

DISCLAIMER AND NOTES

JORC AND NI 43-101 MINERAL RESOURCES AND ORE RESERVES

This presentation contains summary information about the Company's activities current as at the date of this presentation. The information in this presentation is of a general background nature and does not purport to be complete or contain all the information investors would require to evaluate their investment in the Company, nor does it contain all the information which would be required in a prospectus or product disclosure statement prepared in accordance with the Corporations Act 2001 (Cth). The Company is not responsible for updating, nor undertakes to update, this presentation. This presentation should be read in conjunction with the Company's other periodic and continuous disclosure announcements, available at http://www.paladinenergy.com.au.

This presentation includes statements that may be deemed "forward-looking statements". All statements in this presentation, other than statements of historical facts, that address future production, reserve or resource potential, exploration drilling, exploitation activities and events or developments that the Company expects to occur, are forward-looking statements.

Although the Company believes the expectations expressed in such forward-looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from the expectations expressed in the forward-looking statements. Factors that could cause actual results to differ materially from the expectations expressed those in forward looking statements include market prices, exploitation and exploration successes, continued availability of capital and financing and general economic, market or business conditions and risk factors associated with the uranium industry generally.

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In this presentation, for those deposits that are reported as conforming to the Joint Ore Reserves Committee (JORC) 2004 or 2012 code, the terms Inferred Mineral Resources, Indicated Mineral Resources, Measured Mineral Resources, Ore Reserves, Proved Ore Reserves, Probable Ore Reserves and Competent Person are equivalent to the terms Inferred Mineral Resources, Indicated Mineral Resources, Measured Mineral Resources, Mineral Reserves, Proven Mineral Reserves, Probable Mineral Reserves and Qualified Person, respectively, used in Canadian National Instrument 43-101 (NI 43-101).

The information in this presentation relating to the Mineral Resources and Ore Reserves for all of the Company's deposits other than Langer Heinrich, Michelin, Jacques Lake and Manyingee was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that this information has not materially changed since it was last reported. Refer to the Resource and Reserve Tables slide in the Appendix of this presentation.

Competent Persons Statement

The Mineral Resource estimates for the Langer Heinrich deposit were prepared by David Princep of Gill Lane Consulting. Mr. Princep has visited the Project on numerous occasions since 2003, with the most recent being in July 2016. Mr. Princep is a Fellow of the Australasian Institute of Mining and Metallurgy and a Chartered Professional Geologist. Mr. Princep has sufficient experience that is 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 Exploration Results, Mineral Resources and Ore Reserves (JORC 2012). Mr Princep approves of and consents to the inclusion of the information in this announcement in the form and context in which it appears.





WE ARE NOT STANDING STILL...

WE ARE PLANNING FOR A RAPID, RELIABLE RESTART



Verify C&M practices to ensure asset is preserved for low-cost restart Learn from 10 years of operation to ensure restart is safe, predictable and successful. Verify rights and obligations

Define further potential improvements and cost reduction initiatives to enhance value. Aspirational achievable target AISC¹ US\$30/lb



Prefeasibility study for rapid, low-risk restart (PFS1) completed in October 2019.

Note: Concept Study results are ± 30% accuracy PFS1 results are + 25%/-15%

¹ ASIC: All in Sustaining Cost



PREFEASIBILITY STUDY HIGHLIGHTS



Prefeasibility Study (phase 1 – PFS1) confirms 12-month execution lead time for low risk restart



Aspirational average life of mine AISC of US\$30/lb achievable



5.2Mlbpa production for restart confirmed for capital of US\$80M



Opportunity to increase production at restart to 6.5Mlbpa with additional, high return discretionary capital of US\$30M



Maiden Vanadium Mineral Resource of 38.8Mlb V₂O₅ declared



Potential for further AISC improvements as identified in the Concept Study of approximately US\$4.50/lb through significant process changes to be studied in Phase 2 of the PFS





