

November 2019 • Investor Presentation • ASX: GMC

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Thank you

#### **Corporate Snapshot**



Share Metrics

(as at 18 November 2019) ASX Ticker GMC

Issued Shares 5,184,364,998

Share Price 0.6¢

52 Week 0.10¢ / 0.5¢ High/Low

Market Cap \$ A 31 million



#### **Board & Management**

Non-Exec Chairman Craig Munro

Managing Director & CEO

Hamish Bohannan

**Non-Exec Director** 

Andrew Wilson

**Non-Exec Director** 

Tan Hwa Poh

**Company Secretary** 

Ian Gregory

CFO

Robert lerace

#### **GMC Shareholder Structure**

Top 20 Shareholders	46.71%
<b>Board &amp; Management</b>	5.22%
Citicorp	11.76%
HSBC	7.46%
PT JTS Group	3.50%
Tan Hwa Poh	2.93%
BNP Paribas	2.78%

### Who is Gulf Manganese Corporation?



 Gulf is a smelting specialist, involved in mining, smelting and trading of manganese products, offering exposure to the niche top end manganese space, essential to steel and batteries

 Gulf is the only ASX listed company offering exposure to the unique Indonesian high grade ore

 Gulf is developing a premium refined ferromanganese alloy production smelting hub in West Timor, Indonesia

 Headquartered in Australia, with offices in Perth, Kupang, Singapore and Dili



#### **Investment Opportunity**



Construction on track to be completed in H2 2019:

 Construction over 60% complete with commissioning and first commercial alloy sales expected during Q1 2020

Clear pathway to production ramp-up:

 Low-cost, highly scalable production starting at 43,000<sup>1</sup> tpa, increasing to over 200,000<sup>2</sup> tpa of ferromanganese alloy with the addition of subsequent smelters

**DSO Licence secured:** 

• Manganese Concentrate Export Permit ("DSO") approval received to export up to 103,162 tonnes of high-grade manganese concentrate per year, with the licence secured through to January 2022

Mine-gate to production acquisition strategy:

 Actively assessing acquisition opportunities targeting high grade (+49%Mn) manganese mines in Indonesia

Diversified revenue streams:

 Export of refined ferromanganese alloys of Medium and Low Carbon, and export of Direct Shipping Ore (DSO)

Strong in-country partnerships:

 Strong Indonesian partnership with PT JTS, whose Chairman and CEO is Bapak Fofo Sariaatmadja, a highly regarded Indonesian business executive

Strategic interest in Timor-Leste manganese explorer:  Planned acquisition of a 20% interest in Iron Fortune Pty Ltd provides a first to market exploration opportunity in Timor-Leste, significantly diversifying and de-risking supply chain

Notes: 12 Units 28 Units

#### What is Manganese?

#### Manganese is:

- The fourth most consumed metal behind iron, aluminium and copper
- A brittle, hard, silver-grey metal that looks like iron

