



Carpentaria Exploration Ltd Update

AGM Oct 18th

We find it. We prove it. ***We make it possible.***



Carpentaria



We Find It



We Prove It



We Make It Possible

Aim :

Discover, Develop and Mine mineral resources to grow shareholder value and fund further discoveries in Eastern Australia

Abilities :

Strong geoscientific and engineering team

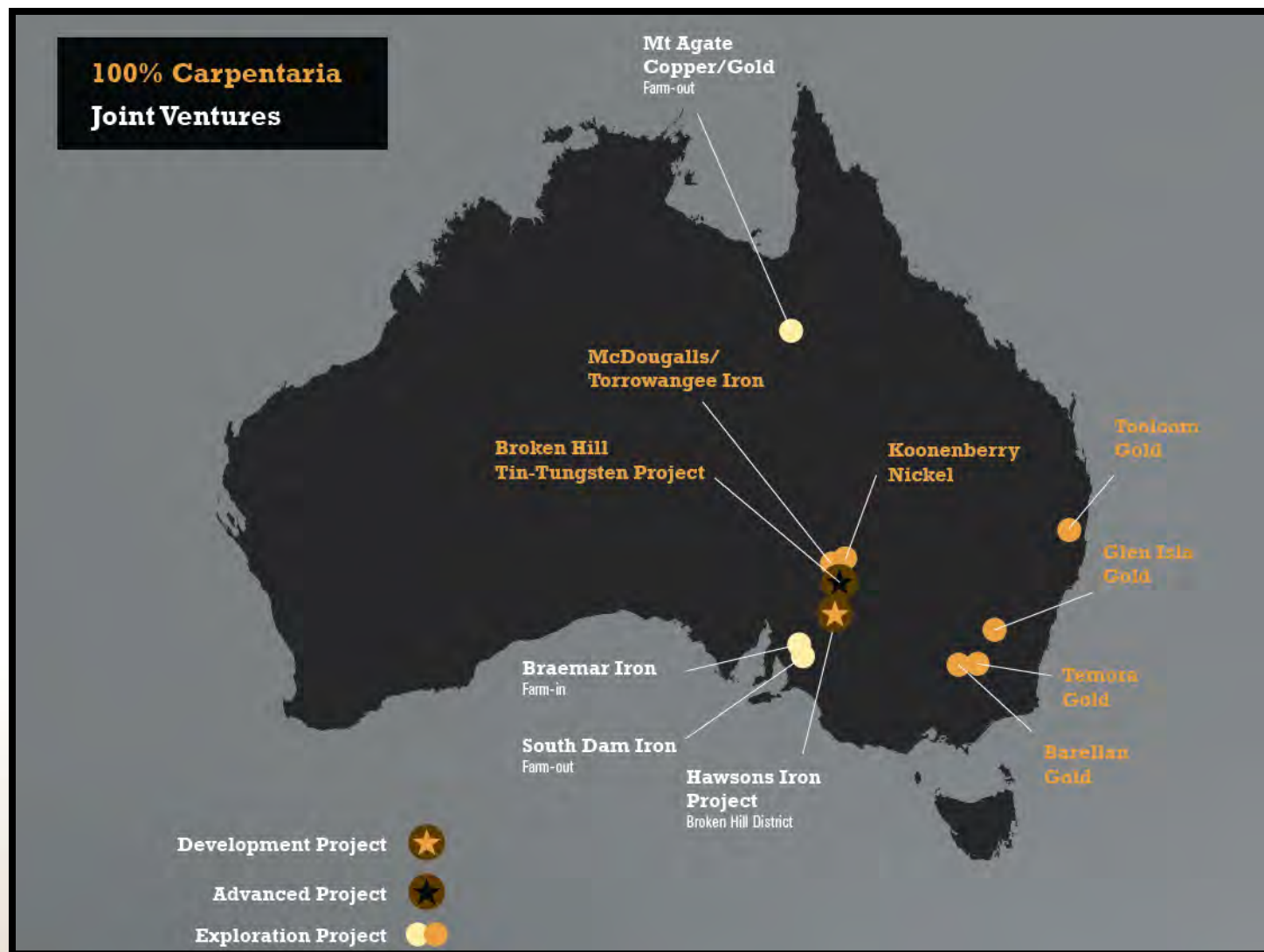
Track Record :

- Established Resource at Hawsons
 - ✓ Positive PFS released
- Tin / Tungsten near Broken Hill
 - ✓ Tungsten Resource
- Gold – Lachlan Fold Belt
- Continue turn over EL's

Carpentaria Exploration

We find it. We prove it. We make it possible.

Carpentaria Current Projects



Carpentaria Exploration

We find it. We prove it. We make it possible.



Company Snapshot October 16th

ASX : CAP

FINANCIAL 16th Oct 2012

Cash A\$5.8 million

Share Price and Volume 12 months

QUOTED SECURITIES

105,991,301 shares

LARGEST SHAREHOLDERS

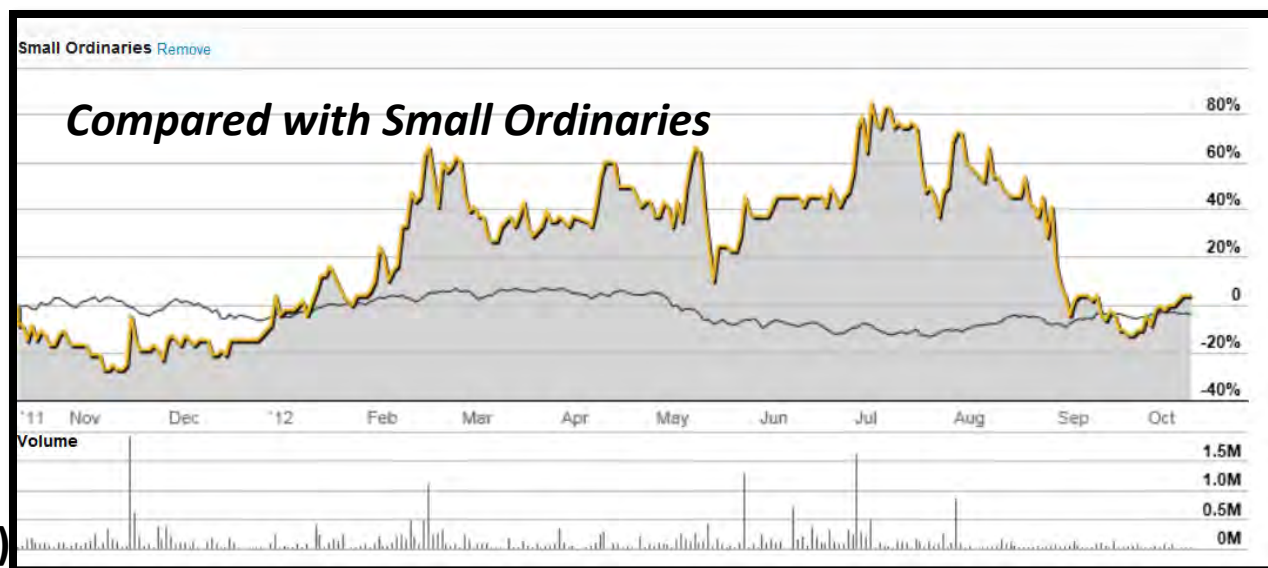
Silvergate : 17.79%

Aust' Conglin Int' Inv' : 10.6%

Conglin Yue : 3.7%

**Directors &
Management**

(inc' unlisted Options : 13.31%)



INVESTMENTS

**2.2 m Guildford Coal Ltd fully paid
shares ~ value \$1m 16th Oct**

KEY ASSET

Hawsons Iron Project JV – Carpentaria 60%

Carpentaria Exploration

We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

Largest Magnetite Project in NSW



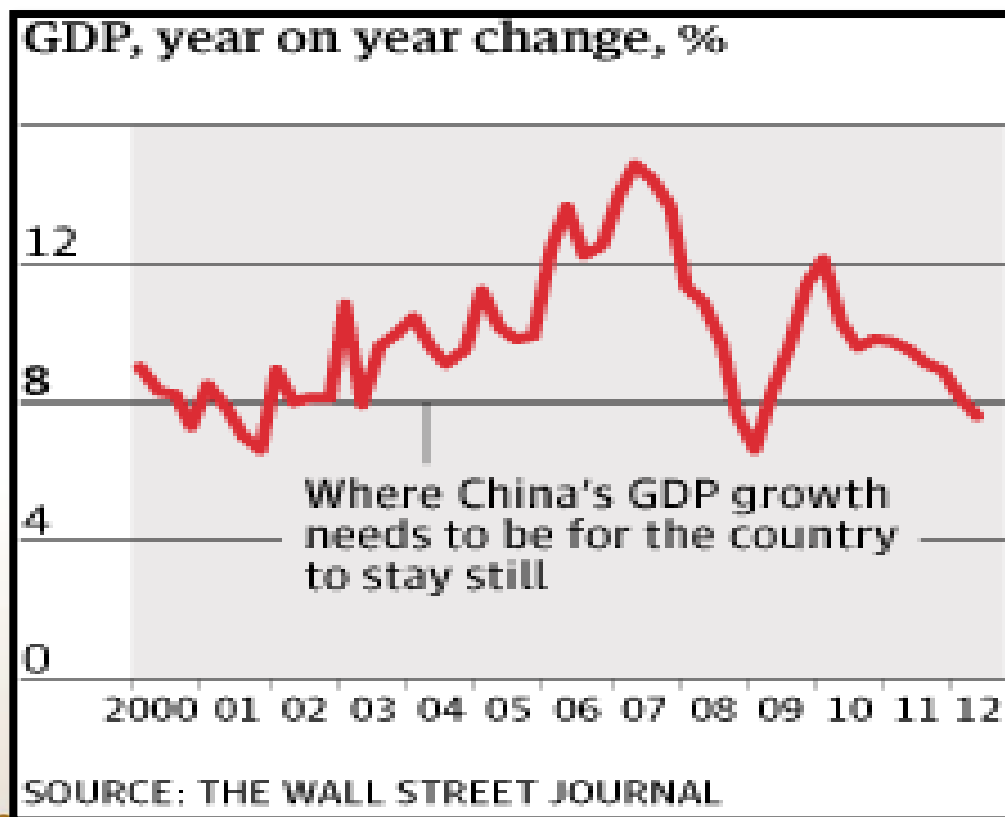
Carpentaria Exploration

We find it. We prove it. We make it possible.

Is Iron Still Worth It ?

In the News :

➤ China slow down :



The Chinese economy was expected to grow 7.8 per cent in 2012 and 8.2 per cent in 2013, the IMF said.
Oct 9th AAP

This is a very good slow down !
Will still require Iron

Is Iron Still Worth It ?

In the News :

- Iron price reduction
 - Hematite producers reducing project expenditure

Legend

BHP

RIO

FMG – Fortescue Metals

AGO – Atlas Iron

MGX – Mt Gibson

GRR - Grange Resources

BCI - BC Iron

CAP – Carpentaria Exp'

