

19TH MINERAL SANDS CONFERENCE

Perth
21 & 22 March 2018



ASX: MDL



 **MDL**

STATEMENTS

MDL OVERVIEW

- The primary asset of Mineral Deposits Limited (**MDL**) is a 50% interest in the TiZir Limited (**TiZir**) joint venture, which owns 90% of the Grande Côte mineral sands operation (**GCO**) in Senegal, West Africa and 100% of the TiZir Titanium & Iron ilmenite upgrading facility (**TTI**) in Tyssedal, Norway. ERAMET SA of France is MDL's 50% joint venture partner in TiZir.

FORWARD-LOOKING STATEMENTS

- Certain information contained in this presentation including any information on MDL's plans or future financial or operating performance and other statements that express management's expectations or estimates of future performance, constitute forward-looking statements. Such statements are based on a number of estimates and assumptions that, while considered reasonable by management at the time, are subject to significant business, economic and competitive uncertainties. MDL cautions that such statements involve known and unknown risks, uncertainties and other factors that may cause the actual financial results, performance or achievements of MDL to be materially different from the company's estimated future results, performance or achievements expressed or implied by those forward-looking statements. These factors include the inherent risks involved in mining, operation of mineral processing facilities, exploration and development of mineral properties, financing risks, changes in economic conditions, changes in the worldwide price of zircon, ilmenite and other key inputs, changes in the regulatory environment and other government actions, changes in mine plans and other factors, such as business and operational risk management, many of which are beyond the control of MDL.
- Past performance information given in this presentation is given for illustrative purposes only and is not necessarily a guide to future performance. No representation or warranty is made by any person as to the likelihood of achievement or reasonableness of any forward-looking statements, forecast financial information or other forecast. Nothing contained in this presentation is, or shall be relied upon as, a promise, representation, warranty or guarantee as to the past, present or future performance of MDL.
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STRONG SHARE PRICE PERFORMANCE

SHARE PRICE REFLECTS ACHIEVEMENT OF KEY MILESTONES AND AN IMPROVING COMMODITY MARKET

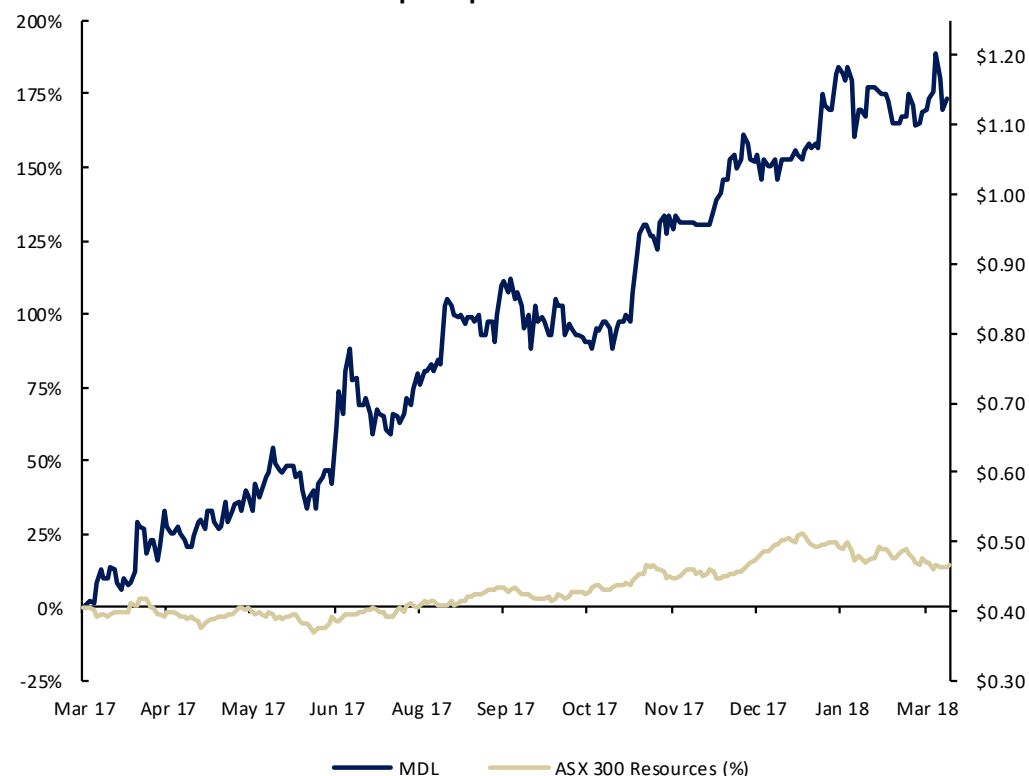
MARKET SNAPSHOT

Share price (as at 20 March 2018)	A\$1.145
Shares on issue	~197m
Market capitalisation	~A\$225.5m
Net cash (debt) (as at 31 December 2017)	~A\$16.2m
12 month share price range	A\$0.42 - A\$1.22

MAJOR SHAREHOLDERS¹

Allan Gray Australia	16.04%
Ellerston Capital	9.40%
L1 Capital	8.84%
Farjoy	7.82%
Morgan Stanley Australia Securities	7.72%
Tiga (Thorney Investments)	5.44%
CBA (Colonial First State)	5.07%
Top 20 Shareholders (as at 20 March 2018)	86.80%

