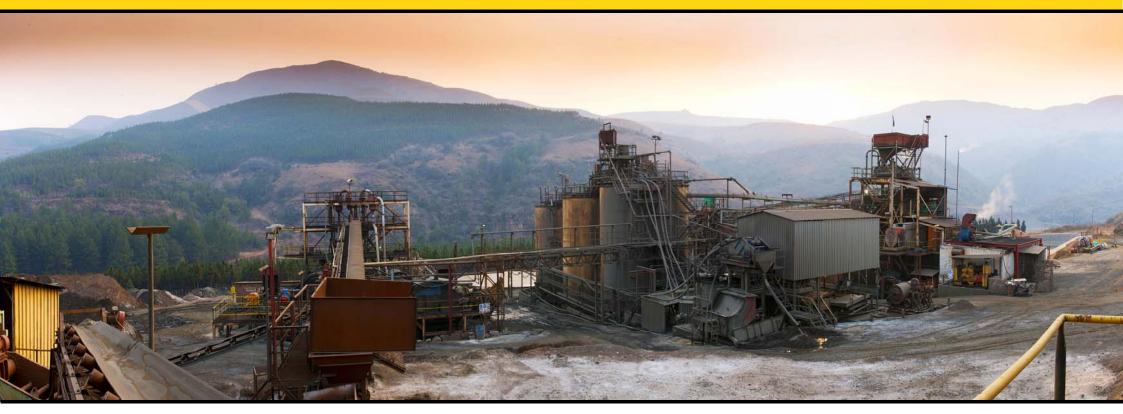
# THETA GOLD MINES LIMITED

### **Investor Presentation**

A "NEW" high grade surface gold field in South Africa



February 2020 - Cape Town
ASX: TGM, TGMO | OTCQB: TGMGF



### **Disclaimer**



#### Forward looking and cautionary statements

This announcement or presentation may refer to the intention of Theta Gold Mines regarding estimates or future events which could be considered forward looking statements. Forward looking statements are typically preceded by words such as "Forecast", "Planned", "Expected", "Intends", "Potential", "Conceptual", "Believes", "Anticipates", "Predicted", "Estimated" or similar expressions. Forward looking statements, opinions and estimates included in this announcement are based on assumptions and contingencies which are subject to change without notice, and may be influenced by such factors including but not limited to funding availability. market-related forces (commodity prices, exchange rates, stock market indices and the like) and political, environmental or economic events (including government or community issues, land owners, global or systemic events). Forward looking statements are provided as a general reflection of the intention of the Company as at the date of release of the document, however are subject to change without notice, and at any time. Future events are subject to risks and uncertainties, and as such results, performance and achievements may in fact differ from those referred to in this announcement. Mining, by its nature, and related activities including mineral exploration, are subject to a large number of variables and risks, many of which cannot be adequately addressed, or be expected to be assessed, in this document. Work contained within or referenced in this report may contain incorrect statements. errors, miscalculations, omissions and other mistakes. For this reason, any conclusions, inferences, judgments, opinions, recommendations or other interpretations either contained in this announcement, or referencing this announcement, cannot be relied upon. There can be no assurance that future results or events will be consistent with any such opinions, forecasts or estimates. The Company believes it has a reasonable basis for making the forward looking statements contained in this document, with respect to any production targets, resource statements or financial estimates, however further work to define Mineral Resources or Reserves, technical studies including feasibilities, and related investigations are required prior to commencement of mining. No liability is accepted for any loss, cost or damage suffered or incurred by the reliance on the sufficiency or completeness of the information, opinions or beliefs contained in this announcement.

The Feasibility Study referred to in this announcement is based on technical and economic assessments to support the estimation of Ore Reserves. There is no assurance that the intended development referred to will proceed as described, and will rely on access to future funding to implement. Theta Gold Mines believes it has reasonable grounds the results of the Feasibility Study. At this stage there is no guarantee that funding will be available, and investors are to be aware of any potential dilution of existing issued capital. The production targets and forward looking statements referred to are based on information available to the Company at the time of release, and should not be solely relied upon by investors when making investment decisions. Theta Gold cautions that mining and exploration are high risk, and subject to change based on new information or interpretation, commodity prices or foreign exchange rates. Actual results may differ materially from the results or production targets contained in this release. Further evaluation is required prior to a decision to conduct mining being made. The estimated Mineral Resources quoted in this release have been prepared by Competent Persons as required under the JORC Code (2012). Material assumptions and other important information are contained in this release.

#### NOTE BUSINESS ARRANGEMENT

Theta Gold Mines holds 100% issued capital of its South African subsidiary Stonewall Mining (Pty) Ltd ("Stonewall"). Stonewall holds a 74% shareholding in both Transvaal Gold Mining Estates Limited ("TGME") and Sabie Mines (Pty) Ltd ("Sabie Mines"). TGME holds the various exploration and mining permits. The balance of shareholding is held by Black Economic Empowerment ("BEE") entities. The South African Mining Charter requires a minimum of 26% meaningful economic participation by the historically disadvantaged South Africans ("HDSAs"). The BEE shareholding in TGME and Sabie Mines is comprised of a combination of local community trusts, an employee trust and a strategic entrepreneurial partner.

#### **Disclaimer and Competent Persons Statement**

#### DISCLAIMER

This announcement or presentation has been prepared by and issued by Theta Gold Mines Limited (ASX:TGM, TGMO | OTCQB: TGMGF) to assist in informing interested parties about the Company and should not be considered as an offer or invitation to subscribe for or purchase any securities in the Company or as an inducement to make an offer or invitation with respect to those securities. No agreement to subscribe for securities in the Company will be entered into on the basis of this announcement.

This announcement or presentation may contain forward looking statements. Whilst Theta Gold Mines has no reason to believe that any such statements and projections are either false, misleading or incorrect, it does not warrant or guarantee such statements. Nothing contained in this announcement constitutes investment, legal, tax or other advice. This overview of Theta Gold Mines does not purport to be all inclusive or to contain all information which its recipients may require in order to make an informed assessment of the Company's prospects. Before making an investment decision, you should consult your professional adviser, and perform your own analysis prior to making any investment decision. To the maximum extent permitted by law, the Company makes no representation and gives no assurance, guarantee or warranty, express or implied, as to, and take no responsibility and assume no liability for, the authenticity, validity, accuracy, suitability or completeness of, or any errors in or omissions, from any information, statement or opinion contained in this announcement. This announcement contains information, ideas and analysis which are proprietary to Theta Gold.

