

HONEYMOON URANIUM PROJECT

Australia's Next Uranium Producer



HONEYMOON URANIUM PROJECT

Best project for an uncertain market with a short lead time to production

- Few uranium projects ready to participate in the early stages of a new bull market
- Located in South Australia, the premier uranium jurisdiction
- **Fully permitted uranium operation** with annual uranium export licence of 3.3M lbs
- Heritage and Native Title mining agreements in place
- **JORC Resource of 63.3Mlb U₃O₈**
- **Exploration target in excess of 100M lbs U₃O₈**
- **\$170M of established infrastructure** - power, roads, airstrip, camp and water - that has history of uranium production and exportation
- Plant under care and maintenance in good condition
 - SX can be fast tracked into production in a short 9 - 12 months
 - Increased production through addition of an IX plant in 24 months
- **CAPEX debt mandate for up to US\$65M with Tribeca**



INVESTMENT HIGHLIGHTS

EXISTING OPERATIONAL PLANT

\$170m plant exists, successfully produced and maintained

9 months until production cf 7 -10 years average:

880,000 lbs	1 st Year	Quick Restart
2 Mlbs	2 nd Year	Redevelopment
3.3Mlbs	4 th Year	Long Term LOM

EXPERIENCED URANIUM TEAM

**Chairman / MD / CEO / Strategic Adviser ex- Husab
(Kalahari Minerals and Extract Resources)**

Husab will be largest mining and processing uranium mine in the world

Kalahari/ Extract takeover of \$2.2B

Husab mine build of \$2.8B



OPEX LOWEST COST QUARTILE

AISC of < US\$24 /lb

Cash Costs C1 of <US16 /lb

Uranium demand and prices expected to increase



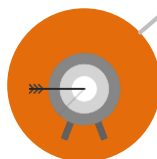
SIGNIFICANT RESOURCE TARGET

63.3Mlb U₃O₈ JORC Resource

100Mlb+ U₃O₈ significant exploration target

Huge 80+ km potentially mineralised strike

2,600km² underexplored uranium province



FULLY PERMITTED EXPORT LICENCE

Fully permitted uranium mine with production facility

3.3M lb export licence (1 of 4 only in Australia)

South Australian, 30 years + exportation of uranium world-wide



DIRECTORS

Mark Hohnen

Non-Executive Chairman

Mr. Hohnen was founding Executive Chairman of Kalahari Minerals Plc, a company founded in 2005 to explore for uranium and base metals in Namibia. Kalahari also held a 43% interest in Extract Resources Ltd; which was the subject of a CGN corporate transaction in 2012 valued at US\$2.2 billion for its majority shareholding in the world class Husab uranium mine in Namibia, one of the largest mining and processing uranium projects in the world.

Grant Davey

Non-Executive Director

Mr Davey is a mining engineer with over 25 years of senior management and operational experience in the construction and operation of mines in Africa, Australia, South America and Russia. He was previously responsible for the Vaal Reefs South Uranium plant between 2005 and 2008 when it produced up to 6 million pounds of uranium per year and was one of the largest uranium producers in the southern hemisphere at the time.

Duncan Craib

Managing Director & CEO

Mr Craib has served as Finance Director to Swakop Uranium (Pty) Ltd from 2012 to 2016 where he was heavily involved in the US\$2.5 billion development and construction of its world class Husab uranium mine in Namibia. Husab is currently being commissioned and once in production will be one of the largest mining and processing uranium projects in the world mining 150Mt on an annual basis and generating 15Mt of ore to produce 15Mlbs of uranium oxide.

Evan Cranston

Non-Executive Director

Mr Cranston is a corporate lawyer with a broad experience in the areas of capital raising, IPOs, joint ventures, mergers and acquisitions, and corporate governance.

Peter Williams

Non-Executive Director

Mr Williams is a leading international geophysicist, and has extensive experience in West Africa where he was the vendor of Gryphon Minerals' Banfora Gold Project, and continues to be closely involved with the Burkina Faso gold projects which are held in Joint Venture with Teranga Gold Corporation.

EXECUTIVE

Sashi Davies

Strategic and Marketing

Ms Davies has over 35 distinguished years of experience in the international uranium sector. She has extensive marketing expertise and an in-depth uranium knowledge base, having developed long-lasting relationships with international utilities and off-takers.

Marat Abzalov

Geology and In-situ Recovery

Dr Abzalov is a geologist with over 30 years' post-graduate geology experience. This includes 9 years with WMC Resources Limited and 9 years with Rio Tinto Limited with extensive experience in Kazakhstan uranium projects.

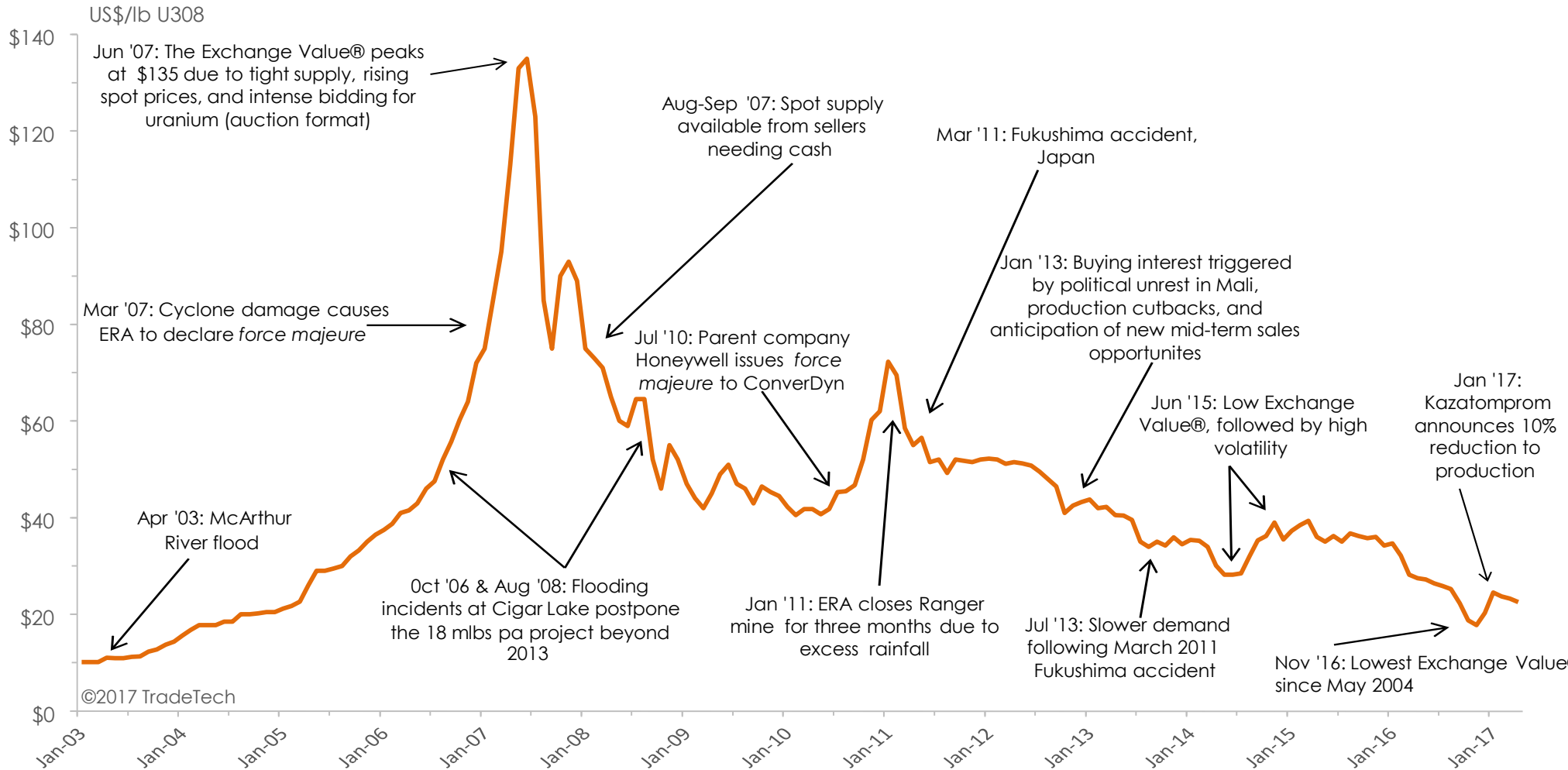
Keith Bowes

Project and Metallurgical

Mr Bowes is a process engineer with 20 years' experience in metallurgy, project management and operations. He has worked in Africa, South America and Australia for the major mining houses on projects and plants covering a wide range of commodities and processes. He has been involved in a number of technology developments and has successfully incorporated these into various projects and operating plants.