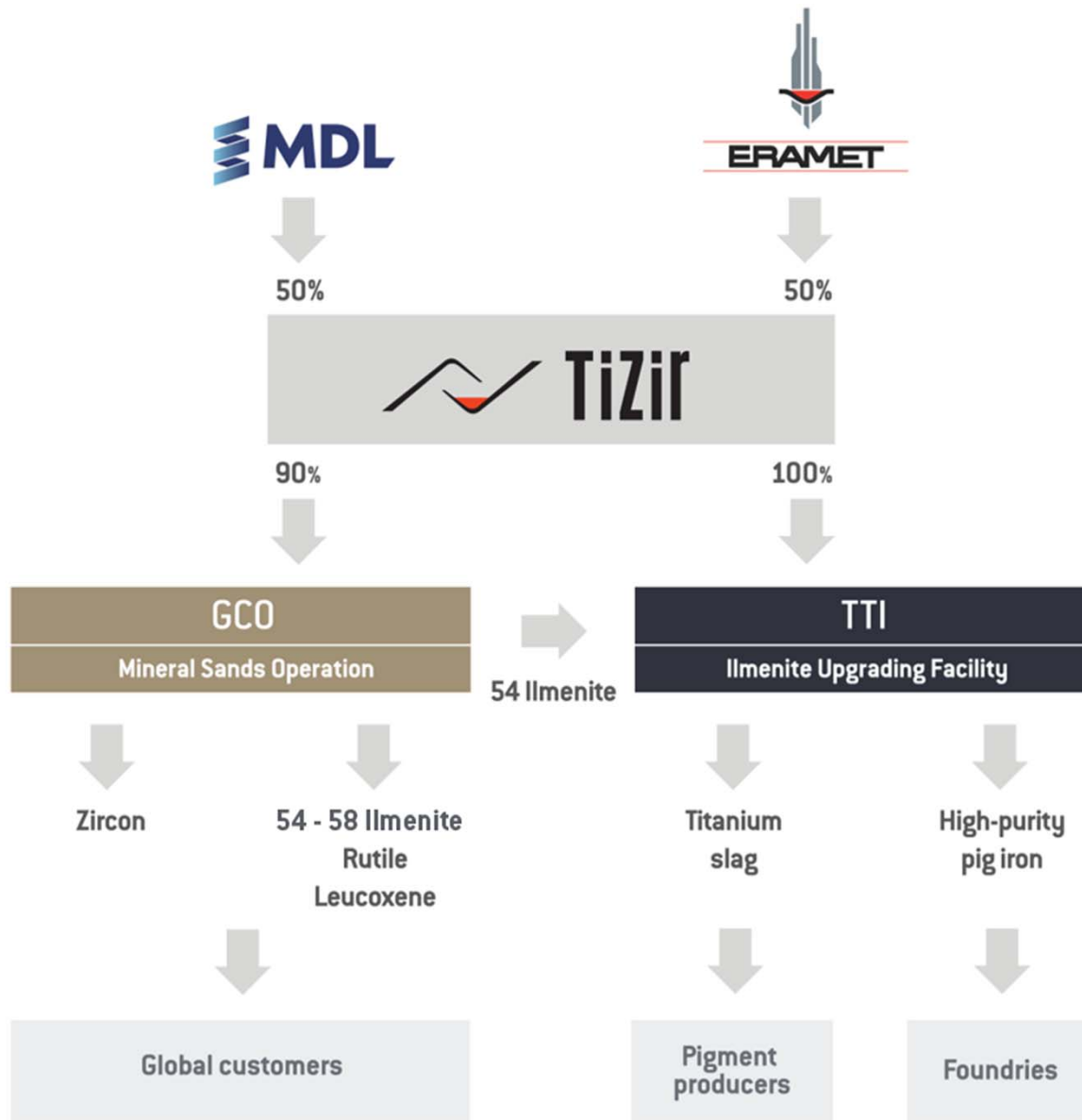
MDL share price performance - 12 months



1. Major shareholder percentages are as disclosed to MDL in substantial holding notices

TIZIR JOINT VENTURE – 50% MDL

TIZIR – AN INTEGRATED PRODUCER OF HIGH-QUALITY ZIRCON AND TITANIUM SLAG



Joint venture company & partner

- TiZir – joint venture entity comprising MDL ownership of 50%
- ERAMET
 - French multinational mining and metallurgy company
 - Listed on the Euronext Paris (Trading code: ERA)

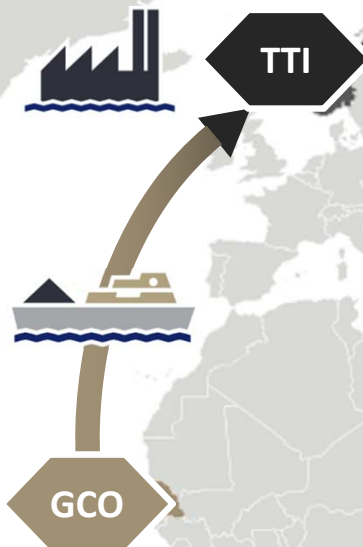
Key operating assets

- Grande Côte mineral sands operation (**GCO**)
 - Senegal, West Africa
- TiZir Titanium & Iron ilmenite upgrading facility (**TTI**)
 - Tyssedal, Norway

