



IMAGE
RESOURCES

Australia's newest mineral sands miner

Boonanarring Mineral Sands Project

100%-owned; high-grade; zircon-rich

80km north of Perth in Western Australia

Built on-time & on-budget; Production Exceeding Expectations

2019 Guidance Upgraded



**Diggers & Dealers
Mining Forum
Kalgoorlie, WA
5-7 August 2019**

**John McEvoy
Chief Financial Officer
Image Resources NL
ASX: IMA**

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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 presented within this presentation. For additional information and details on the content of this presentation, please refer to the ASX releases on the Company's website.

Investor Snapshot



Company successfully transitioned to profitable, cashflow positive miner in Q2 2019

- **Project construction and commissioning completed ‘on-schedule’ and ‘on-budget’**
- **Production commenced 1 Dec 2018**
- **Ramp-up to full production in 2nd month of operations**
- **Completed first two quarter of operations (30 June 2019):**
 - **HMC Production: 138% of budget**
 - **Ore Grade: 143% of budget**
 - **Revenue: \$579/T**
 - **Project Opex: \$325/T**
 - **Operating Margin: \$254/T**
 - **YTD Project EBITDA: \$29.5M (Q2: \$20M)**



Company transitioning to profitable zircon miner at a time of zircon supply shortfall

➤ **30 June 2019 (Six Month) Summary:**

- **Ore Grade 143% of Budget**
- **Zircon grade YTD 112% of budget**
- **Zircon 85%+ of revenue**
- **Revenue \$67.3M YTD**
- **Project EBITDA \$29.5M (2019 Guidance +\$15M to A\$55-65M)**



© geology.com
Rough zircon grains

➤ **Share price \$0.235¹ (increased to \$0.30² post Q2 Results).**

➤ **Market capitalisation \$228M¹**

Notes: 1 - as at 30 June 2019

2 - as at 23 July 2019

Diverse and experienced Board and Management

As at 30 June 2019 (unless stated):

ASX Code:	IMA
Share Price ¹ :	A\$0.30
12-Month Price Range ¹ :	A\$0.10–0.30
Shares on Issue:	972m
Market Cap: (\$0.235/share)	A\$228m
Cash on hand ² :	A\$26m
Debt:	A\$67m
Enterprise Value:	A\$269m
Top 20 Shareholders:	69%

Board of Directors

Bob Besley – Independent Chairman
Patrick Mutz – Managing Director
Chaodian Chen - Non-Executive Director
Aaron Chong Veoy Soo – Non-Executive Dir
George Sakalidis – Executive Director
Peter Thomas – Non-Executive Director
Fei (Eddy) Wu – Non-Executive Director
Huang Cheng Li – Non-Executive Director

Key Management

Patrick Mutz – CEO
John McEvoy – Chief Financial Officer
Todd Colton – Chief Operating Officer
George Sakalidis – Exploration Director

Notes:

1. As at 23 July 2019
2. Cash excludes \$12m received in July (30 June HMC shipment #6)



IMA produces HMC containing zircon and titanium dioxide

- **Zircon sand is processed into zirconium compounds, intermediate products and zirconium metal for a variety of applications;**



- Ceramics (tiles); 55% demand



- Foundry Sands (castings); 14%
- Refractories (furnace linings); 10%



- Chemicals (gem stones, nuclear reactors); 14%
- Others; 7%

Qualities
whitener
opacifier
heat resistant
abrasion resistant
metal bio-compatible



Speciality uses include fibre optics, glass, paints, catalysts, underarm deodorants, adhesives, cosmetics, paper, dental ceramics plus many research applications.

IMA produces HMC containing zircon and titanium dioxide

- **Titanium dioxide (TiO₂) from rutile and ilmenite is processed into titanium based products and titanium metal for a variety of applications;**



- Ultra-white pigments (paint, paper, plastic); ~90% demand

- Welding rods (flux coating);



- Titanium metal (light, strong, corrosion-resistant, bio-compatible);



- Used in aircraft, spacecraft, motor vehicles and medical implants;



Speciality uses include sunscreen, adhesives, inks, fabrics, ceramics, cosmetics, toothpaste, catalysts, and pharmaceuticals.

LOCATION

- North Perth Basin in Western Australia
- 80 km north of Perth CBD
- Proven mineral sands address
 - Including majors Iluka and Tronox
- Infrastructure rich
 - paved roads, power, gas pipeline water, telecommunications etc.
- Local communities and landowners experienced with, and accepting of, mineral sands mining.



Project Types and Locations

- 1,000 km² tenements portfolio
- 100% focus on mineral sands
- Strandline projects (dry mining)