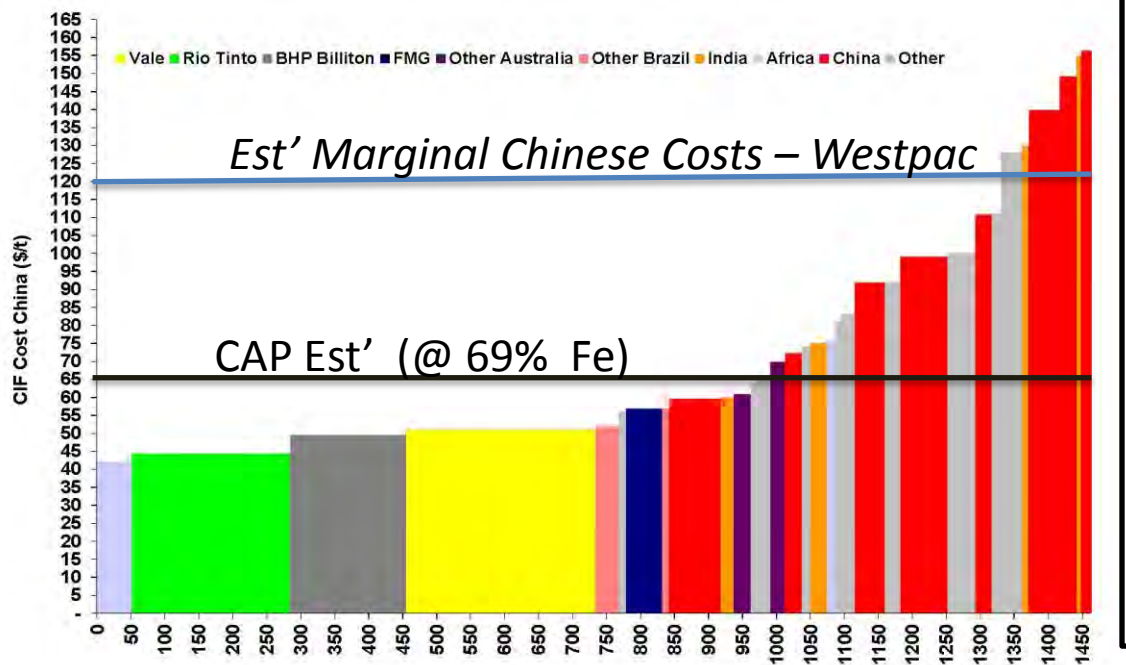
Revenue Calculation (@ spot)		RIO	BHP	FMG	AGO	MGX	GRR	BCI	CAP
Iron ore fines price - 62% Fe	US\$/dmt cfr	93	93	93	93	93	93	93	93
deduct freight	US\$/t	(7)	(7)	(7)	(10)	(22)	(22)	(7)	(15)
Iron ore fines price - 62% Fe	US\$/dmt FOB	86	86	86	83	71	71	86	78
Fe%		62%	62%	58%	58%	61%	66%	57%	68%
Adjust to Fe content	US\$/dmt FOB	0	0	(6)	(6)	(1)	4	(7)	9
Quality adjustment	%	0%	0%	5%	5%	0%	0%	5%	0
Quality adjustment	US\$/dmt FOB	0	0	(4)	(4)	0	0	(4)	0
Rec'd price	US\$/dmt FOB	86	86	76	73	69	74	75	87
Moisture	%	6.0%	6.0%	9.0%	7.5%	3.0%	5.0%	8.0%	9%
Adjust for moisture	US\$/mt FOB	(5)	(5)	(7)	(5)	(2)	(4)	(6)	(8)
Pellet premium (for GRR)	US\$/wmt FOB						25		
Rec'd price	US\$/wmt FOB	80	80	69	67	67	96	69	79
Rec'd price	A\$/wmt FOB	77	77	66	65	65	92	66	77
Costs									
COGS guidance	A\$/wmt FOB	26	33	45	66	59	95	50	41
royalties	%	7%	7%	11%	7%	7%	5%	7%	10%
plus royalties	A\$/wmt FOB	5	5	7	4	4	5	4	4
Cash Costs	A\$/wmt FOB	31	38	52	70	63	100	54	45
plus D&A	A\$/wmt FOB	7	6	5	13	4	18	2	10
Total Costs	A\$/wmt FOB	38	44	57	83	67	118	56	55
EBITDA Margin	A\$/t	47	40	14	(5)	2	(8)	12	22
EBIT Margin	A\$/t	40	34	9	(18)	(2)	(26)	10	32

Source: Company filings and UBSe.

Note : Carpentaria's costs are estimated at \$50FOB (dry) in its PFS. However wet, they are reduced by 9%.

Is Iron Still Worth It ?

Supply curve to Chinese market for iron ore fines



Macquarie Research Aug 2012

Implications – all in US\$:

- Probable Future Base cost for 62% \$120/t
- CAP will realise a premium (69% Fe)
- Hawsons very profitable at \$120/t (62% Fe)

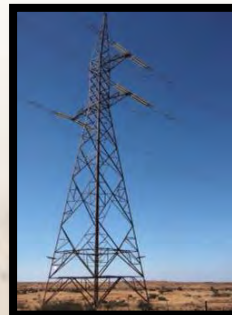
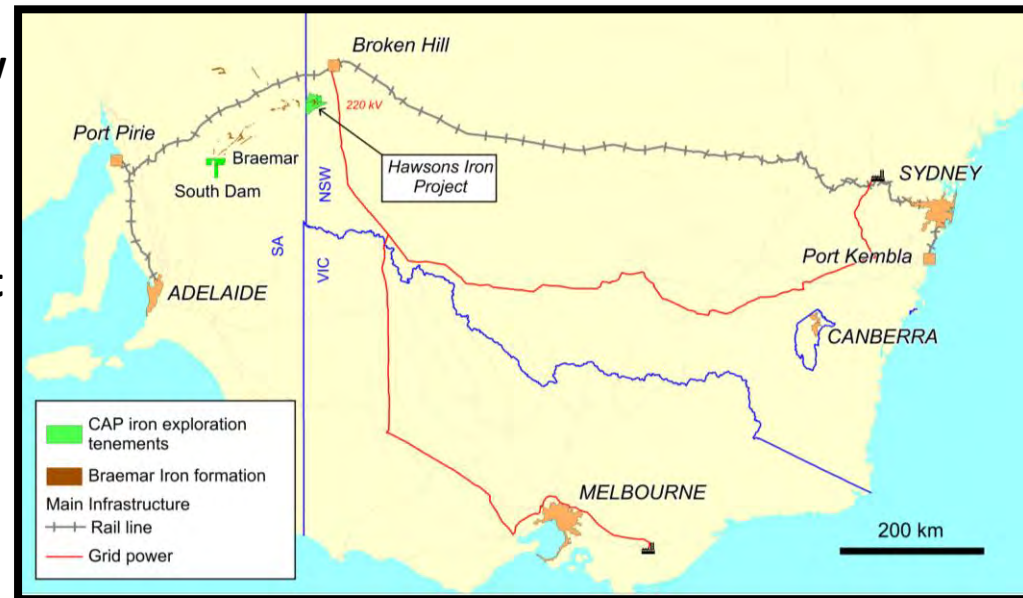
HAWSONS IRON PROJECT

Largest Magnetite Project in NSW



- **Resource** – very large with potential for 50 year plus mine life
- **Mining** – very low unit costs because low strip ratio, very wide mining widths, low abrasion index and single pit
- **Processing** - comparatively very low cost because of very soft mineralised rock
- **Infrastructure** – water, power, transport and port all available for start up
- **Approvals** – low hurdles compared with other projects

Native Title has been extinguished



Carpentaria Exploration

We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

Maiden Resource / Exploration Target¹



JORC Inferred Resource (12% DTR cut off)

1.4 billion tonnes at 15.5% mass rec.

220 million tonnes of concentrate

69.9% Fe; 2.50% SiO₂; 0.22% Al₂O₃; 0.002 P₂O₅

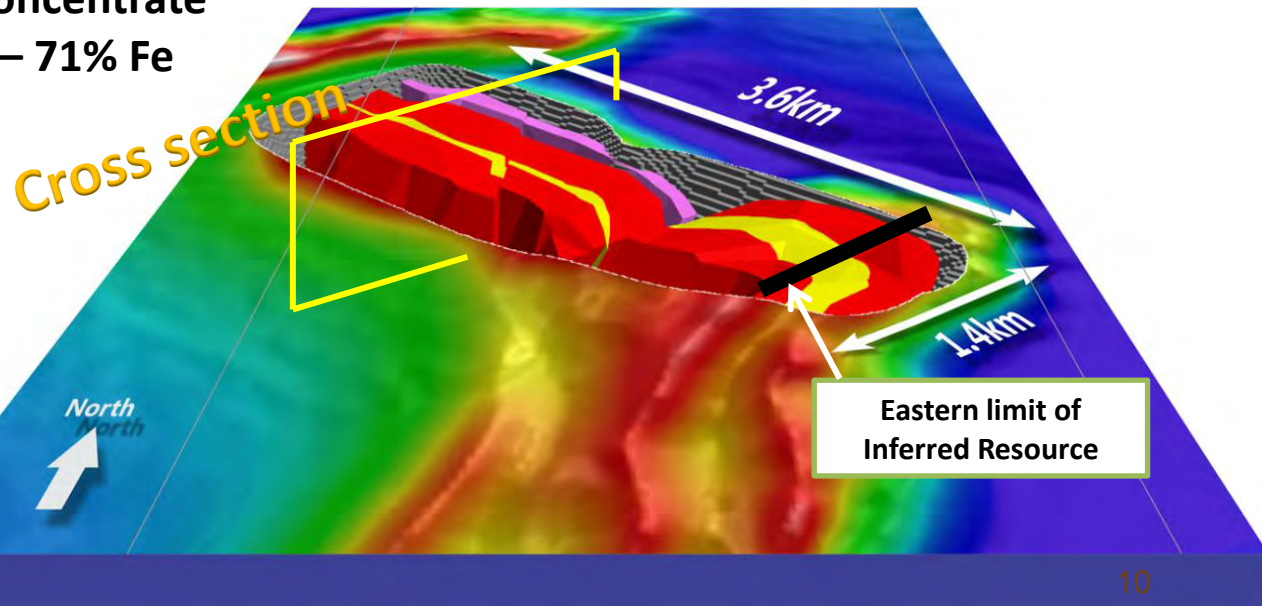
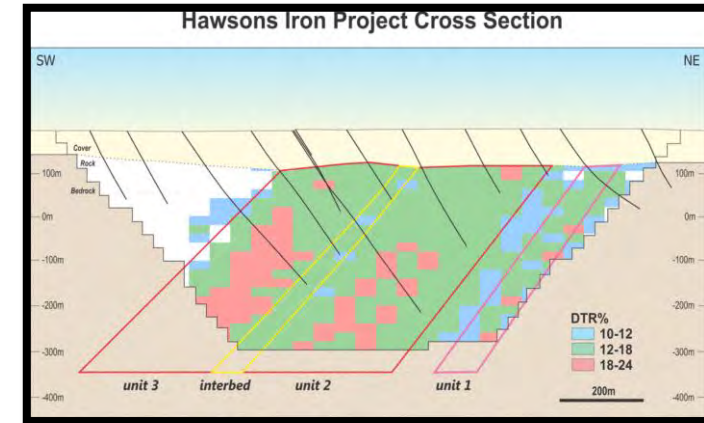
Exploration Target¹

6 to 11 billion tonnes

900-1,900 million tonnes of concentrate

DTR 14-17%, Con' Grade 69 – 71% Fe

¹ The potential quantity and grade of the exploration targets is conceptual in nature and there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource. (DTR is Davis Tube Recovery)



Hawsons

At 15.5% DTR - Why Does it Work ?



The Value at Hawsons :

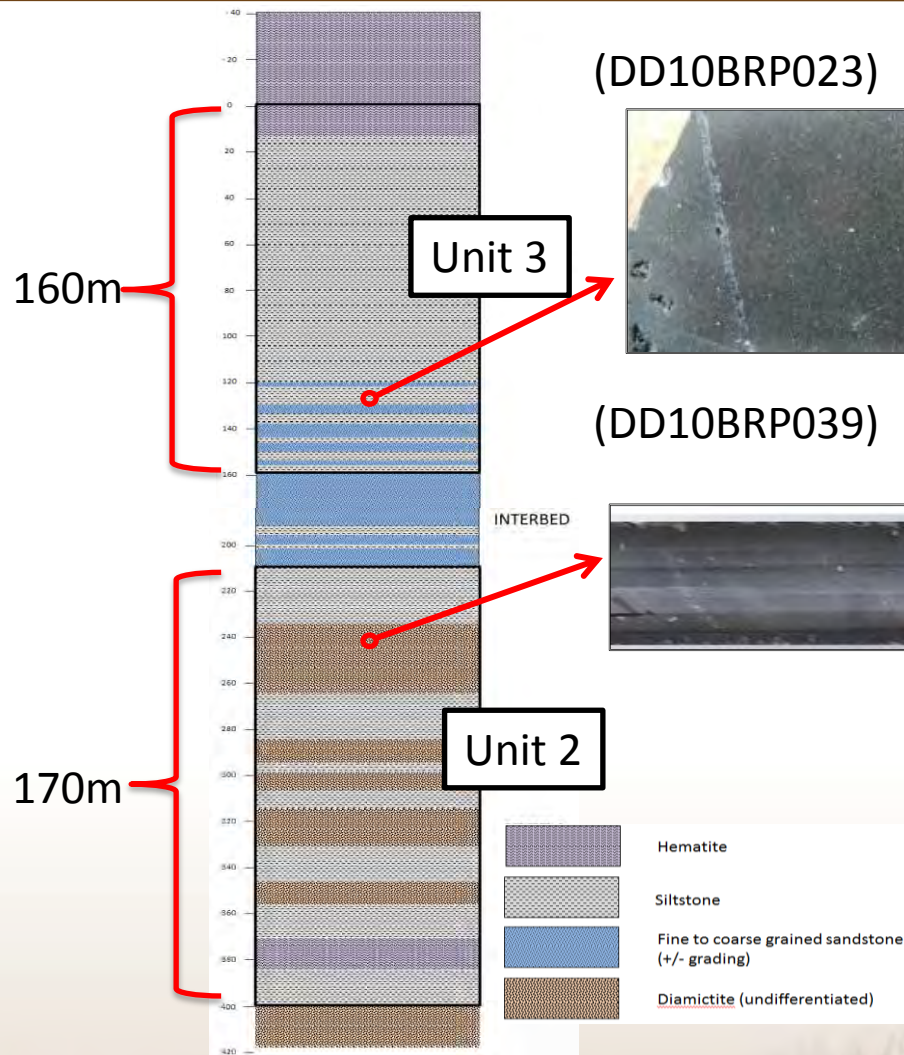
1. Low waste to Ore ratio (0.3:1)
 - Mining costs low - not mining too much waste
2. Large mining widths and single pit to year 20
 - Mining costs low – thick consistent Fe units
 - Large and easy to move material – in pit crushing and conveyancing
 - Minimising truck usage – lower OPEX
3. Soft Ore
 - Lower mining costs (compared to BIF's)
 - Lower grinding (processing costs)
 - Reduce CAPEX
4. High grade concentrate will low contaminants
5. Infrastructure
 - Power, water, rail, mining community
 - Port availability

