

Building a Global Uranium Company

# 2023 AGM Corporate Presentation

John Borshoff Managing Director/CEO

**24 November 2023** 

**DYL:** ASX / NSX (Namibia)

**DYLLF: OCTQX** 



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#### Previously reported information

#### Namibian Mineral Resources

This Presentation contains estimates of Mineral Resources, Ore Reserves, Production Targets and Exploration Results of the Company. The Company confirms that it is not aware of any new information or data that materially affects the information included in previous announcements and in particular that announcement released to the market on 2 February 2023 entitled 'Strong Results from Tumas Definitive Feasibility Study'. All material assumptions and technical parameters underpinning the Mineral Resource and Ore Reserve estimates continue to apply and have not materially changed.

#### Australian Mineral Resources

Where the Company references exploration results, Mineral Resource and Ore Reserve estimates and ASX Announcements made previously it confirms that the relevant JORC Table 1 disclosures are included with them and that it is not aware of any new information or data that materially affects the information included in those ASX Announcements and in the case of Mineral Resources and Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the Announcements continue to apply and have not materially changed.

Refer to https://www.deepyellow.com.au/ or www2.asx.com.au for all prior announcements referenced.

#### Rounding

A number of figures, amounts, percentages, estimates, calculations of value and fractions in this Presentation are subject to the effects of rounding. Accordingly, the actual calculation of these figures may differ from the figures set out in this Presentation.



# Best Positioned Uranium Mid-Cap Company Globally



Deep Yellow has **global diversity**, which is seen as a necessity by off-takers – **located in two Tier-1 mining jurisdictions** 



**Significant production capability** - once in production, Deep Yellow will be the largest pure-play uranium producer on the ASX - **production capacity +7Mlb p.a.** 



Led by a **highly experienced uranium team** with extensive knowledge across the operational lifecycle, offtake contracting and project finance complexities – **proven mine builders** 



**Huge exploration upside** with potential to develop large scale, long-life projects within the Deep Yellow portfolio



**Delivering on vision** - 5 years successfully establishing a Tier-1 uranium platform and next 5 years focussing on execution to production while further growing the global resource base



Financially disciplined with strong governance



# Balanced & Optimised Team

Board	Steady and deliberate program upgrading board with appropriate experience and skill levels to ensure operational, financial and governance excellence
Leadership	Proven leadership who understands what needs to be developed for uranium supply in the post-Fukushima reconstruction era
Executive and Technical Management	Proven capabilities across the uranium business and delivering across all facets of the industry from geological, development, operational, marketing, finance and governance
Culture	Based on Respect, Responsibility, Reliability and Inclusivity

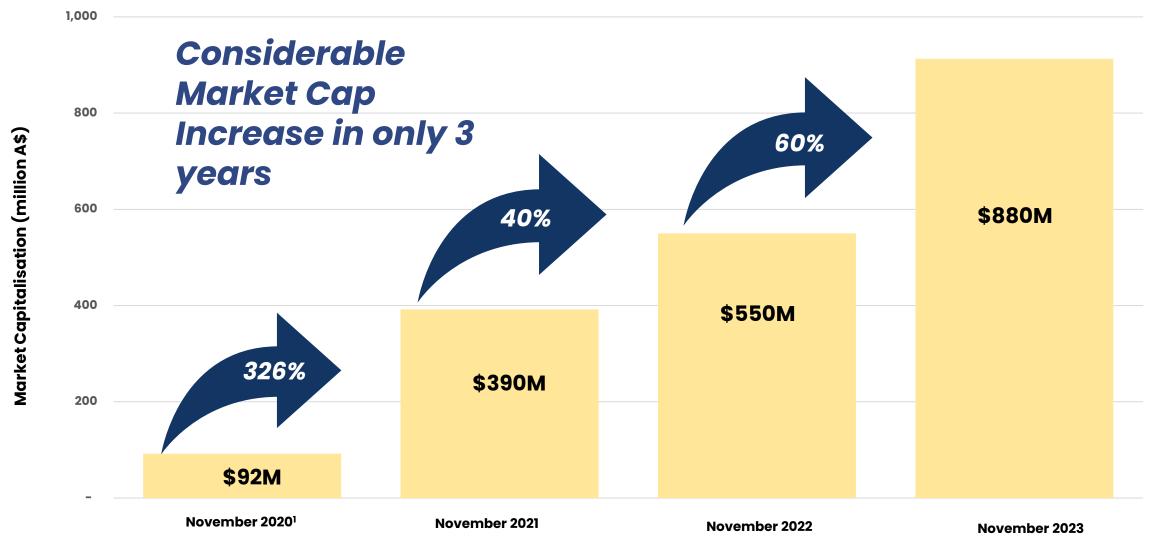


# A Year of Significant Advancement

1	Delivered the Tumas Define Feasibility Study with strong results	V
2	Continued exploration on development pipeline, building on future value	V
3	Significant advancement at Mulga Rock though the development of critical minerals and optimised process work	V
4	Completed Tumas resource expansion drilling, readying for multi decade LOM	V
5	Continued to strengthen Board and building team with key appointments	V
6	M&A strategy working in parallel to deliver further shareholder value	V