URANIUM SPOT MARKET

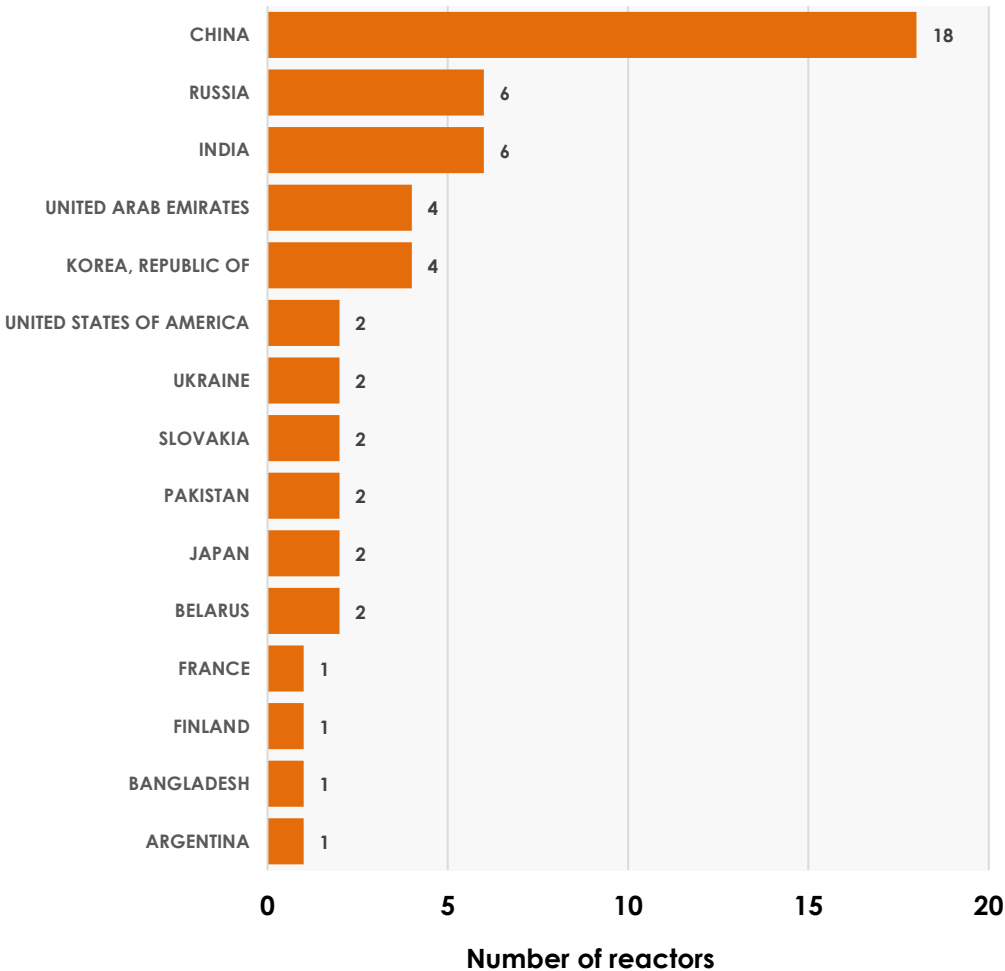
The Spot Market is Perception and Event Driven



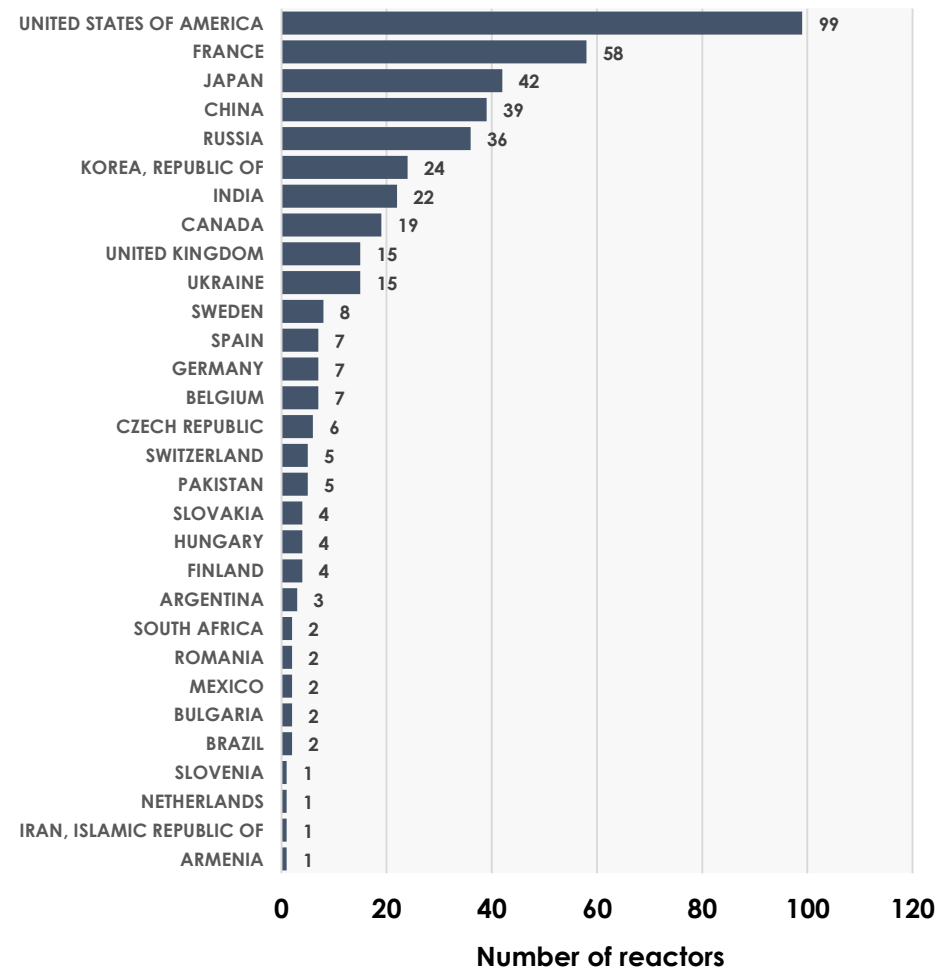
CURRENT GROWTH IN NUCLEAR CAPACITY

Highest level of construction in 25 years: 58 reactors worldwide

Reactors under construction (58)