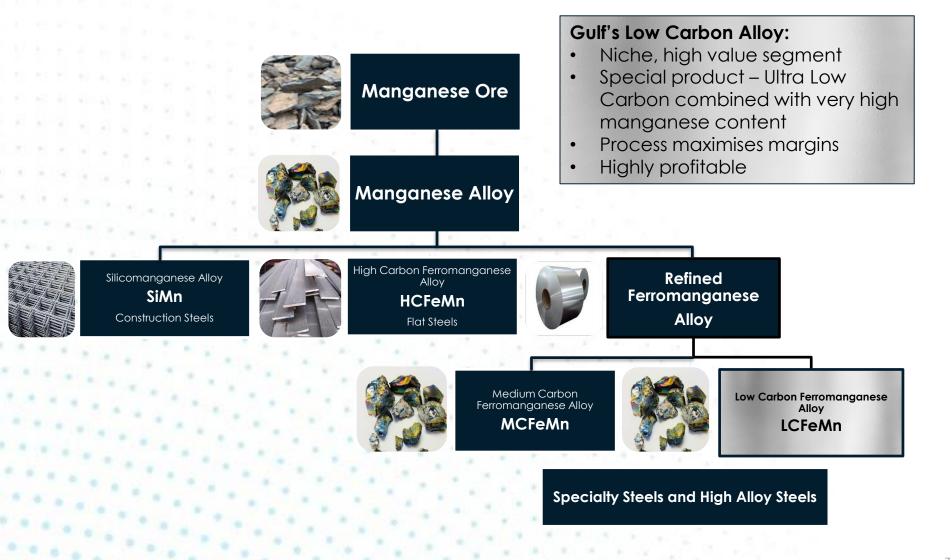
#### **Metallurgical:**

- Over 90% of demand comes from steelmaking. No suitable substitute for the metal exists, it cannot be recycled.
- Manganese is usually added in the form of ferroalloys: ferromanganese (FeMn) and silicomanganese (SiMn)
- Manganese ferroalloys are added to deoxidise molten steel, remove sulphur and act as hardening agent
- It is also used in batteries, chemicals and the aluminium industry



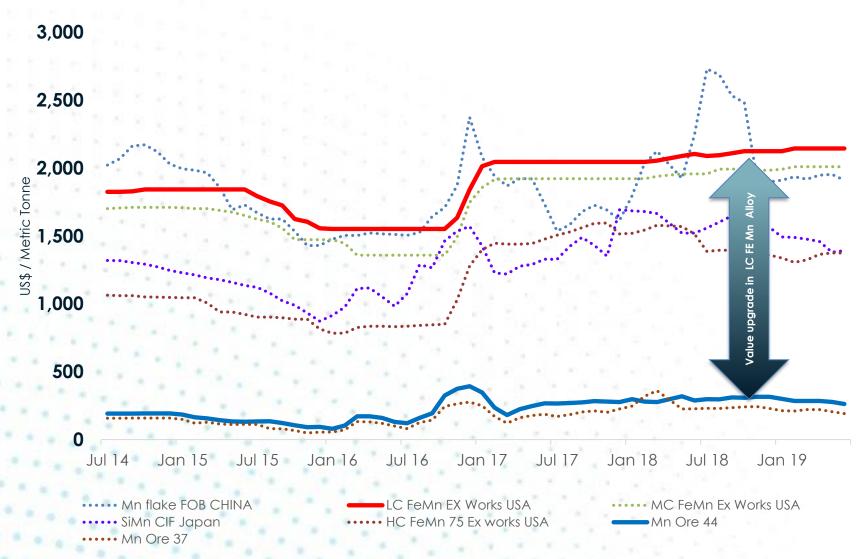
#### Low Carbon FeMn – Highest Value Alloy





# LC FeMn Project Value Proposition





# Why Indonesia?

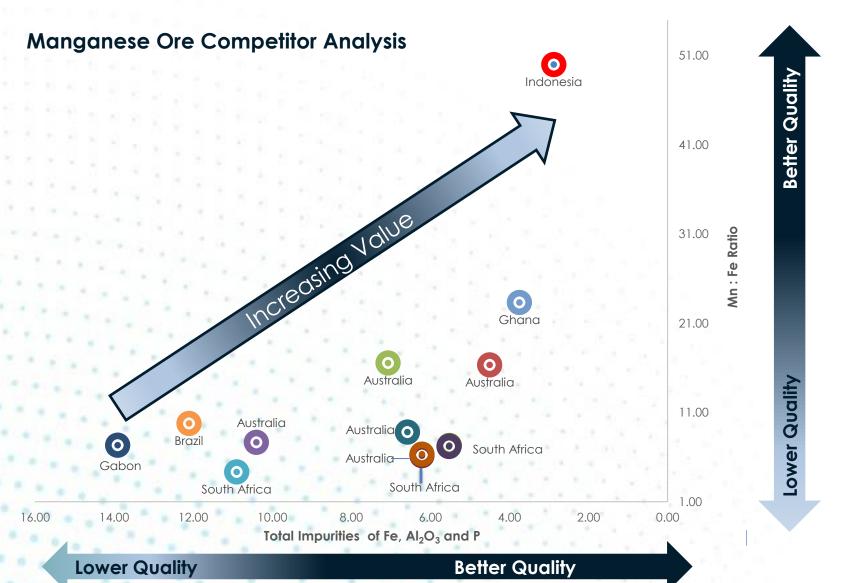
- Super high-grade ore >49% manganese (Mn)
- Very low iron (Fe) content
- Extraordinary Mn:Fe ratio, typically greater than 50:1
- Indonesia law does not allow for exporting of 'untreated ore' without a Direct Shipping Ore licence (DSO)<sup>1</sup>
- Gulf provides a route to market to local miners and realises additional value through the smelting process
- DSO now secured and Gulf can also export manganese concentrate