Carpentaria Exploration

We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

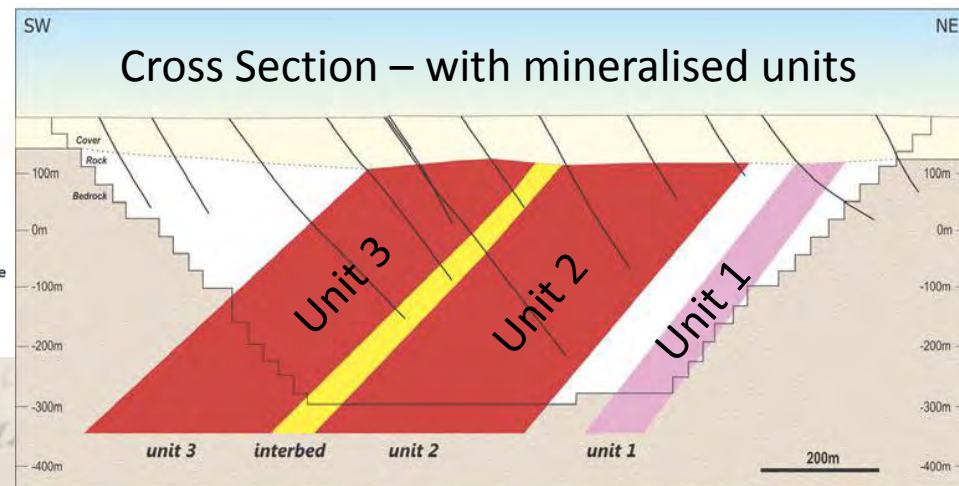
Value - Geologically Consistent



True Thickness 400-500m

Composition

- Magnetite
- Quartz
- Carbonate
- Chlorite/biotite
- Hematite

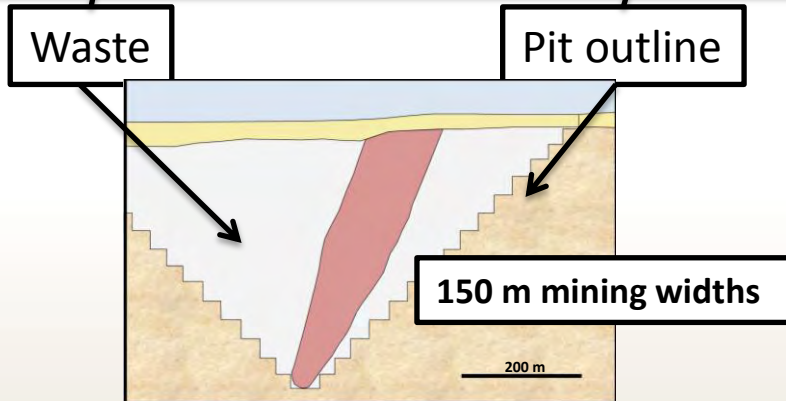
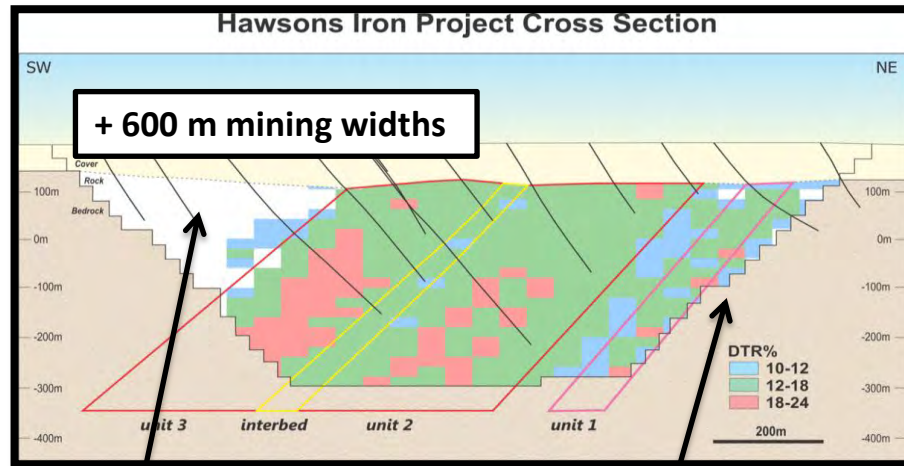


Carpentaria Exploration

We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

Why Does it Work ? low Waste : Ore



Example at same scale

Carpentaria Exploration

We find it. We prove it. We make it possible.

Waste to ore 0.3 : 1, 15.5% DTR

Mine 130t material to produce 100t of ore

100t ore gives 15.5t of concentrate

8.4 t material moved
produces 1 tonne concentrate

Example of a WA style BIF deposit

Waste to ore 2.3: 1, 36% DTR

Mine 330t material to produce 100t of ore

100t ore gives 36t of concentrate

9.2 t material moved
produces 1 tonne concentrate

HAWSONS IRON PROJECT

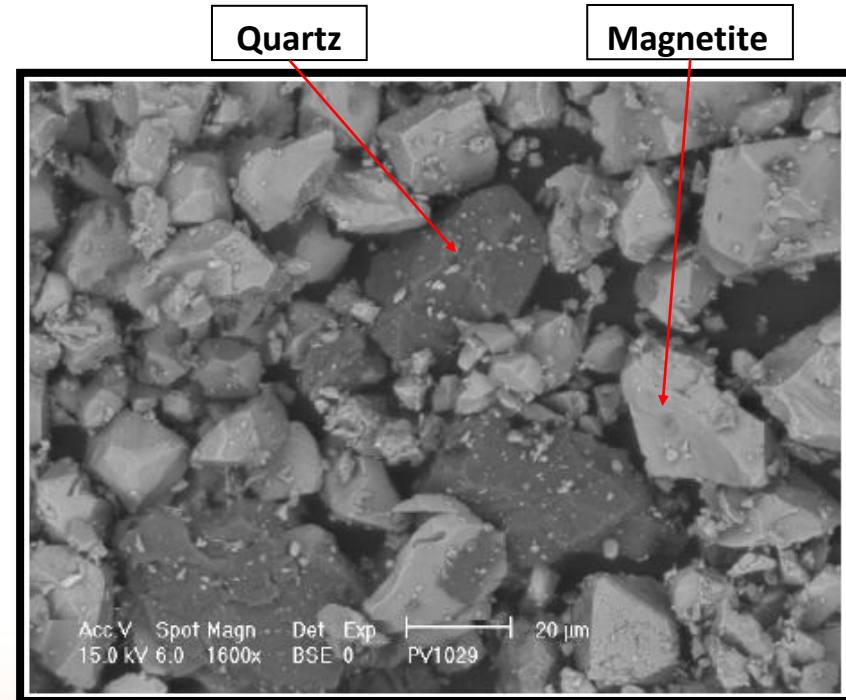
Why Does it Work ? – Soft Ore



Unique Metallurgical Characteristics :

- Low bond work index of 6 - 8 kWh/t
(BIF's ~ 15 – 30 kWh/t)
- Low abrasion index ~ 0.09
(BIF's ~0.3 – 0.7)
- Rock Strength (UCS) 50 – 90 Mpa
(BIF's ~ 355 Mpa)

All this shows very soft ore



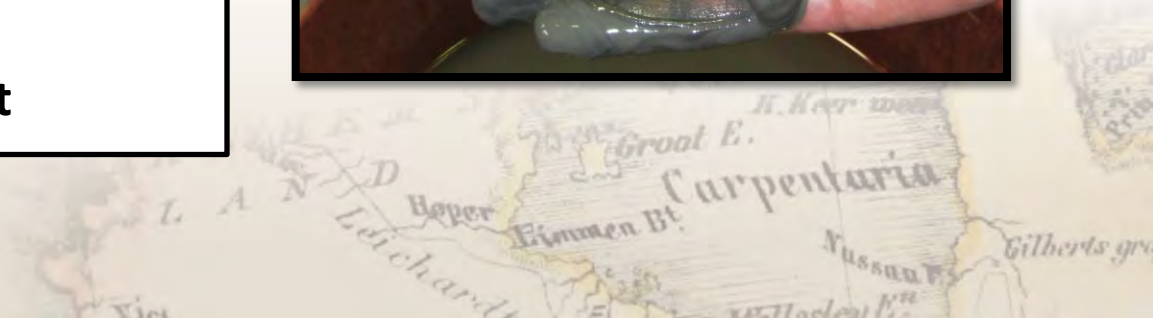
Rock breaks into grain size

HAWSONS IRON PROJECT

Why Does it Work ? – Easy to Crush



- **Suitable for Impact Crushing**
 - High reduction ratios – rapid throughput
 - Generates fines early
Saves on secondary crushing
- **Simple Process Flow**
 - Crushing
 - Screening
 - Magnetic Separation
 - Milling
 - Possibly fine Grinding
 - Fine Concentrate
- **Slurry Pipe to Rail / Port**



HAWSONS IRON PROJECT

Pilot Plant - Proof of Concept



Work at HRL Testing Pty Ltd

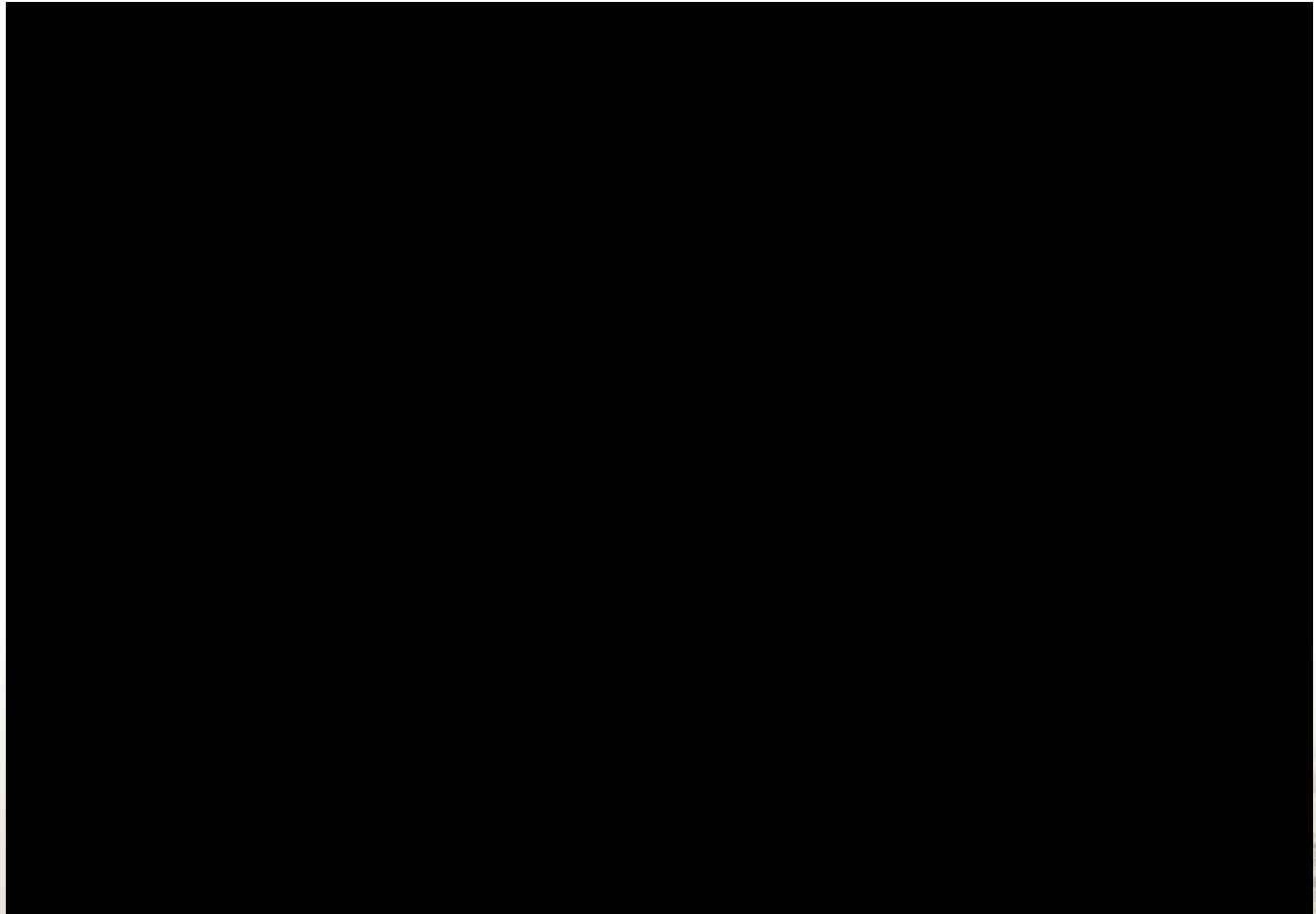
6t core through Impact Crusher

- Decimates the ore
- Fines generated >40% minus 106 micron
- Rougher Magnetic separation
 - Greater than 50% solids rejected – to tails
 - Rougher concentration ~40% Iron
- Ball Milling requirements
 - Less than 50% of ore needs to be milled
 - Milling testwork planned for next week



