates of return, mine production, estimated recoveries, mine life, estimated payback period and net present values, opportunities to enhance the value of the Tuvatu Gold Project and other plans and objectives of the Company. In making the forward-looking statements herein, the Company has applied several material assumptions, including that (1) required approvals, permits and financing will be obtained; (2) the proposed exploration and development of the Company's properties will proceed as planned and that actual results will be consistent management's expectations; (3) with respect to mineral resource estimates, the key assumptions and parameters on which such estimates are based; (4) market fundamentals will result in sustained metals and minerals prices; and (5) with respect to the PEA, the assumptions underlying the PEA, that the proposed mine plan and recoveries will be achieved, that capital costs and sustaining costs will be as estimated and that no unforeseen accident, fire, ground instability, flooding, labor disruption, equipment failure, metallurgical, environmental or other events that could delay or increase the cost of development will occur.

Forward-looking statements are subject to a variety of known and unknown risks, uncertainties and other factors which could cause actual events or results to differ from those expressed or implied by the forward-looking statements, including: delays or inability to obtain required government or other regulatory approvals, permits or financing, the risk of unexpected variations in mineral resources, grade or recovery rates, of failure of plant, equipment or processes to operate as anticipated, of accidents, labor disputes, and unanticipated delays in completing exploration and development activities, the risk that estimated costs will be higher than anticipated and the risk that the proposed mine plan and recoveries will not be achieved, bad weather, exploration and development risks, actual results of exploration and/or development activities being materially different from those expected by management; uncertainties related to interpretation of drill results and geological tests, failure to meet expenditure and financing requirements, title matters, third party consents, operating hazards, metal prices, political and economic factors, competitive factors and general economic conditions. Actual results may vary from those implied or projected by forward-looking statements and therefore investors should not place undue reliance on such statements. The forward-looking statements herein are made as at the date of this presentation and the Company expressly disclaims any intention or obligation to update or revise any forward-looking statements except as required by applicable securities legislation.

## TECHNICAL DISCLOSURE

The technical information in this presentation has been approved by Stephen Mann, P. Geo., Managing Director of the Company and a Qualified Person as defined by National Instrument "NI" 43-101 Standards of Disclosure for Mineral Projects.

# HIGHLIGHTS: HIGH GRADE GOLD ASSETS IN FIJI

Rare 7km-wide high grade alkaline gold complex with vast structural network mapped at >1.2km depth.

Extremely high grade depth extensions of current resource recently discovered in Tuvatu mining lease permit area.

Fully permitted for production through the granted Tuvatu Mining Lease.

Only alkaline deposit with comparable characteristics owned by a junior.

Lion One continues to develop production infrastructure, starting with the Assay Lab at Nadi HQ and on-site civil earthworks in 2019.

Debt free, with over \$65M working capital.



# LEADERSHIP AND TECHNICAL TEAM HAVE A LONG HISTORY OF SUCCESS



**Walter Berukoff**

Chief Executive Officer

**Founder and CEO of notable gold mining startups:**

- **Northern Orion Resources** acquired by Yamana Gold in 2007 for \$1.1B
- **Miramar Mining** acquired by Newmont Mining in 2008 for \$1.5B
- **La Mancha Resources** acquired by Weather Investments in 2012 for \$600M
- **Emperor Gold Mines** Fiji Gold Assets (Vatukoula & Tuvatu) purchased in 2008



**Stephen Mann**

Managing Director

Formerly BHP, Newcrest, Cogema/AREVA, La Mancha, Avocet Resources



**Kevin Li**

Project Manager - Tuvatu

Formerly Fluor, SNC-Lavalin, Saskpower, Project Controls, Pretium Resources



**Dr. Quinton Hennigh**

Economic Geologist

Chairman of Novo Resources. Formerly Homestake, Newcrest, Newmont

# INVESTMENT PROFILE: \$65M WORKING CAPITAL



## ISSUED & OUTSTANDING CAPITAL

Shares: 155,455,493  
 Warrants: 11,371,590  
 Broker units: 1,405,049  
 Options: 8,211,540  
 Fully Diluted: 176,443,672

Share Price: \$1.55  
 Market Cap: \$241 million  
 Market Cap (FD): \$273 million  
 Cash: \$65 million  
 Debt: Nil

## ANALYST COVERAGE

Scarsdale Equities Mike Niehuser  
 Red Cloud Securities Jacob Willoughby  
 Eight Capital David Talbot



## TOP INSTITUTIONAL SHAREHOLDERS

Donald Smith & Co.  
 Franklin Precious Metals Fund  
 Regal Funds Management  
 Invesco Oppenheimer Gold & Special  
 Minerals Fund



# DUAL EXPL-DEV OPPORTUNITY

## NAVILAWA ALKALINE GOLD SYSTEM

### TUVATU HIGH GRADE GOLD PROJECT

*Greenfield exploration upside  
coupled with brownfield  
development opportunity*