<sup>&</sup>lt;sup>1</sup> The government is currently only allowing DSO until April 2022 after which the ban may be reinstated

### **Key Value Drivers for Manganese Ore**





#### **Project Overview - Smelting Hub**



#### **Development of Smelting Hub in West Timor**

Initially 2 x 7MVA smelters treating 110,000 tonnes of ore, producing up to 43,000 tonnes FeMn alloy per annum



#### Flexibility allowed by batching; mitigates market risk

Production of Low Carbon FeMn using FeSi natural hedge

Production of Medium Carbon FeMn using coke



#### Low Carbon FeMn Alloy - A Unique process

Produce Ultra Low Carbon, High Mn FeMn alloy

Maximising metallurgical value adding



#### **Expansion Plan**

Initial expansion to 4 smelters within 3 years

#### Project Overview - Unique One Step Process



#### **Gulf's Smelting Process**



#### **Typical Smelting Process**



Indonesian high grade and very high Mn:Fe ratio ore enables Gulf to use a SINGLE STEP process to produce very high-grade alloy, whereas Gulf's competitors use 2 step process (converter) thus using less power per Mt of final product and increased production efficiencies.

# Project Overview – Advantages



- ✓ First mover advantage
- √ Permits in place
- √ Power agreements secured
- √ 30 year land lease secured on industrial estate
- ✓ Port facilities close by
- ✓ Direct Shipped Ore licence obtained
- ✓ Smelters and transformers fully refurbished and on site
- √ Steelwork 60% complete
- ✓ Ore supply MOUs in place
- √ Strong in-country Indonesian partner (PT JTS)

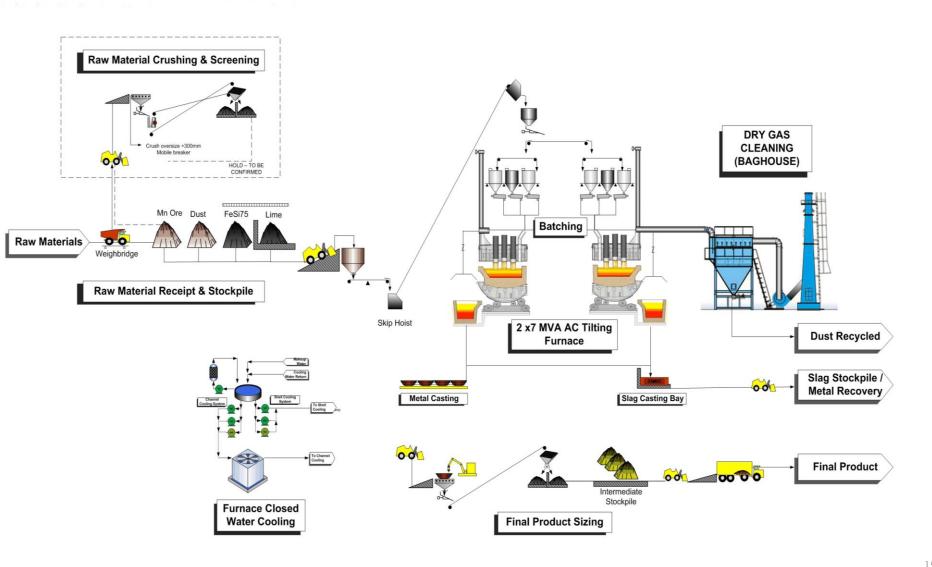
# Project Overview – Kupang Infrastructure