#### COMPETENT PERSONS STATEMENT

The information in this report relating to mineral resources and ore reserves is based on, and fairly reflects, the information and supporting documentation compiled by Mr Uwe Engelmann (BSc (Zoo. & Bot.), BSc Hons (Geol.), Pr.Sci.Nat. No. 400058/08, MGSSA), a director of Minxcon (Pty) Ltd and a member of the South African Council for Natural Scientific Professions and Mr Daan Van Heerden (B Eng (Min.), MCom (Bus. Admin.), MMC, Pr.Eng. No. 20050318, FSAIMM, AMMSA), a director of Minxcon (Pty) Ltd and a member of the Engineering Council of South Africa respectively.

The original reports titled "Theta Gold Increases Mineral Resource to over 6Moz" and "Positive Feasibility Study for Theta Project" were dated 16 May 2019 and were released to the Australian Securities Exchange (ASX) on that date. The Company confirms that:

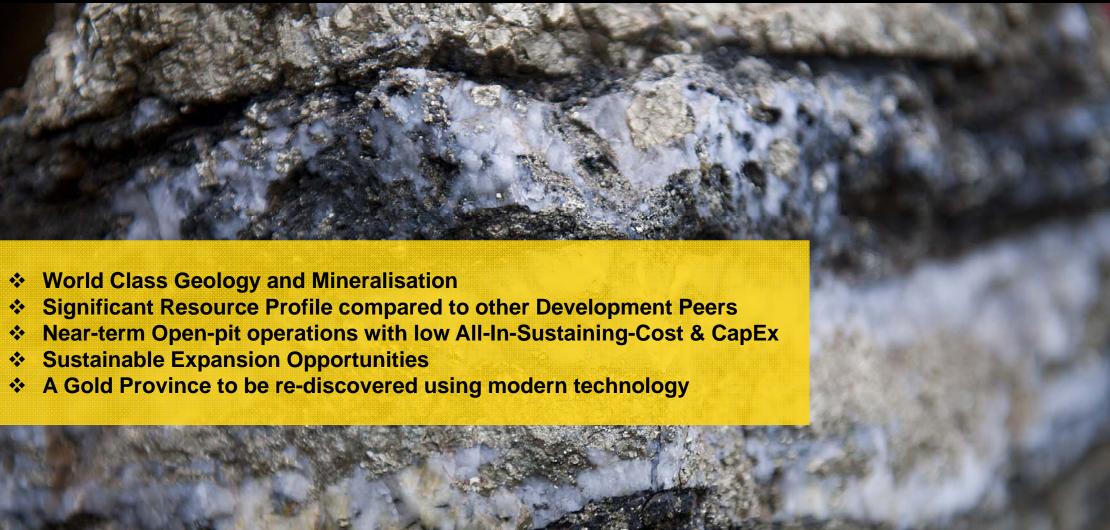
- it is not aware of any new information or data that materially affects the information included in the ASX announcements; and
- all material assumptions and technical parameters underpinning the estimates in the ASX announcements continue to apply and have not materially changed.

#### **AUTHORISATION**

This announcement was authorised for release by the Board of Directors.

## **Key Investment Highlights**



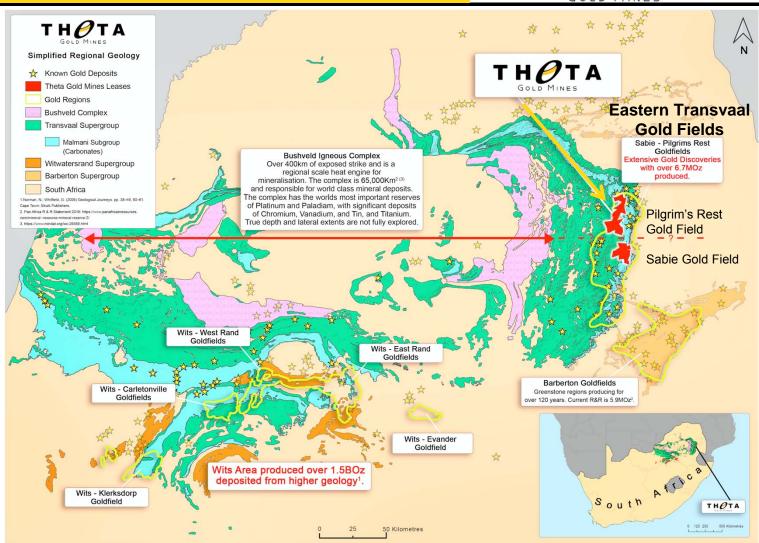


### **The System**



# South Africa – Home of Mineral Wealth

- Over 2 Billion oz of gold produced from Witwatersrand, approximately 40-50% of World's gold production combined.
- Bushveld Complex is the largest igneous intrusion on earth:
  - ✓ World's most significant producer of Platinum and Palladium.
  - ✓ Bushveld Complex hosts approximately 80% of World's PGM-bearing ore (Source: Minerals Council South Africa)
- The mining industry exported R312 billion (~USD23 billion) worth of commodities (Diamonds, coal, iron ore, chrome base metals). (Source: Minerals Council South Africa 2018)