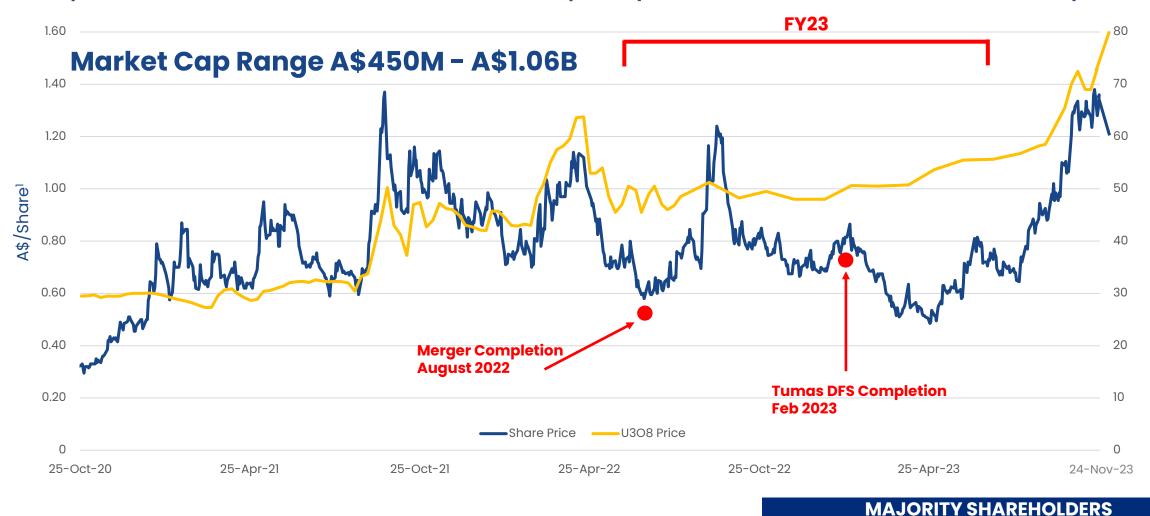


# Delivering on Shareholder Growth





# Capital Structure - ASX 300 Company - Performance FY23/early FY24





**A\$880** Market Cap<sup>1</sup> **Nil** Debt A\$32M Cash<sup>2</sup>

**757.8M**Shares on Issue

**5%**Board and
Management

8%
Paradice
Investments

4%
Collines
Investments



01

Uranium is Critical for a Clean Energy Future



# Significant Shift in Global Thinking

Bowen wants blank cheque as world looks to nuclear

EU Renewables Bill Delayed
Push for Nuclear Inclusion

China to build 10 Reactors p.a.

Sweden Policy Pivot to Build Reactors

COP28 - Triple Nuclear Power by 2050

Italy to Pursue Nuclear

UK targeting 25%

UK targeting 25%

Nuclear by 2050

House the street of the street of

IAEA Predicts 25%
More Nuclear by 2050

Uranium Price Hits
15 Year High

Nuclear Key to Energy Security



# Where is the Supply?

Supply Industry Hampered by Decades of Underinvestment

Uranium Inventory Rundown Accelerating

Large Long-Life Assets Have Ceased Production

Supply Line Challenges and Skilled Labour Shortages Impacting Existing Capacity



Global Mining Houses Have Exited Industry

Kazakhstan Supply Uncertainty

Long Lead Times to Development
Will Only Exacerbate Uranium
Pricing Pressure Over Coming Years

Is the Incentive Price for New Production US\$70/lb or US\$100/lb?