First company to consolidate the  
Navilawa Gold System

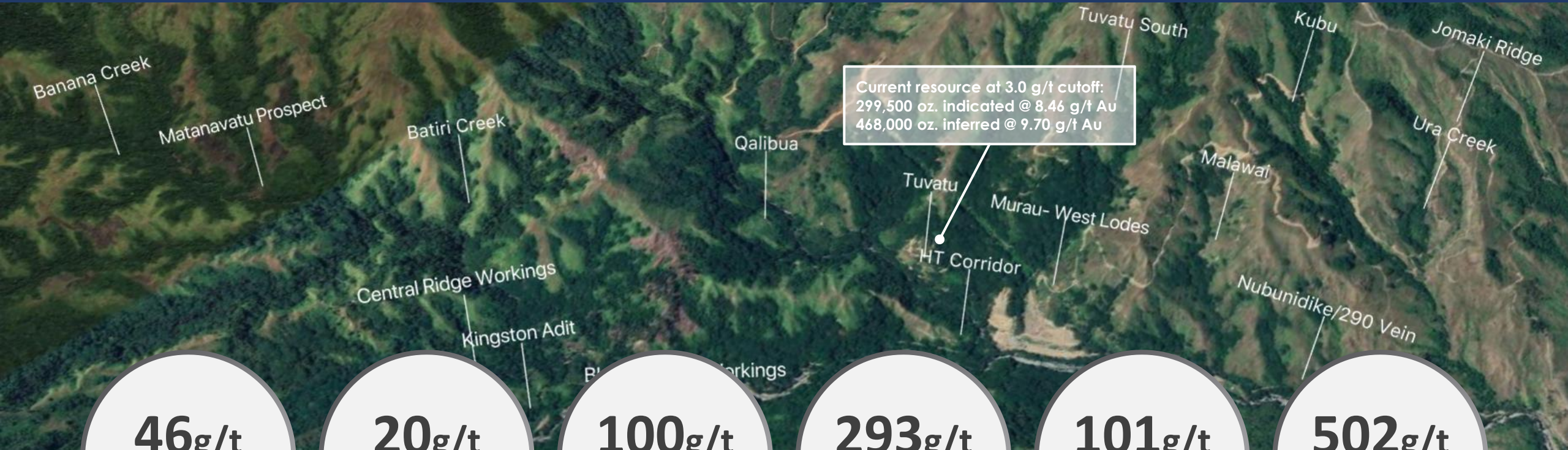
Tuvatu mining lease (SML62)  
located at center of 200 km<sup>2</sup>  
exploration license area

Significant unexplored land  
holding within bounds of  
exploration license likely to yield  
further large deposits