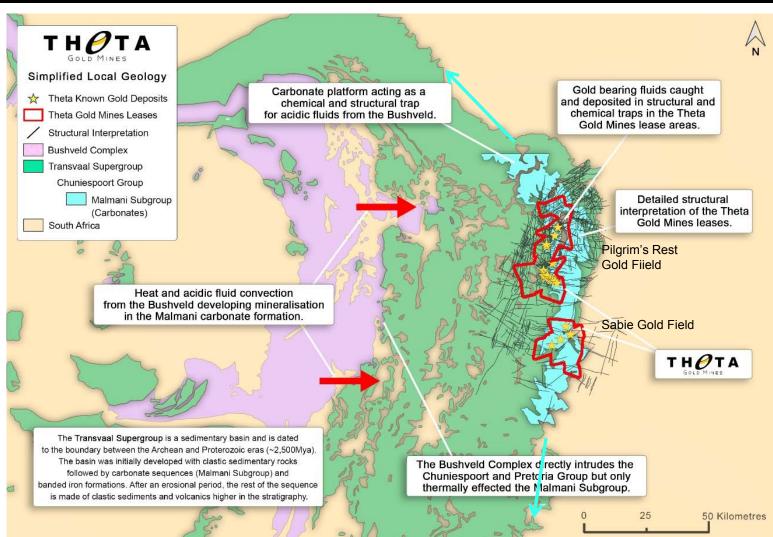


### **Eastern Transvaal Gold Fields**



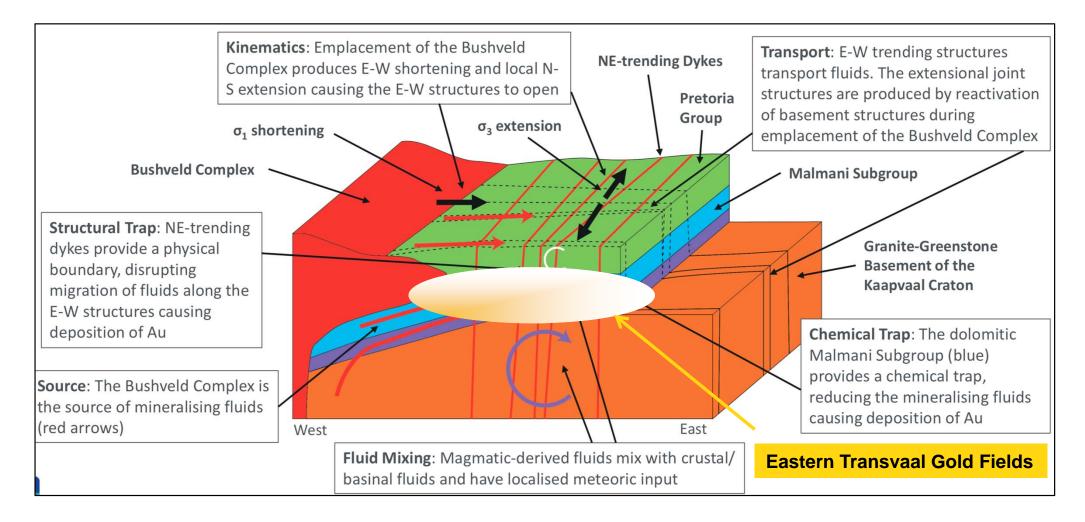
#### **Gold Mineralisation Model-Theory**

- Bushveld Complex (largest igneous intrusion on earth) is interpreted as the key driver and source of the gold mineralisation at Eastern Transvaal Gold Fields.
- Emplacement of the Bushveld Complex also induced E-W compression in the Theta Gold area.
- Epigenetic gold mineralisation occurs within sedimentary host rocks of the Transvaal Supergroup. (Protozoic in Age). These E-W joints formed a structural pathway for transport of gold mineralising fluids.
- The dolomitic Malmani Subgroup formed a reducing chemical trap that caused deposition of Au (ie Theta Reef), while the NE-trending structures and dykes formed a structural or physical trap associated with formation of Au deposits (ie Rietfontein ore body)



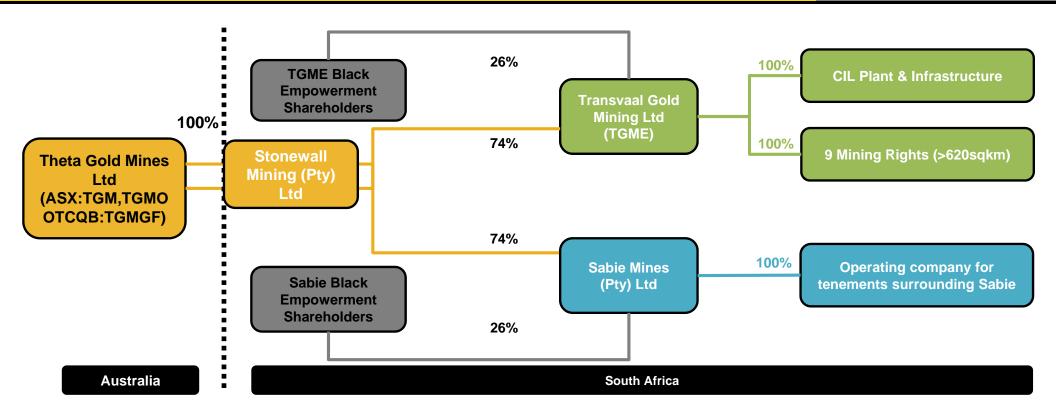
### **Gold Mineralisation Model**





## **Corporate Structure**





The Black Economic Empowerment ("BEE") shareholding in general comprise of:

- Employees Trust (Employee/labour Incentives),
- Landholders.
- Local entrepreneurs

The BEE shareholding is <u>not a free-carry interest</u>, it is a contributing equity interest (BEE structure can be read from page 17 of the Company's Annual Report 2018 released on 1st October 2018).

### Nine (9) Mining Rights

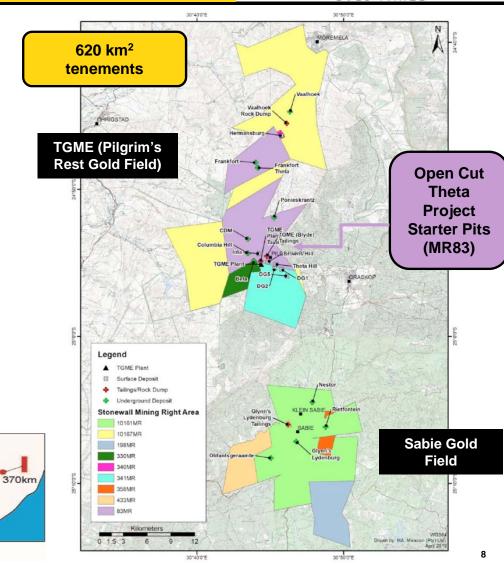


# Group JORC Resources of 6Moz Au (44.8Mt @ 4.18g/t Au):

- ❖ 1.3 Moz open cut resources (13.08Mt @ 3.12g/t Au).
- ❖ 4.5 Moz underground resources (26.3Mt @ 5.4g/t Au).
- ❖ Initial Ore Reserves for startup Theta Open-cut Project (within MR83 only): 205Koz (2.3Mt @ 2.76g/t Au) (Only 16% of total OC Resources).
- ❖ Nine (9) Mining Rights (some are undergoing the granting process from Prospecting Rights conversion underway since 2019).
- ❖ The Gold Field has produced >6.7Moz of gold historically since late 1870s, No.1 gold discovery in South Africa before the Witwatersrand

Johannesburg .