#### Nuclear Essential - Net zero nuclear initiative to triple nuclear by 2050

**Nuclear becoming the clear winner.** Uranium supply industry is well-placed for significant growth and value uplift in the global energy transition

Most major economies in full alignment demanding more nuclear. **This hasn't happened on such a broad scale since the oil shock days in the 1970s** 

Nuclear is the **only viable option** to provide sufficient baseload power supply while achieving zero emission

Renewables only part of the overall solution, remains a stranded asset for 16-18 hours/day

#### Nuclear is a 24/7 clean energy source:

- Lowest carbon footprint (UNECE<sup>1</sup> analysis Sept 2021)
- Lowest material requirement
- Lowest land usage component
- Lowest cost per unit energy (IEA<sup>2</sup> analysis 2020)
- Best safety record of all technologies
- Meets ESG demands



# Footprint & Productivity of Nuclear vs Solar & Wind – Some Facts

To generate

1GW nuclear

same

electrical power as a

reactor

#### One x IGW Nuclear Reactor equivalent

- 3 Wind farms (each of IGW)
- 4 Solar farms (each of IGW)

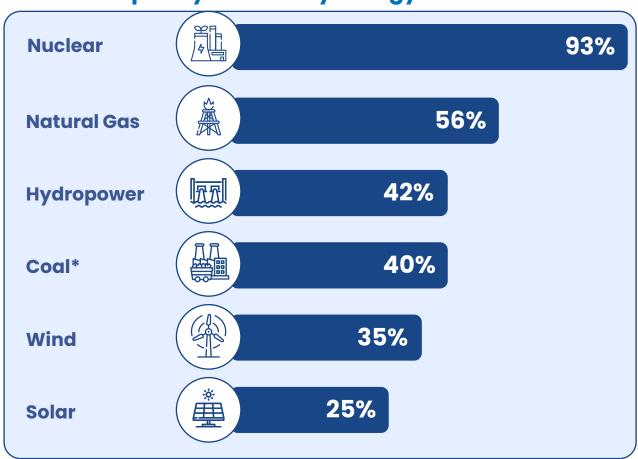
# Impact on land use & productivity – Land use for IGW

- Nuclear: ~3km² 1GW
- **Solar:** ~200km² (need ~4GW to produce IGW)
- Wind: ~800km² (need ~3GW to produce IGW)

#### Renewable issues

- 1GW footprint 70x greater for solar and 360x for wind compared to a nuclear reactor
- Huge infrastructure cost (transmission lines)
- Huge quantities of mineral resources required
- Huge land use requirement
- End of life recycling/decommissioning unresolved

#### **Capacity Factors by Energy Source**

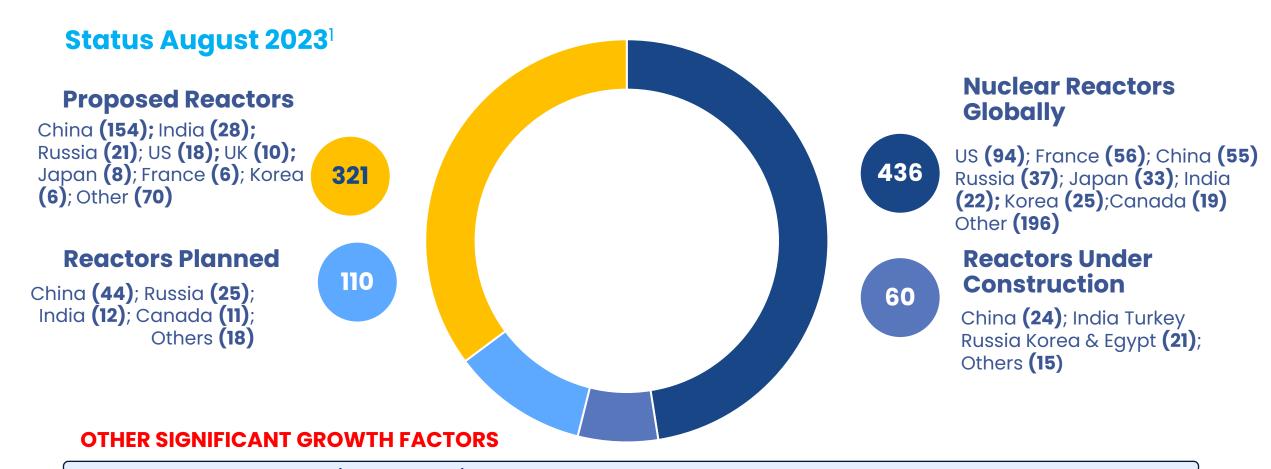


Source: U.S. Energy Information Administration (2020)

\* Coal capacity factor on full utilisation 80-90%



# Strong Global Nuclear Power Reactor Growth



CHINA: 400GW by 2060 (~18% nuclear) - 7x increase (CGNPC Chairman April '23)