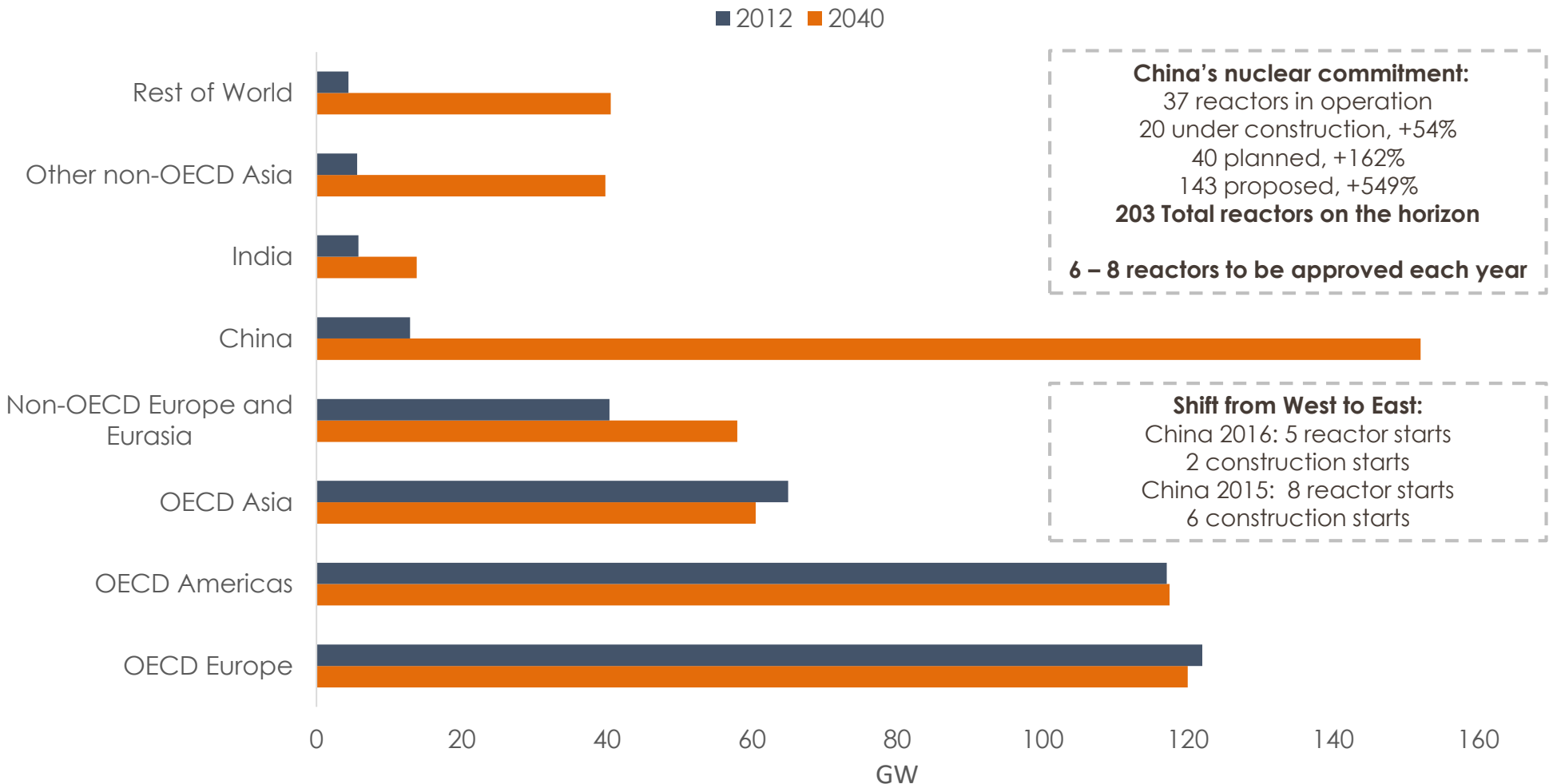


Reactors in operation (449)



GROWTH IN INSTALLED NUCLEAR CAPACITY

Significant increase in reactors operating (and under construction, planned, proposed)

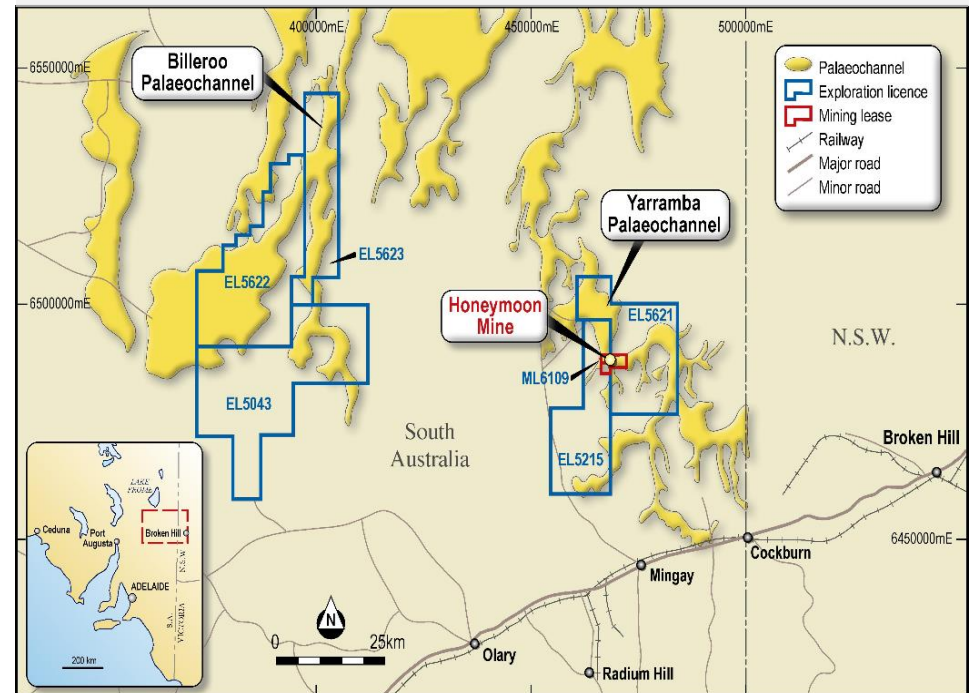


HONEYMOON PROJECT

JORC Resource ~ 63.3 Mlb U₃O₈

- Honeymoon located 75km NW of Broken Hill, South Australia
- South Australia highest grade un-mined uranium resources
- International destination of choice by utilities seeking low geopolitical risk to source uranium supply mix
- South Australia very encouraging of uranium development with excellent track record stakeholder support
- **JORC Resource of 63.3Mlb U₃O₈** with Exploration target in excess of 100M lbs U₃O₈
- Mineralisation at 90-120m depth
- DFS Leveraging off economies of scale through increased throughput and reduced operating cost
- Fully permitted with 3.3M lb export licence

Classification	Million Tonnes	U ₃ O ₈ Ppm	Contained U ₃ O ₈ (Mkg)	Contained U ₃ O ₈ (Mlb)
Measured	1.7	1,720	2.95	6.5
Indicated	5.9	810	4.8	10.6
Inferred	35.9	586	21.0	46.2
Total	43.5	660	28.8	63.3



Note: Figures have been rounded. Quoted resources have been adjusted to exclude previous production of approximately 335t of U₃O₈. Covering the Eastern and Western Tenement Regions. Reported Above a preferred 250ppm U₃O₈ lower cut-off.

HONEYMOON PROJECT

Exploration Upside ~ 100Mlb

Eastern Tenements

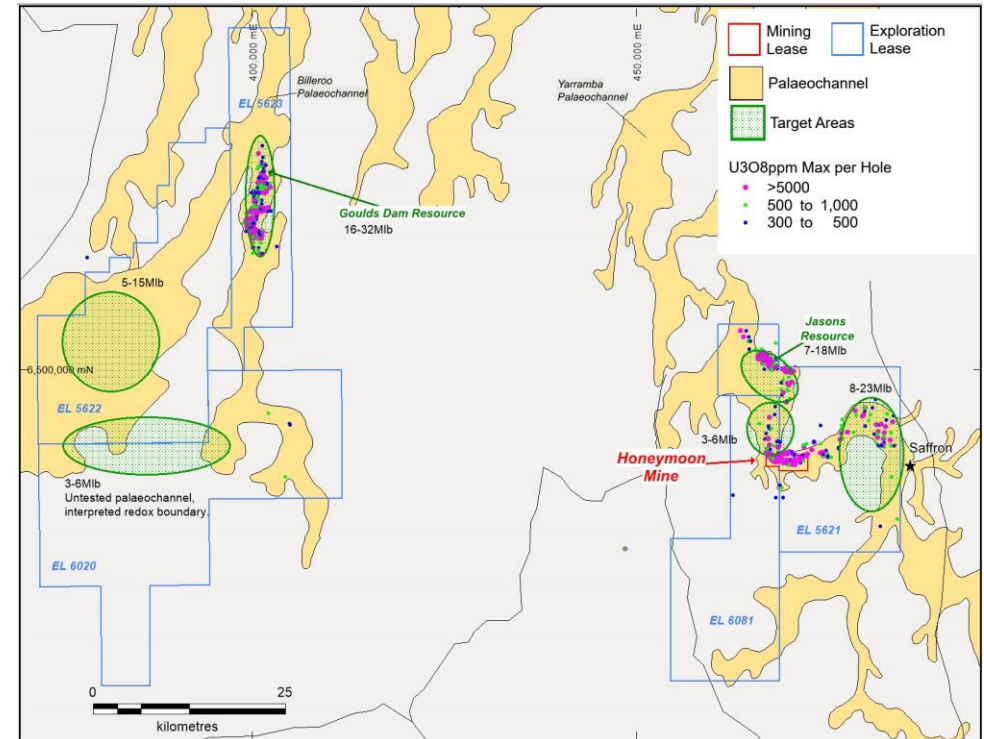
- Close proximity to the processing plant
- Regional scale assessment by proven methods (airborne EM)
- Significant historical intercepts, including > 1,000ppm U₃O₈ associated with well defined paleochannel