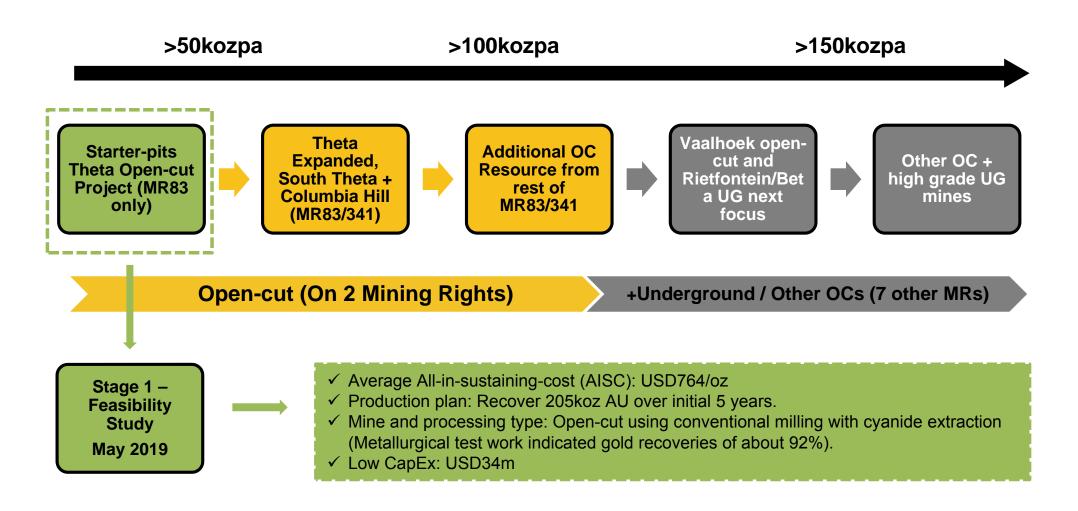
SOUTH AFRICA



Investor Presentation - February 2020 ASX: TGM, TGMO | OTCQB: TGMGF

## **Sustainable Phased Development**





### **Corporate Overview**



- Theta Gold Mines controls its own gold field The Eastern

  ❖ Transvaal Gold Fields surrounding townships of Pilgrim's Rest & Sabie 370 km from Johannesburg SA.
- Board/Management built 16 mining operations combined.
- Share price up 110% since release of Starter-pits Theta Open-cut Project Feasibility Study in May 2019



#### **Company Snapshot**

~437m

Ordinary Shares

Dual-listed on ASX: TGM, | OTCQB: TGMGF

31.4m

Listed options (ASX: TGMO), expiration Oct 2020, A\$ 0.30 exercise price.

26.2m Unlisted options and management performance rights.

~A\$91.8m Market capitalisation (30<sup>th</sup> January 2020, undiluted).

> ~A\$2.5m Cash Position (31st December 2019)

> > 74% Top 10 shareholding.

10% Director & management

### **Highly Competent Board of Directors**



#### Bill Guy - Chairman

- Ex-Jupiter Mines Ltd (ASX: JMS) Chief Exploration Manager,
- >25yrs exploration & resource development experience.
- >17 years listed mining executive.

#### **Rob Thomson - Managing Director**

- 35+ years Mining Engineer,
- Development/Operations as CEO/MD/Project Manager in 8 significant gold and base metal projects including CEO at Climax's Didipio, GM at Oxiana's Sepon and Kingsgate's Chatree gold/copper mines.

#### Finn Behnken - Non-Executive Director

- Former CEO of Tshipi é Ntle Manganese Mining (Pty) Limited (currently 49% owned by Jupiter Mines Ltd),
- A Mining Engineer and Investment Banker by profession,
- Previously worked for Nedbank and currently with Auramet responsible for all African Continent gold purchases

#### **Richie Yang - Non-Executive Director**

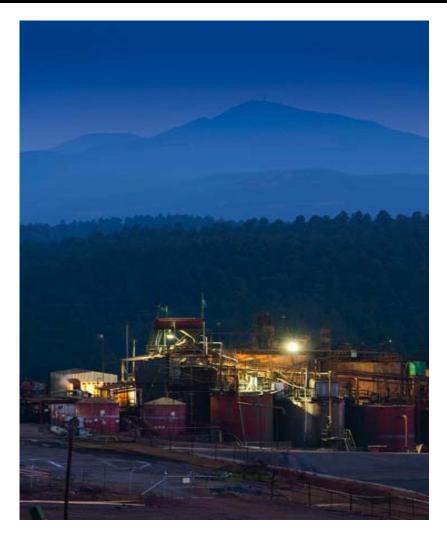
- Former ED of Bligh Resources Ltd (ASX: BGH) recently taken-over by Saracens (ASX: SAR).
- >15 years experience in mining financing & executive positions and currently MD of Vs Capital (Sydney based family office)

#### **Brett Tang - Non-Executive Director**

- Former fund manager at Tasman Funds with > 15 years of gold/base metal experience.
- A significant investor in TGM indirectly holds >7% equity.

#### **Simon Liu - Non-Executive Director**

 Fund manager previously a co-founder of Hanhong PE (Beijing based) with significant exposure to gold and oil & gas projects globally.



# **Project Company Board of Directors**



#### **Transvaal Gold Mining Estates Ltd (TGME)**



Bill Guy
Chairman
Chairman - Theta Board
(Ex-Jupiter Mines)



Rob Thomson

Managing Director

Project Delivery

Director - Theta Board

(Ex-Climax Resources)



George Jenkins
CEO
Permitting/Operations /Plant
Extraction Metallurgist
(Ex-Vale operations)



Director
Government & Community
Affairs
Lawyer & Government
Consultant
(Ex-Glencore RSA)



Hanlie Grobler
Director
Accounting/Finance
Accountant
(Ex-Kraft Foods RSA)



Natasha Thomas-Kasangana
Director
Legal/Commercial
Lawyer
(Ex-Tshipi - Jupiter Mines)