#### **Project Overview - Process**





#### **Project Overview - Ore Supply**

# Gulf

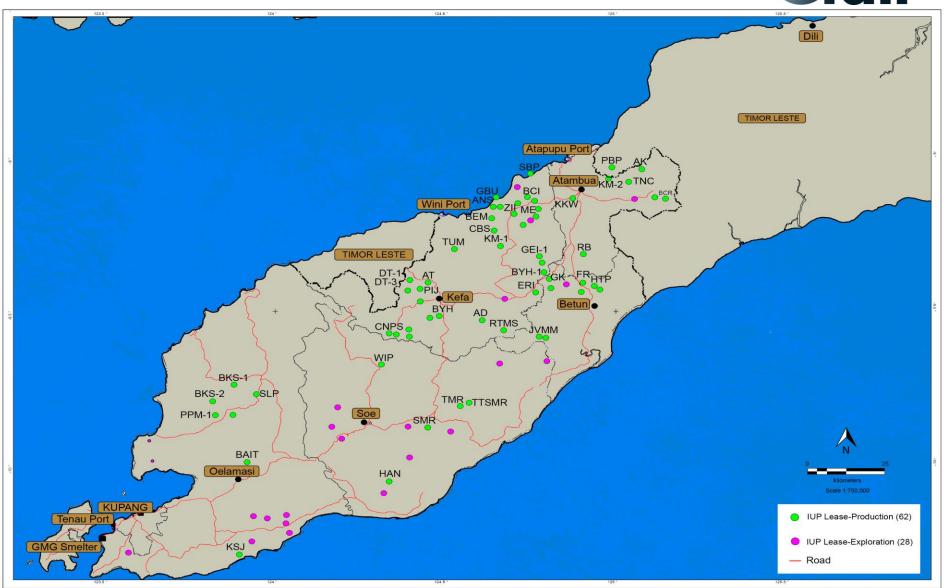
- NTT focussed procurement strategy with 20 MOU agreements in place with NTT miners.
- Gulf committed to purchase manganese ore only from suppliers who demonstrate they have all required permits, licences, certificates and approvals as required by Government regulations (clean and clear).
- Strategic interest in Timor-Leste manganese explorer (Iron Fortune). Mineralisation expected to continue into Timor-Leste.
- Discussions with international manganese ore suppliers.





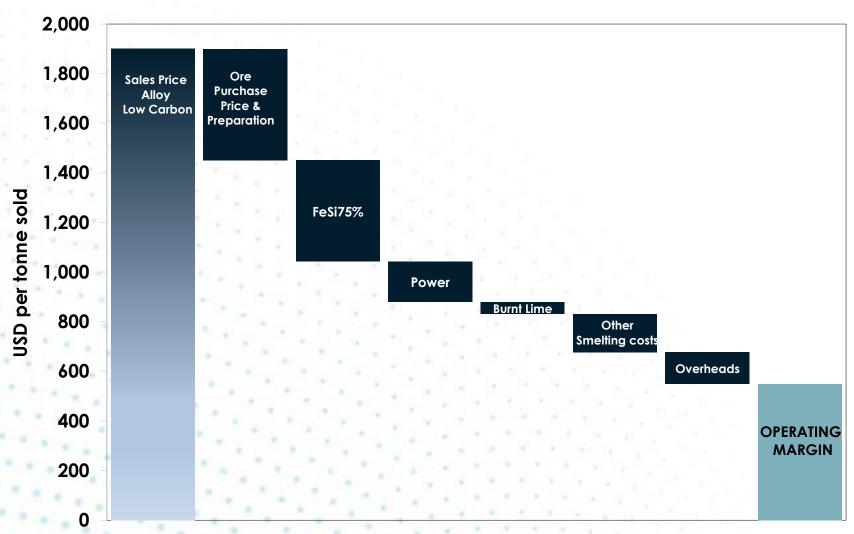
### **Project Overview – Ore Supply**





# **Alloy Operating Margin (Per Tonne Sold)**





#### **Financials**

Kupang Smelter Project		Annualised Performance			
International Contractions		2 Units	4 Units		
Installed Smelter Capacity	MVA	14	32		
Physicals					
Mn Ore Purchased	t	112,000	247,000		
FeMn Alloy Sold	t	43,000	95.000		
Costs					
Ore Purchase & Preparation	USD	19.3	42.6		
Smelting	USD	33.3	73.6		
Overheads	USD	5.5	12.2		
Total Operating Costs	USD	58.1	128.4		
Revenue from Sales	USD	81.7	180.5		
Operating Margin	USD	23.6	52.1		