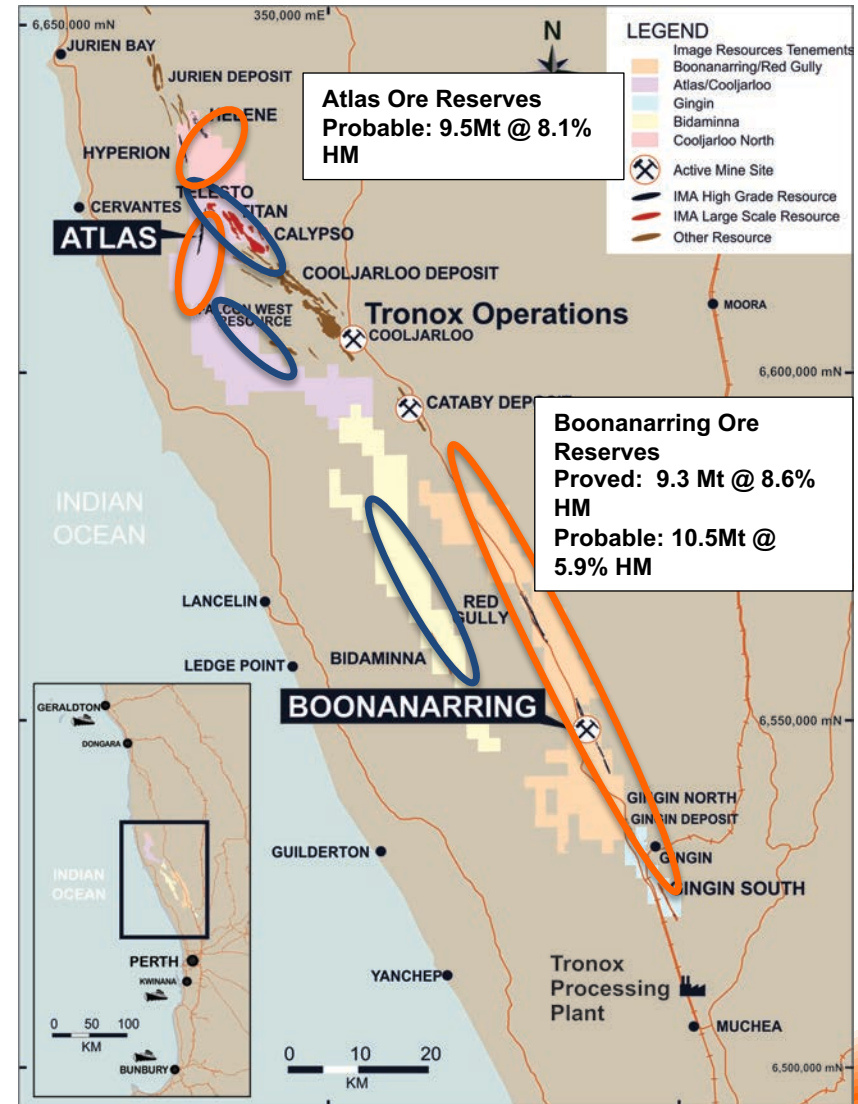


- Dredge mining prospects



Multiple opportunities for a second stand-alone mining project within the current 100%-owned tenement package.

Bidaminna is high on priority list.



QUALITY ORE RESERVES

- JORC Code (2012) Compliant
- High HM, VHM and very high zircon at Boonanarring

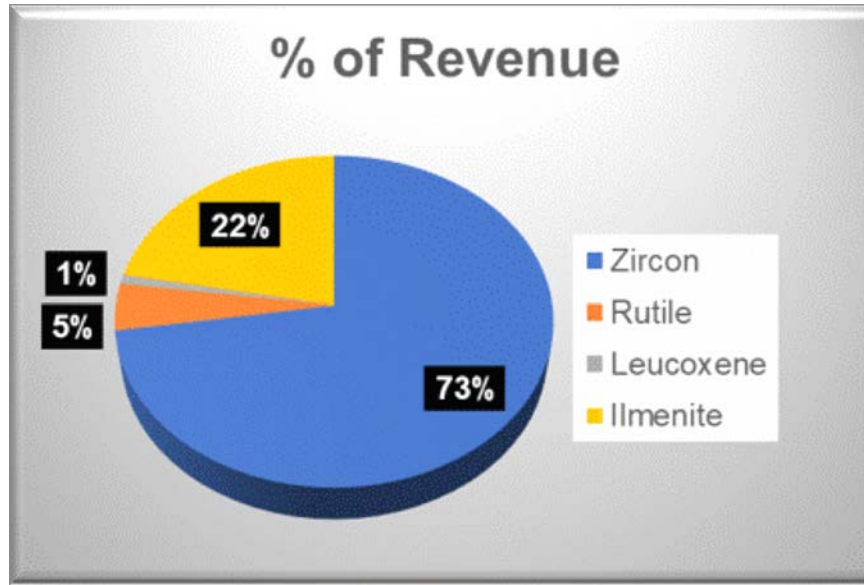
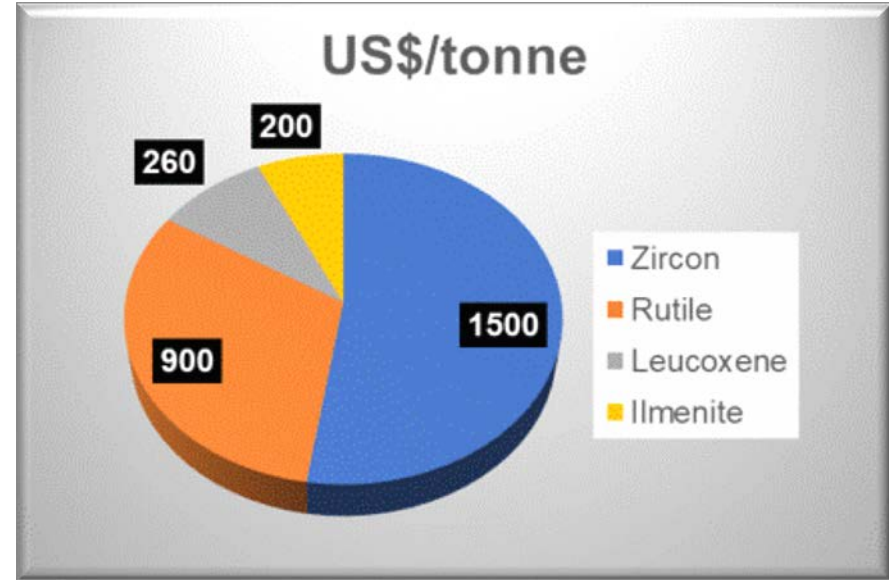
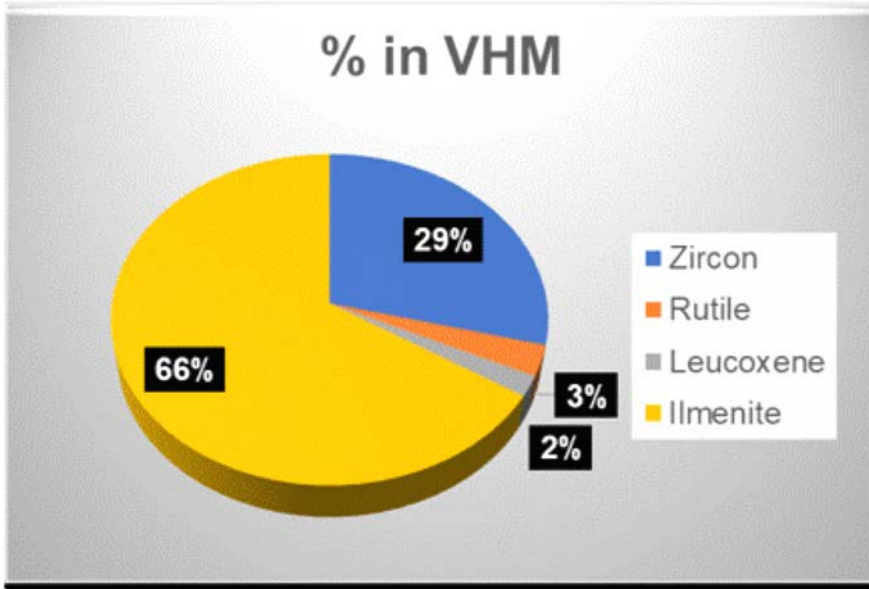
High Grade Ore Reserves - Strand Deposits; in accordance with the JORC Code (2012)