# **Mine Development + Exploration**





# **Starter Pits Production Summary – @US\$1257 gold price**



| Production summary  | Production summary over 57 months  |  |  |  |  |  |  |  |  |  |
|---|--|--|--|--|--|--|--|--|--|--|
| Ore mined and head grade  | 2.5Mt @ 2.71g/t Au   |  |  |  |  |  |  |  |  |  |
| Total material moved (effective strip ratio)                                    | 36.2Mt (13.4x)   |  |  |  |  |  |  |  |  |  |
| Total ounces recovered  | 200,905 oz   |  |  |  |  |  |  |  |  |  |
| LOM gold recovery assumption  | 91.6%  |  |  |  |  |  |  |  |  |  |
| Average annual production   | Processing 500Ktpa.<br>Delivering 40,176 oz pa over<br>57 months (initial 2 years at<br>45,525 ozpa) |  |  |  |  |  |  |  |  |  |
| Construction timeline   | 9 months   |  |  |  |  |  |  |  |  |  |
| Mining costs (US\$/t)   | US\$22.98/t  |  |  |  |  |  |  |  |  |  |
| Processing costs  | US\$22.53/t  |  |  |  |  |  |  |  |  |  |
| General and administrative  | US\$8.92/t   |  |  |  |  |  |  |  |  |  |
| Total costs – AISC  | US\$764/oz   |  |  |  |  |  |  |  |  |  |
| Post-tax cumulative undiscounted EBITDA (on US\$1257 LoM gold price assumption) | US\$100m   |  |  |  |  |  |  |  |  |  |

### **Favorable Geology for Mining**

Flat laying horizontal reef systems that allows for low cost terrace mining. High grade oxide
ores which are easier
to mine, mill and
process due to the
breakdown of
sulphide mineral with
high recoveries.

Theta sediments consist mainly of shales, siltstones, dolomites that are generally softer and easier to mine than traditional igneous rocks.

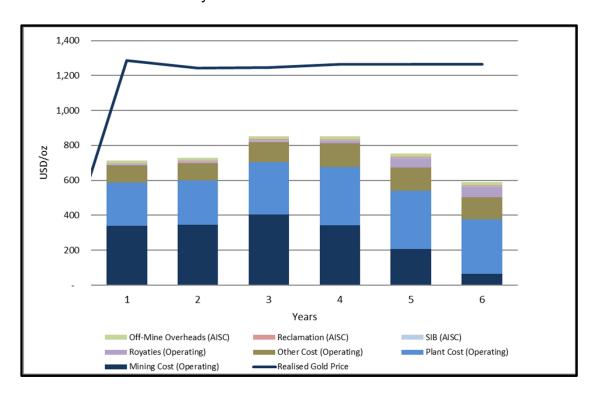
Extremely fractured sediments, allowing for higher production rates.

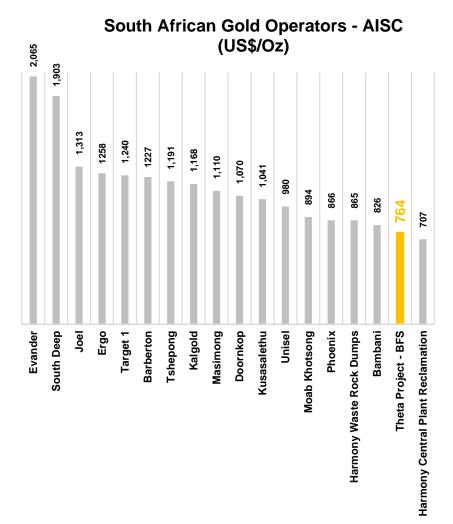
### **Low AISC**



#### Theta Starter pits – AISC (Feasibility study May 2019):

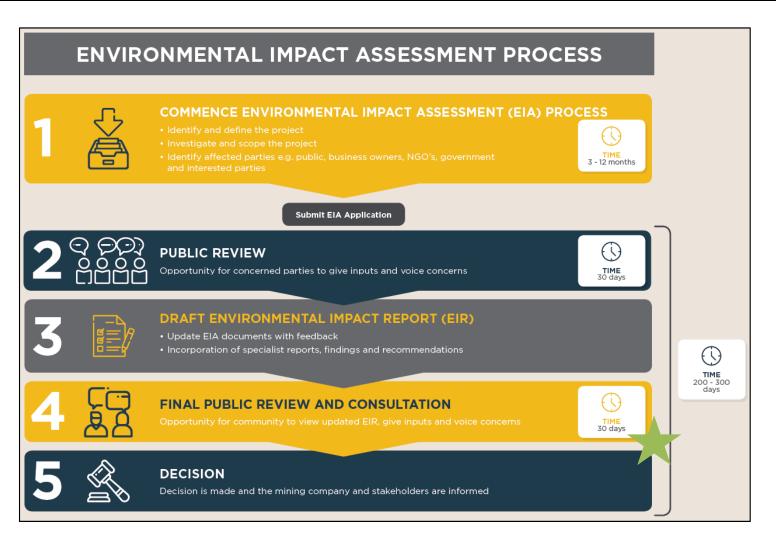
- ✓ LOM AISC of US\$764/oz (lower in first two years).
- ✓ Minimal drill/blast allowed.
- ✓ Simple crush/grind and standard CIL processing with high recovery (>91%).
- ✓ Operating cashflow to potential self-fund for multiple pit openings reflected by an increase in AISC in years 3 and 4.





### **MR83 Environmental Impact Assessment Progress**





- Environmental Impact Study (EIS) for Mining Right 83 (The amendment for MR83 from underground to open pit) "Starter Theta Open-pit Project" will be submitted in early February for approval by the Department of Mines, Resources and Energy (DMRE). Decision expected by DMRE mid Q2 2020.
- The permitting process is ongoing until Department of Mines Resources Energy (DMRE) make final decision.
- In South Africa engagement is required with all stake holders and DMRE will make independent assessment based on EIS and stake holders views.

### **Social Responsibilities**







- Theta Gold's 74% subsidiary TGME has operated and been part of the Pilgrim's Rest community for over 130 years and from the very early 1900 century acted as custodian of land restricting hunting, logging, and illegal mining activities.
- Theta's corporate culture is to become a Responsible Miner, with a key focus on Social Responsibilities.
- The Company for a long time has provided support for local schools in training sponsorship equipment and supplies; community involvements including environment clean up support, feeding programs as well as sporting activities and support.

### TGME contributes to Pilgrim's and its community for the festive season Frieda Paton In the spirit of Christmas.

Transvaal Gold Mining Estates (TGME) embarked on a drive this past month to support Pilgrim's Rest and its community through various sponsorships and gifts.
For its Christmas charity drive. TGME gave gifts of a bag of maize meal and tins of baked beans to 100 of the poorest and elderly in the community of November 29. To help keep the children off

the streets during the holidays, 10 soccer balls, 10 netball balls and six tennis racquets and tennis balls were handed over December 6.

