

# **Focused on Growth and Sustainability**

# 2023 Annual General Meeting of Shareholders

30 May 2023

Patrick Mutz Managing Director Image Resources NL ASX: IMA

# **IMAGE** R E S O U R C E S

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Information regarding the calculation of ore reserves and mineral resources in this presentation (if any), and the consents provided by the respective Competent Persons is referenced within this presentation/document or presented at the end of this presentation/document. For additional information and details on the content of this presentation/document, please refer to the ASX releases on the Company's website.

#### Outline



# > Building a picture of the future with current limited information

- Growth and sustainability strategy
- Transitioning to Chapter 2
- > The changing value proposition
  - Transitioning from high HM grade/high zircon to low HM grade/high ilmenite
  - Importance of economy-of-scale and value-adding
- > The critical value-add opportunity of synthetic rutile
- > Where are we on our journey?



### **Brief Recap**

# > 2017 BFS Plans

- Boonanarring and Atlas to be mined in series
- Total mine-life ~8 years (Boon ~5; Atlas ~3)
- Repay debt
- Self-fund relocation of operations to Atlas

# > Upside aspirations (outside of plan)

- Organic growth of Ore Reserves and mine-life at Boonanarring
  - This did not happen. Mineral Resources identified, but excessively challenged by gas pipelines, the Brand Highway and power lines infrastructure
- Lost some Ore Reserves due to unanticipated trash HM

# > Still working the original BFS Plan

- Boonanarring operations continuing successfully; currently at 54 months
- Debt repaid early in Feb 2021
- Cash reserves available to fund relocation to Atlas
- Final Atlas permitting underway, albeit delayed due to unforeseen circumstances



### **Brief Recap**

#### > Challenges/achievements that were not anticipated (no excuses, just facts)

- COVID-19 impacts and restrictions
- Paid \$0.02/share dividend in April 2021 and again in April 2022 (~AU\$35m cash)
- Purchased two strategic projects in CY2022 (~AU\$36m cash)
- Defeated 249-D action against key Board members in CY2022
- Project permitting much more onerous following Juukan Gorge incident (May 2020) and new threatened ecological community (TEC) legislation (2021)
  - New Aboriginal Cultural Heritage Act (ACHA) 2021 effective 1 July 2023
- Skilled worker shortages following post-COVID mining industry expansion
- Substantial inflationary pressures following Federal economic stimulation spending
- Funding multiple project studies (from cash reserves) under new Growth & Sustainability strategy
- Share price weakness despite operational economic success
  - Believed to be primarily driven by lack of long-term Ore Reserves



# **Brief Recap**

- Rapid transition to successful mining company
  - 6-month construction; A\$52m on-ground spend (2018)
  - On-time; on-budget
  - Ramped to name-plate capacity in 2<sup>nd</sup> month of operation
- Profitable from first full year of operation

	<u>Revenue</u>	<u>Net Profit After Tax</u>
CY2019	A\$146m	A\$20.8m
CY2020	A\$176m	A\$24.8m
CY2021	A\$179m	A\$19.4m
CY2022	A\$172m	A\$15.2m

- Early repayment of A\$50m debt (Feb 2021)
- Paid inaugural dividend of 2 cents (unfranked) April 2021
- Paid 2<sup>nd</sup> annual dividend of 2 cents (fully-franked) April 2022

# Introduction



# Building the picture of the future



Sometimes a picture is muddled, even though you might recognise certain aspects in the disorder.

# Introduction





Sometimes the picture is more recognizable, but it is out of focus or opaque.

# Introduction





Sometimes the picture is both muddled and out of focus.

### **Growth and Sustainability Vision**



# **Growth and Sustainability Vision**

# **Chapter 2 - Building the future**



Start by examining the pieces.





Notes: Information in graphs taken from Mineral Resources statement – Table 2, attached to this presentation.







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- Bar graphs represent rough min and max commodity price over the last 24 months
  - Synthetic rutile does not exist naturally in HM assemblage but can be produced by upgrading of ilmenite. It is shown here for relative price comparison to naturally occurring commodities.



Line graphs of mass contribution in HMC added for various Image projects

Notes: Mineral assemblage information in line graph taken from Mineral Resources statement – Table 2, attached to this presentation.