PFS1 HAS CONFIRMED RAPID RESTART PLAN

 PFS1 confirms Concept Study results of comparatively low initial restart expenditure requirements of ~US\$80M for ~5.2 Mlbpa production capacity







Plant Repair & De-Preservation Costs US\$38M Operations Restart Costs **US\$42M**

(includes: first fill of reagents, recommissioning, mobilisation of equipment and tailings dam costs)

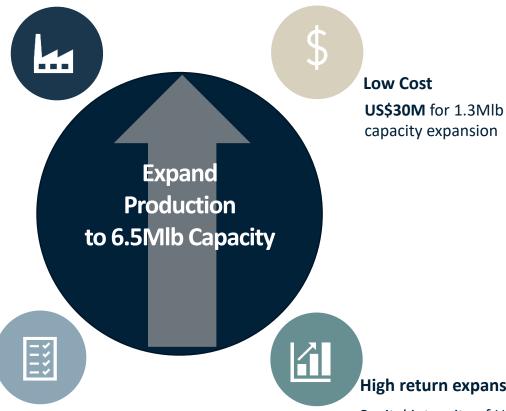




PALADIN IDENTIFIES LOW COST EXPANSION **OPPORTUNITY**

2021 Production Potential

Potential to be **production** ready from mid 2021 (funding and price dependent) if studies are completed in C&M window



Low Risk

No novel technology or processes. Grow by optimising our current approach

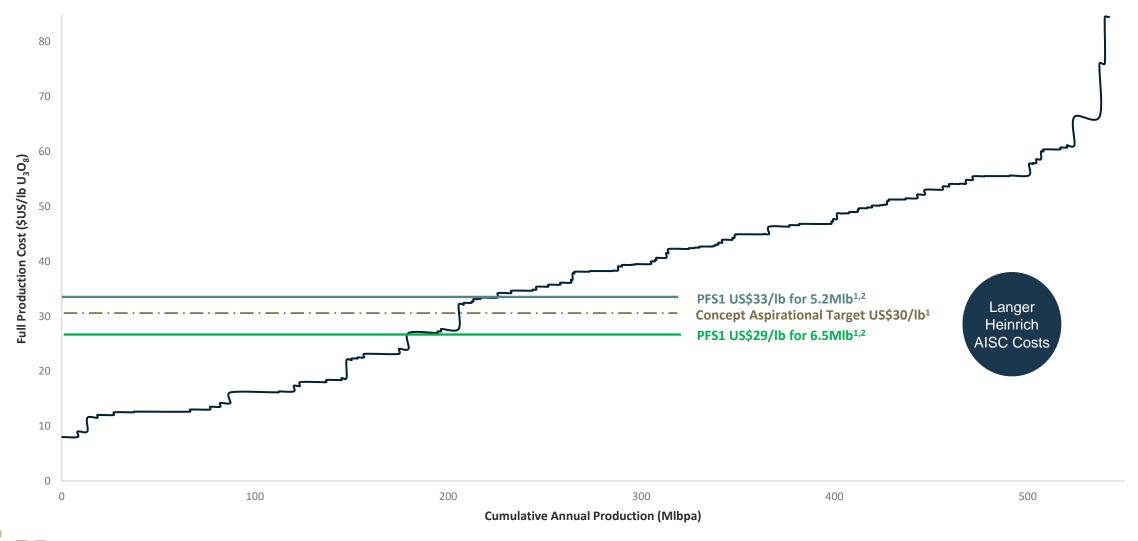
High return expansion

Capital intensity of US\$23/lb (leach debottlenecking, surge capacity, water storage, automation & reliability program)





WORLD WIDE PRODUCT COST CURVE – ALL PROJECTS





Source: UxC Production Cost Report 2019 – August 2019

Note ¹ AISC: All in Sustaining Cost based on the results of Paladin's Langer Heinrich Concept Study completed in February 2019; ² ASX Prefeasibility Study Announcement 14 October 2019