# OUR FOCUS IS ON HIGH GRADE DEPTH EXTENSION

over 30 geochemical anomalies in excess of 5 g/t Au along 7km strike



**46g/t**  
Au from rock chips

Banana Creek

**20g/t**  
Au from rock chips

Central Ridge

**100g/t**  
Au from rock chips

Kingston

**293g/t**  
Au from rock chips

Nubunidike

**101g/t**  
Au from rock chips

Ura Creek

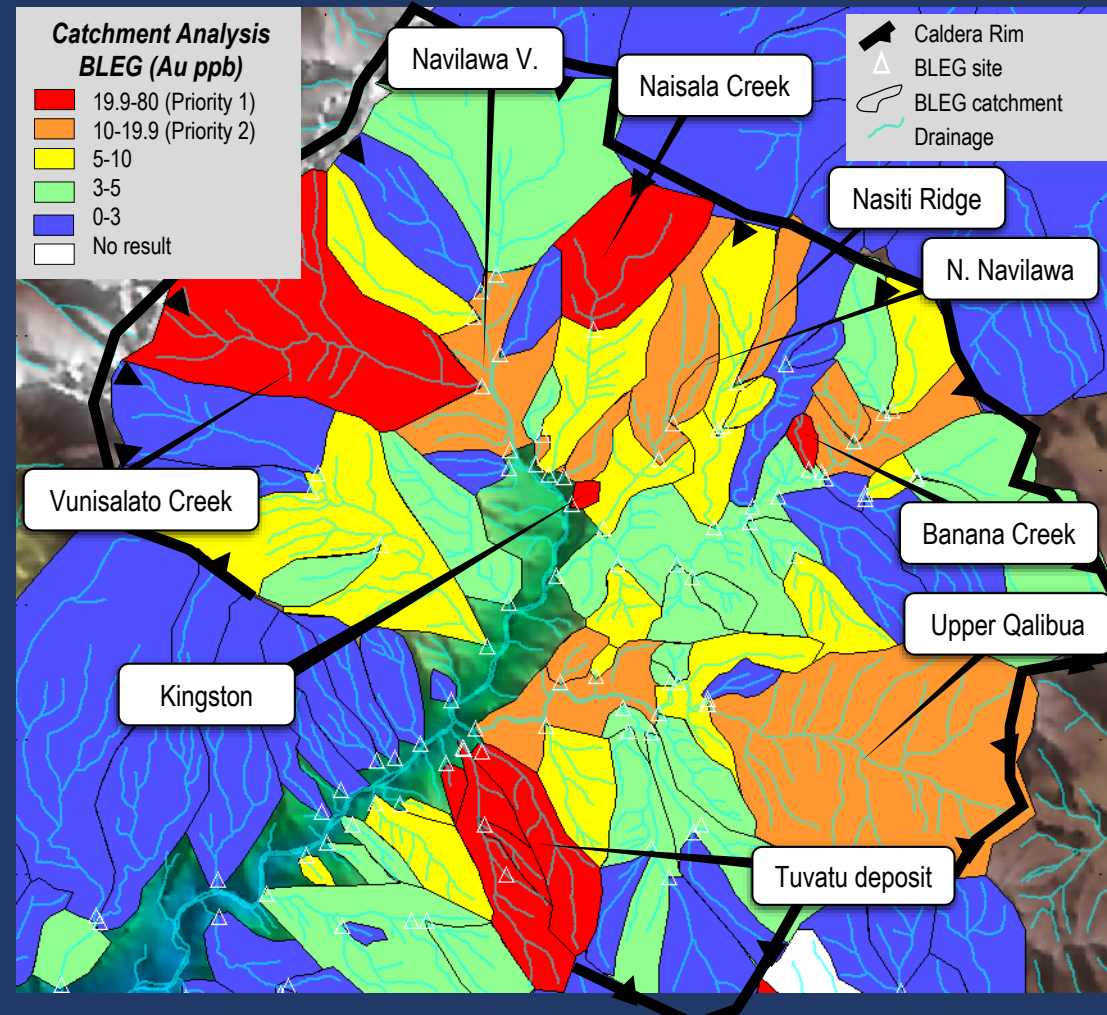
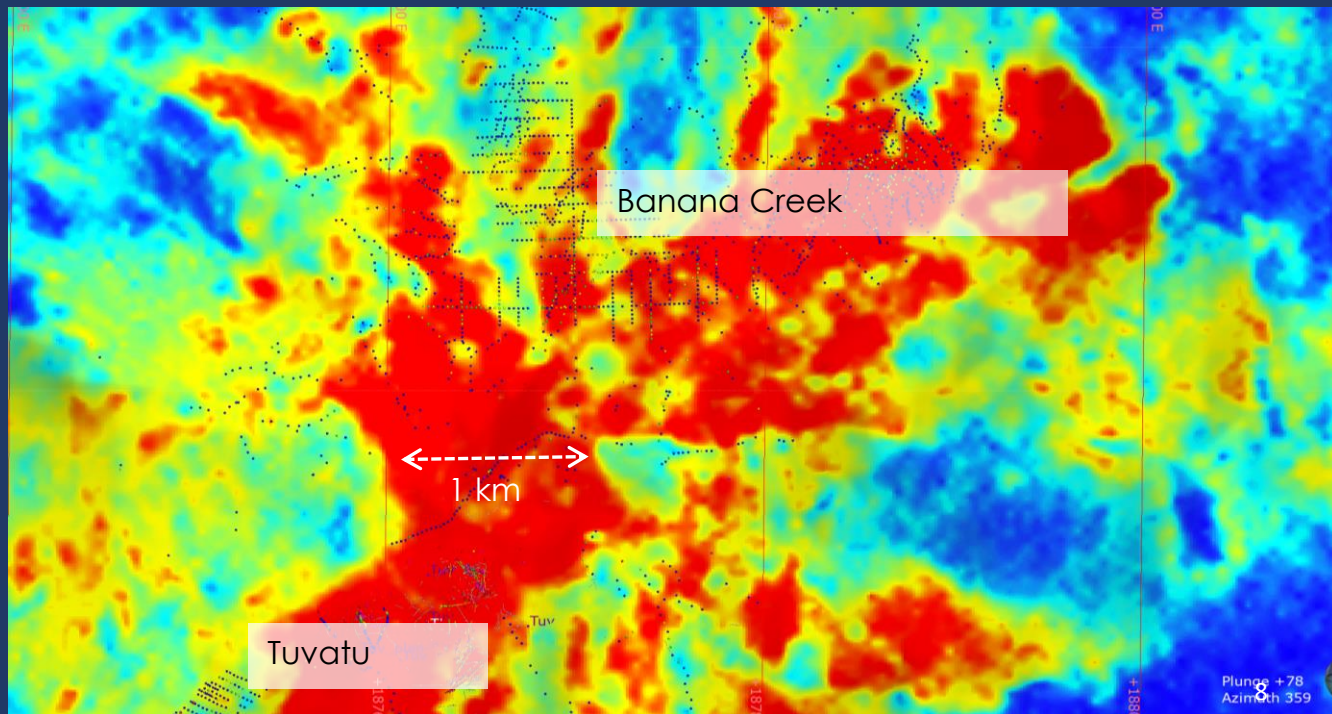
**502g/t**  
Au from rock chips

Jomaki

# USING SCIENCE TO REALISE THE POTENTIAL OF THE NAVILAWA CALDERA

Potassium radiometrics reveals scale of fluid migration through system in Navilawa caldera, Radiometrics reveal gold-enriched mineralizing system over 7km in diameter.