**US:** 300GW by 2050 - **3x** increase (*DOE March '23*)

INCREASING EXISTING FLEET PERFORMANCE - Reactor uprates, restarts and extensions adding ~ 30% capacity



### Nuclear Fuel Cycle Under Severe Pressure

**Fabrication** 

**Spent fuel** 

storage or

Reprocessing

 SWU trading at a 10 year high -US\$134/SWU





o Trading at an alltime high US\$40/kgU as UF<sub>6</sub>











Reactor



- Inevitable pricing pressure will move uranium price, as high demand works down through fuel cycle (see just released WNA Sept '23 market report)
- Mobile UOC inventory < 12 months (UXC Oct 23)
- **Strain** on nuclear fuel cycle will increase with the greater assured demand, geopolitical influences and insufficient incentive for greenfield development

**Uranium Price -**<u>upward pressure</u>

Trading at US\$81/lb

180% increase in 2 years

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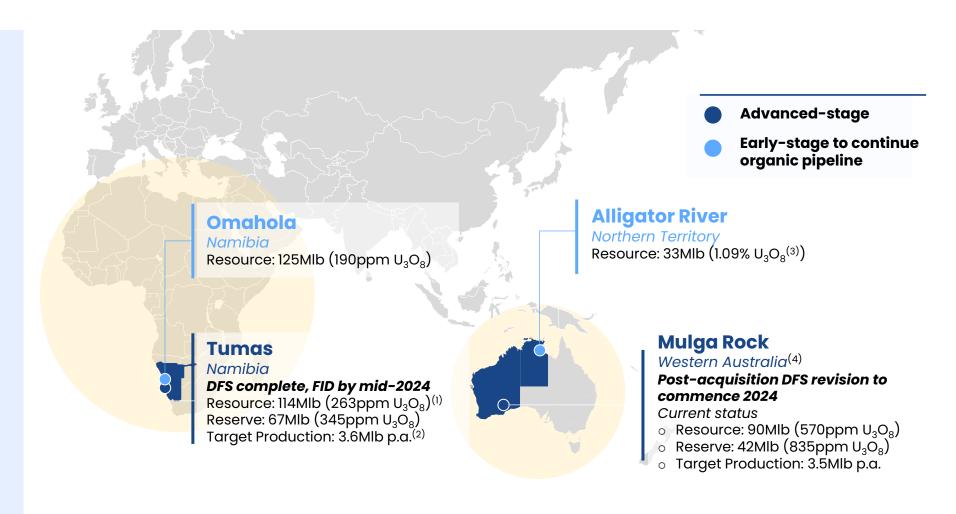
02

Project Pipeline Positioned for Growth and Value



# Globally Diversified with Two Advanced, Long-Life Projects

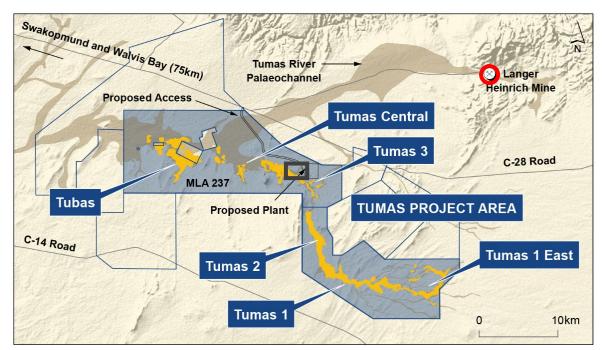
- Project portfolio provides diversity by asset, stage of development and geographic location
- Largest uranium resource base of any ASX-listed company (409MIb)
- Uniquely positioned as one of the few uranium companies globally able to execute to development and production, with credible multi-mine asset exposure





# Tumas Project, Namibia - Overview

- Uranium and mining friendly jurisdiction
- Ore Reserves of 67.3Mlb increased by 120% in CY2021
  - 22.5-year LOM achieved
- DFS completed January 2023
- EIA submitted April 2023. Grant of Mining Licence expected Q4/CY2023
- Further 10+ years to LOM
  - Inferred Resources of 30Mlb available to further expand Ore Reserve base
  - 25% of prospective channel remains to be tested
- Project supported by
  - grid power
  - existing water supply
  - land (sealed road access), sea (Class 7 port) and air (international) transport infrastructure