Western Tenements

- Highly prospective, massively underexplored ~ 40km untested paleochannel extends
- EL5043 has pegmatite hosted mineralisation up to 3.5% U₃O₈ (grab sample)
- Significant historical intercepts, including > 1,000ppm e U₃O₈ drilling (1960 – EAR19)

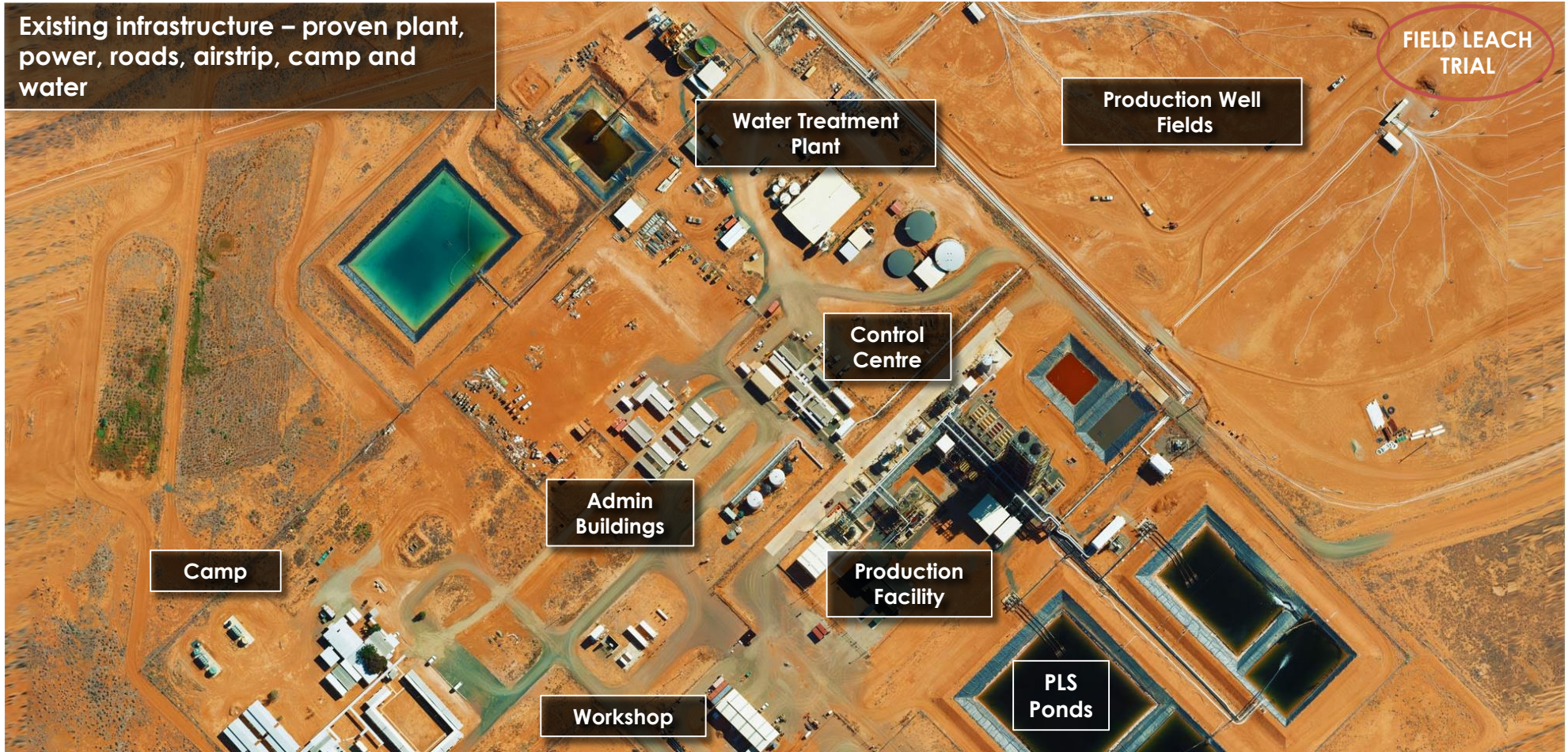
The Exploration Target is conceptual in nature as there has been insufficient exploration to define a Mineral Resource. It is uncertain if further exploration will result in the determination of a Mineral Resource under the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves, the JORC Code" (JORC 2004). The Exploration Target is not being reported as part of any Mineral Resource or Ore Reserve.

AREA	Million Tonnes	U ₃ O ₈ Ppm	Targeted U ₃ O ₈ (Mlb)
Eastern Tenements	10 - 25	380 – 1,200	18 - 47
Western Tenements	20 - 50	480 – 1,400	24 - 53
TOTAL	30 - 75	380 – 1,400	42 - 100