HAWSONS IRON PROJECT

Why Does it Work ? – Magnetic Separator



Carpentaria Exploration

We find it. We prove it. *We make it possible.*



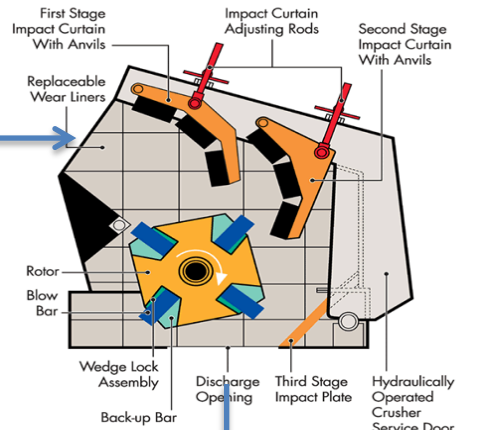
HAWSONS IRON PROJECT

Low Cost Front End Crushing



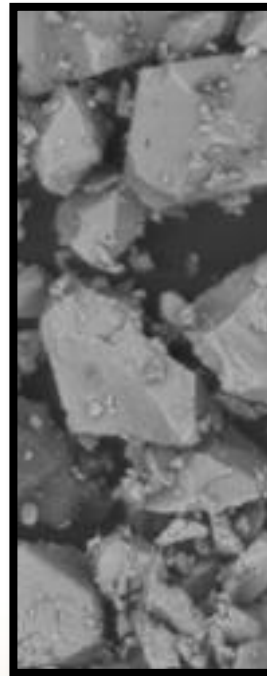
PRIMARY CRUSHING - IMPACT CRUSHERS

HPGR



Feed
<800mm

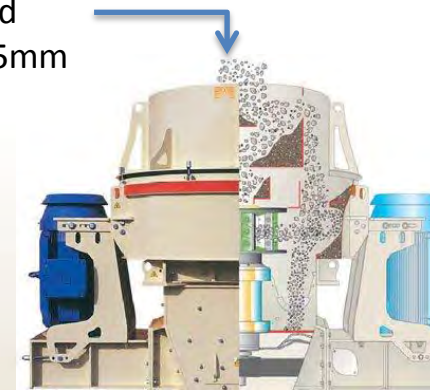
Discharge
<65mm



~40 μ m



Feed
~ 65mm



Discharge
~70% <1mm

HAWSONS IRON PROJECT

Value of Soft Ore – power per tonne concentrate



Hawsons

Grinding costs

Bond Work index : 6 kWh/t

At 15.5% DTR :

39 kWh to produce 1 tonne con'

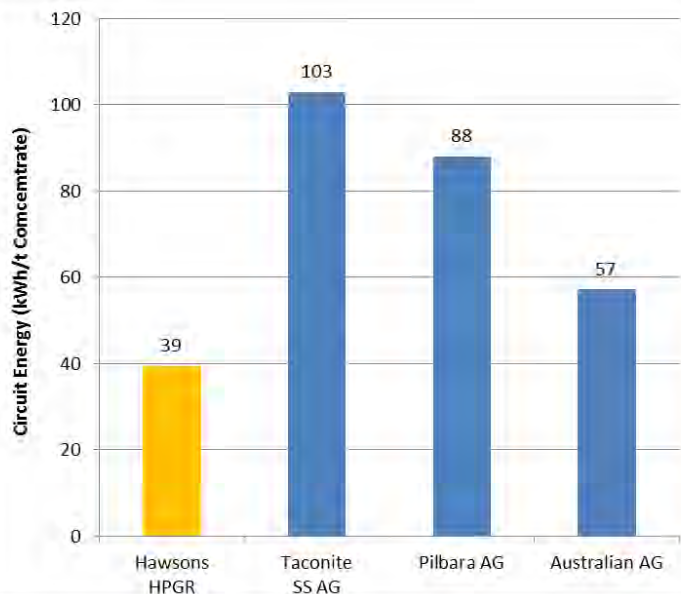
Example of a WA BIF

Grinding costs

Bond Work index : ~ 20 kWh/t

At 36% DTR :

57 kWh to produce 1 tonne con'



Note :

- Power calculations based on public information
- Hawsons costs assuming HPGR / Ball Mill circuit
- Anticipate lower power with impact crushers

HAWSONS IRON PROJECT

Optimization Studies - Processing



Preliminary Costings for a 5Mtpa Crushing Module

Equipment	5Mtpa (equivalent)		Installed Power kW	Estimated Costs M AUD	Option Study 5Mtpa (Anticipated)		Installed Power kW	Estimated Costs M AUD
Primary Crushers	Gyratory	1	1,200	4.5	Impact Crusher	2	2,400	2.0
Secondary Crushers	Cone	2	1,900	7.0	Barmac	5	3,000	2.5
Tertiary Crushers	HPGR	4	16,000	31.2	-	-	-	-
Total			19,100	42.7			5,400	4.5

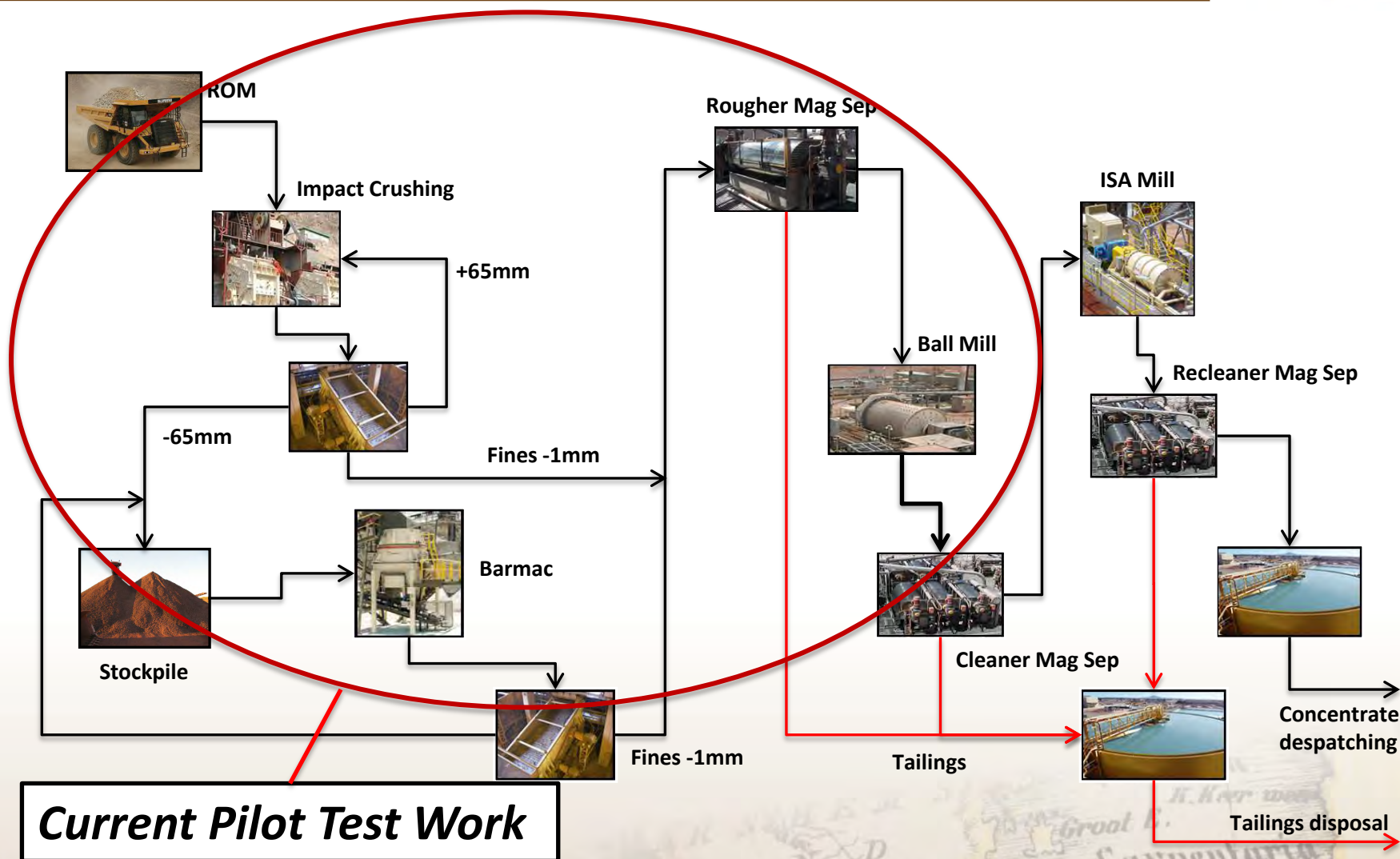
Total Installed Power consumption estimated to be reduced from 173 MW to ~ 143 MW

Estimated Power Reduction of 15 – 20% *

* Reduction not put into PFS, power for entire on site operation at 20Mtpa con. production

HAWSONS IRON PROJECT

Optimization Studies – Simplified Flow Diagram

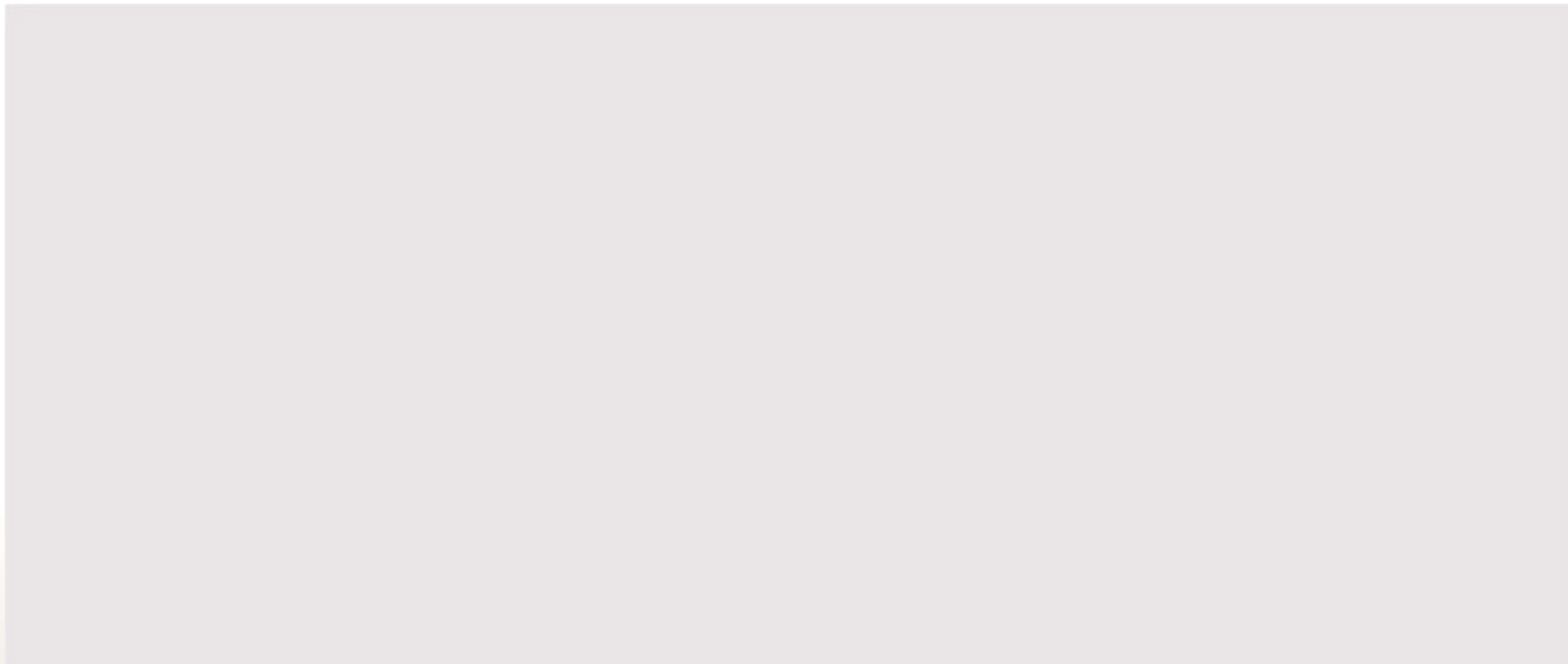


Carpentaria Exploration

We find it. We prove it. We make it possible.