TIZIR OPERATIONS AND SOURCES OF REVENUE

TIZIR PRODUCES HIGH-GRADE TITANIUM FEEDSTOCKS AND PREMIUM QUALITY ZIRCON

TiZir	2017
Revenue	US\$224.6m
EBITDA	US\$62.5m
Margin	28%



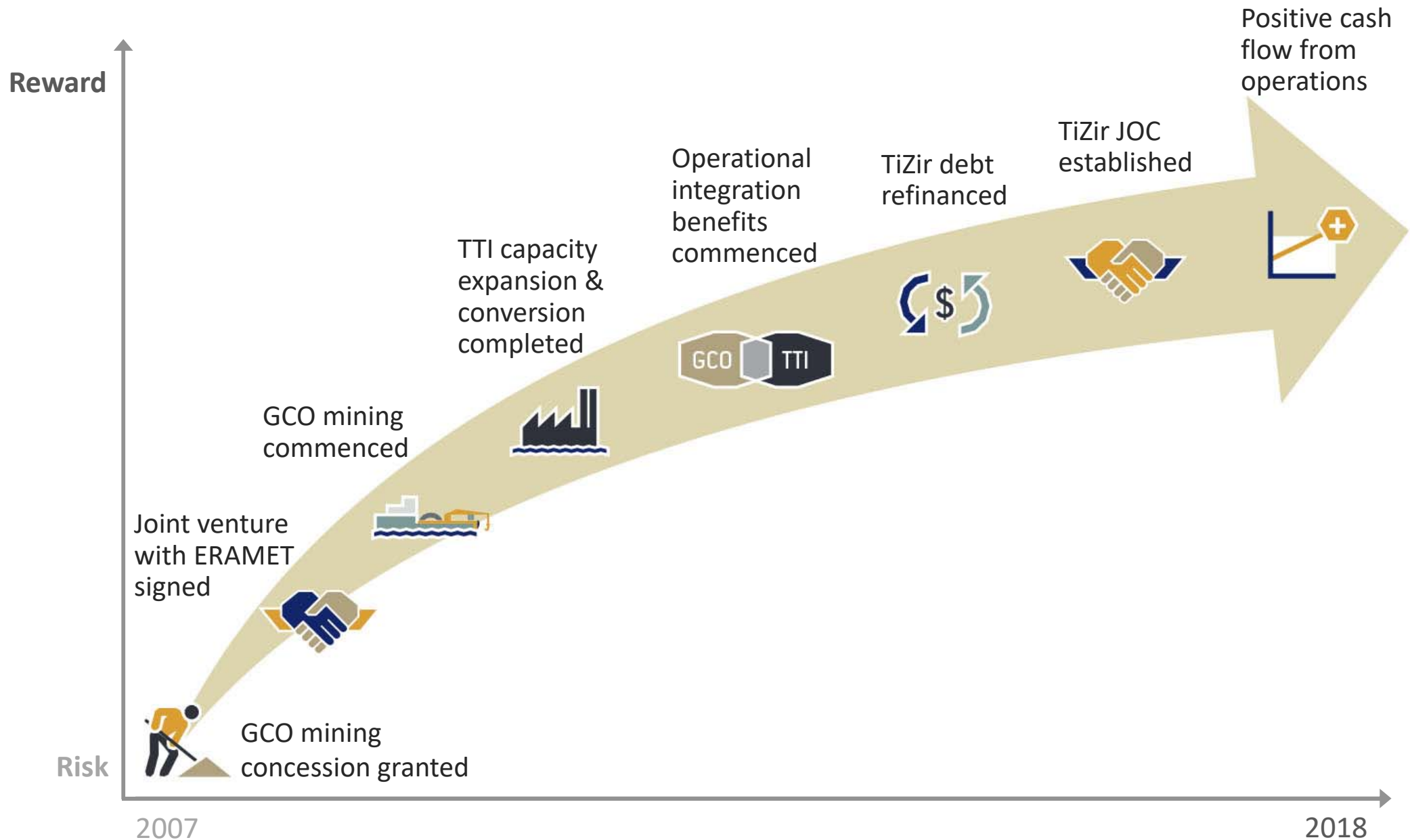
REVENUE SOURCES¹

TiO ₂	45-55%
Zr	25-30%
HPPI	10-15%
Ilm	10-12%

1. Proportions are indicative averages over GCO's life of mine, based on current internal sales and price forecasts. 'TiO₂' includes chloride slag from TTI and rutile and leucoxene from GCO, 'Ilm' reflects external ilmenite sales

TIZIR DE-RISKING

ONGOING ACHIEVEMENT OF SIGNIFICANT MILESTONES



GRANDE CÔTE OPERATIONS



MINE ► INTEGRATE ► TRANSFORM



SENEGAL – WEST AFRICA

ONE OF THE MOST STABLE DEMOCRACIES IN AFRICA



- Strong and stable democratic republic based on French civil law
 - three peaceful political transitions since independence in 1960
- Long history of international peacekeeping and regional mediation
 - Member of: United Nations; West African Economic and Monetary Union (UEMOA); New Partnership for Africa's Development (NEPAD); WTO & GATT
- President Macky Sall elected in March 2012 and launched an economic reform program designed to boost economic growth
- Fiscal outlook continues to improve
- World Bank rates Senegal as one of the top 10 economies for growth in 2018

MINERAL RESOURCES & RESERVES

Mineral Resource estimate ¹

100% basis Resource category	Tonnes Mt	In Situ HM Mt	HM %
Measured	1,456	20.9	1.4
Indicated	350	4.8	1.4
Inferred	41	0.5	1.2
Total	1,847	26.2	1.4

Ore Reserve estimate¹

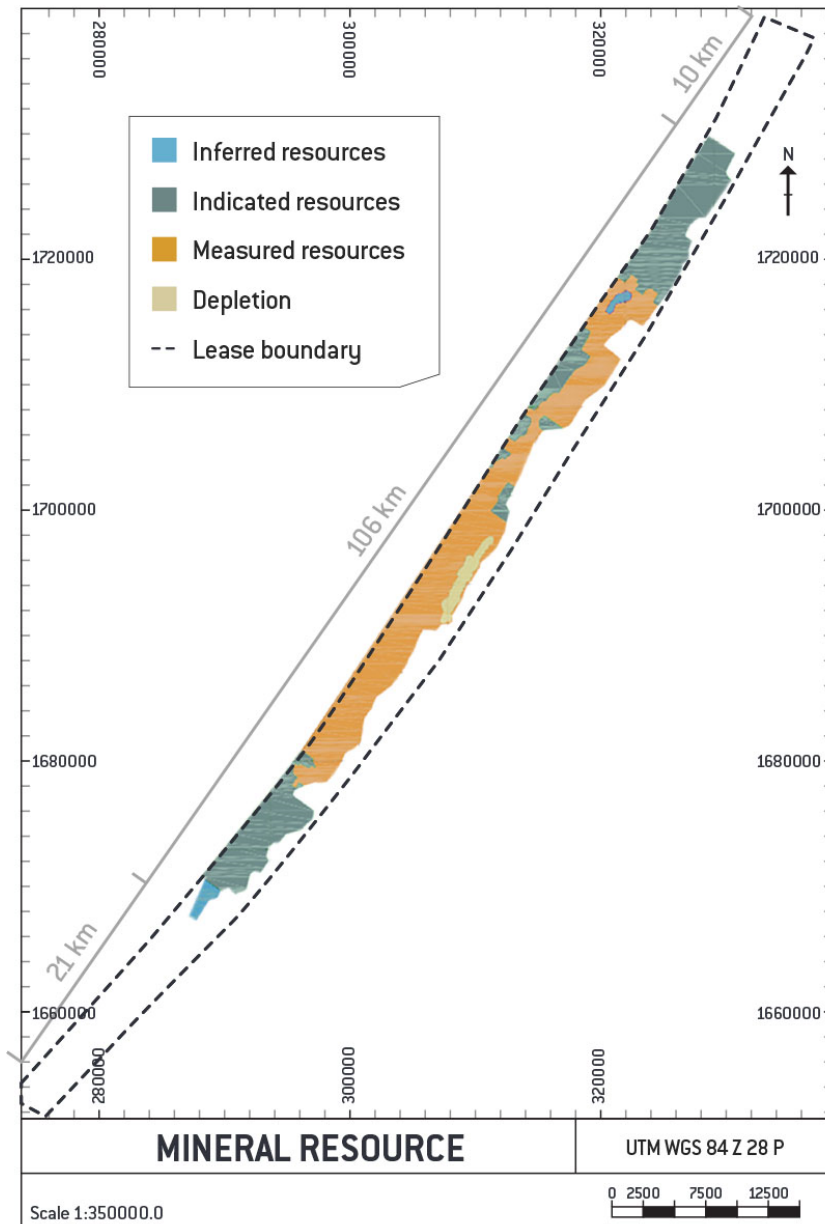
100% basis Classification	Tonnes Mt	In Situ HM Mt	HM %
Proved	1,392	20.2	1.5
Probable	373	4.5	1.2
Total	1,765	24.7	1.4