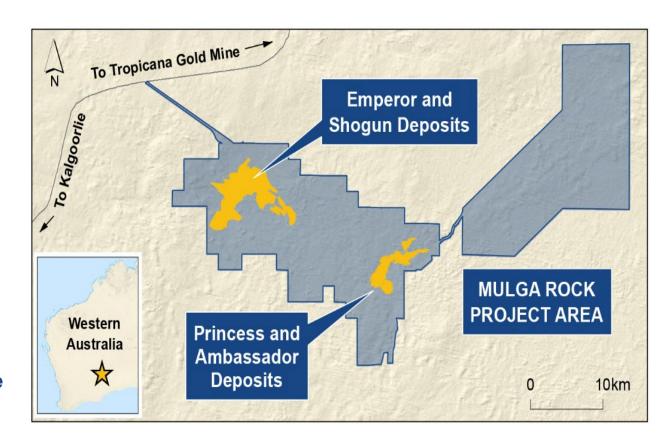


- Ex-Paladin Core Team now with Deep Yellow - established and operated Langer Heinrich
- Tumas processing plant essentially de-risked



# Mulga Rock Project – 100% DYL

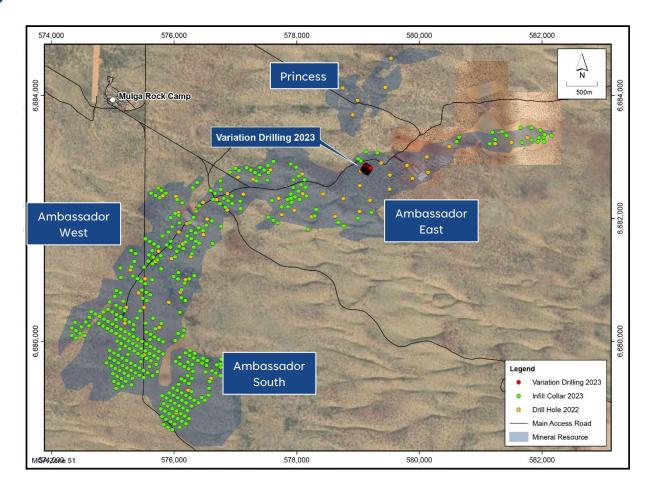
- Located in the Tier-1 mining jurisdiction of Western Australia with granted Mining Lease
- Globally significant Mineral Resource of 71.2Mt
   @ 570ppm for 90.1Mlb U<sub>3</sub>O<sub>8</sub>, positioning Mulga Rock as one of the largest undeveloped uranium projects in Australia
- Only uranium project in WA to reach "Substantial Commencement" opening pathway to development
- Significant project value upside identified additional to uranium with critical minerals
- Ideal development timeline to capture upside in multiple commodities
- Only WA project positioned to capture the coming upside in the U market





# Mulga Rock Project FY23 Activities

- Geo-metallurgical samples drilling program
- Metallurgical test work indicates uranium recovery above 90% and critical minerals (Cu, Ni, Co, Zn) and rare earth elements (notably Nd/Tb/Dy/Pr) above 70% from 2018 DFS approx. 20% assumed
- Extensive resource/reserve upgrade and ore variability drilling programs completed August 2023
- Updated MRE to Indicated status due Q1/CY24
- Revised DFS completion due mid-CY25 with significant value uplift expected within permitted footprint



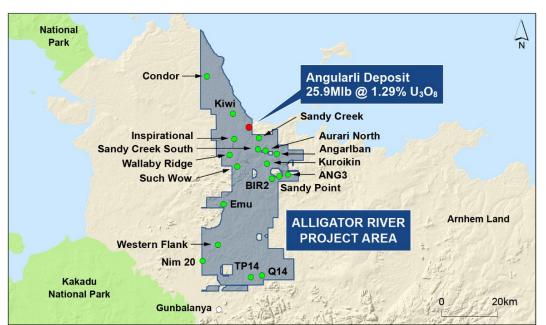
Opportunity to develop Mulga Rock into a polymetallic operation, extending life of mine beyond current 15 years with significant increase to project value and strategic importance



### **Exceptional Exploration Upside**

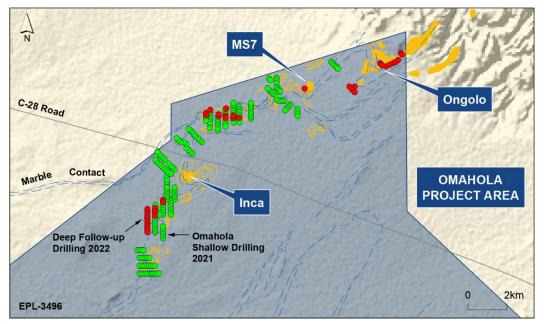
#### **ALLIGATOR RIVER PROJECT, NORTHERN TERRITORY - 100%**

- Located in the world-class uranium province of Alligator River, which hosts some of the highest-grade uranium deposits in the world (unconformity-related, Athabascastyle)
- Support from Traditional Owners
- Angularli Mineral Resource 33Mlb @ 1.09% U<sub>3</sub>O<sub>8</sub>
- Potential for discovery of large, >100Mlb uranium deposits