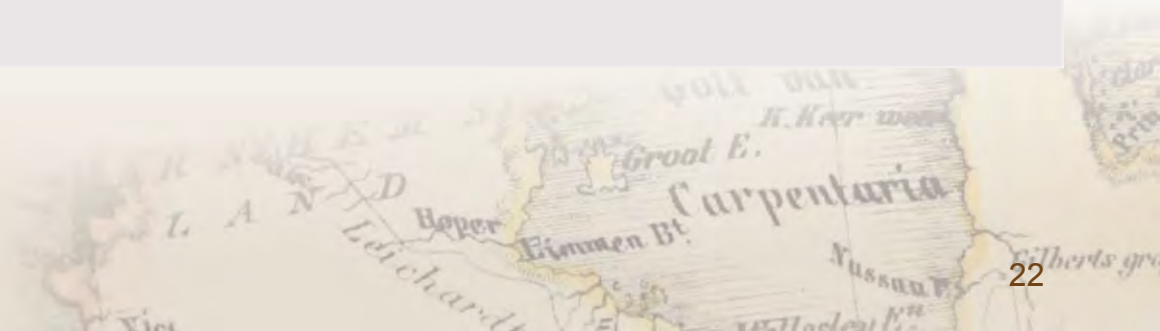
HAWSONS IRON PROJECT

3d Mine Model animation



Carpentaria Exploration

We find it. We prove it. We make it possible.

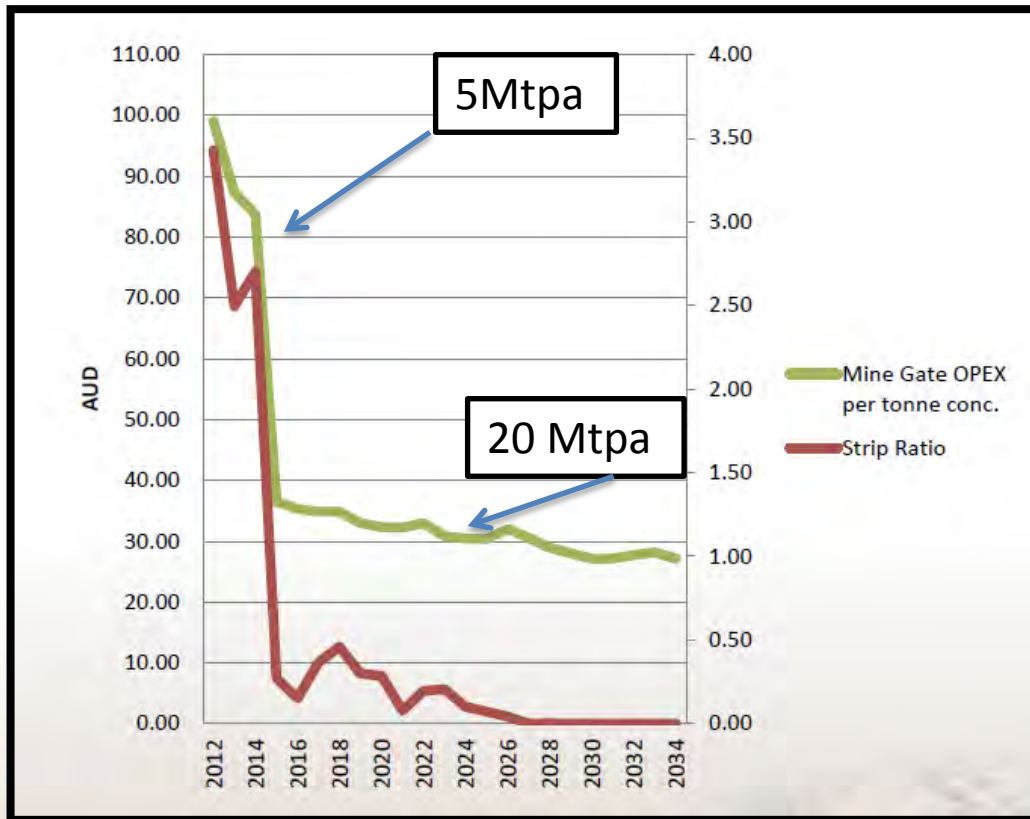


HAWSONS IRON PROJECT

Operating Cost Summary



Operating Costs and Strip Ratio

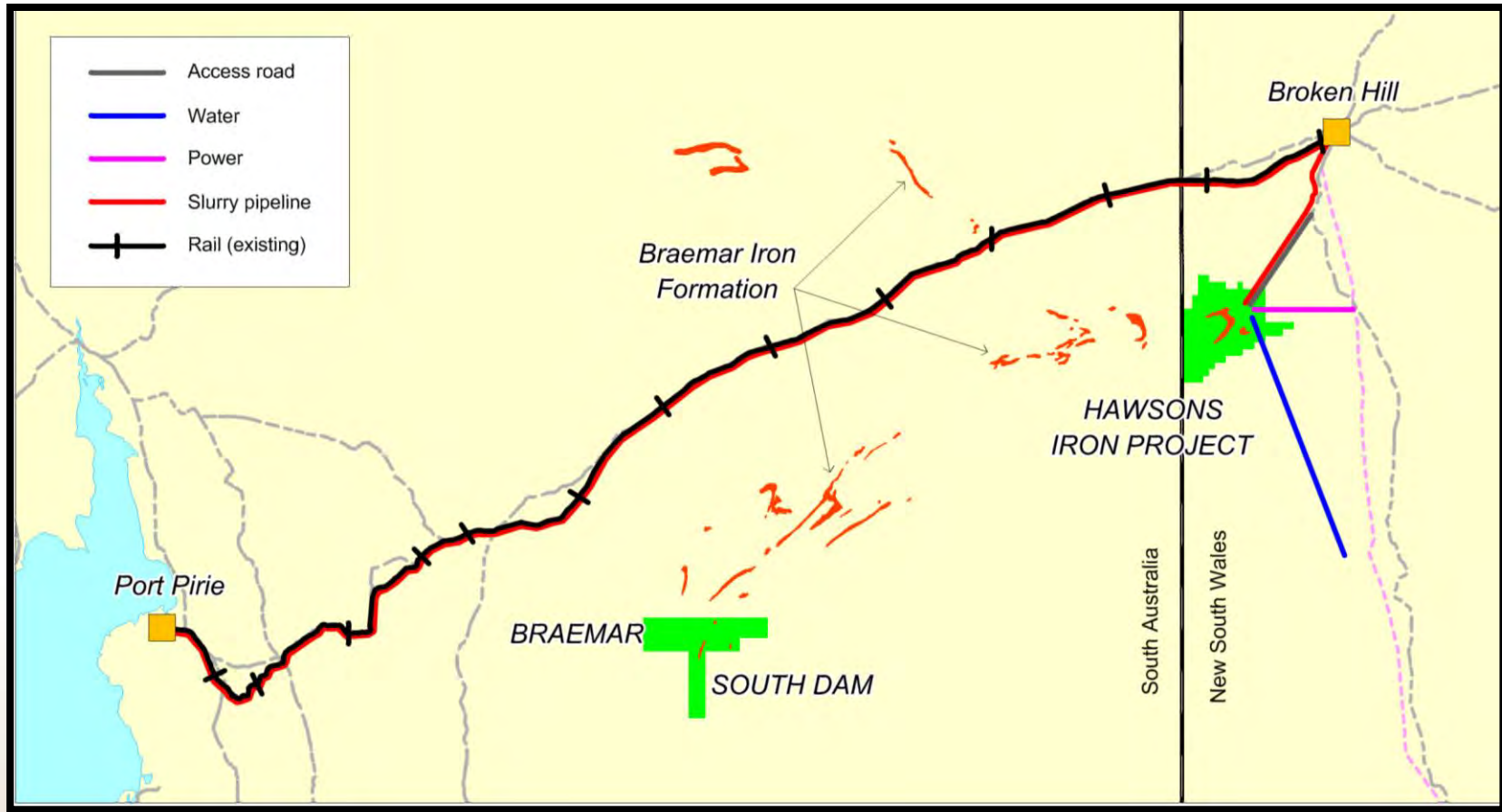


Over Life of Mine :

- Operating costs :
Fall from \$36 to \$27
- Waste to ore Strip Ratio :
Reduce at start of mine
from ~ 0.4 :1 to 0 in
10 years

HAWSONS IRON PROJECT

Transport Options From Site to Port



HAWSONS IRON PROJECT

Pipe Line animation



Carpentaria Exploration

We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

Transport Options – Great Optionality



Recent Developments – March 21, 2012

- MOU signed with Flinders Ports to determine long term handling, storage and loading solution at Port Pirie, South Australia
- Common User Facility for potential to export 20 – 30Mtpa of iron concentrates



Start Up Preference

- Year 1 – 5Mt
 - slurry to Broken Hill , train to Port Pirie
- Ramp up to yr 4 - 20Mt
 - slurry to Broken Hill ,
 - slurry / train to Port Pirie
- 13Mtpa available using existing rail to Port Pirie
- Port capacity available at Port Pirie pending upgrade



HAWSONS IRON PROJECT

Cost Summary



Costs per tonne concentrate	AUD
Mining Costs	\$15
Processing Costs	\$11*
Other (incl' Royalties)	\$8
Transport to and onto Ship	\$13 ^a - 19 ^b
Total FOB Port Pirie	\$47-53

- FOB costs highly competitive (av. Closer to \$60)
- Including transshipping

^a Long term pipeline estimate

^b Rail to Port Pirie estimate

* Not including processing optimization



FOB – Free on board

Carpentaria Exploration

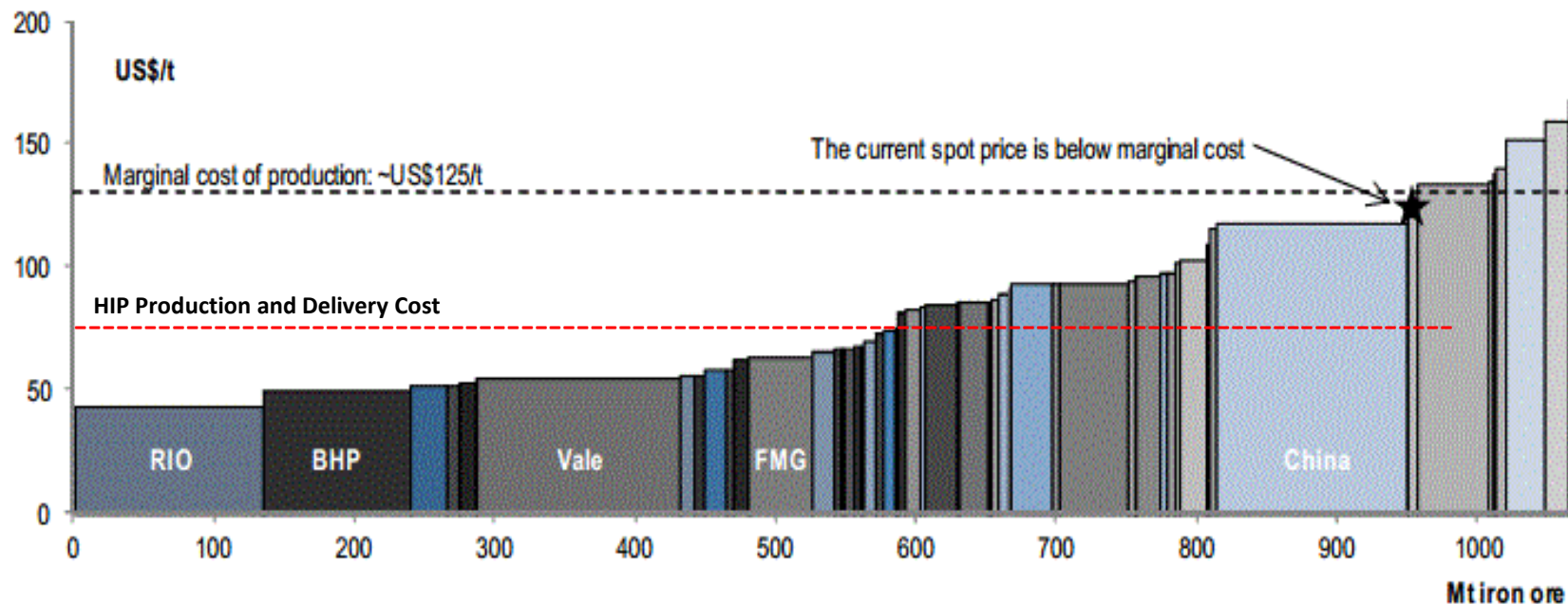
We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

Where We Sit



Figure 2: 2011 iron ore cost curve for delivery to China [US\$/t 62% Fe CFR China]



Source: J.P. Morgan estimates

Carpentaria Exploration

We find it. We prove it. We make it possible.