Key figures

- Mineral Resource estimate of 26.2 million tonnes (**Mt**) of heavy minerals (**HM**) (Measured and Indicated and Inferred)¹
- Increase in Ore Reserve during 2017 to 24.7 Mt of HM (Proved and Probable)¹
- Optimised and updated mine path and schedule
- Grande Côte life of mine now 33 years, extended by seven years to 2050
- Mineral assemblage:
 - ilmenite (72.0%)
 - zircon (10.7%)
 - leucoxene (3.2%)
 - rutile (2.5%)

1. ASX release – 19 February 2018 (Grande Côte Mineral Resource and Ore Reserve Update). MDL confirms that it is not aware of any new information or data that materially affects the information included in the ASX release of 22 February 2017 and that all material assumptions and technical parameters underpinning the estimates in the release continue to apply and have not materially changed

LARGE SCALE – LONG MINE LIFE



Ore deposit

- Stretches for over 100km of coast line
- Comprises a linear series of Aeolian sand dunes
- Dunes range between 5m and 35m in height
- Mineralised zones
 - essentially flat lying
 - average ~15m in thickness
- Heavy mineral assemblage concentrated by wind action

LARGE SCALE – LONG MINE LIFE



Mine

- Dredge
- Floating wet concentrator plant

Mineral separation plant

- Heavy mineral concentrate upgraded through a wet and dry circuit
- Magnetic and non-magnetic separation
- Dry circuit is a combination of electrostatic and magnetic separation
- Final products of high-quality zircon, ilmenite, rutile and leucoxene

Logistics

- Owned and operated power and water infrastructure
- Rail between mine and Dakar port operations
 - owned and operated locomotives
- Exclusive berth at Dakar port and warehousing facilities

SUSTAINABILITY FUNDAMENTALS



FINANCIAL & EMPLOYMENT

- Government owns 10% of GCO
- 5% gross production royalty
- Focus on:
 - maximising local employment
 - use of local suppliers and service providers
 - capacity building and training

ENVIRONMENT & SAFETY

- Progressive rehabilitation
 - program developed with regulators and local communities
- 'Zero incident' ethos
- Medical clinic and Emergency Response Team
- Multilingual OHS training

SOCIAL & COMMUNITY

- Stakeholder approved social development programs
 - community infrastructure
 - agricultural improvement
 - small business development
 - focus on opportunities for women & young people
- Resettlement eco-villages