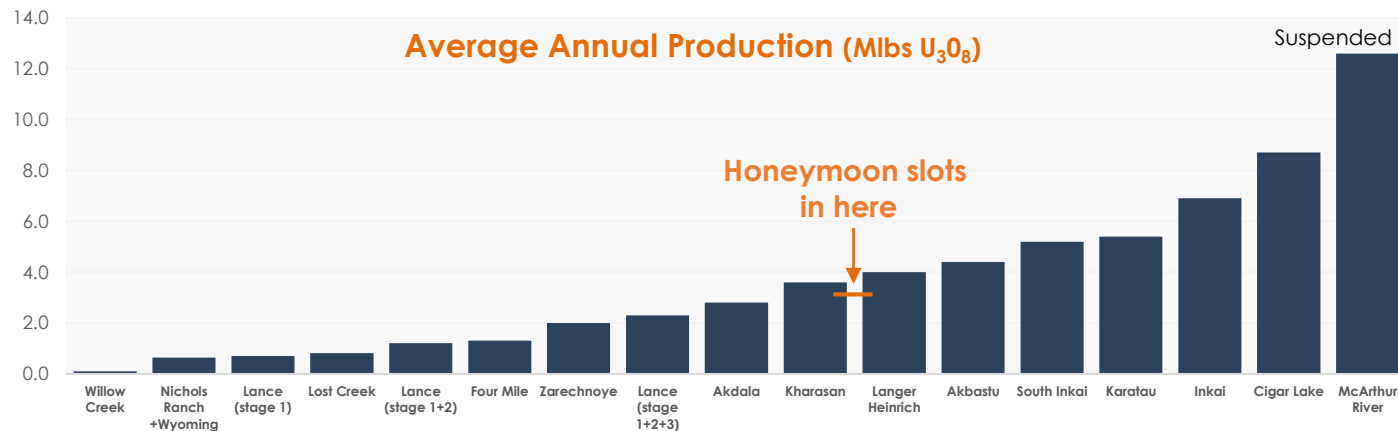
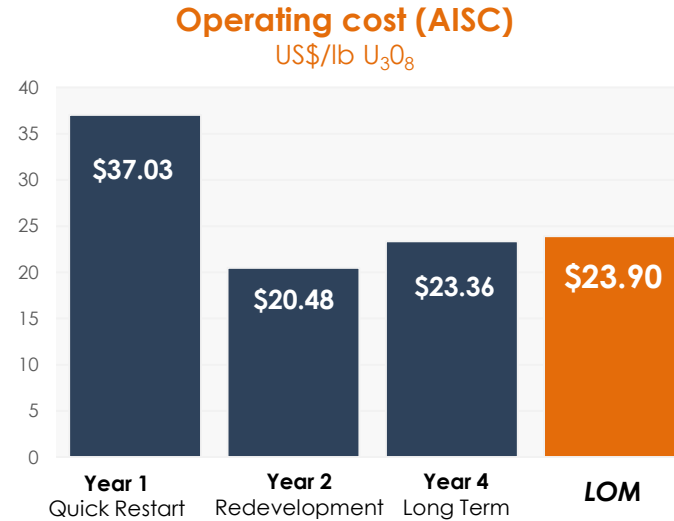
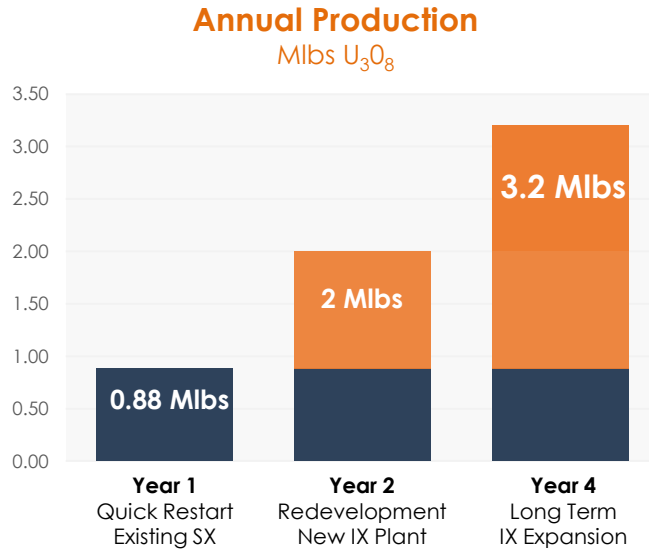


EXISTING INFRASTRUCTURE

A\$170M of Existing Infrastructure in Good Condition



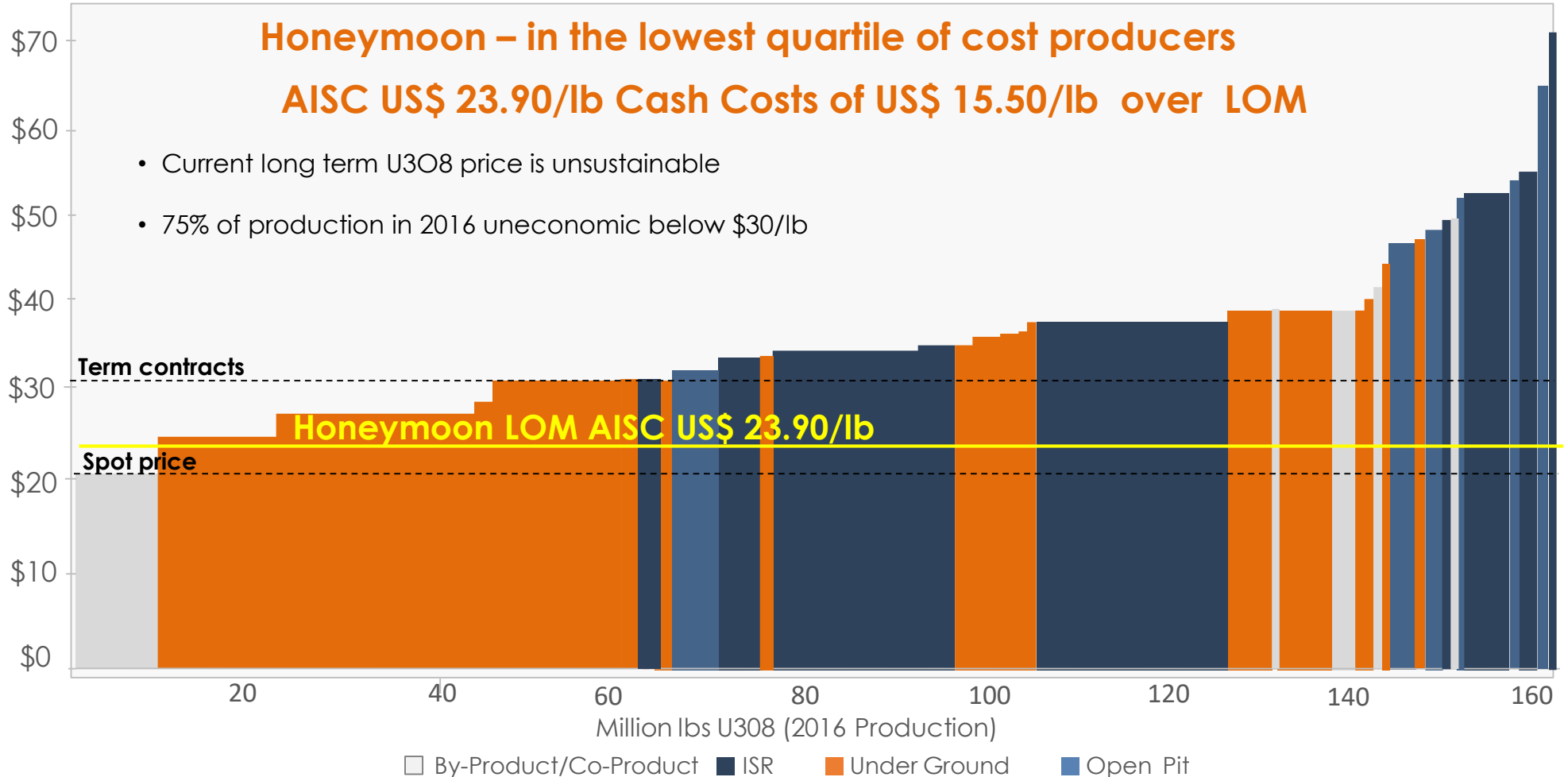
PROPOSED STAGED DEVELOPMENT



PRODUCTION COST CURVE

By Mine-type Contribution

US\$/lb U3O8



HONEYMOON RESTART

LOWEST CAPEX, LOW OPEX OPPORTUNITY

Tribeca investment partners appointed to act as arranged and underwriter for CAPEX facilities of up to US\$65M

PROJECT PARAMETERS		Annual Production	All-in Sustaining Cost	Cash Cost	Production Process	CAPEX spend
1st Year	Quick Restart	880,000 lbs	US\$37.03/lb U ₃ O ₈	US\$22.50/lb U ₃ O ₈	Solvent Exchange SX	US\$10M
2nd Year	Redevelopment	2,000,000 lbs	US\$20.48/lb U ₃ O ₈	US\$12.97/lb U ₃ O ₈	Ion Exchange IX	US\$58M
4th Year	Long Term	3,200,000 lbs	US\$23.9/lb U ₃ O ₈	US\$15.50/lb U ₃ O ₈	IX Expansion	US\$78M

Low AISC + low CAPEX is key advantage for Boss; rare combination outside Kazakhstan. BOSS would commence restart discussions on evidence of a sustainable spot price above US\$30/lb.

LIFE OF MINE

AISC of < US\$24 /lb

Cash Costs C1 of <US16 /lb

REAL OPPORTUNITY FOR BOSS RESOURCES

Running out of fuel is not an option for Nuclear Plants.

U_3O_8 only represents ~ 8% of OPEX for plants, so they can absorb the expected increase.