#### Notes

- Does not include revenue from Direct Shipped Ore "DSO" Sales
- Based on 100% of project. GMC will have 74.9% with JTS 25.1% ownership of project.
- 3. Before Tax and Interest

- 4. All financials in millions
- Assumes all ore purchased from local Indonesian miners in NTT and adjacent provinces
- 6. Refer to Slide 22 for Assumptions on annualised performance figures
- 7. Based on Current Pricing

#### **Plant Construction**

# Gulf

#### Cost to Complete USD (million)

Spend to **US \$13 Date** 

Still to Spend

**Crusher & Screen** Laboratory \$0.2 **EPCM Contractor Mechanical & Electrical** \$8.8 Civils & Structural \$1.0 First Fill (Raw Materials) \$1.7 **Power & Connection** \$0.3 Other & Contingency

**US \$13** 

US \$26 Total





**Long Term Strategy** 



Farm-In JV with Iron Fortune (Timor-Leste)

Constant Review of Mn Opportunities Worldwide

Long Term Strategy Sintering – Upgrading and Expanding Ore Resources

Further
Development
of Mn
Smelting
Process

2 Additional Furnaces within 3 Years

# **Kupang Smelting Hub - Assumptions**



Kupang Smelter Project		LCFeMn Alloy(LP)				
Smelters Installed Capacity	2,260 t/MVA	each MVA	2 14.0	4 32.0		
Physicals						
Mn Ore Purchased	THE WORLD TO SERVICE STREET	tpa	112,000	247,000		
FeMn Alloy Sold		tpa	43,000	95,000		
		4,10	USDm	USDm	USD/t	
Ore Purchase & Preperation	\$172.01 /t purch		19.3	42.6	448.84	33.2%
FeSi75%	0.341 t/t FeMn		17.6	38.9	409.30	30.3%
Burnt Lime	0.713 t/t FeMn		2.1	4.6	48.84	3.6%
Electrode Paste	0.023 t/t FeMn		0.6	1.3	13.95	1.0%
Power	\$0.089 /kWh		7.0	15.5	162.79	12.0%
Salaries/Wages		. 10	1.7	3.8	39.53	2.9%
Laboratory			0.4	0.9	9.30	0.7%
Smelter Consumables			2.0	4.4	46.51	3.4%
Logistics			0.7	1.5	16.28	1.2%
Maintenance			1.0	2.2	23.26	1.7%
Fuels/Oils			0.1	0.2	2.33	0.2%
<u>Environmental</u>			0.1	0.2	2.33	0.2%
Smelting			33.3	73.6	774.42	57.3%
General & Administration	1		2.1	4.6	48.84	3.6%
Sales & Marketing			3.0	6.6	69.77	5.2%
Overheads		* * *	0.4	0.9	9.30	0.7%
Overheads			5.5	12.2	127.91	9.5%
Total Op Costs Revenue Net Operating Margin	\$1,900 U\$/t		58.1 81.7 23.6	128.4 180.5 52.1	1,351.16 1,900.00 548.84	

### **Riding the Commodity Wave**



# Operational Experience

- Experienced Board and Management
- Strong incountry partnerships
- Local expertise

# Strategic Flexibility

- Multiple revenue streams
- Ability to change alloy production (LC vs MC) to mitigate market risk
- Scalable production

# Access to Raw Materials

- Local supply of some of the world's highest grade
   Mn ore
- Sited along a major sea route
- Developing new ore supply channels in Timor-Leste

# High Value Products

- Highest grade manganese ore
- Low Carbon high value added product
- Low FeMn ratio – minimal impurities

# Strong Fundamentals

- Low cost production
- Strong margins
- Unique Low Carbon FeMn Process – one step process

# **Excellent Local Infrastructure**

- Reliable, competitive power supply in close proximity
- Deep water port facility nearby
- International airport
- Kupang city well established

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