BLEG Sampling of catchments highlights prospectivity of entire Navilawa Caldera

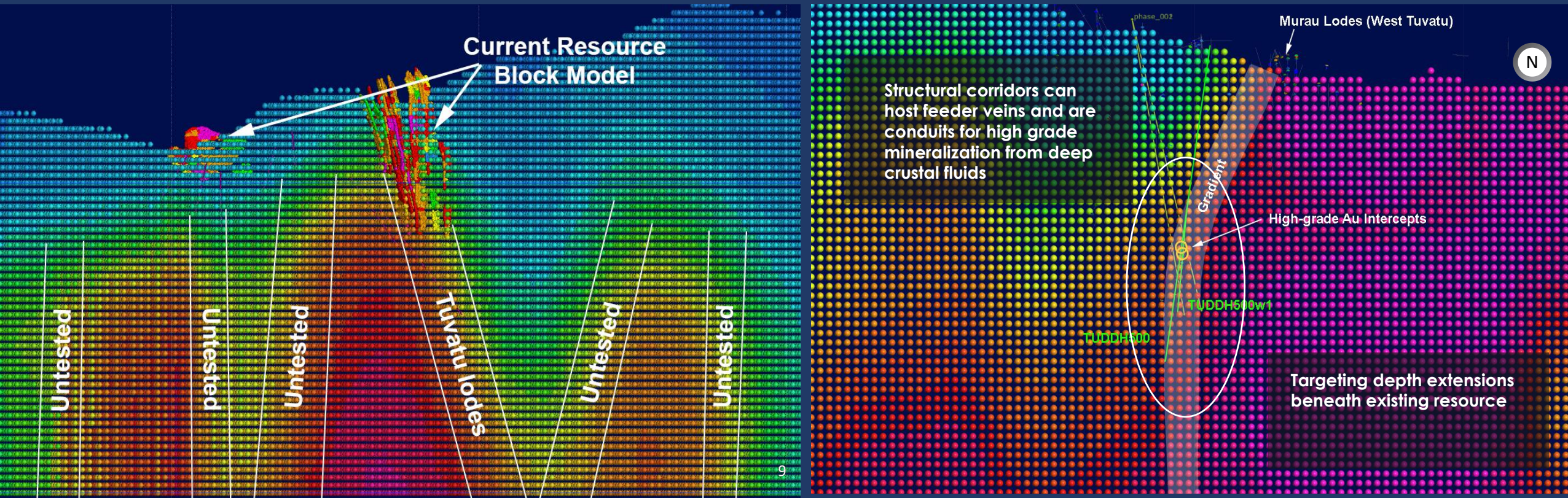




# USING SCIENCE TO REALISE THE POTENTIAL OF THE NAVILAWA CALDERA

## CSAMT/ DEEP DRILLING PROGRAM

2020 drilling program targets CSAMT gradients to confirm deep-rooted feeder pathways



Ongoing diamond drilling program has extended the known resource to 750m depth and remains open

**Results include:**

**TUDDH493:**  
4.29m @ 33.2 g/t Au

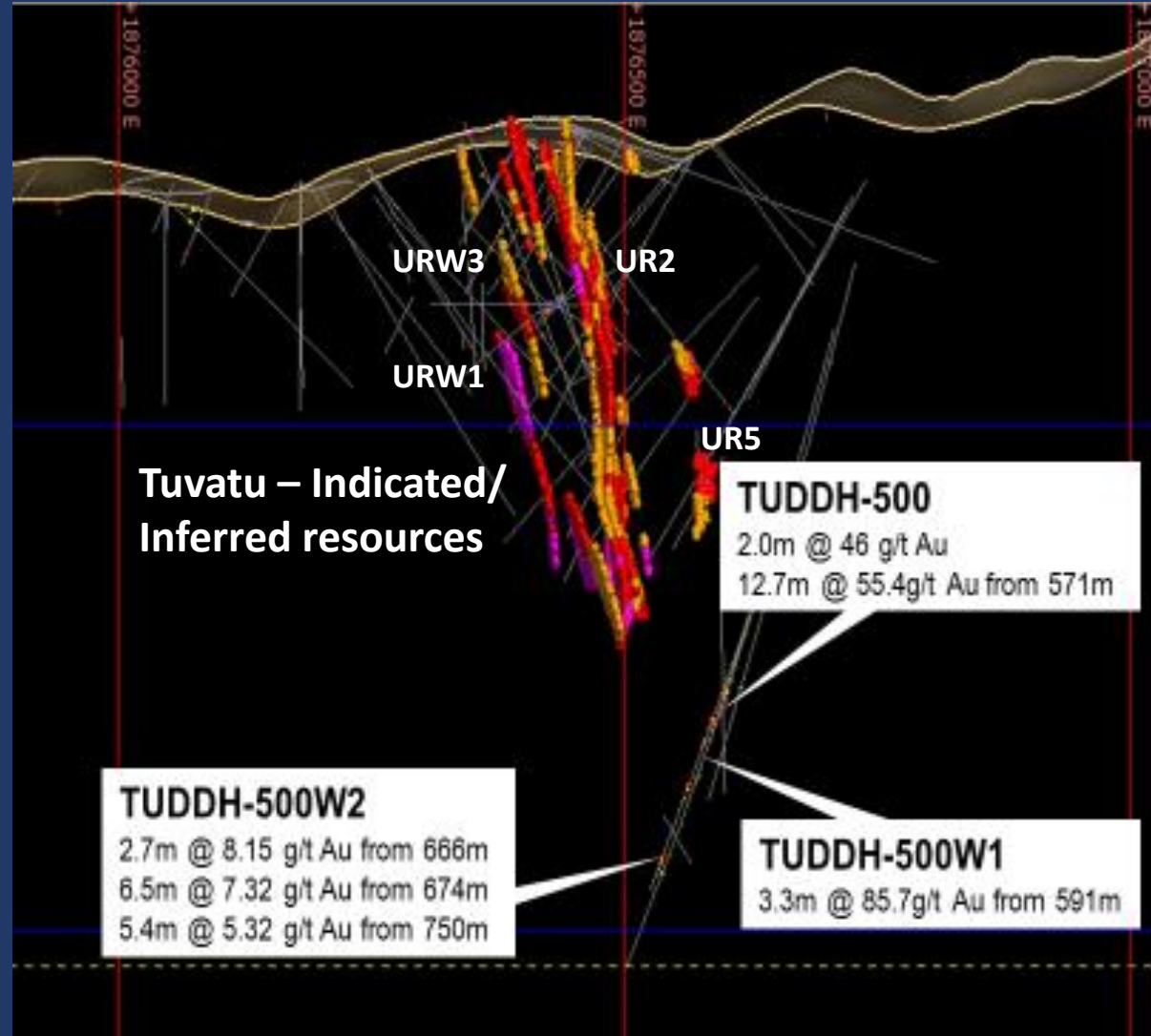
**TUDDH500:**  
2.0m @ 46 g/t Au  
12.7m @ 55.4 g/t Au