MINERAL SANDS OPERATION – GCO



MINE ► INTEGRATE ► TRANSFORM

Video

TIZIR TITANIUM & IRON



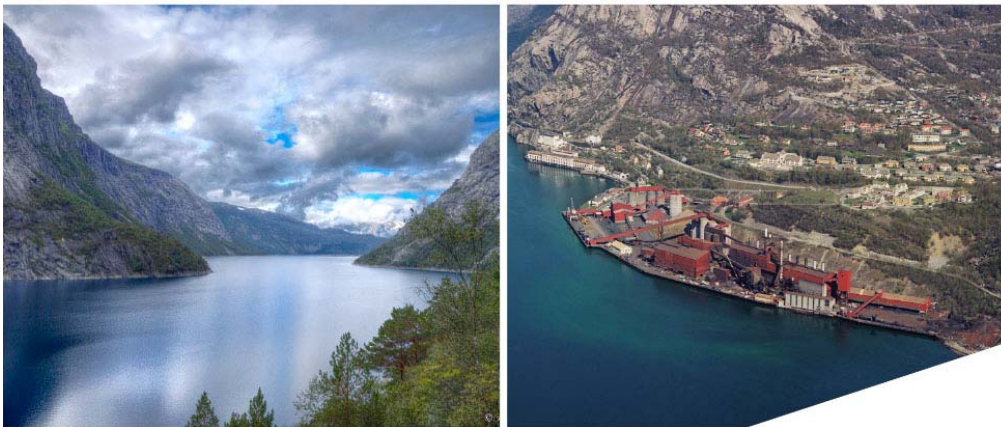
MINE ► INTEGRATE ► TRANSFORM

TYSSEDAL – NORWAY

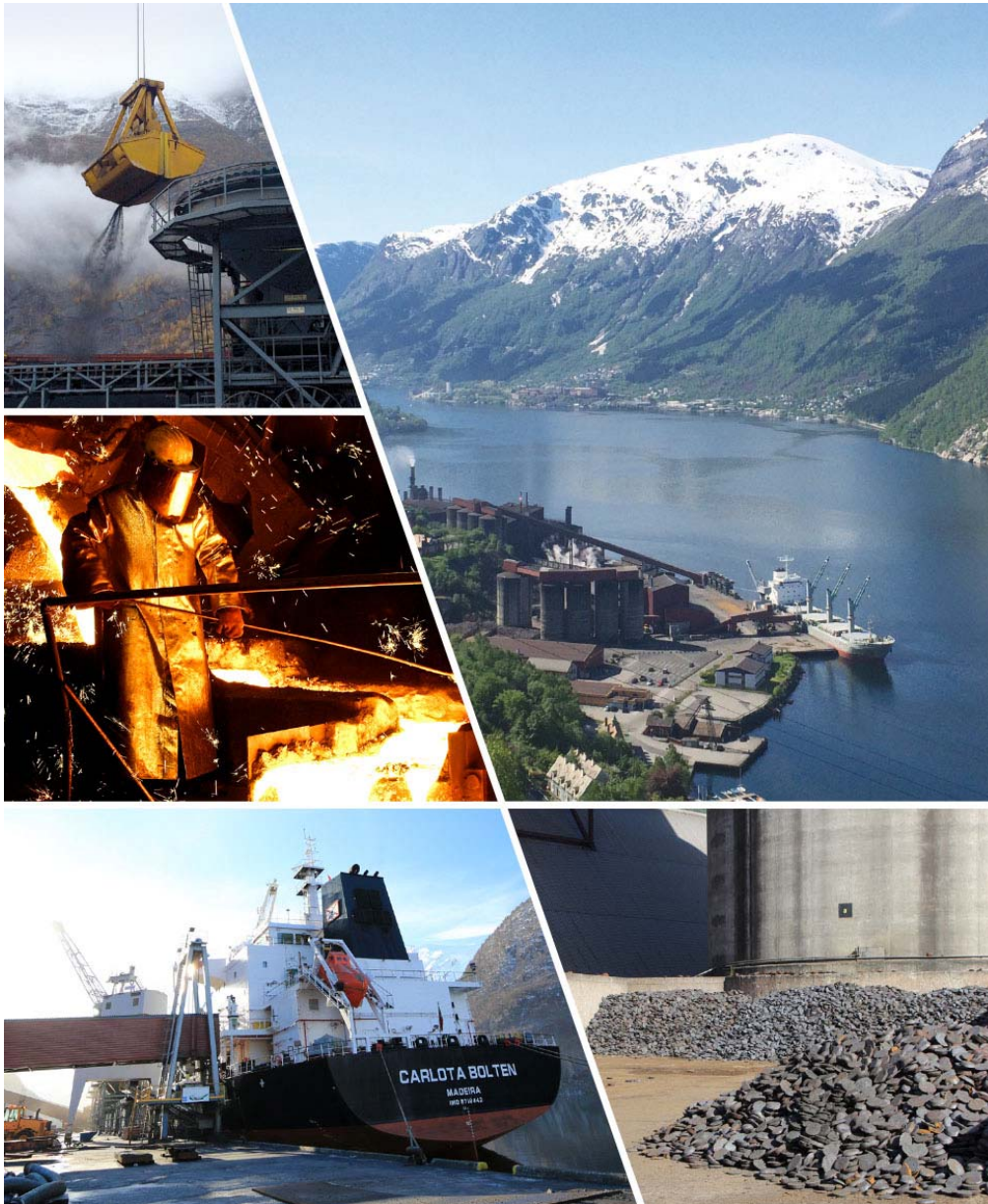
NORWAY IS LOCATED IN NORTHERN EUROPE



- Norway has a highly educated workforce
- Tyssedal is a village in Odda municipality in Hordaland county
- Located in a valley between the Hardangerfjord to the west and mountains to the east
- TTI is the largest employer in the village



ONLY UPGRADING FACILITY OF ITS TYPE IN EUROPE



Upgrading facility

- Furnace capacity expansion project completed in 2015
- First chloride slag production early January 2016
 - closely followed by high-purity pig iron
- Chloride slag and iron specifications are consistent with expectations

Operation

- In operation for over 30 years
- Valuable intellectual property
 - technology/knowledge
 - operational expertise

Logistics

- Abundant hydro-sourced electric power
- Deep water shipping facilities

ILMENITE UPGRADING FACILITY – TTI



MINE ► INTEGRATE ► TRANSFORM

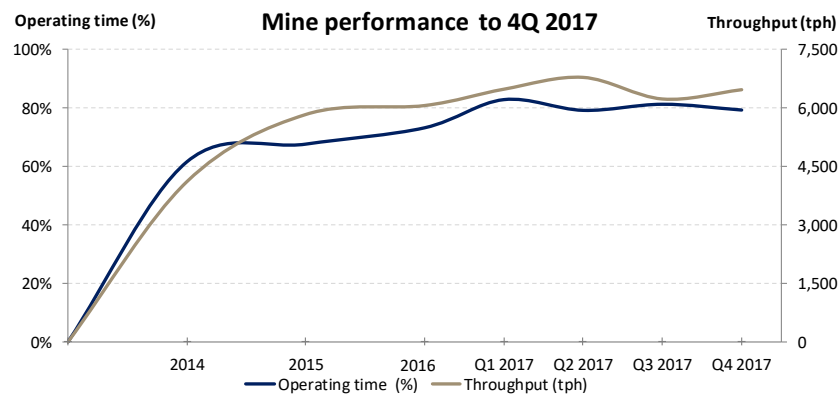
Video

RE-CAP OF ACHIEVEMENTS

A TRANSFORMATIONAL YEAR FOR GCO AND TTI

GCO

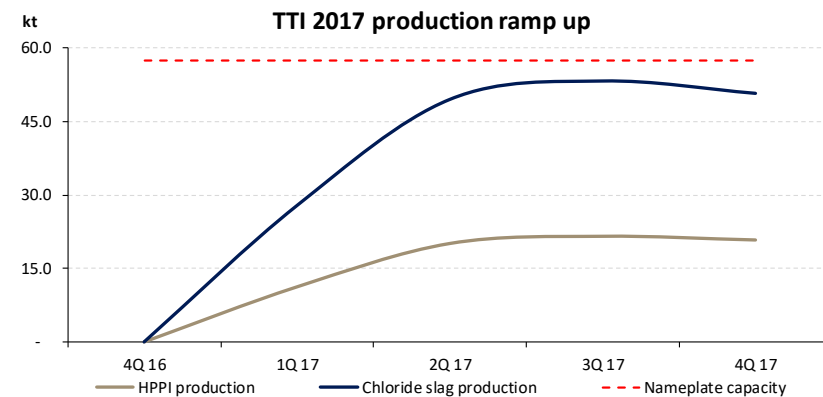
- GCO cash flow positive for six consecutive quarters
- Year-on-year production improvements