This sports equipment will be in charge of a community membe so that the children can fetch a ball when they want to play and return it once they're done.

TGME is also backing the drive to revive Pilgrim's Rest as a

They supported the Mpumalanga Tourism and Parks Agency's launch of the Pilgrim's

On December 11 the mine staff together with 17 members They provided T-shirts for the of the local community employed

for the day. The clean-up covered parts of the town and about 800m of the entrance road to Schoonplaas and included collecting litter, brush cutting and removal of foreign invader plants.

"This will help to ensure that the town is in tip-top condition for the coming December holida

TGME is committed to supporting the local community Hanlie Grobler, CFO of the company explained.

"We wish Pilgrim's Rest and its community a great festive



Jenkins, CEO of TGME: Fridah Nkadimeng, Executive Mayor of Thaba Chweu; Terence Mogale, Director of TGME; Bill Guy



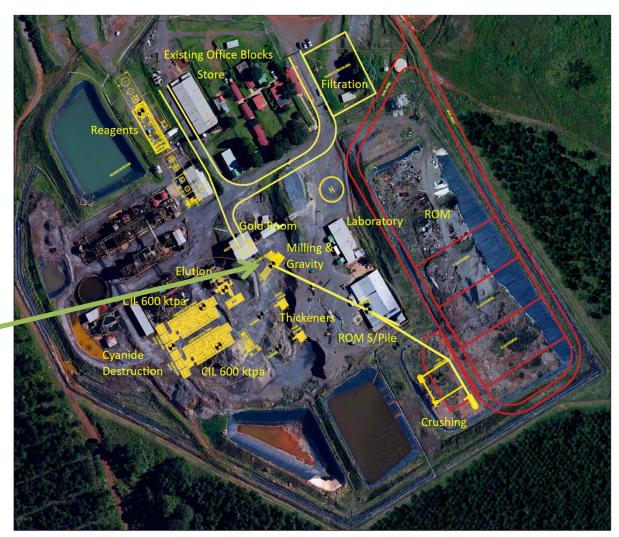
## **Upscale Plant & Production Plans**



- Newly acquired 2.5MW Ball Mill capable of 1.2mtpa.
- ❖ Plant Optimisation Study completed to increase throughput from the current FS 500ktpa to 600 ktpa.
- Design of plant caters for ready expansion (towards 1.2mtpa) as project grows
- ❖ Revised capital costs within 1% of initial FS (includes mill purchase and relocation costs)

| Description             | Feasibility<br>Study | Optimisation<br>Study | Variance |
|-------------------------|----------------------|-----------------------|----------|
| Throughput (ktpa)       | 500                  | 600                   | + 20 %   |
| Capital Cost (ZAR M)    | 353                  | 362                   | + 2.5%   |
| Capital Cost (USD M)    | 24.84                | 24.98                 | + 0.6 %  |
| Exchange Rate (ZAR/USD) | 14.2                 | 14.5                  | - 2.1 %  |

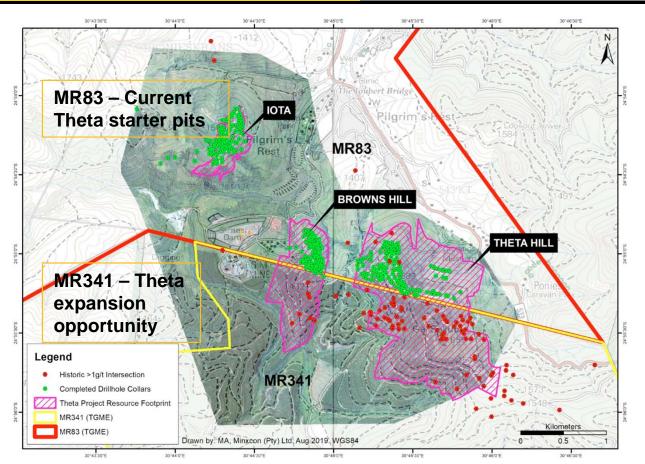




# **Near Term Expansion Opportunity - Reserves**



- ✓ Low Indicated Resources discovery cost of ~US\$12/oz.
- ✓ Only 16% of Theta's open cut resource are included in its feasibility mine plan to date i.e. 57% of Theta's current open cut indicated resource.
- ✓ Open cut resources have increased 30% since 2018 to 1.3moz – further potential for increase have been defined.
- ✓ Additional Theta Hill & Columbia Hill (MR83/341 inclusive) reserve conversion opportunities:
  - Currently 879.6 Koz @ 2.7g/t Indicated/Inferred Resources.
  - Only 35% of resources in MR83 included in reserves.
  - Columbia Hill lota ore body open to the west, not yet at resource status.
  - Numerous other open cut targets to be drilled out.
- √ Vaalhoek (MR10167) 335koz OC Resource- drilling to delineate maiden Indicated Resource & Reserve status.
- ✓ Medium term underground operations at:
  - Rietfontein Mine,
  - Beta Mine.



## **Exploration Boost**



#### The exploration strategy will be carried out on three fronts;

- 1. exploration to be regionally dominant player; and
- 2. resource development work to increase mine life; and
- 3. development of the starter Theta open cut Project to become a gold producer.

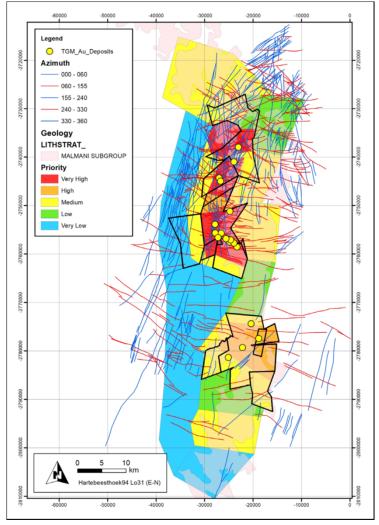
#### Regional magnetic and ASTER satellite data will be reprocessed.

- Magnetic geophysical data has the potential to identify structural fluid pathways and structural traps for exploration targeting.
- ❖ ASTER imagery can identify minerals related to alteration; this will assist in targeting structural pathways for fluid transport.