#### **OMAHOLA BASEMENT PROJECT, NAMIBIA - 100%**

- Measured, Indicated and Inferred Resource base of 125Mlb at 190ppm U<sub>3</sub>O<sub>8</sub> across-Ongolo, MS7 and Inca deposits
- 35km prospective zone with strong potential for additional discoveries
- Shallow drilling program of ~200 holes for 7,100m has identified 3 highly-promising targets for follow up
- 50% of basement prospective zone remains to be tested



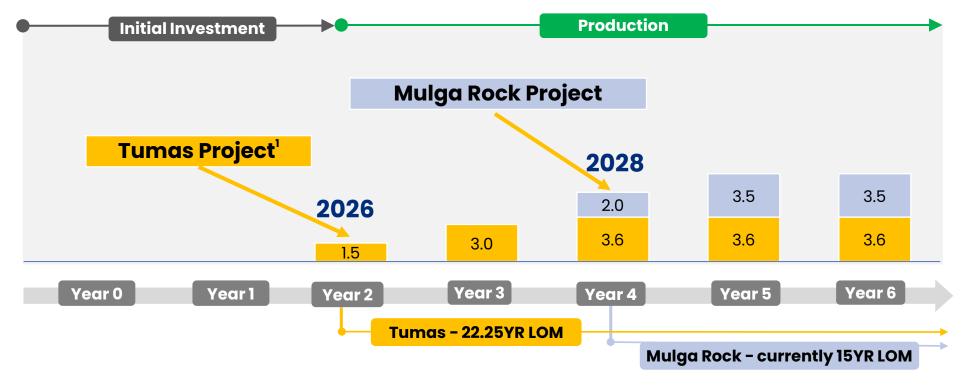




03 Looking Ahead - A Differentiated Company



### Two Substantial, Advanced Uranium Projects to Produce +7Mlb





Tumas - DFS complete, FID mid 2024 - aiming for production 2026



Mulga Rock – Revised DFS starting early 2024 to improve on project economics

No other ASX listed company has 2 advanced projects with substantial production potential ready to capitalise on higher uranium prices



# Key Workstreams – Strong News Flow

#### **TUMAS PROJECT**

- Q4 2023 DFS repricing and further focused test work continuing to optimise the Project
- Q4 2023 Expected grant of MLA237
- Mid Q4 2023 Resource upgrade drilling west of Tumas 3 deposit
- H1 2024 Project Finance finalised (uranium price dependent)

#### **MULGA ROCK**

- Q3 2023 656 air core drill program completed for resource upgrade and ore variability testing
- Q4 2023 Completion of test work for critical mineral and rare earth element analysis
- Q1 2024 New resource upgrade for uranium, critical minerals and rare earths with revised mining footprint within approval area
- H1 2024 Commencement of revised DFS, incorporating new inputs for uranium and non-uranium value uplift

#### **ALLIGATOR RIVER**

- Q2 2023 New resource estimate for Angularli Deposit delivered
- Q2 2024 Desk top prospectivity appraisal to define exploration corridors for concurrent investigations
- Q2 2024 Roll out 5-year plan to unlock value

#### M&A

 Ongoing - Continued focus on accretive consolidation to develop larger scale with high quality conventional mining assets



### Best Positioned Pure-Play Uranium Investment



Deep Yellow is successfully establishing the right platform at the right time



Uranium market backdrop creates **exceptional opportunities in the post-Fukushima supply reconstruction era** and taking
advantage of a bifurcated market



Growth initiatives are led by **an experienced board, proven leadership and team, and supported by executive and technical teams** strong in all operational, financial and governance domains



Deep Yellow is on a pathway to **becoming a reliable and long-term uranium producer, able to provide production optionality and security of supply with geographic diversity of supply** 



### **THANK YOU**

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# Appendix Mineral Resources

#### Notes:

Figures have been rounded and totals may reflect small rounding errors.

XRF chemical analysis unless annotated otherwise.