Project/Deposit	Category	Volume	Tonnes	% HM	% Slimes	HM Tonnes	VHM (%)	Ilmenite (%)	Leucoxene (%)	Rutile (%)	Zircon (%)
Boonanarring ¹	Proved	5,008,000	9,344,000	8.6	14.3	803,771	76.081	48.9	1.8	2.2	23.2
Boonanarring ¹	Probable	5,565,000	10,514,000	5.9	17.6	622,429	78.653	52.3	1.8	2.7	21.9
Total Boonanarring		10,573,000	19,858,000	7.2	16.1	1,426,200	77.203	50.4	1.8	2.4	22.7
Atlas ¹	Probable	5,000,000	9,477,000	8.1	15.5	767,637	73.3	50.7	4.5	7.5	10.6
Total Atlas		5,000,000	9,477,000	8.1	15.5	767,637	73.3	50.7	4.5	7.5	10.6
Total Ore Reserves		15,573,000	29,335,000	7.5	15.9	2,193,837	75.8	50.5	2.7	4.2	18.4

1. COMPLIANCE STATEMENT - Boonanarring/Atlas Ore Reserves

The Ore Reserves statement has been compiled in accordance with the guidelines of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC Code – 2012 Edition). The Ore Reserves have been compiled by Jarrod Pye, Mining Engineer and full-time employee of Image Resources, under the direction of Andrew Law of Optiro, who is a Fellow of the Australasian Institute of Mining and Metallurgy. Mr Law has sufficient experience in Ore Reserves estimation relevant to the style of mineralisation and type of deposit under consideration to qualify as a Competent Person as defined in the 2012 Edition of the “Australasian Code for Reporting of Mineral Resources and Ore Reserves”. Mr Law consents to the inclusion in the report of the matters compiled by him in the form and context in which it appears.

Example Products and Prices



Notes: VHM assemblages and commodity prices are estimates based on Boonanarring project heavy mineral concentrate product.

Increase in premium Zircon Prices and Grades has increased Zircon Revenue to over 85% of total.

Base Assumptions

- Start mining at Boonanarring
- Dry, open-cut mining
- Production rate - 500 dry tonnes per hour
 - 3.7M dry tonnes per year
- Conventional gravity separation using spirals
- Product: Heavy Mineral Concentrate (HMC)
 - Production rate: avg. approx. 240K tonnes/annum
 - No further processing or separation required
 - Truck to Bunbury for bulk shipments to China

Punches 4 times above its weight*!