HAWSONS IRON PROJECT

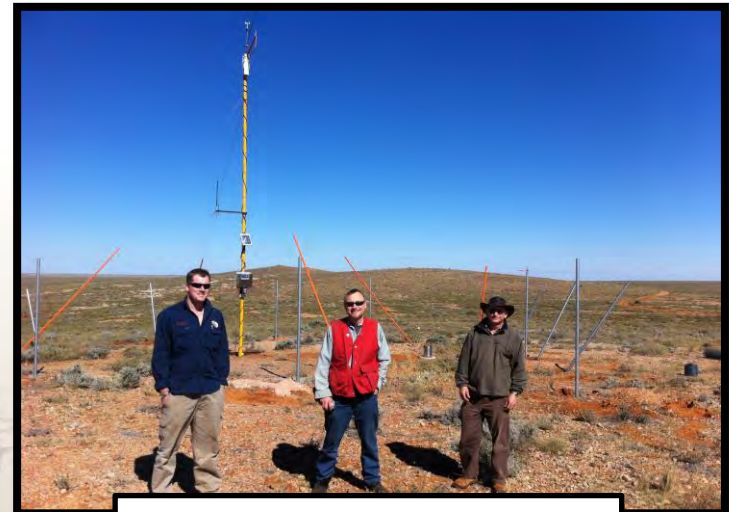
Approvals



- Submitted Preliminary Environmental Assessment (PEA) and Development Application to NSW Govt.
- Planning Focus Meeting
 - Meet with government departments involved with EIS
 - Meeting held today
- Will receive guidelines for Environmental Impact Statement (EIS)
- Entered discussions with TransGrid



Power Lines Near Site



Weather Station on Site

HAWSONS IRON PROJECT

Work Program - Summary



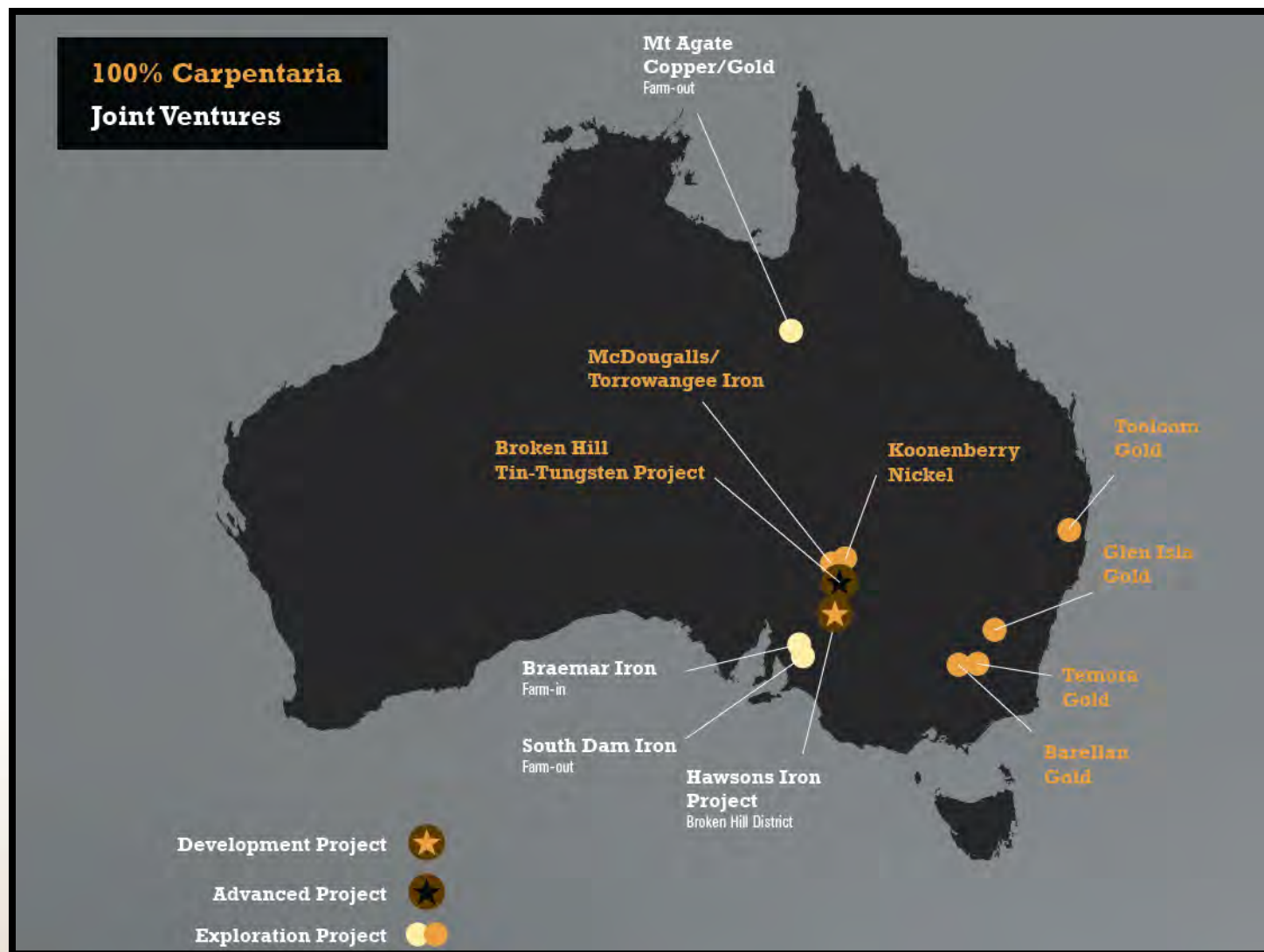
- **Port Pirie Expansion**
 - Flinders Port to complete
- **Metallurgical Testwork**
 - Pilot scale ongoing
- **Transport Studies**
 - Maximise option utility (Slurry/rail)
- **Drilling**
 - Improve resource category
 - Geotechnical testing
 - Metallurgical sampling
- **Statutory Approvals**
 - PEA submitted – Meeting on Oct 18th with Govt



Carpentaria Exploration

We find it. We prove it. We make it possible.

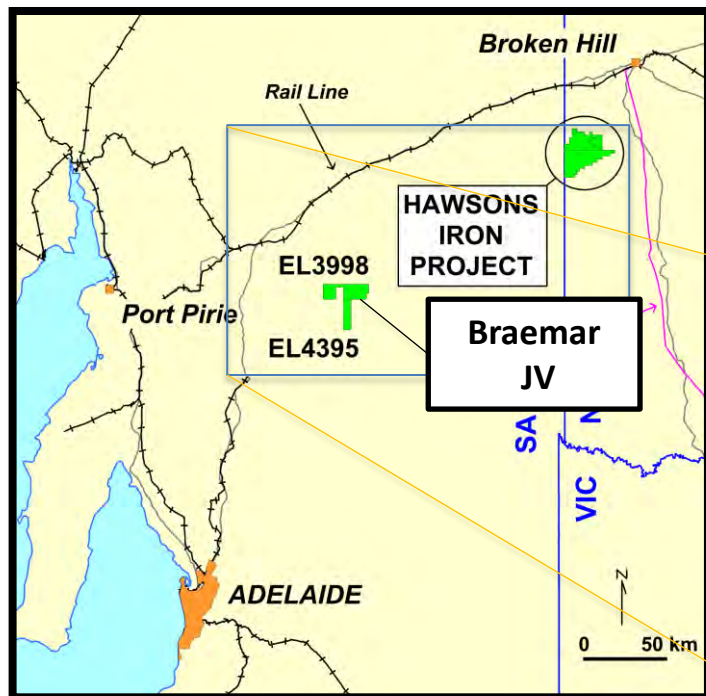
Carpentaria Current Projects



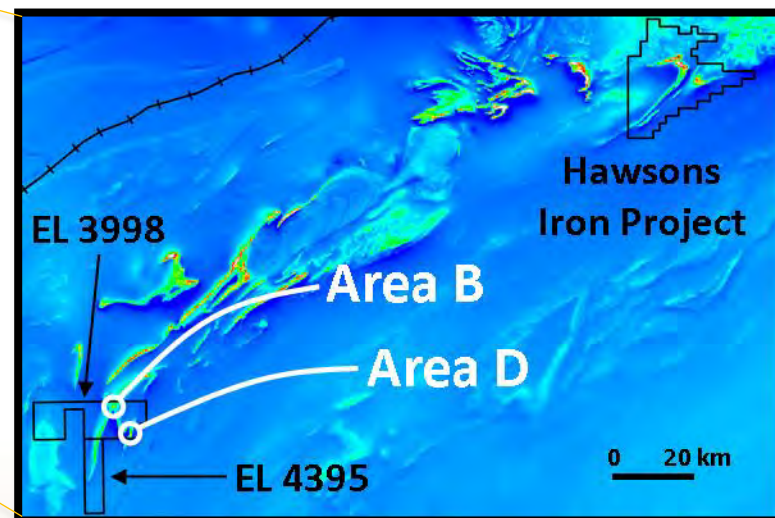
Carpentaria Exploration

We find it. We prove it. We make it possible.

Carpentaria Iron Projects Braemar JV



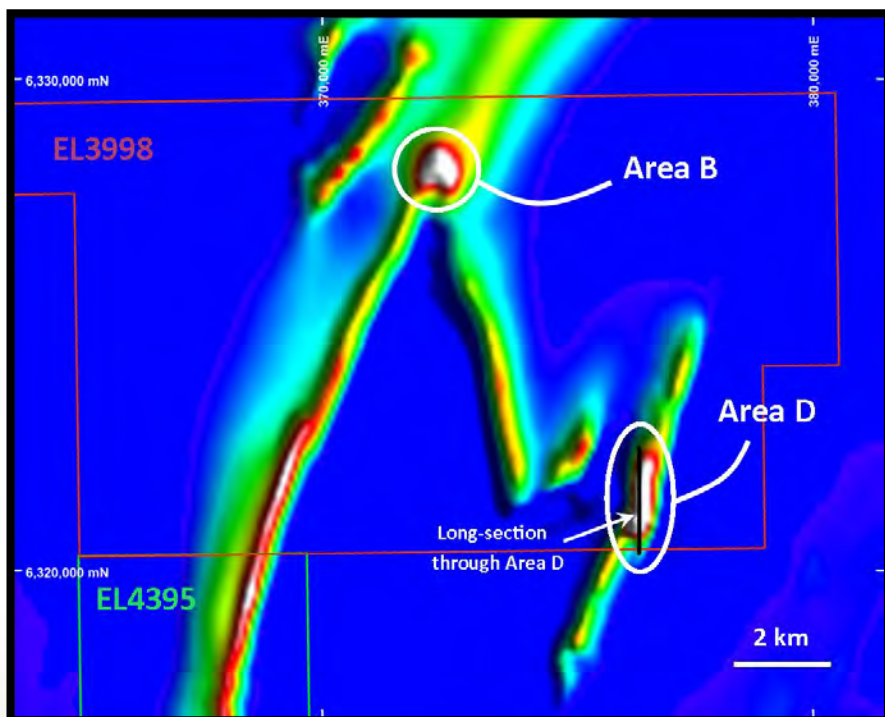
Airborne magnetic image
Green to Red depicts Braemar Iron Formation



Close to Adelaide / Port Pirie
Good transport infrastructure
(Rail and Road)
No Native Title

Tail end of Braemar Iron Formation
EL 3998 ~ 20kms of Braemar
EL 4395 ~ 10kms of Braemar

Carpentaria Projects



Target :

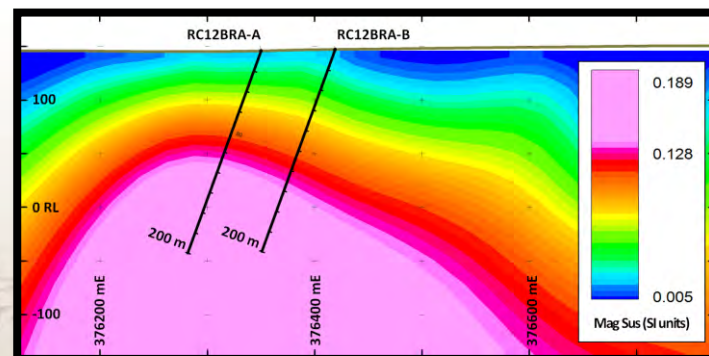
1. High amplitude magnetic anomalies that may represent magnetite

Two zones for test :