- $ightharpoonup eU_3O_8$  equivalent uranium grade as determined by downhole gamma logging.
- # Combined XRF Fusion Chemical Assays and eU<sub>3</sub>O<sub>8</sub> values.

Where eU<sub>3</sub>O<sub>8</sub> values are reported it relates to values attained from radiometrically logging boreholes.

Gamma probes were calibrated at Pelindaba, South Africa in 2007. Recent calibrations were carried out at the Langer Heinrich Mine calibration facility in July 2018 and September 2019.

During drilling, probes are checked daily against standard source.

- 1 ASX Release 04 Nov 2021 'Omahola Basement Project Resource Upgrade to JORC 2012'
- 2 ASX Release 29 Jul 2021 'Drilling at Tumas 3 Delivers Significant Resource Upgrade'
- 3 ASX Release 02 Sep 2021 'Tumas Delivers Impressive Indicated Mineral Resource'
- 4 ASX Release 24 Mar 2014 'Tubas Sands Project Resource Update'
- 5 ASX Release 28 Feb 2012 'TRS Project Resources Increased'
- 6 ASX Release 31 Mar 2023 'Aussinanis Project Resource Upgrade To JORC (2012)'

		Cut-off	Cut-off Tonnes U <sub>3</sub> O <sub>8</sub> U <sub>3</sub> O <sub>8</sub> U <sub>3</sub> O <sub>8</sub>			Resource Categories (MIb U <sub>3</sub> O <sub>8</sub> )			
Deposit	Category	(ppm U <sub>3</sub> O <sub>8</sub> )	(M)	(ppm)	(t)	(MIb)	Measured	Indicated	Inferred
BASEMENT MINERALIS	BASEMENT MINERALISATION  Omahola Project - JORC 2012 1								
INCA Deposit ♦	Indicated	100	21.4	260	5,600	12.3	-	12.3	-
INCA Deposit ◆	Inferred	100	15.2	290	4,400	9.7	-	-	9.7
Ongolo Deposit #	Measured	100	47.7	187	8,900	19.7	19.7	-	-
Ongolo Deposit #	Indicated	100	85.4	168	14,300	31.7	-	31.7	-
Ongolo Deposit #	Inferred	100	94.0	175	16,400	36.3	-	-	36.3
MS7 Deposit #	Measured	100	18.6	220	4,100	9.1	9.1	-	-
MS7 Deposit #	Indicated	100	7.2	184	1,300	2.9	-	2.9	-
MS7 Deposit #	Inferred	100	8.7	190	1,600	3.7	-	-	3.7
Omahola Project Sub-To	otal		298.2	190	56,600	125.4	28.8	46.9	49.7
CALCRETE MINERALISA	<u>ATION</u>	Tumas 3	Deposit - JOR	C 2012 <sup>2</sup>					
Tumas 3 Deposits ♦	Indicated	100	78.0	320	24,900	54.9	-	54.9	-
·	Inferred	100	10.4	219	2,265	5.0	-	-	5.0
<b>Tumas 3 Deposits Total</b>			88.4	307	27,165	59.9			
·		1, 1E & 2 P	roject – JORC	2012 <sup>3</sup>	ĺ				
Tumas 1 & 2 Deposit ◆	Indicated	100	90.4	220	19,860	43.8	-	43.8	-
Tumas 1 & 2 Deposit ◆	Inferred	100	21.8	206	4,692	10.3	-	-	10.3
Tumas 1, 1E & 2 Deposit	ts Total		112.2	219	24,552	54.1			
Sub-Total of Tumas 1, 2	and 3		200.6	258	51,717	114.0			
	Tubas	Red Sand P	roject - JORC	2012 4					
Tubas Sand Deposit #	Indicated	100	10.0	187	1,900	4.1	-	4.1	-
Tubas Sand Deposit #	Inferred	100	24.0	163	3,900	8.6	-	-	8.6
Tubas Red Sand Project	t Total		34.0	171	5,800	12.7			
	Tubas	Calcrete Res	source - JORC	2004 5					
Tubas Calcrete Deposit	Inferred	100	7.4	374	2,767	6.1	-	-	6.1
Tubas Calcrete Total			7.4	374	2,767	6.1			
Aussinanis Project - JORC 2012- DYL 85% <sup>6</sup>									
Aussinanis Deposit ♦	Indicated	100	12.3	168	2,000	4.5	<del>  _</del>	4.5	_
Aussinanis Deposit ♦	Inferred	100	62.1	172	10,700	23.6	-	-	23.6
Aussinanis Project Tota	ı		74.4	171	12,700	28.1			
Calcrete Projects Sub-T	otal		316.4	231	72,984	160.9	-	107.3	53.6
GRAND TOTAL NAMI	614.6	210	129,584	286.3	28.8	154.2	103.3		

# Appendix Mineral Resources

#### Notes:

Figures may not add due to rounding.