# Synthetic Rutile (SR)

### What is SR? What is it used for?

- The titanium dioxide (TiO2) content in ilmenite can range from 45-70% TiO2, with the majority of the balance being iron
- ➢ Natural, high-quality Rutile is >95% TiO2
- Removing the iron from ilmenite can increase TiO2 content to 90-95% TiO2 and then it is referred to as 'synthetic' rutile or SR
- SR is used as feedstock for the chloride process for making pure TiO2 used in the manufacture of pigment for paint and other products



# What is the forecast demand for SR?

- Australia has been and remains the largest SR manufacturer in the world, with all Australian SR manufactured in WA by Iluka and Tronox
- Australia is the 2<sup>nd</sup> largest consumer of SR in the world, with the vast majority by Tronox to produce TiO2 for pigment, and all in WA
- TZMI market study indicates global supply deficit in SR as feedstock for pigment manufacture from 2027, driven by:
  - Forecast declines in SR production by Iluka and Tronox due to lack of ilmenite feed; and
  - Robust SR demand from rise of Chinese chloride pigment output and high chlorine prices in North America supporting shift towards consumption of higher-grade chloride feedstocks such as SR.
- > Net effect of SR feedstock supply deficit is requirement for new supplies of SR feedstocks
  - creating an excellent market opportunity for Image

# So how is the iron removed from ilmenite?

- Iluka and Tronox use the Becher process
  - patented in 1961 by Robert Gordon (Bob) Becher
  - commercialised in 1969 by RGC (forerunner to Iluka)
- Basics of the Becher process
  - high temperature (>1,100° C) roasting of ilmenite in a rotary kiln
    - coal added to kiln to maintain a reducing environment, to convert iron oxide in the ilmenite, to metallic iron
  - kiln product then processed through iron 'rusting' process using aerated salt solution to remove the iron and subsequent sulphuric acid leaching to remove residual iron and impurities



Mr Bob Becher with equipment to undertake the Becher Process which is a breakthrough in the mineral sands industry

- The ilmenite roasting (iron reduction) process emits a considerable amount of CO<sub>2</sub> from the burning of coal in the kiln
- Variations to the original process have been adopted through the years but the basics of using coal as the reductant remain unchanged commercially after more than 50 years





# > Is there a better way? Short answer is YES; it was patented in 1999-2000

(12) (19)	PATENT (11) AUSTRALIAN PATENT OFFICE	Application No. AU 199936760 B2 (10) Patent No. 752851
(54)	Title Broduction of cynthotic rutils by low tempore	ture reduction of ilmonite
(51) <sup>7</sup>	International Patent Classification(s) C22B 001/02 C22B 001/26 C22B 001/10 C22B 003/10	
(21)	Application No: 199936760 (2	2) Application Date: 1999.06.25
(30)	Priority Data	
(31)	Number         (32)         Date         (33)         Co           PP4301         1998.06.25         Al	ountry U
(43) (43) (44)	Publication Date :2000.01.13Publication Journal Date :2000.01.13Accepted Journal Date :2002.10.03	
(71)	Applicant(s)	
	Iluka Resources Limited	
(72)	Inventor(s) Trevor Allen Nicholson; Colin John Brown; Iar	n Edward Grey
(74)	Agent/Attorney FREEHILLS CARTER SMITH BEADLE,Level 43,10 VIC 3000	1 Collins Street, MELBOURNE
(56)	Related Art US 4097574 US 3252787 US 5730774	

- Patent recently expired
- Process not commercialised to-date likely due to:
  - Becher process improvements and ongoing success
  - New capital requirements
- Dr Ian Grey of CSIRO (inventor) referred to this technology as
   'NewGenSR' process in post-patent paper

#### What is NewGenSR process?

- Key differences of NewGenSR compared to Becher process:
  - NewGenSR uses fluidized bed reactor instead of rotary kiln
  - NewGenSR uses hydrogen gas as reductant instead of coal
- Any new SR construction likely to commercialise this 'not so new' technology

# NewGenSR benefits:

- General advantages of fluidized bed reactor vs. rotary kiln (next slide)
- Environmentally friendly

   lower CO2 emissions
- Hydrogen focus accelerating
- including green hydrogen
  Able to treat primary ilmenites



Rotary Kiln – Capel WA, Iluka Resources



Fluidized bed schematic



Fluidized bed processing plant



#### Fluidized Bed Reactor versus Rotary Kiln



SCHWING

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#### **Preliminary Conceptual Plan**

#### **Cautionary statement:**

The following conceptual plan should only be read in conjunction with the Disclaimer and Forward-Looking Statements at the beginning of this presentation. The information provided in the following preliminary plan is conceptual and aspirational and should not be relied upon for investment decisions, as appropriate independent studies have not been completed on many of the projects shown in this plan. Several studies are underway and others are planned and the information from each study will be published when available. Any information on potential production levels or mine life are based solely on simplistic forecasts of conceptual processing rates and on potential for future Ore Reserves, which is uncertain and may not materialise.