** -Equivalent in revenue to
2,000 tonnes per hour at
Ore grades of
3% HM in ore and
10% zircon in VHM*

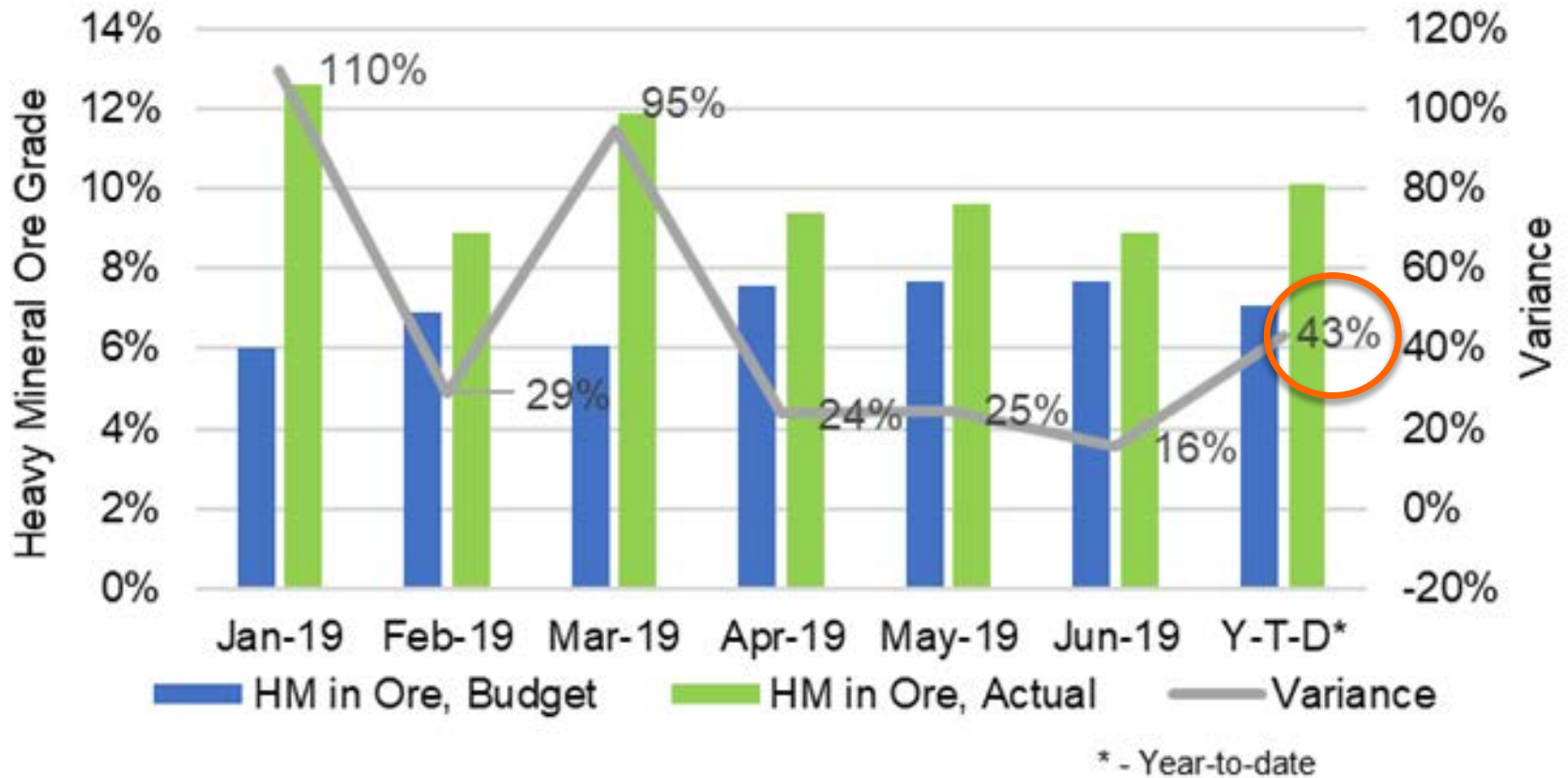
Average annual production at Boonanarring: 5 Year Base Case

- 240k tonnes HMC p.a. containing:
 - 60kt zircon (70kt/year in 2019-20)
 - 130kt ilmenite
 - 6kt rutile
 - 4kt leucoxene

- 5+ years mine life with potential to add 3-4 years additional reserves (north, south and new strand to west of WCP)



