# **One Billion Tonnes of Opportunity**

### RIU Sydney Resources Round Up 14-16 May 2013











# Disclaimer



#### Forward-Looking Statements

This presentation contains forward looking statements concerning the projects owned by Iron Road Limited. Statements concerning mining reserves and resources may also be deemed to be forward looking statements in that they involve estimates based on specific assumptions. Forward-looking statements are not statements of historical fact and actual events and results may differ materially from those described in the forward looking statements as a result of a variety of risks, uncertainties and other factors. Forward looking statements are based on management's beliefs, opinions and estimates as of the dates the forward looking statements are made and no obligation is assumed to update forward looking statements if these beliefs, opinions and estimates should change or to reflect other future developments. Data and amounts shown in this presentation relating to capital costs, operating costs and project timelines are internally generated best estimates only. All such information and data is currently under review as part of Iron Road Limited's ongoing development and project studies. Accordingly, Iron Road Limited cannot guarantee the accuracy and/or completeness of the figures or data included in the presentation until the project studies are completed.

#### Competent Person's Statements

The information in this report that relates to Exploration Results is based on and accurately reflects information compiled by Mr Larry Ingle, who is a fulltime employee of Iron Road Limited and a Member of the Australasian Institute of Mining and Metallurgy. Mr Ingle has sufficient experience relevant to the style of mineralisation and the type of deposits under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Ingle consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this report that relates to Mineral Resources is based on and accurately reflects information compiled by Mr Iain Macfarlane and Mr Alex Virisheff, both of Coffey Mining Ltd, who are consultants and advisors to Iron Road Limited and Members of the Australasian Institute of Mining and Metallurgy. Mr Macfarlane and Mr Virisheff have sufficient experience relevant to the style of mineralisation and the type of deposits under consideration and to the activity which they are undertaking to qualify as Competent Persons as defined in the 2004 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr Macfarlane and Mr Virisheff consent to the inclusion in the report of the matters based on their information in the form and context in which it appears.

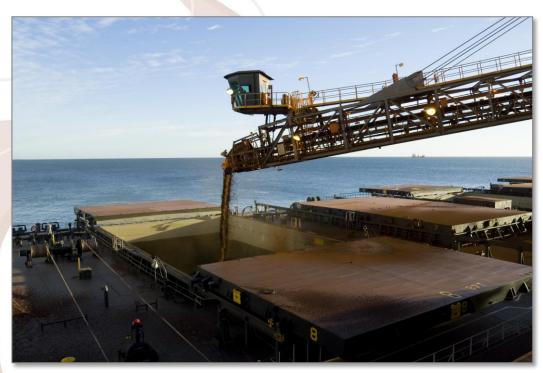
#### **Exploration Targets**

It is common practice for a company to comment on and discuss its exploration in terms of target size and type. The information in this presentation relating to exploration targets should not be misunderstood or misconstrued as an estimate of Mineral Resources or Ore Reserves. Hence the terms Resource(s) or Reserve(s) have not been used in this context. Any potential quantity and grade is conceptual in nature, since there has been insufficient work completed to define them beyond exploration targets and that it is uncertain if further exploration will result in the determination of a Mineral Resource.

# **Iron Road's Vision**



Iron Road's vision is to become a trusted and reliable supplier of premium iron concentrates to the Asian marketplace.



# **Iron Road's Strategy**



Key to achieving this vision is IRD's pathway to a staged development that utilises the common product specification of its two South Australian resource districts to enable a flexible development strategy.