Honeymoon can quickly be in production:

- Fully Permitted with Export Licence of 3.3M lb pa
- Resource 63.3M lb U_3O_8 JORC
- Existing plant – Replacement cost of \$170M
- AISC of < US\$24 /lb
- Highly experienced team uranium credentials

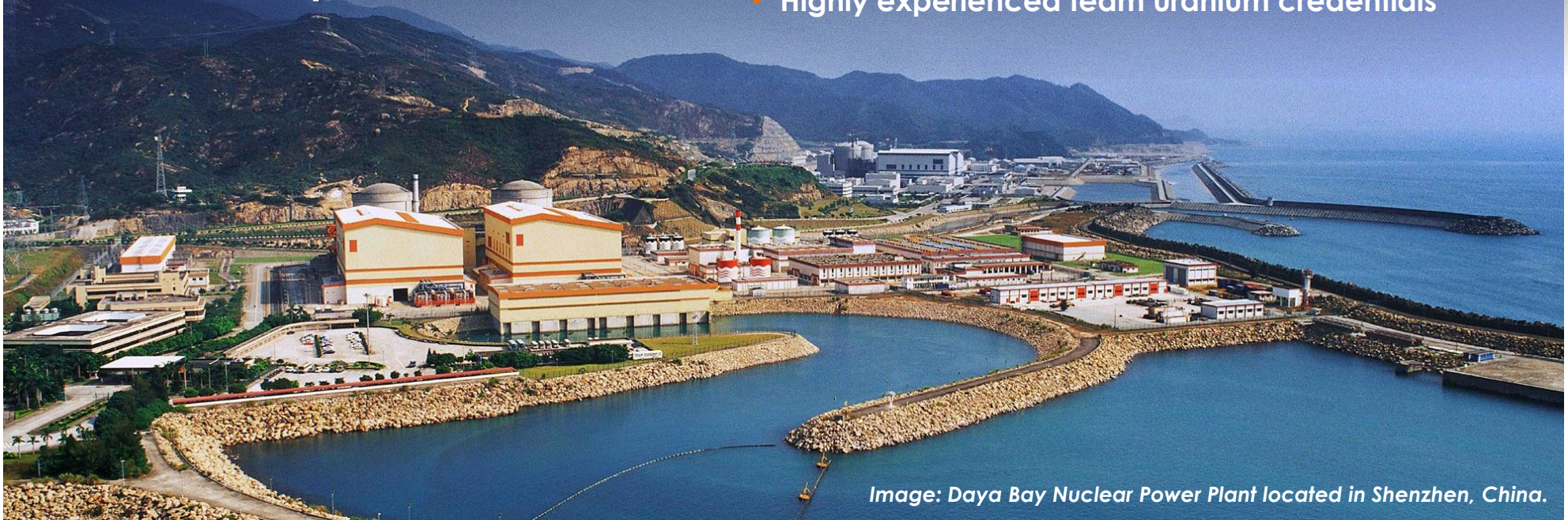


Image: Daya Bay Nuclear Power Plant located in Shenzhen, China.

GLOBAL PEER COMPARISON

Honeymoon is one of the most advanced uranium development projects; can resume production within 12 months

Macroeconomic Factors

- Significant opportunity**

Spot price US\$20/lb

Consensus US\$50-60/lb

~increase 100% - 200%

- Rising demand**

Significant long term supply shortage is emerging, strong fundamentals supporting a positive price outlook

- Reduced production**

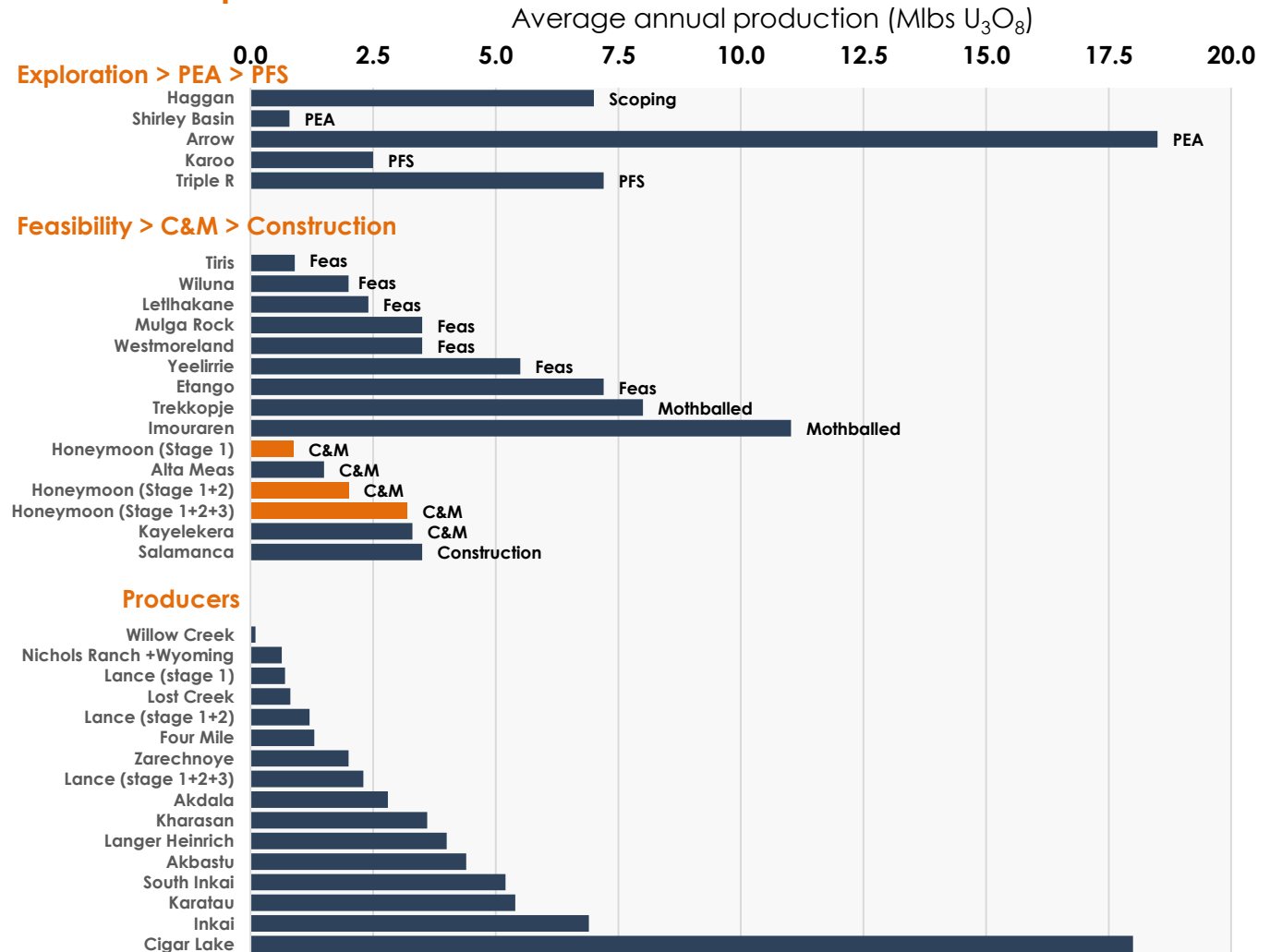
No new production can be built economically at current prices