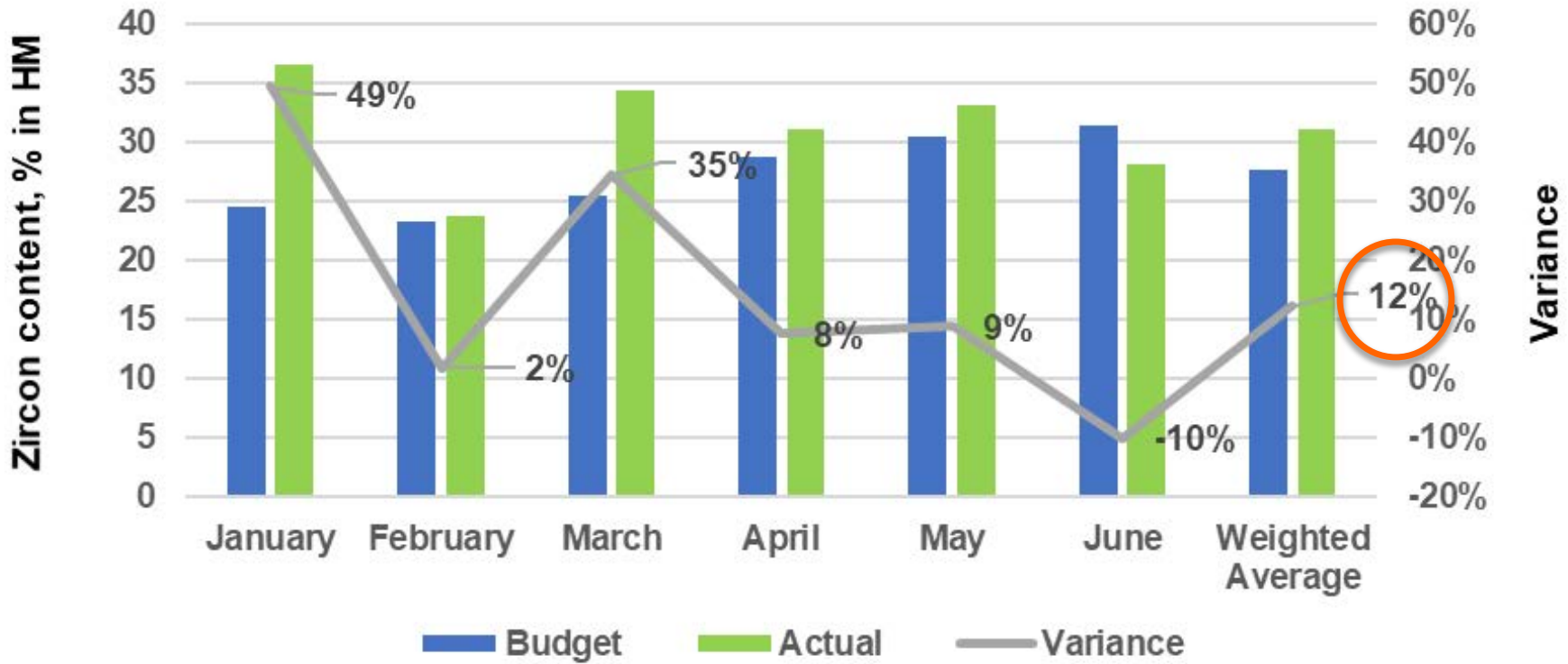
Heavy Mineral Ore Grade



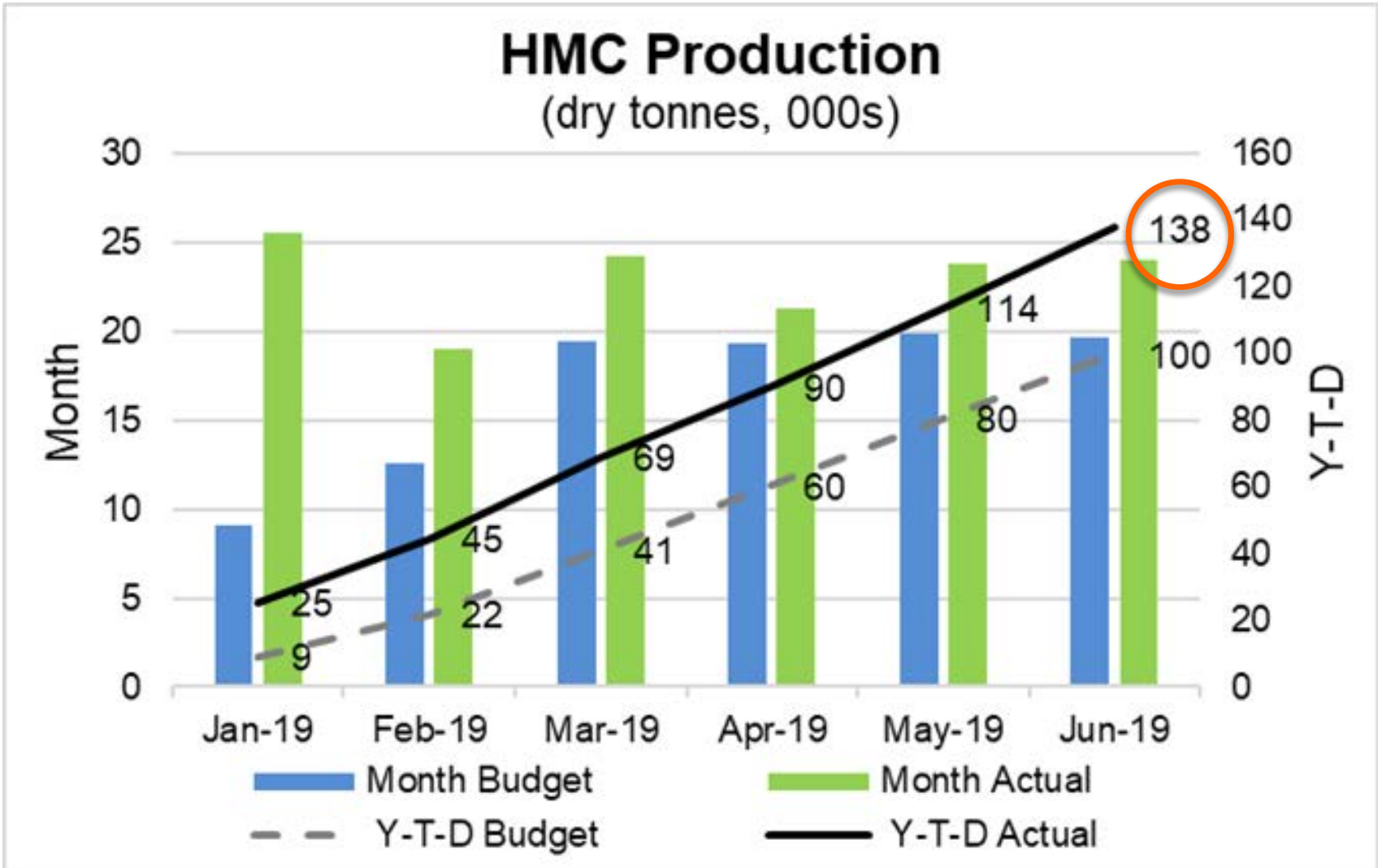
Boonanarring – Zircon Grade in Ore HM



Zircon Content in HM (in Ore)