**TUDDH 500w1:**  
3.3m @ 85.7 g/t Au

**TUDDH500w2:**  
6.5m @ 7.32 g/t Au  
5.4m @ 5.32 g/t Au



# HIGH GRADE DEPTH EXTENSIONS DEEP ROOTED FEEDER STRUCTURES



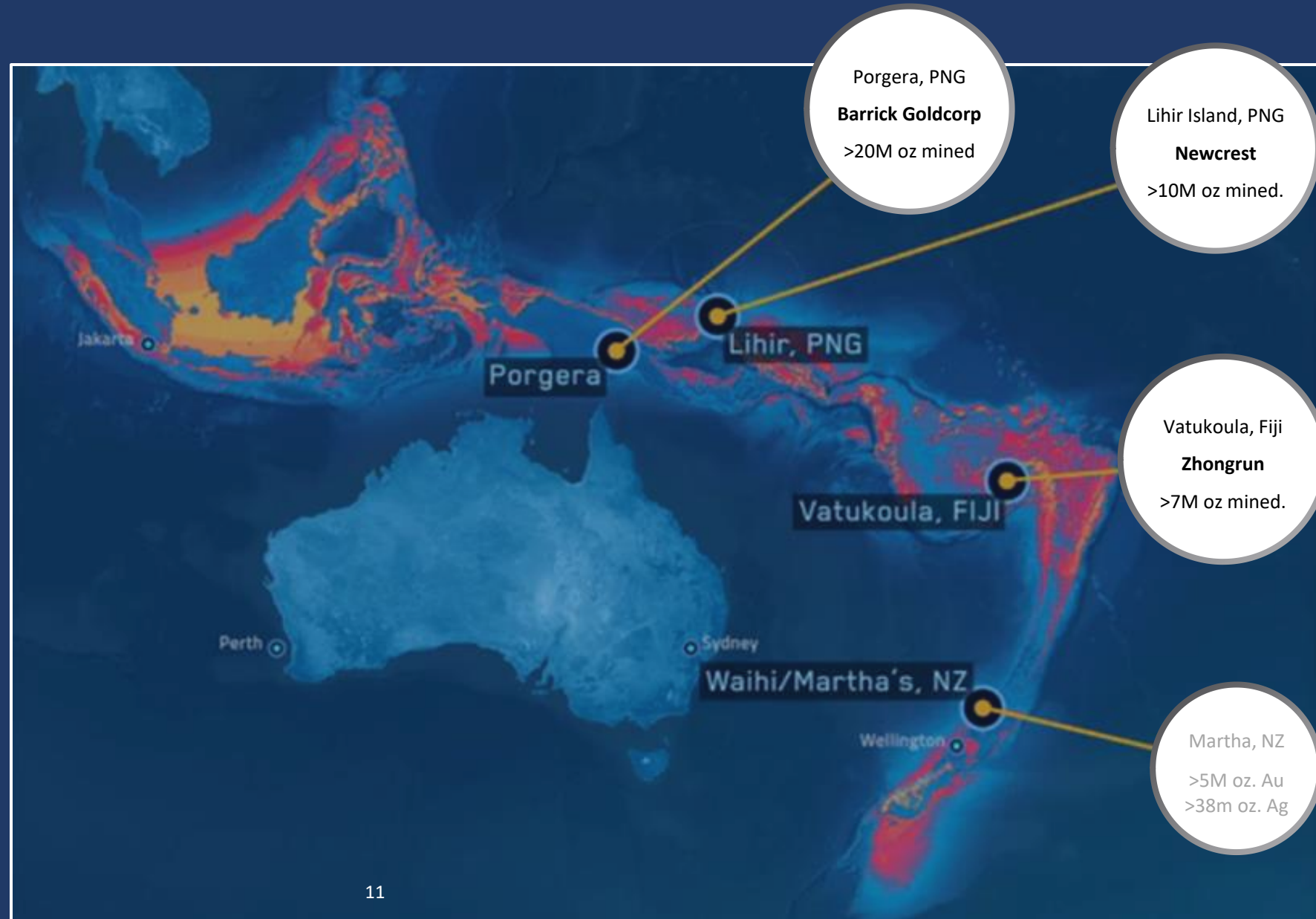
# DISTRIBUTION OF ALKALINE SYSTEMS IN THE SOUTH PACIFIC

Associated with deep crustal alkaline magmas and expansive structural networks

Valued for high grades, large endowments, deep vertical profiles

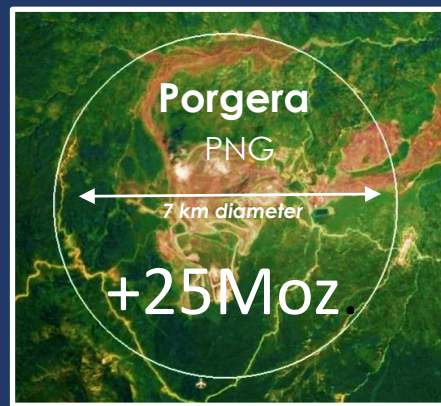
Prized by major mining companies – rarely held by juniors

Notable alkaline systems throughout world include Cripple Creek, Macassa, Porgera and Lihir, Cadia, Cowal, Springpole

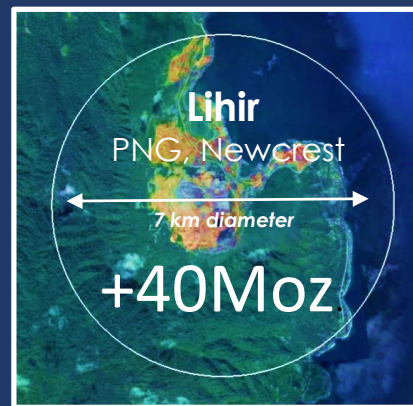


# WORLD CLASS EXAMPLES OF ALKALINE GOLD SYSTEMS IN THE REGION HIGHLIGHTS POTENTIAL YIELD

Tier 1 mines in the South Pacific region with geologically similar alkaline complexes can exceed 40M oz, highlighting the potential yield of the Tuvatu project once fully explored.