# The company has made strong progress in its understanding of geodynamic controls of the gold mineralization system.

- ❖ The new understanding will promote the next generation of local and regional gold exploration and target generation.
- Mineral Systems Model has been used within the tenement package to prioritised and to refine exploration efforts

Prioritising areas for gold mineralisation based on the Mineral System model



### **Growth Catalysts**



**Re-rating milestones: Explorer** → **Developer** → **Producer** 

Mining Reserve growth: 1.3 Mt Inferred Open Pit Resource ready for conversion.

Exploration upside: 620 km<sup>2</sup> of virgin goldfield ready for its first geophysical survey.

Very low gold discovery costs: Very cheap gold in a bull market (~US\$ 12/oz Indicated Resources discovery cost)

Less funding and operational risk: Low Capex project with high profit margins

One of the largest resource bases for an Junior Gold Developer: > 6.0 Moz Au



# **Appendices**





# **Favourable Mining Jurisdiction**



- ✓ South Africa has produced more gold than any other country with over two billion ounces produced from its goldfields (~50% of world's gold production).
- ✓ Abundant supply of skills and services at reasonable costs with minimal need for foreign expat workforce.
- ✓ Foreign investment was over US\$7.1B in 2018 and is climbing.
- ✓ Current president; Cyril Ramaphosa and the Minister of Mines; Gwede Mantashe are active promoters of mining ventures across the nation.
  - Mining plays a big role at the provincial level, offering employment to the provincial economies.
  - Recently estimated to employ over 450,000 South Africans and contribute over R350 billion to the GDP (~7.3% of total GDP).

# Fraser Institute Ratings 2018 (Investment Attractiveness Index)

| Colorado (US)        | 35/83 |
|----------------------|-------|
| NSW (Australia)      | 42/83 |
| South Africa         | 43/83 |
| Victoria (Australia) | 54/83 |
| Ecuador              | 56/83 |
| Nova Scotia (Canada) | 57/83 |
| California (US)      | 61/83 |
| Ghana                | 68/83 |

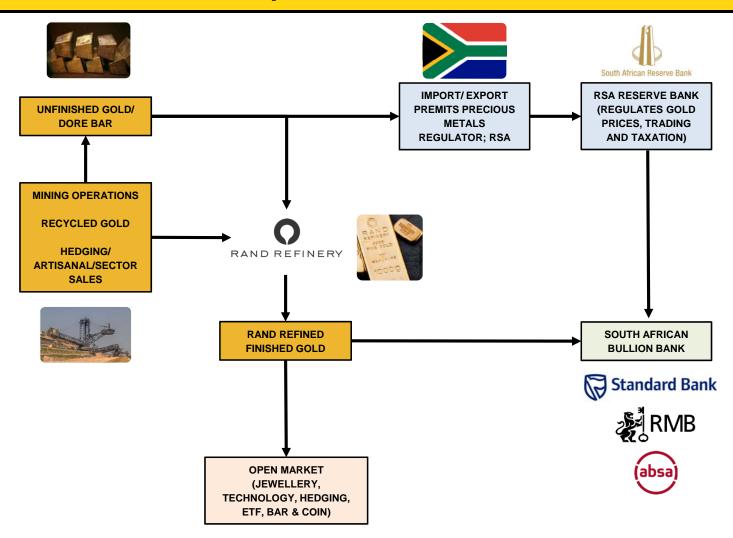


President Ramaphosa delivers the 2019 State of the Nation address (source: Bloomberg).

|  | Unit                         | 2008                  | 2009                 | 2010                 | 2011                | 2012          | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|--|------------------------------|-----------------------|----------------------|----------------------|---------------------|---------------|-------|-------|-------|-------|-------|-------|
| Direct contribution to fixed Investment  | USD<br>Million               | 7,160                 | 7,654                | 8,680                | 9,433               | 8,783         | 8,353 | 7,895 | 5,003 | 3,662 | 5,797 | 6,884 |
| Mining's contribution to private sector fixed investment   | %                            | 16                    | 19                   | 19                   | 18                  | 18            | 17    | 17    | 12    | 10    | 13    | 15    |
| Mining's contribution to Total investment<br>Sources: Minerals Council South Africa, South African Rev | <b>%</b><br>venue Service, D | 11<br>Department of N | 12<br>Ineral Resourc | 12<br>es and Energy, | 12<br>US Geological | 12<br>Survey. | 11    | 11    | 8     | 6     | 9     | 10    |

### **Mature And Developed Gold Market**







Largest refinery in Africa.

Registered under the London Bullion Market Association who sets the refining standards.

Used by many South African gold operations including Harmony, Sibanye-Stillwater, AngloGold Ashanti, Gold Fields and DRD Gold.

Rand Refinery also markets and sells the finished gold, and has custody of gold for South African bullion banks.

Provides a variety of ancillary services, including:

- 24-hour turnaround of assaying, payment in USD and/or Rand,
- state-of-the-art vaulting, and
- international logistics services.

### **Resources Tables**



Combined Mineral Resources as at 16 May 2019

| Mineral Resource Classification | Type of Operation | Tonnage    | Gold<br>Grade | Gold Content |         |  |
|---------------------------------|-------------------|------------|---------------|--------------|---------|--|
| Ciassification                  |                   | Mt         | g/t           | Kg           | koz     |  |
| Measured                        | Underground       | 0.091      | 5.37          | 489          | 15.7    |  |
| Total Measured                  |                   | 0.091      | 5.37          | 489          | 15.7    |  |
|                                 | Underground       | 4.774      | 6.21          | 29,661       | 953.7   |  |
| Indicated                       | Open Pit          | 7.161      | 2.11          | 15,091       | 485.2   |  |
|                                 | Tailings          | 5.244 0.83 |               | 4,373        | 140.6   |  |
| Total Indicated                 | Total Indicated   |            | 2.86          | 49,126       | 1,579.4 |  |
|                                 | Underground       | 21.452     | 5.22          | 111,880      | 3,597.0 |  |
| Inferred                        | Open pit          | 5.922      | 4.35          | 25,730       | 827.3   |  |
| Interred                        | Tailings          | 0.023      | 0.57          | 13           | 0.40    |  |
|                                 | Rock Dump         | 0.121      | 1.64          | 199          | 6.40    |  |
| Total Inferred                  |                   | 27.518     | 5.01          | 137,823      | 4,431.0 |  |
| Grand Total                     |                   | 44.788     | 4.18          | 187,438      | 6,026.2 |  |

#### Notes:

- Columns may not add up due to rounding.
- Gold price used for the cut-off calculations is USD1,500/oz.
- UG Mineral Resources are reported at a cut-off of 160 cm.g/t, open pit at 0.5 g/t and 0.35 g/t, tailings and rock dumps at 0.35 g/t.
- Fault losses of 5% for Measured and Indicated, 10% for Inferred Mineral Resources.
- Mineral Resources are stated as inclusive of Ore Reserves.
- Mineral Resources are reported as total Mineral Resources and are not attributed.