Boonanarring – HMC Production



Recent Announcements



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- **13 May 2019: 'Image Mines Ultra-High-Grade Ore'**
 - Identification of zone of direct shipping ore (DSO) at up to 95%HM and 70% zircon in the HM
 - DSO zone 4-6m wide by 1-3m thick and ending approximately 60m along strike and beyond into next mining section; 500 tonnes DSO mined
- **27 May 2019: 'Image Secures Sales Agreements for all Current HMC Inventory'**
 - Sales commitments for 70K tonnes of HMC valued at >A\$35M. Total of approx. 3,000 tonnes DSO mined
- **2 July 2019: 'Image Completes Sales of 70,000 Tonnes HMC Inventory in June Quarter'**
- **15 July 2019: 'Confirms High Grade Core in Eastern Strand at Boonanarring'**
- **17 July: 'Secures Drilling Access to High Grade Nth Extension at Boonanarring'**
- **23/24 July: Quarterly Results & Guidance Upgrade**

Boonanarring – 2019 Guidance



2019 Guidance & 2020 Forecast ^{1,2,4}	Units	YTD Actual	2019 Guidance	2020 Forecast
HMC ³ Produced	DMT 000s	138	240-260	280-300
HMC ³ Sold	DMT 000s	116	230-250	280-300
Revenue	A\$M	67	130-145	180-200
Revenue/DMT Sold	A\$/DMT HMC	579	568-592	600-650
Project Operating Costs	A\$M	38	75-85	85-95
Project Opex./DMT Sold	A\$/DMT HMC	325	320-350	310-330
Project EBITDA	A\$M	29.5	55-65	90-100

Notes:

1. To be read in conjunction with slide 2 - Disclaimer and Forward-Looking Statements.
2. Further details regarding YTD actuals can be found in the 30 June 2019 Quarterly Report announced 23 July 2019.
3. Heavy Mineral Concentrate product.
4. Non-IFRS Financial Information:

This document contains non-IFRS unaudited financial measures including Project operating costs and Project EBITDA. Image management considers these to be key financial performance indicators used to measure underlying operational performance. Project operating costs include costs incurred in producing HMC at the Boonanarring Project plus logistics costs but exclude corporate and exploration costs, depreciation/amortisation, financing costs and income tax. Project EBITDA is calculated as revenue from sale of HMC less Project Operating Costs.

Upside Potential

Upside potential at and near Boonanarring

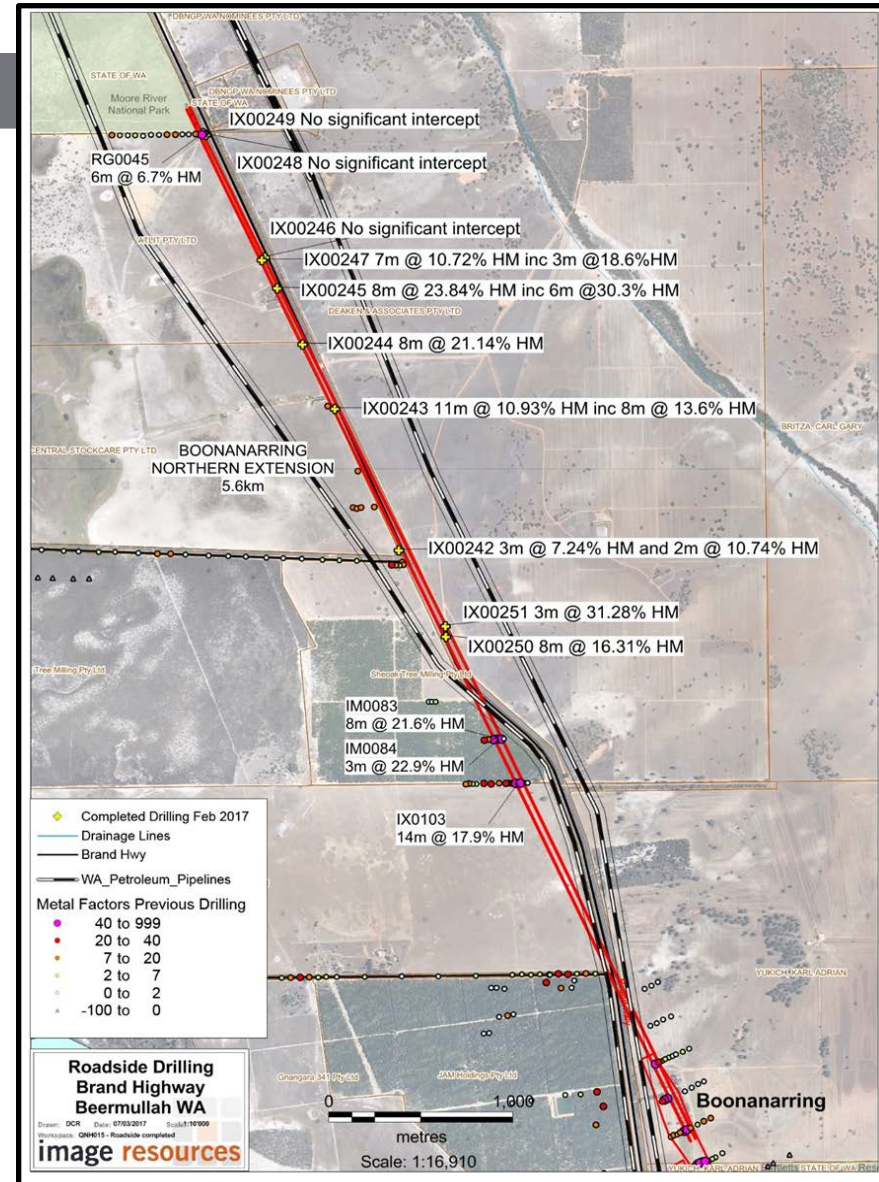
- Confirmed potential to extend mine life with high grade mineralisation (ASX announcement 13 March & 26 June 2017);
 - Assuming mineralisation in extension area is identical to known Ore Reserves in all aspects and economics; **two years of additional mine life could add AU\$60M to project NPV.**
 - Access to land to the north of Boonanarring announced 17 July 2019 with drilling planned for 2nd half 2019.
 - Potential to add additional mine life west and south of current reserves
- Potential to process ores from several other deposits with high grade mineral resources in the vicinity;
 - Red Gully, Regans Ford, and Gingin (South and North).