#### **Gawler Iron Project**

- Potential for small 1-2Mtpa development that can provide early sustaining cash flows
- Close to established rail infrastructure with port access
- Provide product to gain early market acceptance for CEIP analogous product

### **Central Eyre Iron Project**

Large, 20Mtpa development that requires an industry partner to finance and develop rail
and port infrastructure

# **Gawler Iron Project**



Potential for small 1-2Mtpa development that may provide early sustaining cash flows

- Iron Road 90%
- Average in situ grades ~25% iron, with higher grade zones of ~36% iron
- Metallurgical study of several composite samples indicates excellent beneficiation characteristics

o 67-71% Fe (p80 @ 106µm)

- Mineral Resource and metallurgical drilling in progress
- Scoping study underway



# **Gawler Conceptual Plant Layout**



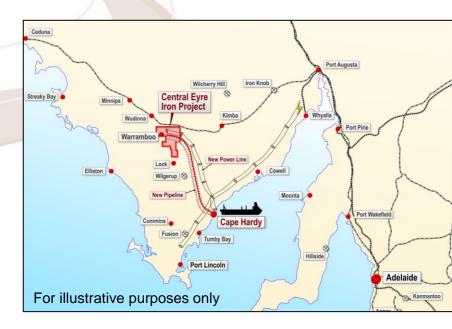
- Modular plant layout, designed for rail transport.
- ~25km from Trans-Australian rail with connection to bulk ports
- Dry process flow sheet, reducing costs
- High quality iron concentrate with similar characteristics to CEIP



# **Central Eyre Iron Project**



- Mineral Resources sufficient to support long life operation, plant and infrastructure funding requirements
- Premium product for a growing market
  - Typical sinter feed quality is reducing over the long term
  - Iron Road will provide consistent high quality concentrate to the sinter market
- Building a significant infrastructure business with large catchment area

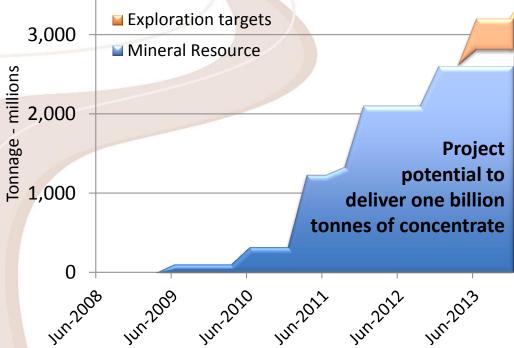


# **One Billion Tonnes of Concentrate**



Significant growing resource base – underpins long life operation

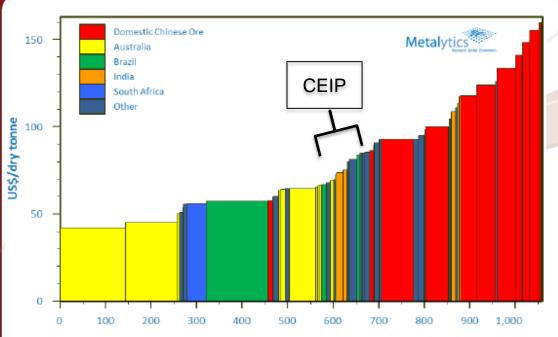
- Current Mineral Resource2.6 billion tonnes @ 16% Fe\*
- Mineral Resource upgrade expected Q2 2013
  - Both increased tonnage and category conversion
- Ultimate Mineral Resource is likely to be at the upper end of the Exploration Target of 2.8-5.8 billion tonnes @ 18-25% Fe\* reported in 2009



\*Full Resource outlined at Appendix, Exploration Target notes at page 2

# 2012 Iron Ore Cost Curve – CFR China





Current indications suggest CEIP position slightly to the right of the 50 percentile – *lower* 3<sup>rd</sup> quartile of today's seaborne iron ore cost curve

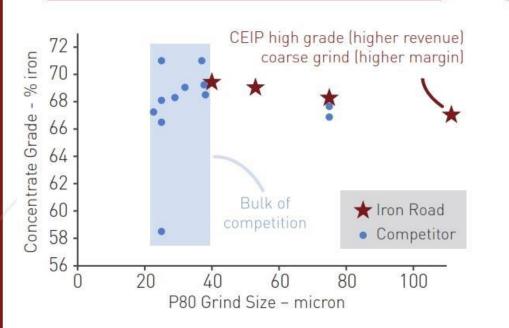
- To be marketed as a high quality sinter blend, with a larger potential market compared to traditional concentrate destinations
- Steel mills indicate CEIP concentrate will be a desirable addition