- Cutting supply**

Unsustainable low prices raise the possibility of further supply side cutbacks

- Legacy contracts expiring**

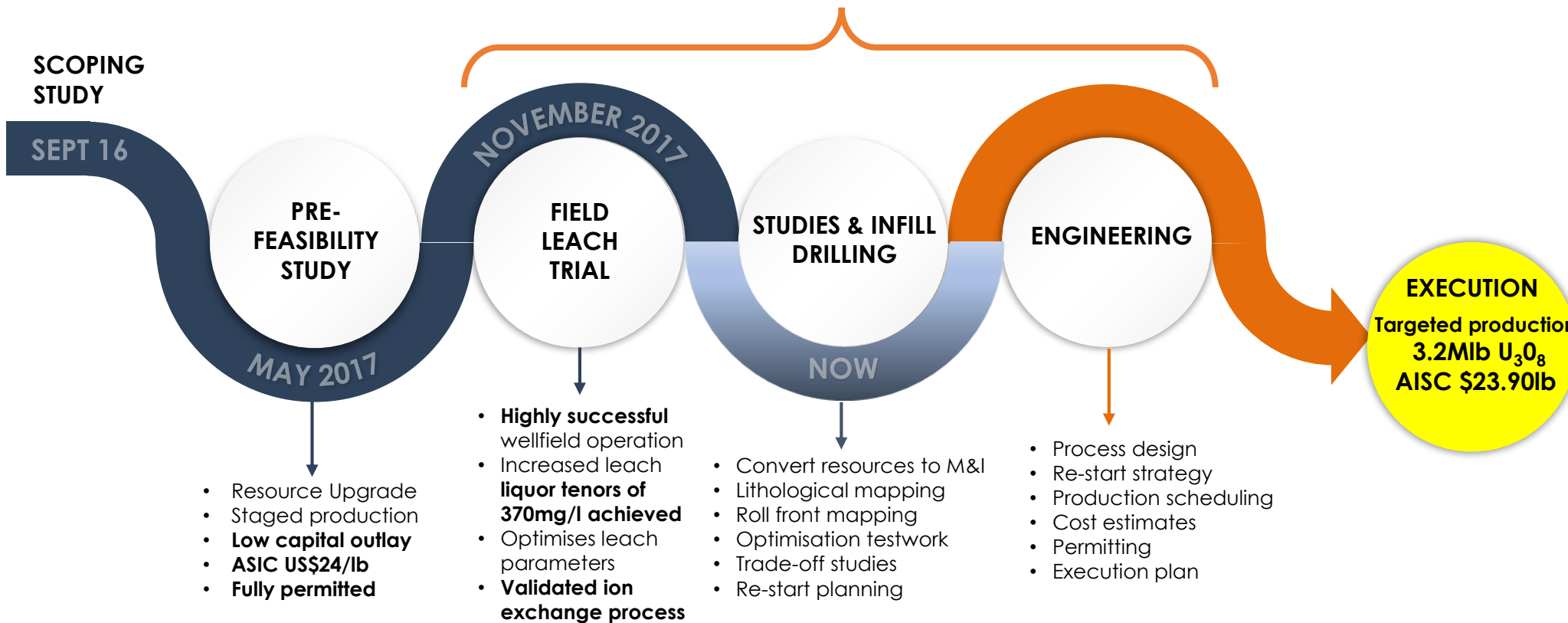
Many long-term contracts entered into at high prices end around 2019/ 2020 Producers tightening supply, requiring long term contracts in excess of \$40/lb



PATH TO RECOMMENCING PRODUCTION

Independently assessed by GR Engineering and ANSTO

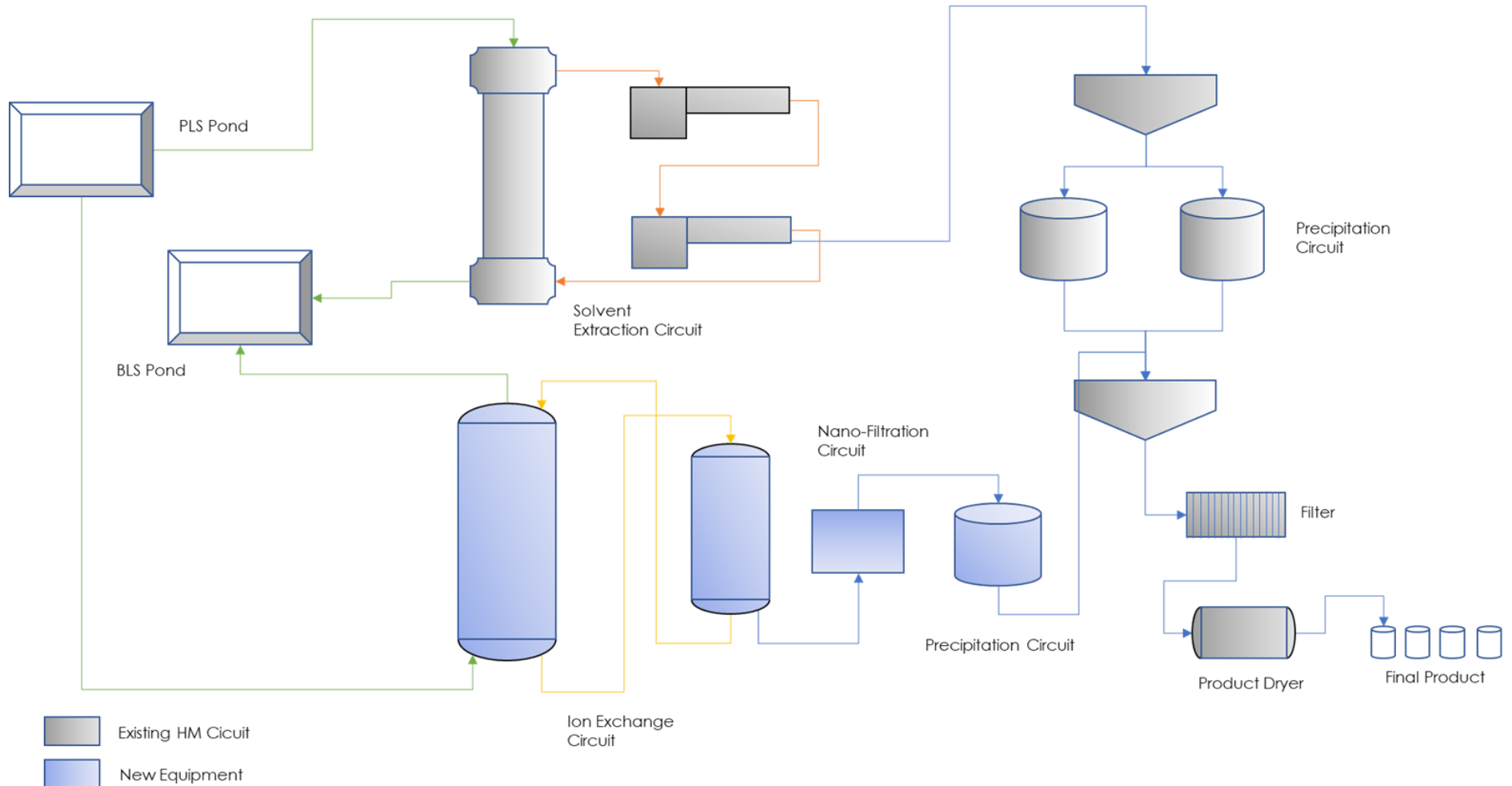
Strategy to Advance Honeymoon Restart



Expansion Study	Resource Upgrade	Pre-feasibility Study	Field Leach Trial	Acquire 100% Honeymoon	Drilling & Engineering	Quick Restart	Redevelopment
✓	✓	✓	✓	✓	9 Months	9 Months	Year 2

INCORPORATION OF ION EXCHANGE

Commence with Solvent Extraction, expand with Ion Exchange => targeted 3.2 Mlbs U₃O₈ per annum