Disc 1960's >90% explored  
Prod commenced 1990



Disc 1982- >80% explored  
Prod commenced 1997



Disc 1932 - >70% explored  
Prod commenced 1934



Disc 1990's- 5% explored  
Prod to commence

*"...Tuvatu has similarities not only to Vatukoula and other large alkaline systems in the South Pacific, but also to several multi-million oz. alkaline gold systems in North America including Newmont's Cripple Creek...."*

**Quinton Hennigh, Technical Advisor to Lion One**

# ROSCOELITE: INDICATOR MINERAL DIAGNOSTIC FOR ALKALINE SYSTEMS

High-grade (~300 g/t) visible  
gold vein with Roscoelite

*(Tuvatu, Fiji)*

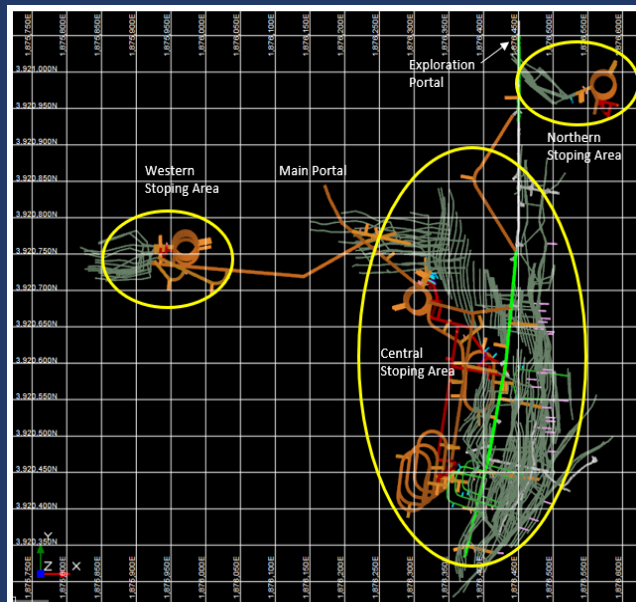
High-grade gold bearing  
vein with Roscoelite

*(Porgera, PNG)*

got roscoelite?  
we do!

# TUVATU: UPDATED ECONOMIC STUDY

High grade, low cost, fully permitted production opportunity

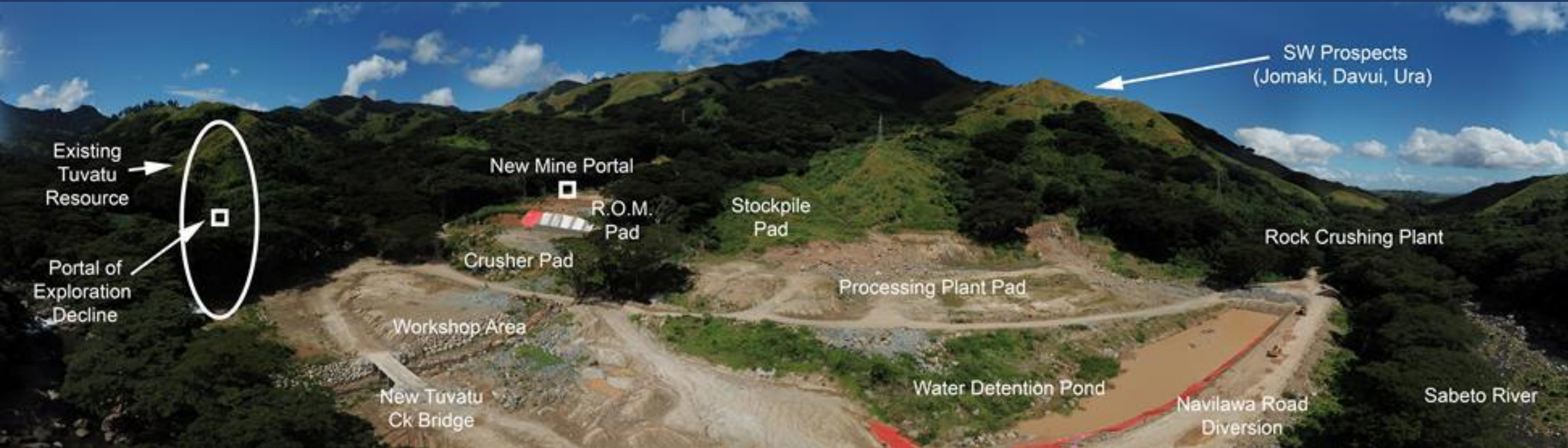


*After-tax economics at US\$2000/oz gold price  
initial five year mine life*

Cash flow:	\$309 million on US\$66.8 million CAPEX
Production:	331,369 oz Au at average of 8.6 g/t Au
Operating Cost:	US\$543/oz
AISC:	US\$626/oz
IRR	85%
NPV <sub>5%</sub>	US\$243 million