# Preliminary Conceptual Plan

Image Resources NL	Grov	vth a	nd Si	istain	nabilit	y - Pr	relimin	ary (	Conc	eptua	I Dev	elopn	nent i	Plan											
	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	20
Boonanarring & Atlas Feasibility Study			-					_																	
Boonanarring Development		-						-																	-
Boonanarring Production					-				Produ	ction gar	0														
Boonanarring HMC Production (kt)								?		capital	cost se	lf-fundec	l from c	ash rese	erves										-
<b>-</b> • • •																									
Atlas Development						-				Est. 3-4 *	Years (inc.	Hyperion)													
Atlas Production										-															
Atlas HMC Production (kt)								<b>~</b>	?	?	?	?													
Bidaminna Feasibility Study								-																	
Bidaminna Definitive Feasibility Study									-			-	Est. A\$	???m; c	onceptu	ally func	led with	debt an	d equity						
Bidaminna Development											1				Targeting	, 10 Years									
Bidaminna Production																									
Bidaminna HMC Production (kt)												?	?	?	?	?	?	?	?	?	?				-
ndanooka (+ Durak +) Feasibility Study (Internal)									-			-	A\$??m	: concer	otuall <b>u</b> fu	inded wi	th cash	reserve:	s and eq	uite?					+
Yandanooka (+ Durak +) Development											-				Targeting	15+Years									+
Yandanooka (+ Durak +) Production										1	-									_	_		_	_	-
Yandanooka (+ Durak +) HMC Production (kt)											?	?	?	?	?	?	?	?	?	?	?	?	?	?	
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Pior Operation																									-
Synthetic Rutile (SR) Demonstration Testing									-																
SR Feasibility Study										-				A\$???i	m; conce	eptually f	funded 1	rith proj	ect debl	and equ	iity				
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SR Operation																								_	-
SR Production (kt)												?	?	?	?	?	?	?	?	?	?	?	?	?	
McCalls Delineation and Geotechnical Drilling								-	_																+
McCalls Hydraulic Mining Demonstration Testing									-	-															
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#### For further information





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#### Mineral Resources & Ore Reserves Statement

The estimated Ore Reserves at Boonanarring include depletion from mining through 31 December 2022 and thereby represent remaining Ore Reserves at Boonanarring as <u>at</u> 31 December 2022. Atlas Ore Reserves were updated on 21December 2022.

	Ore		In-situ HM			The Assemblage (% of total The)									
Project/Deposit	Reserve Category	Tonnes (million)	Tonnes (millions)	Total HM grade (%)	Zircon	Rutile	Leuc.	Ilmenite	Monazite	Slimes (%)	Oversize (%)				
	Proved	0.8	0.07	8.4	22	3.2	2.7	47		14	4.5				
Boonanarring	Probable	0.5	0.02	4.7	21	8.8	8.7	42		16	6.1				
	Sub Total	1.2	0.08	7.0	22	4.7	4.2	45		15	4.9				
	Proved	4.5	0.48	10.6	12	8.0	4.9	54	1.1	15	4.6				
A41	Probable	0.9	0.02	2.1	8.1	5.2	4.7	29	0.8	15	8.1				
Allas	Sub Total	5.5	0.50	9.2	12	7.9	4.9	53	1.1	15	5.2				
Total Ore Reserve	3	6.7	0.58	8.8	13	7.5	4.8	52		15	5.1				

UM Assemblers (0/ offetel UM)

#### Table 1 - Ore Reserves - Strand Deposits; in accordance with the JORC Code (2012) – 31 December 2022

1 Refer to Boonanarring Ore Reserves release 29 March 2023 "Boonanarring Annual Ore Reserve Update"

2 Atlas Ore Reserves refer to the 21 December 2022 release "Revised Announcement Atlas Project Ore Reserve Update"

The estimated Mineral Resources at Boonanarring include depletion from mining through 31 December 2022 and thereby represent remaining Mineral Resources at Boonanarring as <u>at</u> 31 December 2022. Atlas Mineral Resources were updated on 15 December 2022.