Boonanarring High-Grade Extension

ASX - 13 March & 26 June 2017

Drilling Results (Feb 2017)

- Confirm 5.6km northern extension of Boonanarring mineralisation
- **Outstanding high grade intersections:**
 - **8m @ 23.8% HM in IX00245**
 - **8m @ 21.1% HM in IX00244 and**
 - **8m @ 16.3% HM in IX00250**
- Importantly with high grade zircon:
 - **21.5% Zr in HM in IX00245 & 247**
 - **22.1% Zr in HM in IX00243 & 244**
 - **16.4% Zr in HM in IX00242, 250, 251**
- Additional drilling on part of northern extension planned for 2nd half 2019 - access secured July 2019.

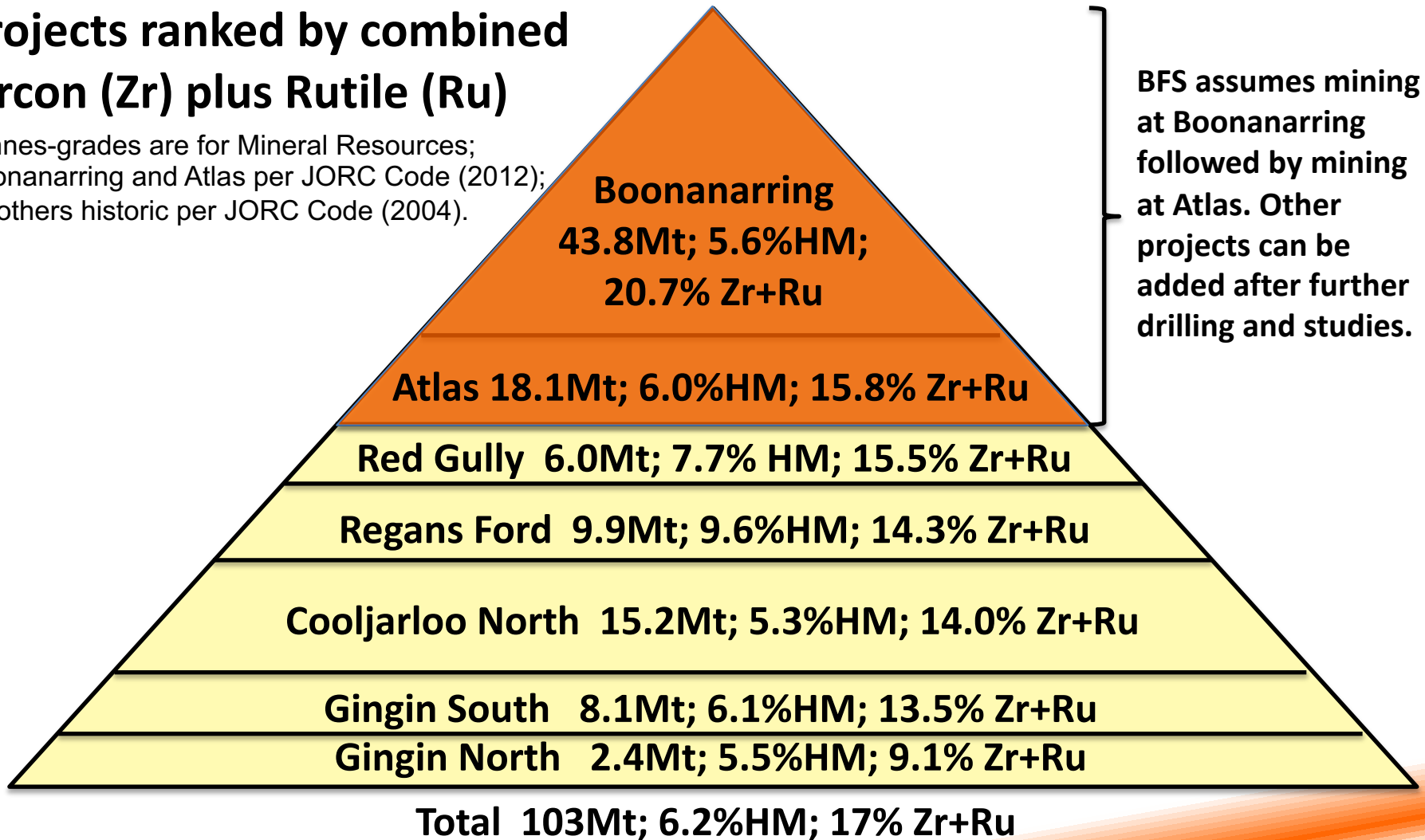


Projects Pyramid – Strand Deposits

Mineral Resources – Accessible by Dry Open-Cut Mining

Projects ranked by combined Zircon (Zr) plus Rutile (Ru)

Tonnes-grades are for Mineral Resources; Boonanarring and Atlas per JORC Code (2012); All others historic per JORC Code (2004).



Projects Pyramid – Dredge Prospects

Mineral Resources – Accessible by Dredge Mining

Projects ranked by HM Grade

Tonnes-grades are for historic Mineral Resources per JORC Code (2004).

Bidamina
45Mt; 3.0%HM;
6.5% Zr+Ru

Titan-Telesto 140Mt; 1.9%HM; 12.8% Zr+Ru