- Ongoing cost saving initiatives in effect
- Medium grade zircon sands (**MGZS**) product introduced to valorise off-spec non-magnetics
- No significant capital requirements anticipated
- Mine path optimised
- Mine life extended to 2050

TTI

- Ramp up to expanded furnace capacity in-line with expectations, WIP inventory replenished



- Operations cash flow positive in 4Q 2017
- Significant production efficiencies achieved post furnace reline and repairs – lower power and coal consumption
- Valuable pig iron credits generate resilient margins
- 2018 production will be impacted by pre-reduction kiln outage

KEY METRICS – 2017 PERFORMANCE

SIGNIFICANT IMPROVEMENTS ON 2016 PERFORMANCE

TiZir (100% basis)	2017	2016	yoy
Production (kt)			
Heavy mineral concentrate (HMC)	724.8	613.7	18%
Zircon ¹	61.6	52.6	17%
Ilmenite	492.4	416.3	18%
Chloride slag	181.1	103.6	75%
High-purity pig iron (HPPI)	73.8	42.6	73%
Financials (US\$m)			
Revenue	224.6	160.6	40%
EBITDA	62.5	24.1	159%
Operating cash flow	5.9	18.5	(68%)
Reported profit/(loss)	(32.3)	(63.8)	N/A
Balance Sheet (US\$m)			
Net external debt ²	371.0	322.4	(15%)

1. Excludes medium grade zircon sands production

2. Excludes shareholder loans

CONTACT DETAILS

For further information please contact:

Robert Sennitt

Managing Director

Jozsef Patarica

Chief Operating Officer

Greg Bell

Chief Financial Officer

Level 17, 530 Collins Street
Melbourne Victoria 3000
Australia

T +61 3 9618 2500

F +61 3 9621 1460

E mdlmail@mineraldeposits.com.au

W mineraldeposits.com.au



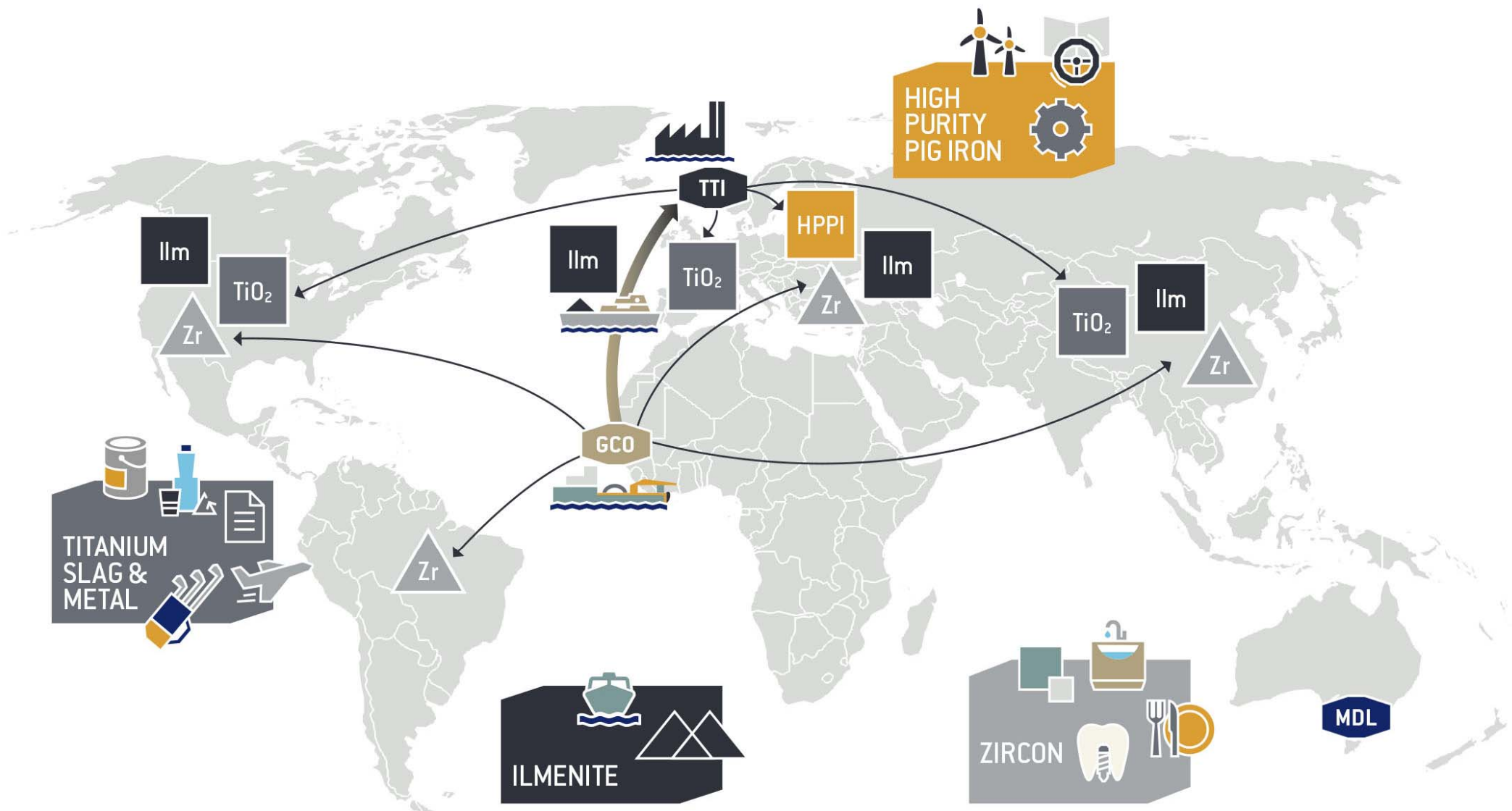
APPENDICES



MINE ► INTEGRATE ► TRANSFORM

TIZIR

LOCATIONS, PRODUCTS & APPLICATIONS



KEY BENEFITS OF INTEGRATION

GCO

- Long life mine
- Low cost dredge mining
- High-quality product suite
- Owned and operated power and water infrastructure
- Ownership or control of key mine to port infrastructure