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RAPID PRODUCTION RESTART ON URANIUM PRICE RECOVERY

DESCRIPTION	STATUS	TIMING	PURPOSE		
Concept Study		Completed February 2019	Found no fatal flawsGenerated improvement options		
Prefeasibility Study 1 (Rapid Restart)		Prefeasibility Study 1 - completed October 2019	 RAPID RESTART STUDY (PFS1) Detailed restart plan Low risk production expansion by incremental debottlenecking reduces AISC to US\$29/lb (life of asset) Maiden Vanadium Mineral Resource 		
Prefeasibility Study 2 (Process Optimisation)	In Progress on greatly reduced scope	Prefeasibility Study 2 – complete test work of options selection February 2020	 PROCESSING UPGRADE STUDY (PFS2) Opportunities to reduce costs by ~US4.50/lb Reasonable prospects of Vanadium production Reduced scope to preserve cash. Will complete engineering at a later stage 		
Feasibility Study 1 (Rapid Restart)	Not committed	Undertake closer to restart decision – 9 months required	 +/- 10% accuracy Enable Rapid Restart to be triggered and clear path into production 		

1st uranium producer back into production





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RESOURCE & RESERVE TABLES

30 June 2019

Ore Reserves		Mt	Grade ppm U₃O ₈	Mlb U₃O ₈	Paladin Ownership (%)	Paladin Attributable (MIb)
<u>Namibia</u>	Langer Heinrich					
Proven		42	525	48.5	75	36.4
Probable		13.1	485	14	75	10.5
Stockpiles		30.8	355	24	75	18
Total Namibia		85.9	455	86.5	75	64.9
<u>Malawi</u>	Kayelekera					
Proven	•	0.4	1,170	1	85	0.85
Probable		5.3	880	10.4	85	8.84
Stockpiles		1.6	755	2.6	85	2.21
Total Malawi		7.3	870	14	85	11.9
Total Ore Reserves	;	93.2	490	100.5		76.8

Vanadium Mineral	Resources	Mt	Grade ppm V ₂ O ₅	Mlb V ₂ O ₅ (100% basis)	Paladin Ownership (%)	Paladin Attributable (Mlb)
Namibia	Langer Heinrich					
Measured ¹		66.2	160	23.3	75	17.5
Indicated ¹		18.8	140	5.8	75	4.4
Inferred ¹		6.3	135	1.9	75	1.4
Stockpiles ¹		30.8	115	7.8	75	5.9
Total Namibia		122.1	145	38.8	75	29.1

Refer ASX Announcement dated 14.10.2019 "Prefeasibility Study Delivers Improved Financials and Production Capacity For Langer Heinrich" p6: "Refer ASX Announcement dated 21.11.08 "Significant Resource Upgrade for Kaylelkera"; "Refer ASX Announcement dated 31.01.2018 "Correction to 30 June 2017 Annual Report" p013-15; "Refer SEDAR lodgment (TSX:FRG) dated 3.9.2001" Prioriteer Reports Positive Preliminary Economic Assessment for Michelin Urnaium Project," Refer ASX Announcement (ASX:SMM) dated 19.10.2011 "Resource Upgrade for the Valhalial Urnaium Deposit;" Refer ASX Announcement dated 4.0.2011 "Counterly Activities Report for period ending 31 March 2011;" Refer ASX Announcement dated 4.0.2011 "Counterly Activities Report for period ending 31 March 2011; "Refer ASX Announcement dated 31.08.2011" 30 June 2011 Annual Report" p29; "Refer ASX Announcement dated 41.01.2012" Quarterly Activities Report for period ending 31 December 2011*, "Refer ASX Announcement dated 31.08.2011" Quarterly Activities Report for period ending 30 June 2012", "Refer ASX Announcement dated 41.01.2012" Quarterly Activities Report for period ending 30 June 2012", "Refer ASX Announcement dated 41.01.2012" Quarterly Activities Report for period ending 30 June 2012", "Refer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" Manyingee Minerals Resources - Anneotiment dated 41.01.2014" Manyingee Minerals Resources - Anneotiment, "Pafer ASX Announcement dated 41.01.2014" M

The Group is not aware of any new information or data that materially affects the information in the relevant market announcements all material assumptions and technical parameters underpinning the estimates in the relevant market announcements continue to apply and have not materially changed.