Cumulative Mt (wet, as delivered)

## **Natural Advantage Leads to Financial Advantage**



#### Premium Grades, Lower Processing Costs



#### High Quality IRD Product Versus Pilbara



# **CISRI Test Work Shows Marvellous Results**



- Bulk test programme at the prestigious China Iron & Steel Research Institute Group (CISRI), Beijing
- Concentrate performs well in both sintering and pelletising
- Product readily substituted for Brazilian Fines, Pilbara Fines or Chinese domestic concentrates
- Replacement of Pilbara Fines lowered fuel level required for sintering
- Substitute also for pellet plant feed highlights versatility
- Results confirm attractiveness and ready acceptance, likely to achieve 14% price differential over Pilbara fines



# **Economic and Competitive Advantages**





## Mining Low strip ratio of 0.8:1

# Processing

Common and proven mechanical process

Significantly shorter than Pilbara and Brazilian routes

Rail



Sheltered, deep location with short jetty = reduced capital cost

# **Deep Water Port**

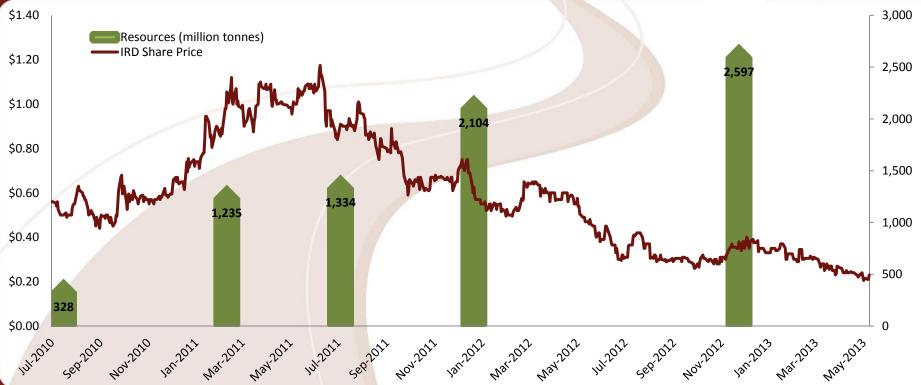


- Cape Hardy offers sheltered, deep water with no dredging or breakwater required
- 1.6km modular jetty/wharf structure
- 30Mtpa capacity at commissioning
- Handymax, Panamax and Capesize capable
- 1100ha land secured, potential third party access
- Easy and cost effective expandability
- Will be the first Capesize port in South Australia



# **Resource Growth vs Share Price**





# **Does the World Need More Iron Ore?**





#### **Demand Growth Continues**

- China's average daily crude steel output hit a record high late April 2013
- China expected to produce over 1 billion tonnes of steel per year by 2030



## New Mines Required to Service Existing Demand

- Majors "smoothing" additional production
- Room for new parties remains



#### Product Quality in Global Decline

- Hematite DSO grades in long term decline
- Emerging quality gap



#### Rest of the World still to come

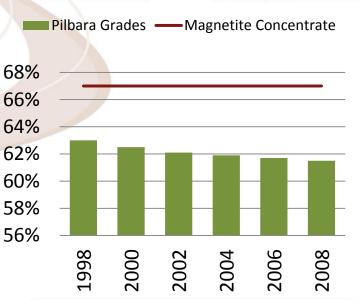
- European and US economies will eventually recover
- Many still to come India, Africa