# Table 2 - Mineral Resources – Dry and Dredge Mining Strand/Dune Deposits; in accordance with JORC Code 2012 as at 31 December 2022

Deposit	Mineral Resource Category	Cut-off (total HM%)	Tonnes (million)	In-situ HM Tonnes (millions)	Total HM grade (%)	Zircon	Rutile	Leuc.	Ilmenite	Slimes (%)	Oversize (%)
	Measured	2.0	1.3	0.1	8.1	21.5	3.1	4.5	48	15	6.5
Peenenerring	Indicated	2.0	4.0	0.2	4.3	11.0	5.2	12.4	51	17	4.2
Boonanarring	Inferred	2.0	0.7	0.0	3.4	11.1	4.7	6.0	55	14	5.9
	Meas Ind and Inf	2.0	6.1	0.3	5.0	14.7	4.4	9.1	50	17	4.9
	Measured	2.0	7.1	0.6	9.0	10.7	7.5	5.1	51	15	4.6
<b>A</b> 41aa	Indicated	2.0	5.0	0.2	3.5	7.0	4.7	5.1	42	16	4.6
Atlas	Inferred	2.0	5.2	0.2	3.3	9.1	4.4	4.8	54	14	2.7
	Meas Ind and Inf	2.0	17.3	1.0	5.7	9.8	6.5	5.1	49	15	4.0
	Indicated	2.0	3.1	0.2	5.1	9.6	6.8	30	35	11	1.2
Boonanarring North West	Inferred	2.0	1.2	0.1	5.0	8.3	7.4	36	27	10	0.8
	Ind and Inf	2.0	4.3	0.2	5.1	9.2	6.9	32	33	11	1.1
Boonanarring	Indicated	2.0	2.5	0.3	11.8	16.4	2.7	12	41	17	7.1
North	Inferred	2.0	0.2	0.0	4.7	16.0	2.5	11	39	17	8.4
Extension	Ind and Inf	2.0	2.7	0.3	11.2	16.4	2.7	11	41	17	7.2

#### HM Assemblage (% of total HM)



	Deposit	Mineral Resource Category	Cut-off (total HM%)	Tonnes (million)	In-situ HM Tonnes (millions)	Total HM grade (%)	Zircon	Rutile	Leuc.	Ilmenite	Slimes (%)	Oversize (%)
		Indicated	2.0	6.6	0.3	4.7	7.2	4.5	15	50	16	4.5
2004	Gingin North	Inferred	2.0	2.0	0.1	4.7	5.5	5.4	23	41	13	5.3
and		Ind and Inf	2.0	8.7	0.4	4.7	6.8	4.7	17	48	15	4.7
2012		Indicated	2.0	12.1	0.6	4.9	7.4	5.1	14	47	18	1.4
SRC:	Helene	Inferred	2.0	1.0	0.0	4.0	7.5	5.7	16	45	15	1.1
Ъ С		Ind and Inf	2.0	13.1	0.6	4.8	7.4	5.2	14	47	18	1.4
Ainin		Indicated	2.0	3.6	0.3	8.3	8.0	6.7	8.1	36	19	2.6
Dry N	Hyperion	Inferred	2.0	0.0	0.0	5.9	7.3	5.0	4.9	31	17	4.3
		Ind and Inf	2.0	3.6	0.3	8.3	8.0	6.7	8.1	36	19	2.6
	Drummond Crossing	Indicated	1.4	35.5	0.8	2.4	14.1	10.3	3.4	53	14	7.7
		Inferred	1.4	3.3	0.1	2.3	11.2	9.0	2.7	56	12	7.2
		Ind and Inf	1.4	38.8	0.9	2.4	13.9	10.2	3.4	54	14	7.7
		Indicated	1.4	20.7	0.6	2.9	13.7	2.9	3.7	71	14	14.7
	Durack	Inferred	1.4	5.6	0.1	2.6	14.2	2.6	7.4	64	16	18.3
		Ind and Inf	1.4	26.3	0.7	2.8	13.8	2.9	4.4	70	14	15.5
		Indicated	2.0	6.5	0.3	5.3	10.0	8.0	10.4	66	15	3.2
	Ellengail	Inferred	2.0	5.3	0.2	4.1	9.9	8.2	8.4	62	15	2.5
		Ind and Inf	2.0	11.8	0.6	4.8	9.9	8.1	9.6	64	15	2.9
		Indicated	1.4	14.0	0.3	1.9	14.7	12.7	5.0	47	6	6.2
	Robbs Cross	Inferred	1.4	3.8	0.1	2.0	14.5	10.9	4.1	50	6	8.1
		Ind and Inf	1.4	17.8	0.3	1.9	14.7	12.3	4.8	48	6	6.6
		Inferred	1.4	25.7	0.5	2.0	18.8	13.8	5.4	42	18	6.9
	Thomson	Inf	1.4	25.7	0.5	2.0	18.8	13.8	5.4	42	18	6.9