Calypso 51Mt; 1.7% HM; 15.9% Zr+Ru

Total 236Mt; 2.1%HM; 11.5% Zr+Ru

Positive attributes

- 90+%VHM;
- <5% slimes;
- 25-67% Leucoxene;
- 100Mt exploration target.

Potential focus for 2nd operating centre.

Potential Royalty from Tronox

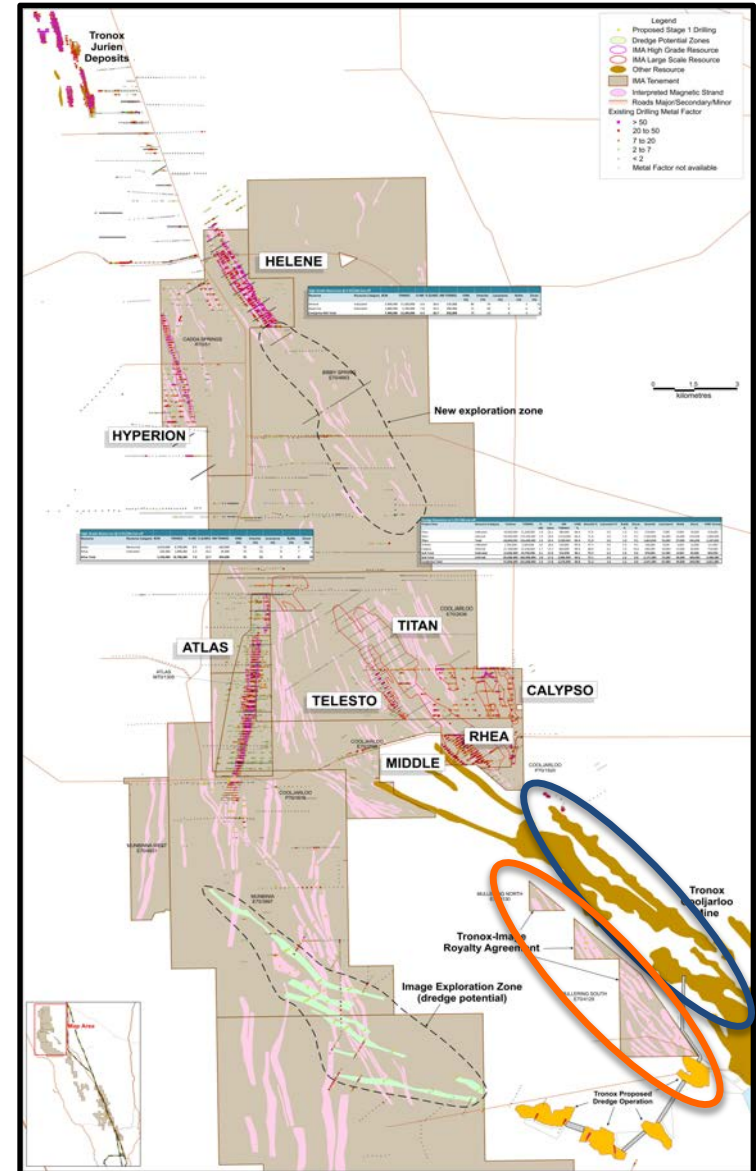
Royalty agreement in place as of 2014

- Small cash payment (already received)
- Sliding-scale royalty on production

<u>Avg. HM Grade</u>	<u>Royalty</u>
2.5%	1.25%
3.0%	2.50%
3.5%	3.75%
4.0%	5.00%

- Indefinite production schedule
- Potential for future arrangements with Tronox or others based on large area of potential dredge mining mineralisation within Image's tenements in the vicinity of Tronox's historic dredge operations.

 Tronox historic mining area
 Image-Tronox royalty area



Heads of Agreement with **Sunrise Energy Group Pty Ltd** to provide 2 to 2.5 MW_{AC} solar farm to be:

- Constructed and operated by Sunrise Energy;
- Located on Image owned land adjacent to Boonanarring mine site; and
- Providing 25% of total electricity requirements for mine and processing operations.



For further information

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