Mineral Resource	es	Mt	Grade ppm U₃O ₈	Mlb U₃O ₈ (100% basis)	Paladin Ownership (%)	Paladin Attributable (MIb)
<u>Namibia</u>	Langer Heinrich					
Measured ¹		66.2	490	71.9	75	53.9
Indicated ¹		18.8	435	18.0	75	13.5
Inferred ¹		6.3	420	5.8	75	4.4
Stockpiles ¹		30.8	355	24	75	18.0
Total Namibia		122.1	445	119.6	75	89.7
Malawi	Kayelekera					
Measured ²		0.7	1,010	1.7	85	1.4
Indicated ²		12.7	700	19.6	85	16.7
Inferred ²		5.4	620	7.4	85	6.3
Stockpiles ²		1.6	755	2.6	85	2.2
Total Malawi		20.4	695	31.3	85	26.6
Canada						
Measured	Michelin ³	17.6	965	37.6	55	18.8
	Rainbow ⁴	0.2	920	0.4	55	0.2
Indicated	Gear⁴	0.4	770	0.6	55	0.3
	Inda ⁴	1.2	690	1.8	55	0.9
	Jacques Lake ³	13	630	18	55	9.0
	Michelin ³	20.6	980	44.6	55	22.3
	Nash ⁴	0.7	830	1.2	55	0.6
	Rainbow ⁴	0.8	860	1.4	55	0.7
Inferred	Gear ⁴	0.3	920	0.6	55	0.3
	Inda ⁴	3.3	670	4.8	55	2.4
	Jacques Lake ³	3.6	550	4.4	55	2.2
	Michelin ³	4.5	985	9.9	55	5.0
	Nash ⁴	0.5	720	0.8	55	0.4
	Rainbow ⁴	0.9	810	1.6	55	0.8
Total Canada	Kambow		860	127.7	55	63.9
Australia		67.7	800	127.7	33	03.9
Measured	Valhalla ⁵	16	820	28.9	100	28.9
Indicated	Andersons ⁶	1.4	1,450	4.6	100	4.6
iliuicateu	Bikini ⁷	5.8	495	6.3	100	6.3
	Duke Batman ⁸	0.5	1,370	1.6	100	1.6
	Odin ⁹	8.2	555	1.0	100	10.0
	Skal ¹⁰		640			
	Valhalla ⁵	14.3		20.2	100	20.2
	Carley Bore ¹¹	18.6	840	34.5	100	34.5
	Manyingee ¹²	5.4	420	5	100	5.0
	Andersons ⁶	8.4	850	15.7	100	15.7
Inferred	Bikini ⁷	0.1	1,640	0.4	100	0.4
		6.7	490	7.3	100	7.3
	Duke Batman ⁸	0.3	1,100	0.7	100	0.7
	Honey Pot ¹³	2.6	700	4	100	4.0
	Mirrioola ¹⁴	2	560	2.5	100	2.5
	Odin ⁹	5.8	590	7.6	100	7.6
	Skal ¹⁰	1.4	520	1.6	100	1.6
	Valhalla ⁵	9.1	640	12.8	100	12.8
	Watta ¹⁵	5.6	400	5	100	5.0
	Warwai ¹⁵	0.4	360	0.3	100	0.3
	Carley Bore ¹¹	17.4	280	10.6	100	10.6
	Manyingee ¹²	5.4	850	10.2	100	10.2
Total Australia		135.4	635	189.8	100	189.8