### **Resources Tables**



#### Total Theta Project - Mineral Resources, 16 May 2019

| Mineral Resource | Open Pit Mine       | Reef        | Reef<br>Grade | Reef Width | Content | Reef<br>Tonnes | Au Co  | ntent |
|------------------|---------------------|-------------|---------------|------------|---------|----------------|--------|-------|
| Classification   | lassification       |             | g/t           | cm         | cmgt    | Mt             | Kg     | koz   |
|                  | Theta & Browns Hill | Shale       | 1.02          | 200        | 204     | 0.439          | 402    | 12.9  |
|                  | Theta & Browns Hill | Bevetts     | 1.10          | 221        | 244     | 0.891          | 886    | 28.5  |
|                  | Theta & Browns Hill | Upper Theta | 2.41          | 100        | 241     | 0.724          | 1,568  | 50.4  |
|                  | Theta & Browns Hill | Lower Theta | 3.70          | 100        | 370     | 0.888          | 2,956  | 95.0  |
| Indicated        | Theta & Browns Hill | Beta        | 2.49          | 100        | 249     | 0.383          | 859    | 27.6  |
|                  | Columbia Hill       | Bevetts     | 2.89          | 114        | 330     | 0.105          | 303    | 9.7   |
|                  | Columbia Hill       | Upper Rho   | 2.43          | 393        | 956     | 0.808          | 1,965  | 63.2  |
|                  | Columbia Hill       | Lower Rho   | 2.51          | 550        | 1381    | 0.815          | 2,047  | 65.8  |
|                  | Columbia Hill       | Upper Theta | 1.08          | 114        | 123     | 0.158          | 171    | 5.5   |
| Total Indicated  |                     |             | 2.14          | 246        | 526     | 5.211          | 11,157 | 358.7 |

| Mineral Resource Classification | Open Pit Mine       | Reef        | Reef<br>Grade | Reef Width | Content | Reef<br>Tonnes | Au Co  | ntent |
|---------------------------------|---------------------|-------------|---------------|------------|---------|----------------|--------|-------|
| Classification                  |                     |             | g/t           | cm         | cmgt    | Mt             | Kg     | koz   |
|                                 | Theta & Browns Hill | Shale       | 1.11          | 216        | 240     | 0.703          | 666    | 21.4  |
|                                 | Theta & Browns Hill | Bevetts     | 1.07          | 213        | 227     | 0.648          | 589    | 19.0  |
| Inferred                        | Theta & Browns Hill | Upper Theta | 1.86          | 100        | 186     | 1.071          | 1,692  | 54.4  |
| Interred                        | Theta & Browns Hill | Lower Theta | 8.11          | 100        | 811     | 1.643          | 11,329 | 364.3 |
|                                 | Theta & Browns Hill | Beta        | 2.23          | 100        | 223     | 0.748          | 1,417  | 45.6  |
|                                 | Columbia Hill       | Upper Rho   | 5.13          | 106        | 544     | 0.099          | 507    | 16.3  |
| Total Inferred                  |                     |             | 3.30          | 132        | 434     | 4.912          | 16,202 | 520.9 |

| Mineral Resource<br>Classification | Open Pit Mine       | Reef | Reef<br>Grade | Reef Width | Content | Reef<br>Tonnes<br>Mt | Au Co  |       |
|------------------------------------|---------------------|------|---------------|------------|---------|----------------------|--------|-------|
|                                    |                     |      | g/t           | cm         | cmgt    | IVIT                 | Kg     | koz   |
| Indicated                          | Total Theta Project | All  | 2.14          | 246        | 526     | 5.2                  | 11,157 | 358.7 |
| Inferred                           | Total Theta Project | All  | 3.30          | 132        | 435     | 4.9                  | 16,202 | 520.9 |
| Total Indicated and Inferred       |                     |      | 2.70          | 190        | 514     | 10.1                 | 27,359 | 879.6 |

#### Notes:

- Theta Project (Theta Hill, Browns Hill and lota) cut-off is 0.35 g/t.
- The gold price used for the cutoff calculations is USD 1,500 / oz.
- Geological losses applied are 10% for inferred and 5% for Indicated and Measured.
- Theta Hill and Browns Hill -Upper Theta Reef, Lower Theta Reef and Beta Reef are diluted grades over 100cm.
- Historical mine voids have been depleted from the Mineral Resource.
- The inferred Mineral Resources have a high degree of uncertainty and it should not be assumed that all or a portion thereof will be converted to Ore Reserves.
- Mineral Resources fall within the mining right MR83 and MR341.

### **Resources Tables**



#### Theta Project Ore Reserves for MR83 only, 16 May 2019 (The Ore Reserves exclude Inferred Mineral Resources).

| Mineral Resource     | Pit         | Grade | Reef Tonnes | Au Content |         |  |
|----------------------|-------------|-------|-------------|------------|---------|--|
| Category in LoM Plan | Pit         | g/t   |             | kg         | oz      |  |
| Probable             | Browns Hill | 3.24  | 564         | 1,826      | 58,699  |  |
| Probable             | lota        | 2.54  | 1,253       | 3,189      | 102,513 |  |
| Probable             | Theta Hill  | 2.76  | 493         | 1,362      | 43,798  |  |
| Total                |             | 2.76  | 2,310       | 6,377      | 205,010 |  |

#### Notes:

- Totals in the Ore Reserve may not add-up due to rounding.
- Mineral Resources are for MR83 only and excludes MR341.
- No Inferred Mineral Resources are included in the Ore Reserve.

### **THANK YOU**





George Jenkins – CEO (TGME) georgej@tgme.co.za

Michael Porter - US Investor Relations <a href="mailto:theta@plrinvest.com">theta@plrinvest.com</a> (Porter, Levay & Rose Inc.)

www.thetagoldmines.com