Using combined chemical and radiometric grades.

1 ASX Release 03 Jul 2023 'Robust Resource Upgrade Delivered At Angularli'

2 ASX Release 12 Jul 2017 'Significant Resource Update – Mulga Rock Cracks 90Mlbs'

Deposit	Category	Cut-off	Tonnes	U <sub>3</sub> O <sub>8</sub>	U <sub>3</sub> O <sub>8</sub>	U <sub>3</sub> O <sub>8</sub>	Resource Categories (MIb U <sub>3</sub> O <sub>8</sub> )		
		(ppm U <sub>3</sub> O <sub>8</sub> )	(M)	(ppm)	(t)	(Mlb)	Measured	Indicated	Inferred
Northern Territory									
Angularli	Inferred	1,500	1.37	10,900	14,917	32.9	-	-	32.9
Angularli Project Sub-	Total		1.37	10,900	14,917	32.9			32.9
Western Australia									
	Mu	ılga Rock Pı	oject – JORC	2012 <sup>2</sup>					
Ambassador	Measured	150	5.2	1,100	5,720	12.6	12.6	-	-
Ambassador	Indicated	150	14.8	800	11,840	26.0	-	26.0	-
Ambassador	Inferred	150	14.2	420	5,964	13.1	-	-	13.1
Princess	Indicated	150	2.0	820	1,640	3.6	-	3.6	-
Princess	Inferred	150	1.3	420	546	1.2	-	-	1.2
Mulga Rock East Total 37.5 685 25,710 56.5									
Shogun	Indicated	150	2.2	680	1,496	3.2	-	3.2	-
Shogun	Inferred	150	0.9	290	261	0.6	-	-	0.6
Emperor	Inferred	150	30.8	440	13,522	29.8	-	-	29.8
Mulga Rock West Total 33.9 451 15,279 33.6									
Mulga Rock Project St	71.4	574	40,989	90.1	12.6	32.8	44.7		
GRAND TOTAL AUST	TRALIAN RES	OURCES	72.8	768	55,906	123.0	12.6	32.8	77.6
GRAND TOTAL RESC	687.4	270	185,490	409.3	41.4	187.0	180.9		

#### **Ore Reserves**

#### Notes:

Figures may not add due to rounding.

1 ASX Release 2 Feb 2023 'Strong Results From Tumas Definitive Feasibility Study'

2 ASX Release 4 Sep 2017 'Major Ore Reserve Update – Moving to the Go Line'

Donosit	Catagony	Cut-off	Tonnes (M)	U <sub>3</sub> O <sub>8</sub>	U <sub>3</sub> O <sub>8</sub> (t)	U <sub>3</sub> O <sub>8</sub> (Mlb)	Reserve Categories (MIb U <sub>3</sub> O <sub>8</sub> ) Proved Probable	
Deposit Namibia	Category	(ppm U <sub>3</sub> O <sub>8</sub> )	(IVI)	(ppm)	(1)	(UIID)	Proved	Probable
		Tumas Project	t - IORC 2012	1				
T 2	Duahahla				40.000	44.0		44.0
Tumas 3	Probable	150	44.9	414	18,600	41.0	-	41.0
Tumas 1E	Probable	150	29.5	266	7,850	17.3	-	17.3
Tumas 1 and 2	Probable	150	13.9	292	4,090	9.0	-	9.0
Tumas Project Sub	88.4	346	30,540	67.3		67.3		
Western Australia								
	М	ulga Rock Proj	ect – JORC 20	)12 <sup>2</sup>				
Ambassador	Proved	150	5.3	1,055	5,580	12.3	12.3	-
Ambassador	Probable	150	14.1	775	10,890	24.0	-	24.0
Princess	Proved	150	-	-	-	-	-	-
Princess	Probable	150	1.7	870	1,500	3.3	-	3.3
Mulga Rock East Total			21.1	852	17,970	39.6		
Shogun	Proved	150						
Shogun	Probable	150	1.6	760	1,225	2.7	-	2.7
Mulga Rock West Total 1.6 766 1,225 2.7								
Mulga Rock Proje	22.7	845	19,195	42.3	12.3	30.0		
GRAND TOTAL O	111.1	275	49,735	109.6	12.3	97.3		