EXISTING INFRASTRUCTURE \$170M

Maximize utilization of the existing infrastructure with quick start potential



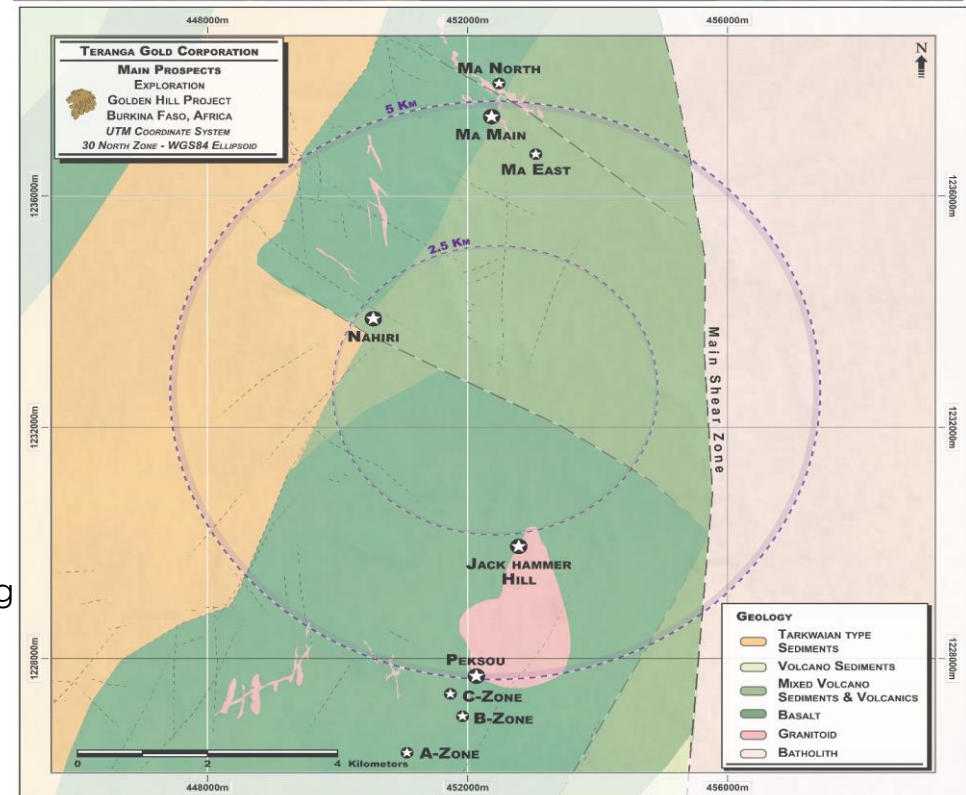
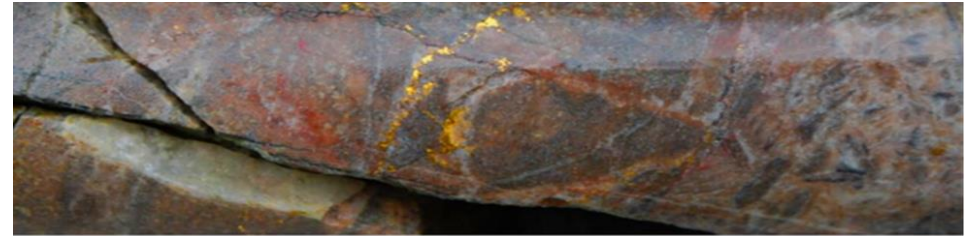
BURKINA FASO GOLD PROJECT

Joint Venture salient terms

- Teranga Gold Corporation (TSX: TGZ) owns 51% interest in the Burkina Faso gold assets
- Boss 49% free carried to DFS and decision to mine
- Thereafter Teranga's interest will be 70%
- Teranga then has right to acquire additional 10% for \$2.5M
- Boss may elect to contribute on pro-rata basis the remaining 20% or convert to an NSR of 1.5%

Rapid Advancement of Exploration Activities on Golden Hill tenements

- Early exploration drilling results highlight exciting intercepts at relatively shallow depth
- Five prospects are all located within 5 km of a central point, which could support mining around a central mill
- Ma Prospect is developing into a Mineralised System that is more than 2 kilometres in length
- Recent near-surface drill intersections were in the 2 - 5 g/t Au range over 2 - 10m widths, suggesting favourable mining parameters (Jackhammer Hill results 14 m @ 110.6 g/t Au including 5m @ 306.7 g/t Au including 1m @ 1,499 g/t Au (48 oz/t))
- Exploration program expanded to over half a dozen additional targets, initial resource estimate by year-end



CORPORATE STRUCTURE

Trading Information (as at 4 June 2018)

Share price	6.4cents
Shares on Issue	1,574m
Options On Issue ¹	55.5m
Performance Rights ²	37.3m
Market capitalisation	A\$101m
Cash on hand (at 20 May 2018)	A\$7.25m

¹ Average exercise price of 6.5 cents per share, 10m expiring Aug 2018 and 30m in Jan 2020.

² Comprises performance rights to Chairman (14m) and 26.6m rights that will vest upon discovery and decision to mine of Ni JORC resource on Scandinavian Project.

Board of Directors

Mark Hohnen	Chairman
Duncan Craib	Managing Director
Evan Cranston	Non-exec Director
Grant Davey	Non-exec Director
Peter Williams	Non-exec Director

Technical Advisory Board

Marat Abzalov	Geology & ISR
Sashi Davies	Strategic & Marketing
Keith Bowes	Project & Metallurgical

Historical Share Price



Average daily trading volume (3 months) **3,734,591**

Average daily trading volume (6 months) **3,873,871**

Board and Management	26%
Institutional holdings	20%
Top 20	55%
Top 50	71%
	%
Mr Grant Davey	19.8%
Tribeca Investment Partners	5.46%
Mr Antonius Smit	5.28%
National Nominees	3.67%

DISCLAIMER

The information contained in this presentation or subsequently provided to any recipient of this presentation whether orally or in writing by or on behalf of Boss Resources Limited (“Boss”) or its respective employees, agents or consultants (Information) is provided to the recipients on the terms and conditions set out in this notice. The purpose of this presentation is to provide recipients with information relating to Boss Projects.

This presentation does not constitute investment advice and has been prepared by Boss without taking into account the recipient’s investment objectives, financial circumstances or particular needs. Each recipient must make his/her own independent assessment and investigation of Boss and its business and assets when deciding if an investment is appropriate and should not rely on any statement or the adequacy and accuracy of any information. This presentation is in summary form and does not purpose to be exhaustive. This presentation should be read in conjunction with Boss’ periodic and continuous disclosure announcements lodged with the Australian Securities Exchange, which are available to download at www.asx.com.au.

Boss makes no representation or warranty (either expressed or implied) as to the accuracy, reliability or completeness of the Information. Boss and its directors, employees, agents and consultants shall have no liability (including liability to any person by reason of negligence or negligent misstatement) for any statements, opinions, information or matters (express or implied) arising out of, contained in or derived from, or for any omissions from the presentation, except liability under statute that can not be excluded.

This presentation may contain forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of Boss. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward-looking statements.

This presentation does not constitute in any way an offer or invitation to subscribe for securities in Boss pursuant to the Corporations Act 2001 (Cth) and has not been lodged with the Australian Securities and Investment Commission.

The information in this document relating to the Expansion Study is extracted from the announcement entitled ‘Positive Expansion Study Results Progress The Honeymoon Uranium Project To PFS’ dated 28 September 2016 and the information relating to the Pre-Feasibility Study is extracted from the announcement entitled “Honeymoon Pre-Feasibility Study Heralds Near Term Production Potential” dated 31 May 2017. The information in this document relating to the Mineral Resources is extracted from the announcements released to the ASX on 20 January 2016, 8 April 2016, 14 June 2016 and 15 March 2017. The information relating to the Exploration Target is extracted from the announcement released to the ASX 8 December 2015. The information relating to the Exploration Results for the Jasons Deposit is extracted from the Company’s announcements dated 6 December 2016, 8 December 2016, 14 December 2016 and 3 February 2017. The information relating to the results from the Field leach Trial (FLT) and Ion Exchange Pilot Plant have been extracted from the announcements released to the ASX on 19 June 2017, 31 July 2017, 13 September 2017, 4 & 26 October 2017, 1 & 15 November 2017. The information in these announcements has been compiled and/or reviewed by Dr Marat Abzalov, who is a Competent Person as defined in the 2012 edition of the “Australasian Code for Reporting Mineral Resources and Ore Reserves”. Dr Abzalov has consented to the inclusion of the information in this presentation in the form in which it appears and confirmed that the form and context in which the Competent Person’s findings are presented have not materially changed since initial release to the ASX. Dr Abzalov is employed as a director by Boss Resources Limited.

The Exploration Target is conceptual in nature as 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 under the JORC Code 2012. The Exploration Target is not being reported as part of any Mineral Resource or Ore Reserve.

KEEP UP TO DATE WITH US:

 @Boss_Resources

 www.bossresources.com.au