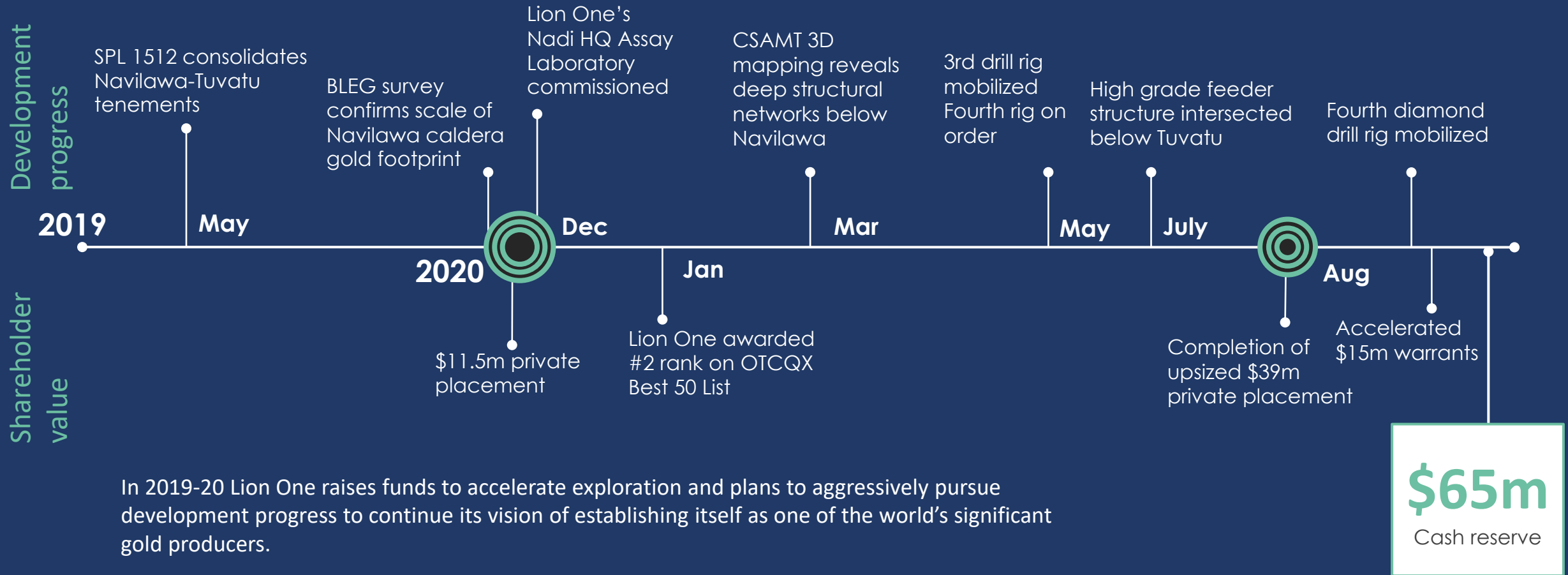
# TUVATU MINING LEASE: ONGOING DEVELOPMENT

Evaluating Configuration for Pilot Plant and Starter Mine Operation;  
Bulk Earthworks Substantially Complete



While instructive as to the size and scale of project that the Tuvatu resource might support, the 2015 Tuvatu PEA is now outdated and cannot be relied upon. The PEA is preliminary in nature, includes inferred mineral resources that are considered too speculative geologically to have the economic considerations applied to them that would enable them to be categorized as mineral reserves, and there is no certainty that the preliminary economic assessment will be realized.

# 2019-2020 KEY MILESTONES



In 2019-20 Lion One raises funds to accelerate exploration and plans to aggressively pursue development progress to continue its vision of establishing itself as one of the world's significant gold producers.



# KEY DEVELOPMENTS & ADAPTATIONS DURING COVID-19

Remain committed to accelerating exploration and development program to deliver maximum value to shareholders

Protected staff and community health through the implementation of Lion One's CovidSafe guidelines before first documented case of Covid-19 in Fiji, in line with international best practice

Continue to engage community leaders, educational institutions and government bodies to proactively empower the community and uphold common values.

Refocus and reaffirm investor support through progress updates and investor presentations via virtual conferences

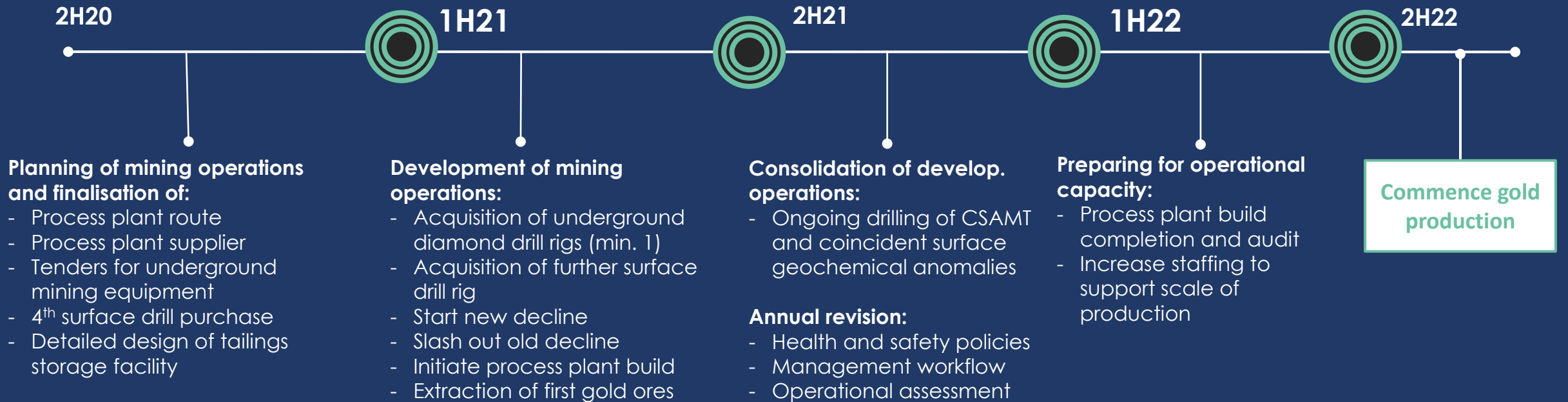
Maintained company personnel growth (30% gain) and employee health (zero employee Covid-19 cases) throughout Covid-19 with pre-emptive operational assessments and health policies.