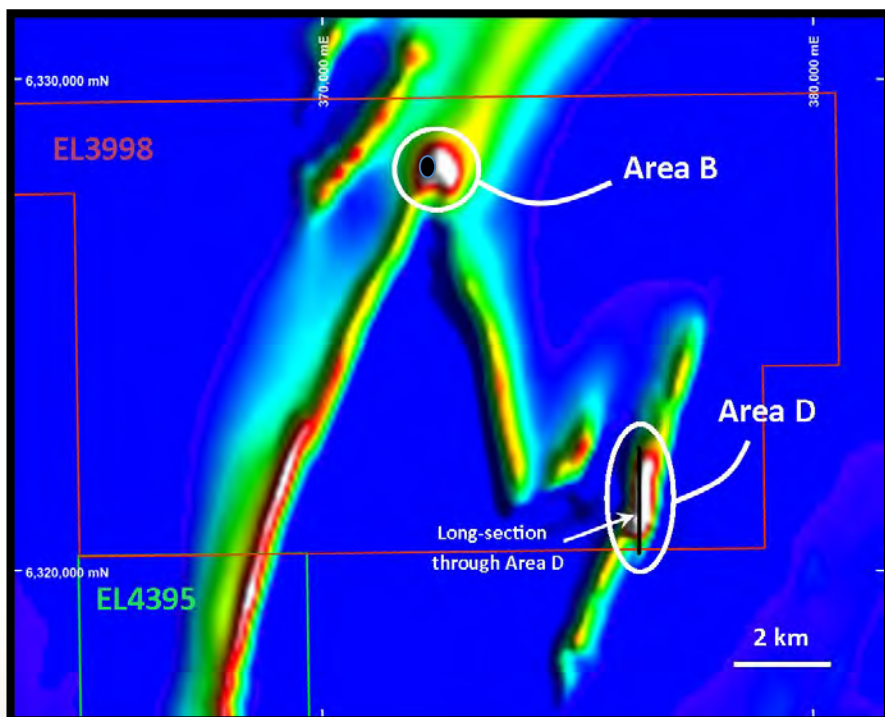
1. Depth of oxidation
2. Quality of magnetite

Drilling started yesterday

Example of magnetic model



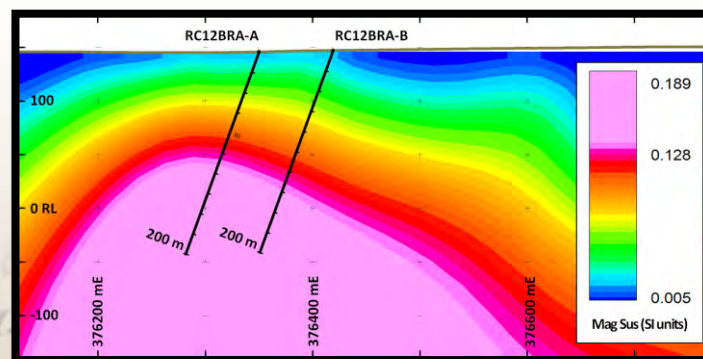
Carpentaria Current Drilling



Initial Drill Results : RC12 BM001

- 0 - 18 m unconsolidated cover
- 18 – 62 m oxidised magnetite siltstone
- 62 – (eoh) 160 m interbedded magnetite siltstone
30,000 SI units

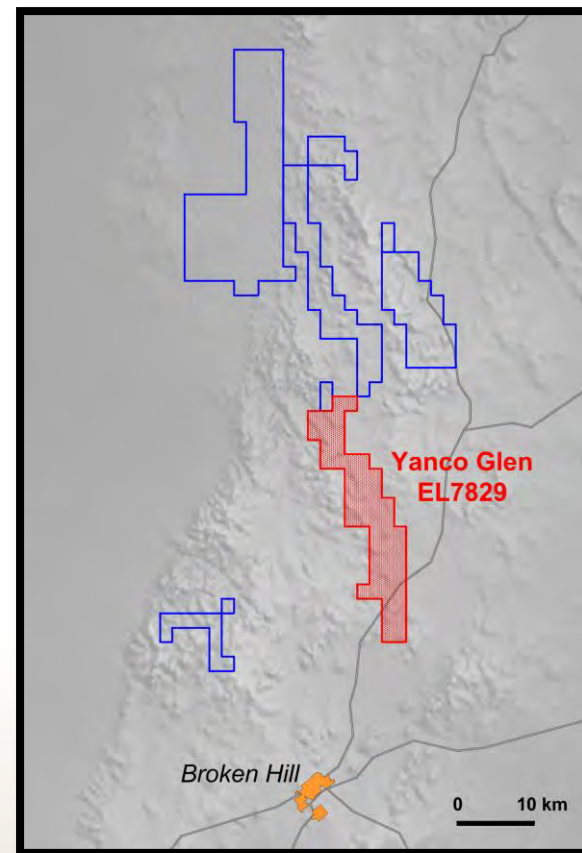
(interpreted to be same as Unit 2
at Hawsons)



Carpentaria Tin Tungsten Projects

Carpentaria's strategic objective :

- close to Broken Hill
- establish a cluster of tin and/or tungsten deposits
- coarse grained surface mineralisation
- easily mined by low cost methods
- processed with a single, centrally located plant
- Produce a tin concentrate and tungsten concentrate using same processing plant



Carpentaria Tungsten Project – Yanco Glen



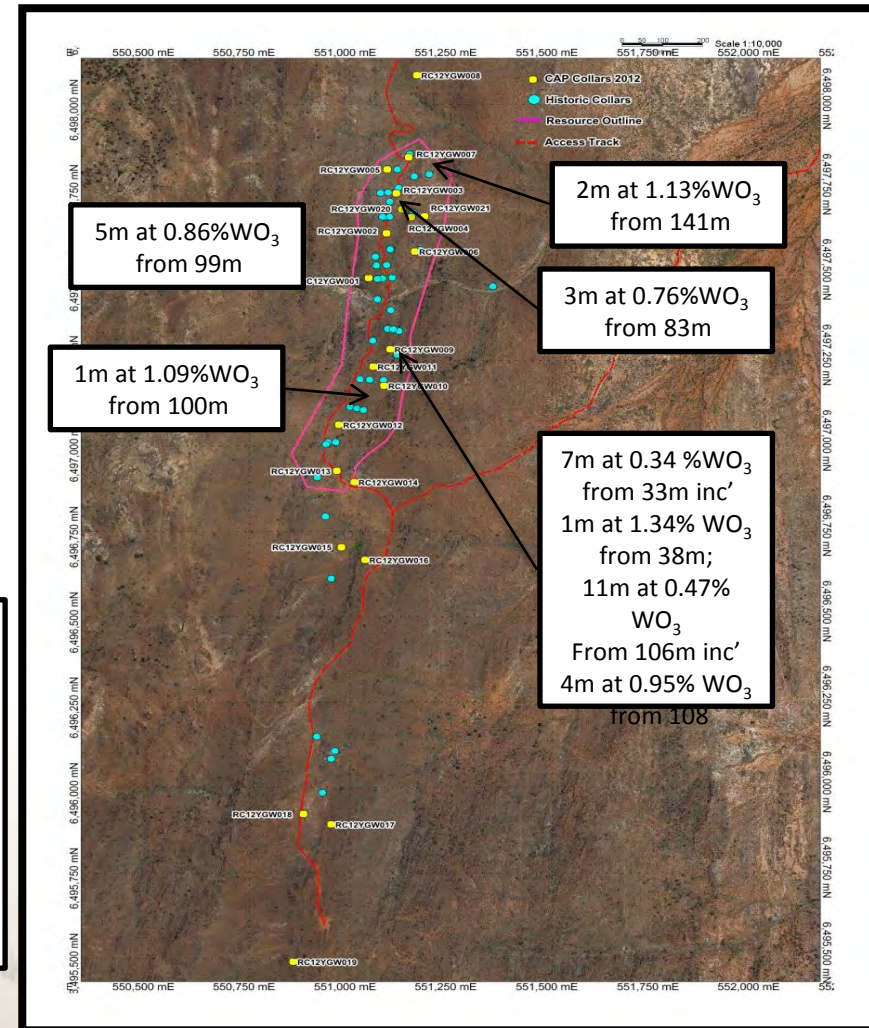
New Inferred Resource

3.4Mt @ 0.11% WO₃
(at 0.05% WO₃ cut-off) containing 3,953t WO₃

Doubled in-situ tonnes of contained metal
(3,950t of WO₃)

Previously published and now superseded
2006 inferred resource of 0.83Mt @ 0.21%
WO₃ or 1,743t of WO₃

- Resource open and depth and along strike
- Will be amenable to open cut mining
- Metallurgical test will commence to establish
 - Concentrate quality
 - Processing techniques inc' ore sorting possibility / beneficiation

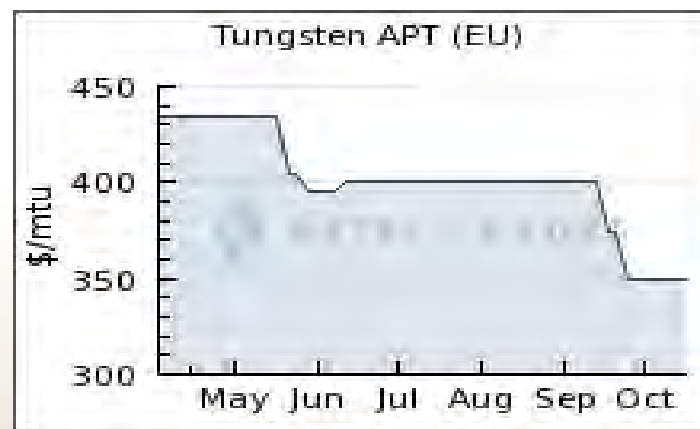


Tungsten Production

- **Historically China controls supply**
 - China dominated in '80 & '90's
 - Chinese mines historically high graded
 - ATP plants installed were artificially supported by government
 - Created artificial supply cheap W
- **Results today**
 - West stopped W exploration
 - Chinese mines now operate at higher costs
 - China now a net importer of W
 - China imposes a 5% tariff on all W exports
 - Identified globally as a Strategic Material



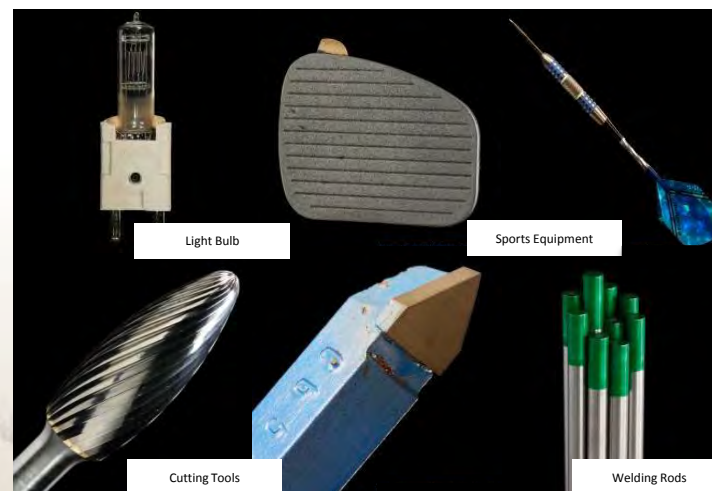
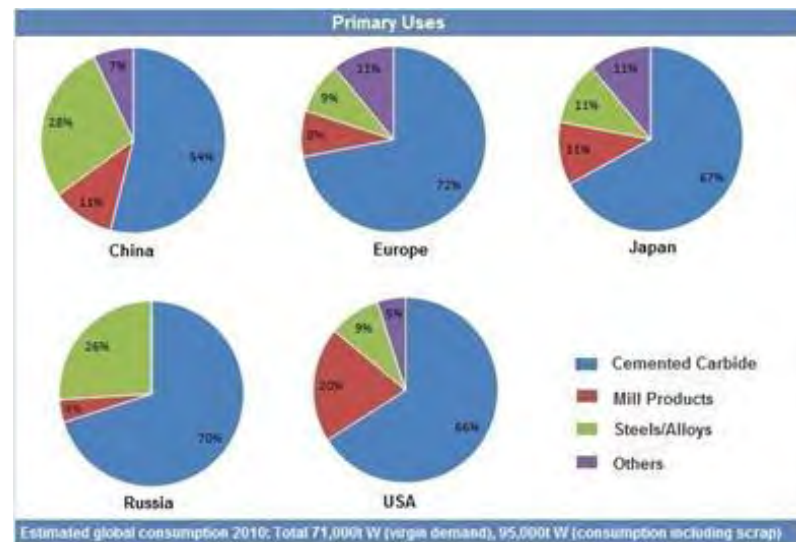
**Tungsten Annual Averages US\$
(Metal Bulletin Quotations)**