**DEMAND GROWTH REMAINS ROBUST – ADDITIONAL SUPPLY STILL REQUIRED** 

# Magnetite

Iron Road

- The "dirty word" of the Australian iron ore industry
- Reputation impugned by DSO incumbents and failures of project management, not necessarily geology
- Not all ores are created equal difficult to process WA's banded iron formations are not necessarily representative of the global magnetite sector
- DSO grades continue to fall product quality gaps continues to widen and will only increase
- Significantly more energy efficient, less carbon intensive in the steel making process
- Increasing market need for magnetite producers



Magnetite concentrate is a consistent premium product as DSO grades fall

# **Community and Stakeholder Engagement**





- Iron Road is committed to earning its place in communities in which we operate
- Investing in local social infrastructure major sponsor and supporter of local community events
- Extensive community programmes in place now expanding to include infrastructure areas
- Development will bring many opportunities to the region

# The Future for Iron Road



Gawler scoping study in progress, potential for early cash flow Resource upgrade imminent – extra tonnes, increased confidence

CEIP definitive feasibility study due December 2013

Strong government support at all levels

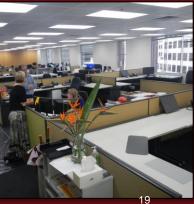
Port site of national significance secured



# **On the Road to Production**

Subscribe to alerts online www.ironroadlimited.com.au







# Appendices







# **CEIP Competitive Advantages**



	Resource Quality	Infrastructure	Political Risk	Proximity to Markets		
<b>CEIP</b> (South Australia)	Long life and easily upgradable, producing consistent high quality product	Viable solution to fill infrastructure void	Very low. Government support to stimulate greater industry activity	Favourable		
Competing Proposals						
Western Australia	Available deposits have sub par iron grades – well below 62% iron benchmark	Constrained and non-viable port development options	Low, though greater regulatory impediments and higher royalties	Favourable		
Brazil	Generally high quality	Increasing challenges in getting product to port	High. Permitting delays and increasing "green" tape/risk	Unfavourable – higher shipping costs to growth markets		
Canada	Mixed. Difficult operating environment	Problematic, long distance rail	Increasing – new tax/royalty uncertainty	Unfavourable – higher shipping costs to growth markets		
West Africa	Generally high, but isolated/stranded	Challenging, long distance rail	Very high	Unfavourable – higher shipping costs to growth markets		

# **Board & Management**

2012 was a year of transformation in preparation for execution of our strategy.

à	Peter Cassidy	Non-executive Chairman				
Boar	Julian Gosse	Non-executive Director				
	lan Hume	Non-executive Director				
	Jerry Ellis	Non-executive Director				
	Leigh Hall AM	Non-executive Director				
	Andrew Stocks	Managing Director				



Management	Larry Ingle	General Manager
	Alan Millet	Infrastructure Manager
	Aaron Deans	Project Manager
	Fop Vanderhor	Project Manager, Gawler
	Jeff Reilly	Marketing Manager
	Laura Johnston	Regulation & Approvals Manager
	Lex Graefe	Chief Financial Officer
	Milo Res	Geology Manager
	Nicole Semler	Metallurgy Manager
	Peter Bartsch	Study Manager
	Sharon Schumacher	Project Controls Manager
	Simon Telford	Commercial Manager
	Steve Green	Environmental Manager
	Tim Elmer	Mining Manager

# **CEIP Resource Statement**



Central Eyre Iron Project Global Mineral Resource Estimate								
Location	Classification	Tonnes (Mt)	Fe (%)	SiO <sub>2</sub> (%)	Al <sub>2</sub> O <sub>3</sub> (%)	P (%)	LOI (%)	
Murphy South	Indicated	1,108	16.0	53.2	12.9	0.08	0.4	
	Inferred	668	16	53	13	0.08	1.3	
Boo-Loo	Inferred	328	17	52	12	0.09	2.1	
Rob Roy	Inferred	493	16	54	13	0.08	0.4	
Total		2,597	16	53	13	0.08	0.8	

The Murphy South and Boo-Loo mineral resource estimates were carried out following the guidelines of the JORC Code (2004) by Coffey Mining Ltd.