Furthered our pledge to environmental health by banning the use of high-sulphur diesel for all activities and reducing projected diesel consumption by 50% through the planned construction of solar arrays

As we continue to fight Covid-19 across the world, Lion One remains committed to ensuring the health and safety of our workforce whilst our Tuvatu project moves towards production.

Stephen Mann, Managing Director

# REFINING OUR VISION POST-COVID: KEY OUTCOMES FROM 2021 AND BEYOND



Acceleration of exploration schedule through Tuvatu and the Navilawa Caldera through deep diamond drilling, geophysical and geochemical analyses and spatial mapping. Target of 20,000m of core drilling pa. Further activities as needed to support >10M oz gold deposit hypothesis.

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[www.liononemetals.com](http://www.liononemetals.com)**

# HIGH GRADE DEPTH EXTENSIONS DEEP ROOTED FEEDER STRUCTURES

## TUDDH 500:

Incl 120.16 g/t Au over 4.70m  
incl 582.33 g/t Au over 0.90m  
incl 1,400 g/t Au over 0.30m

TUDDH 500

**55.4g/t**

Au over 12.70m from  
571m

## TUDDH500w1:

incl 305 g/t Au over 0.30m  
and 310 g/t Au over 0.30m

TUDDH 500w1

**85.7g/t**

Au over 3.30m from  
591m

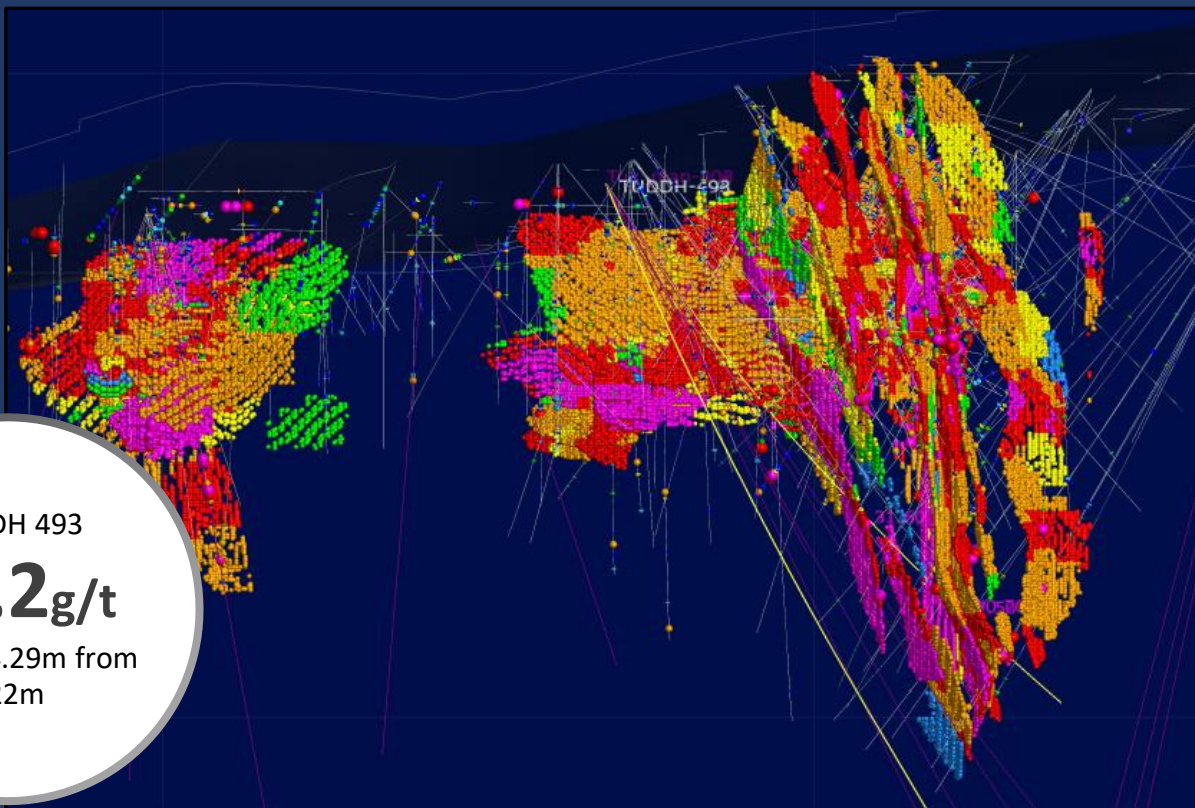
## TUDDH500w2:

A number of economic  
intersections up to 400m  
below existing resource

TUDDH 493

**33.2g/t**

Au over 4.29m from  
422m



Incl. 322 g/t Au over 0.31m

Located 50m below current resource



(See news release dated August 17, 2020)