INTEGRATION BENEFITS

- Production flexibility
- Minimise risk profile
- Maximise margins
- Reduced logistics costs



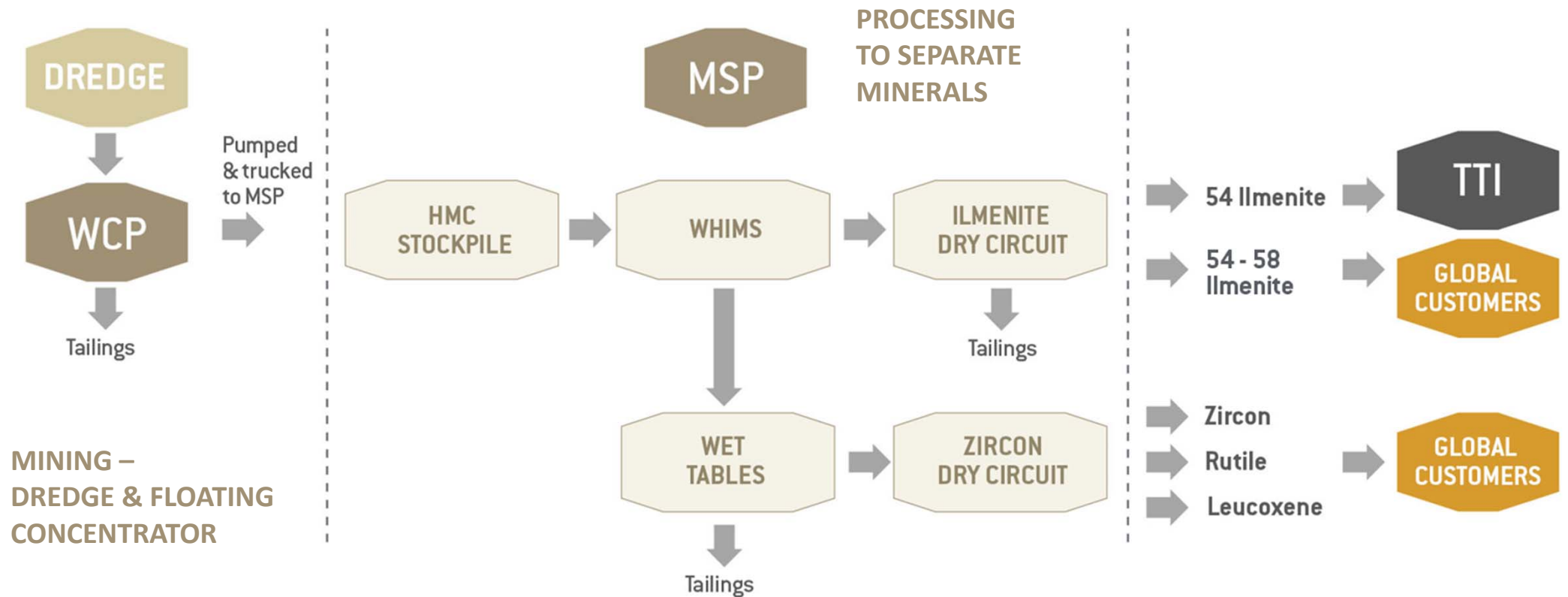
TTI

- Operating for over 30 years
- Valuable intellectual property
 - technology/knowledge
 - operational expertise
- Abundant, hydro-sourced electric power
- Recent capacity upgrade



GCO PROCESS

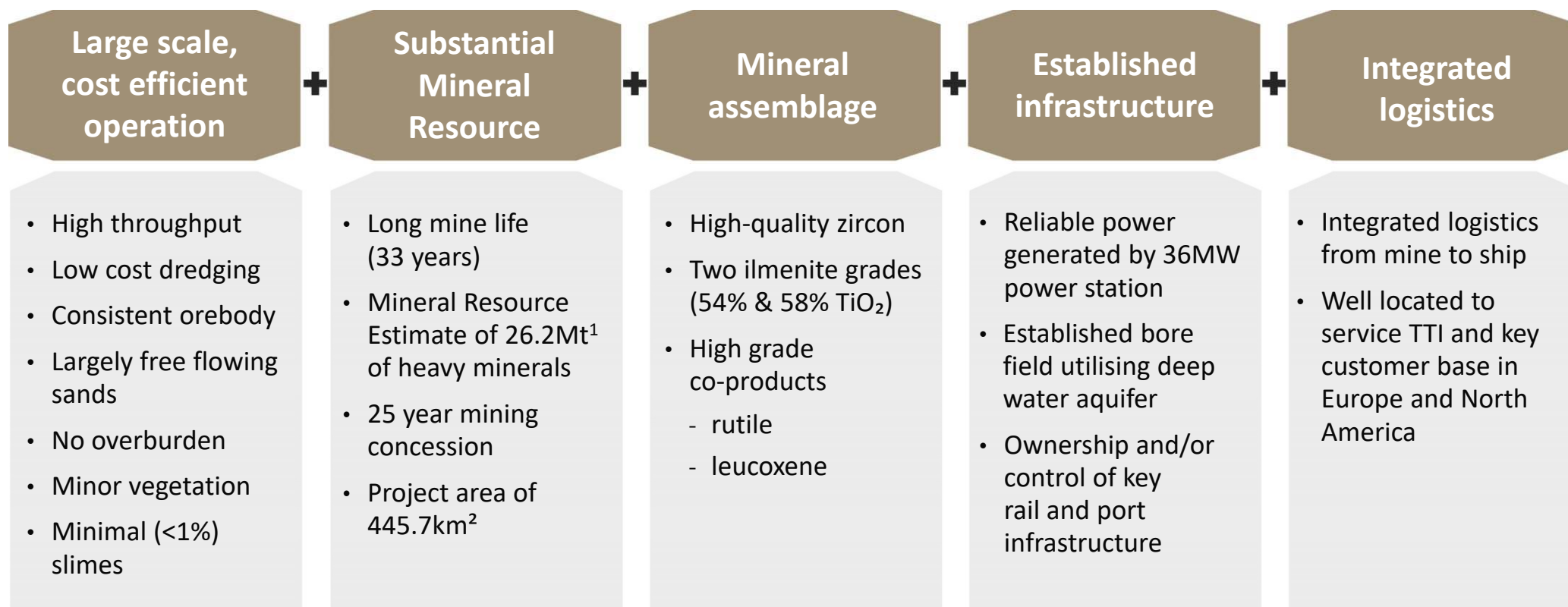
LOW COST DREDGE MINING AND CONVENTIONAL PROCESSING THAT IS INTEGRATED FROM MINE TO SHIP