HM Assemblage (% of total HM)



									,		
Deposit	Mineral Resource Category	Cut-off (total HM%)	Tonnes (million)	In-situ HM Tonnes (millions)	Total HM grade (%)	Zircon	Rutile	Leuc.	Ilmenite	Slimes (%)	Oversize (%)
	Measured	1.4	2.6	0.1	4.3	10.3	2.1	2.3	72	15	11.3
Yandanooka	Indicated	1.4	57.7	1.7	3.0	12.3	3.6	3.7	69	15	11.4
	Inferred	1.4	0.4	0.0	1.5	10.9	3.0	4.4	68	20	21.9
	Meas Ind and Inf	1.4	60.8	1.8	3.0	12.1	3.5	3.6	70	15	11.5
Corridor	Inferred	2.0	18.1	0.6	3.1	6.7	5.5	0.4	47	14	4.8
Corridor	Inf	2.0	18.1	0.6	3.1	6.7	5.5	0.4	47	14	4.8
	Indicated	2.0	10.2	0.7	7.3	5.8	6.5	1.8	48	11	2.3
West Mine North	Inferred	2.0	1.8	0.0	2.7	9.4	8.6	2.1	50	17	3.0
	Ind and Inf	2.0	12.0	0.8	6.6	6.0	6.6	1.8	48	12	2.4
	Indicated	1.1	1,630	23	1.4	5.2	3.3	2.8	77	21	1.1
McCalls	Inferred	1.1	1,980	24	1.2	5.0	3.8	3.2	81	26	1.1
	Ind and Inf	1.1	3,610	48	1.3	5.1	3.6	3.0	79	24	1.1
Mindarra	Inferred	1.1	2,200	36	1.6	4.2	0.9	3.1	80	20	5.1
Springs	Inf	1.1	2,200	36	1.6	4.2	0.9	3.1	80	20	5.1
	Total Measured Dry		11.0	0.9	7.7	12.0	6.3	4.7	53	15	6.4
	Total Indicated Dry		1812	29.8	1.6	6.5	3.8	3.7	72	20	1.8
	Total Inferred Dry		4255	62.8	1.4	4.7	2.3	3.2	79	23	3.3
	Sub Total Dry		6077	93.4	1.5	5.4	2.8	3.4	77	22	2.8

#### HM Assemblage (% of total HM)



	Deposit	Mineral Resource Category	Cut-off (total HM%)	Tonnes (million)	In-situ HM Tonnes (millions)	Total HM grade (%)	Zircon	Rutile	Leuc.	Ilmenite	Slimes (%)	Oversize (%)	
_		Measured	0.5	86.0	2.4	2.8	4.9	4.0	12.0	72	4	3.2	
		Indicated	0.5	13.0	0.3	2.1	4.9	4.2	13.0	71	5	2.3	
	Bidaminna	Inferred	0.5	10.0	0.1	0.7	4.6	5.6	17.0	66	3	1.8	
		Ind and Inf	0.5	109.0	2.7	2.4	4.9	4.0	12.2	72	4	3.0	
		Indicated	1.0	21.2	0.4	1.8	9.5	3.1	1.5	72	22	-	
2012	Titan	Inferred	1.0	115.4	2.2	1.9	9.5	3.1	1.5	72	19	-	
ORC		Ind and Inf	1.0	136.6	2.6	1.9	9.5	3.1	1.5	72	19	-	
ng, J	Teleste	Indicated	1.0	3.5	0.1	3.8	9.5	5.6	0.7	67	17	-	
Minir	TELESIO	Ind	1.0	3.5	0.1	3.8	9.5	5.6	0.7	67	17	-	
edge	Calumaa	Inferred	1.0	51.5	0.9	1.7	10.8	5.1	1.6	68	14	-	
ā	Calypso	Inf	1.0	51.5	0.9	1.7	10.8	5.1	1.6	68	14	-	
		Total Indicated Dredge		37.7	0.8	2.1	7.1	4.0	7.4	71	14		
		Total Inferred Dredge		176.9	3.1	1.5	8.0	4.3	7.0	69	13		
		Sub Total Dredge		214.6	3.9	1.5	7.8	4.3	7.1	69	13		
		Total Measured		11	1	7.7	12.0	6.3	4.7	53.1	14.8	6.4	
То	tal Combined	Total Indicated		1849	31	1.6	6.5	3.9	3.8	73.1	20.2	1.8	
	Resources	Total Inferred		4431	66	1.5	5.1	2.5	3.6	80.6	22.5	3.1	
		Grand Total		6292	97.3	1.5	5.6	2.9	3.7	78.0	21.8	2.7	