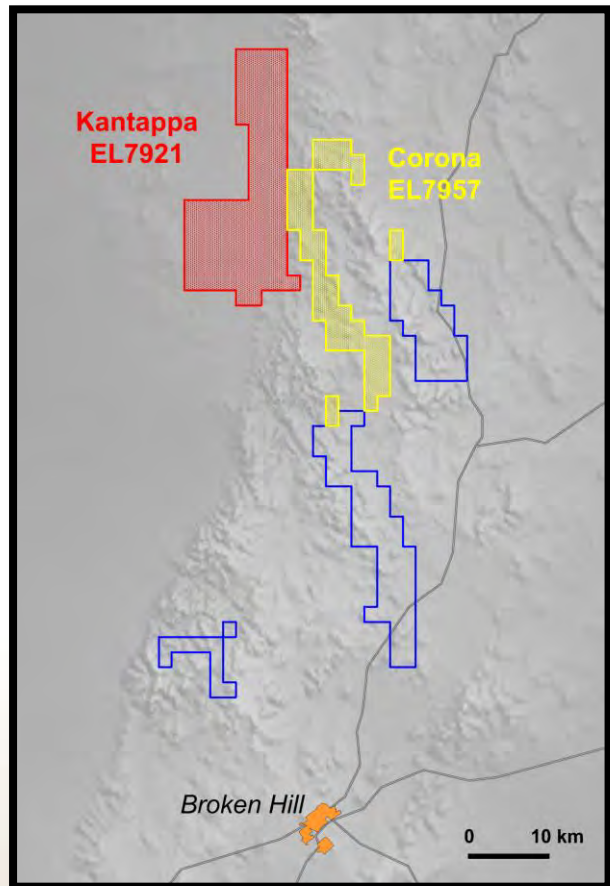
**Tungsten APT Prices US\$
(Metal-Prices)
Note 1 mtu equals 10 kgs**

Tungsten – What you may not know

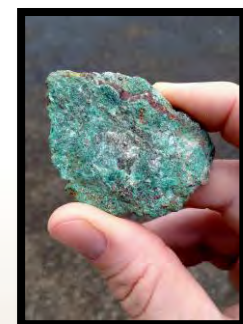
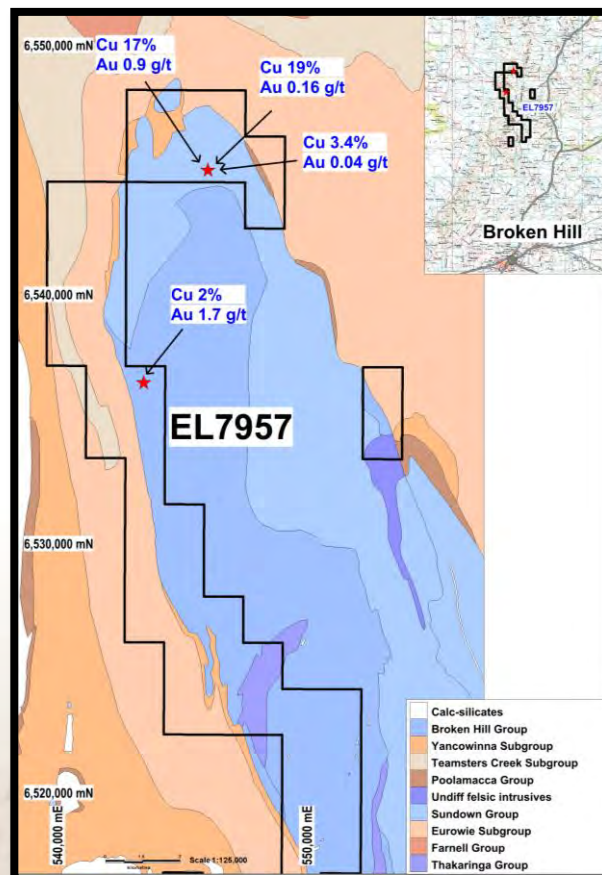
- **Tungsten Properties**
 - Highest melting point of ALL metals
 - Hard metal therefore robust
 - SG 19.3 – very dense
 - Thermal Expansion 40% of steel
- **Uses for Tungsten include: -**
 - Hard wearing tool protection (Tungsten Carbide / Tool Steel)
 - Mining drill bits
 - Machine tools / cutters
 - Heat sinks / Transition spacers
 - Furnace and Light bulb elements
 - Radiation & X-Ray shielding
 - Ceramic Glazes



Carpentaria Tin Tungsten Projects

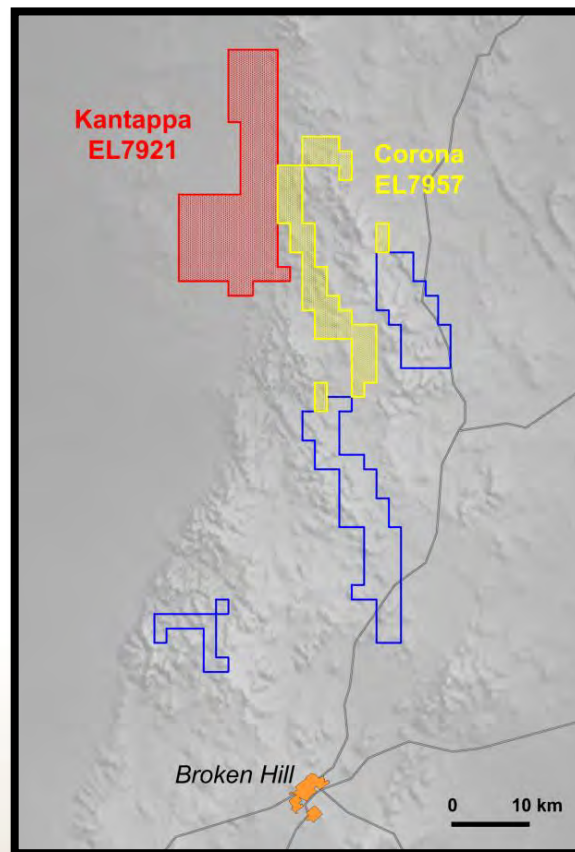
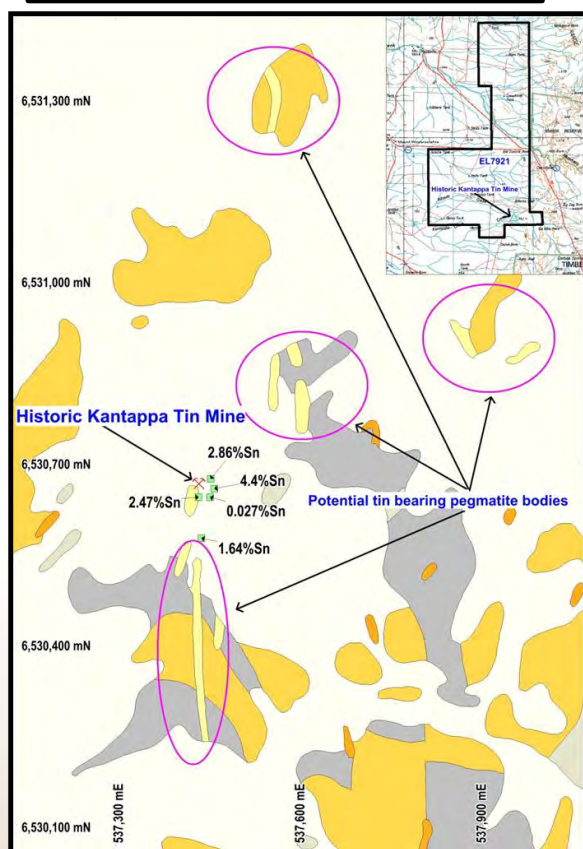


Corona :
Initial Field Results
Indicate up to 19% copper



Carpentaria Tin Tungsten Projects

Kantappa :
Initial Field Results
Indicate up to 2.86% tin



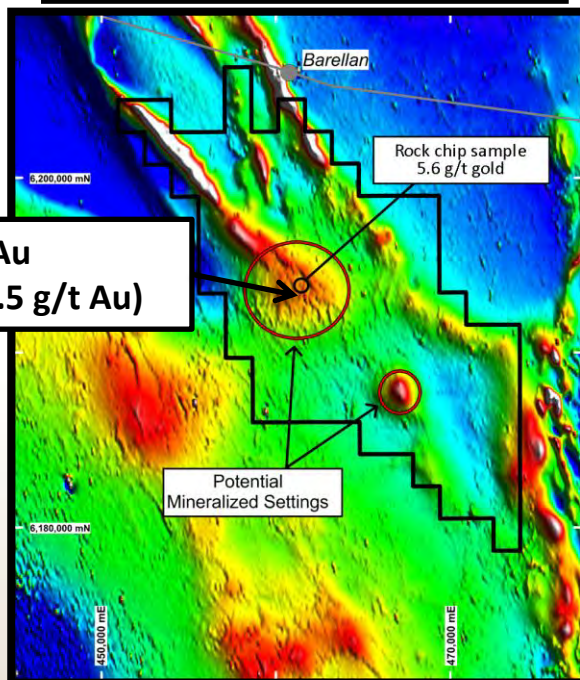
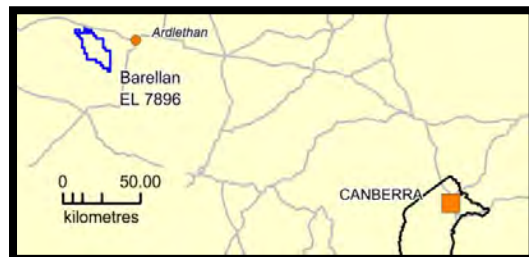
Carpentaria Exploration

We find it. We prove it. We make it possible.

Carpentaria Gold Projects

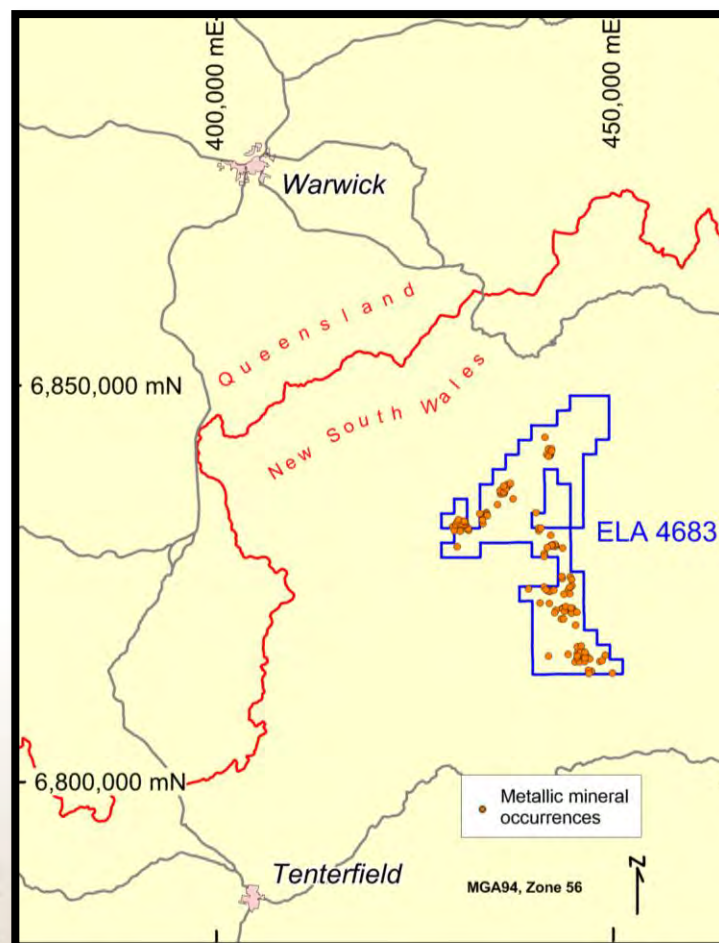


Barellan EL



60m at 1.5g/t Au
(incl. 10m at 4.5 g/t Au)

Tooloom EL



Carpentaria Exploration

We find it. We prove it. We make it possible.

Carpentaria Summary



Carpentaria is in a strong position

- **Cash in the bank**
- **Major Iron Projects**
 - **One post Pre feasibility**
 - **One in drilling phase with good initial results**
- **New inferred tungsten resource at Yanco Glen doubling in situ tonnage from earlier resource**
- **Good tin results in other tenements requiring follow up**
- **Three large undrilled gold projects in the highly prospective Lachlan Fold Belt of NSW**
- **An excellent team to carry out this work**
- **A strong supportive Board**

The information in this presentation that relates to Exploration Results and Resources is based on information compiled by S.N.Sheard, who is a Fellow of the Australian Institute of Geoscientists and has had sufficient experience which is relevant to the style of mineralization and type of deposit 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'. S.N.Sheard is an employee of Carpentaria and consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Carpentaria Exploration

We find it. We prove it. ***We make it possible.***

Phone: +61 7 3220 2022

To find out more, visit us at

[**www.capex.net.au**](http://www.capex.net.au)



@CARPEXPLORE