WCP: WET CONCENTRATOR PLANT
MSP: MINERAL SEPARATION PLANT
HMC: HEAVY MINERAL CONCENTRATE
WHIMS: WET HIGH INTENSITY MAGNETIC SEPARATION

GCO

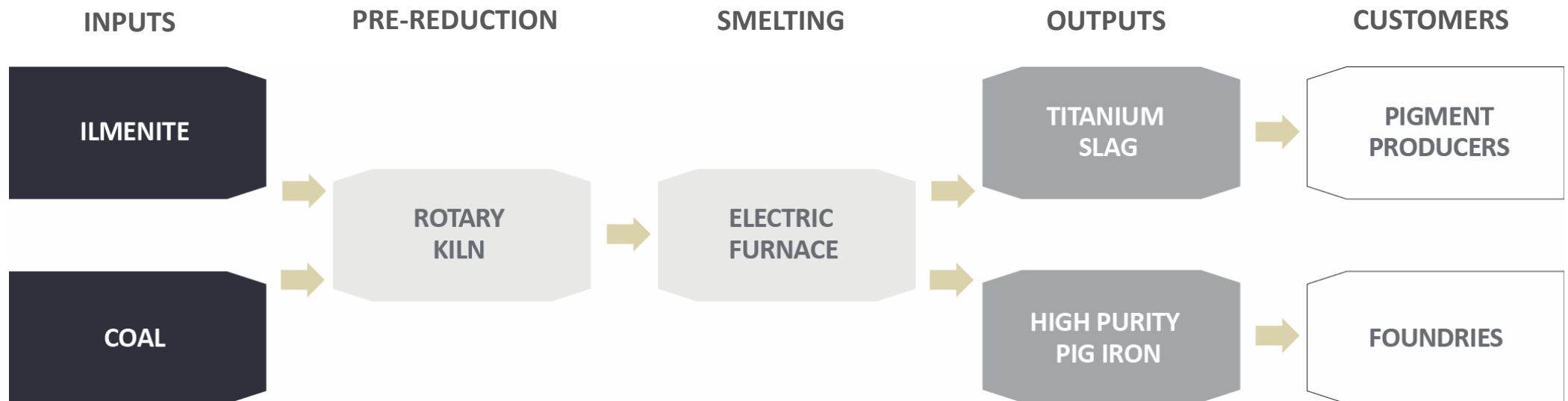
KEY ATTRIBUTES



1. ASX release – 19 February 2018 (Grande Côte Mineral Resource and Ore Reserve Update). The combined measured and indicated and inferred resource estimate of 26.2Mt is comprised of a measured resource estimate of 20.9Mt, an indicated resource estimate of 4.8Mt and an inferred resource estimate of 0.5Mt. MDL confirms that it is not aware of any new information or data that materially affects the information included in the ASX releases of 19 February 2018 and that all material assumptions and technical parameters underpinning the estimates in the release continue to apply and have not materially changed

TTI PROCESS

LONG OPERATING HISTORY – VALUABLE INTELLECTUAL PROPERTY



KEY ATTRIBUTES



MDL BOARD OF DIRECTORS



Nic Limb
Chairman

Serving as chairman since 1994, Nic transitioned to non-executive status in 2016. He has extensive experience in the resources industry at board and management level spanning project exploration, development and financing.



Rob Sennitt
Managing director

Prior to joining MDL, Rob spent almost 25 years in the investment banking industry where his focus was advising companies in the natural resources sector on financial and strategic transactions.



Martin Ackland
Non-executive director

Martin is a qualified metallurgist who has spent over 50 years in the resources industry in a variety of roles. He has served as a director of a number of listed mining companies involved in gold, uranium and base metal production.



Sandy MacDonald
Independent director

Sandy has over 40 years' experience covering operations, development, design and construction in the mining and metallurgical industries in Africa, United Kingdom, Canada and Australia.



Tom Whiting
Independent director

Tom has over 40 years' experience in global minerals exploration management including a very successful discovery track record. He held numerous senior management roles over a 20 year career with BHP Billiton.

MDL EXECUTIVE MANAGEMENT



Jozsef Patarica

Chief operating officer

Jozsef is a mining professional with a strong track record in the mining industry spanning 25 years. He has been involved in management, project evaluation and operational roles throughout his career in a number of mining centres across Australia and Senegal.



Greg Bell

Chief financial officer

Greg joined MDL in 2010 and has over 15 years of accounting and corporate finance experience with BDO and Deloitte. He was previously the manager of the audit team for the Company from 2003 until 2006.



Michaela Evans

Company secretary & GM – corp. affairs

Michaela was appointed company secretary in 2013 following a period as the Company's corporate social responsibility communications manager. She has previous ASX listed administrative and executive assistance experience in the resources industry.