#### HM Assemblage (% of total HM)

#### Previously reported information

This report includes information that relates to Mineral Resources, Ore Reserves, production targets and forecast financial information derived from production targets which were prepared and first disclosed under JORC Code 2012. The information was extracted from the Company's previous ASX announcements as follows:

- Boonanarring Mineral Resources and Ore Reserves: 29 March 2023 "Boonanarring Annual Ore Reserve Update"
- Atlas Ore Reserves: 21 December 2022 "Revised Announcement Atlas Project Ore Reserve Update"
- Atlas Mineral Resources: 15 December 2022 "Mineral Resources Update Atlas Deposit"
- Bidaminna Mineral Resource: 28 February 2023 "Mineral Resources Update Bidaminna Project"
- Gingin North Mineral Resource: 31 March 2021 "Project MORE Update Boonanarring Atlas Projects"
- Boonanarring North Extension Mineral Resource: 31 March 2021 "Project MORE Update Boonanarring Atlas Projects"
- Boonanarring <u>North West</u> Mineral Resource: 31 March 2021 "Project MORE Update Boonanarring Atlas Projects"
- Helene Mineral Resources: 31 March 2021 "Project MORE Update Boonanarring Atlas Projects"
- Hyperion Mineral Resources: 31 March 2021 "Project MORE Update Boonanarring Atlas Projects"
- Titan Mineral Resources: 31 October 2019
- Telesto South Mineral Resources: 31 October 2019
- Calypso Mineral Resources: 31 October 2019.
- Drummond Crossing, Durack, <u>Ellengail</u>, Robbs Cross, Thomson, Yandanooka, Corridor: 11 March 2022
   "Mineral Resource Update Eneabba Tenements"
- McCalls and Mindarra Springs: 20 May 2022 "Mineral Resource Update McCalls Mineral Sands Project"
- West Mine North: 29 July 2022 "Mineral Resource Update West Mine North"





<u>All of</u> the above announcements are available on the Company's website at <u>www.imageres.com.au</u>. The Company confirms it is not aware of any new information or data that materially affects the information included in the original market announcements and, in the case of reporting of Ore Reserves and Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed. The Company confirms that the form and context in which any Competent Person's findings are presented have not been materially modified from the original market announcement.



#### Hydrogen Colour Wheel

#### THE HYDROGEN COLOR RAINBOW IS EXPANDING Hydrogen is one of the key replacements for fossil fuels in industry and a critical factor in the race to net zero CO, emissions by 2050. But if there's going to be enough hydrogen to meet the expected growth in demand, low-carbon production of the gas will need to be scaled up. There is an expanding range of techniques to achieve this, each referred to by a different color Typically refers to hydrogen made An electrolytic production process similar to green electrolytically with solar energy but powered by nuclear energy Yellow Red Made by electrolysis using electricity from Pink renewable sources to split water into One main pathway for global decarbonization. hydrogen and oxygen without emitting CO, it combines gray hydrogen production with CO. Purple capture technology to minimize emissions White @ Naturally occurring hydrogen found Hydrogen in underground deposits Gold Blue Splits methane from natural gas into hydrogen and solid "carbon black", a critical raw material for Produced by fermenting microbes found in industry. No CO, emissions occur Brown Turquoise depleted oil wells. The process relies on CO, capture for carbon neutrality Black Gray Derived from natural gas and the most common Traditional process for making hydrogen, production method today. It generates fewer which uses either black or brown coal (lignite). emissions than black and brown methods It releases high amounts of CO.,

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