Discovering High-Grade Uranium in the Pine Creek Orogen: the Thunderball example



Dr Michael Green



RIU Uranium Investment Day Perth November 2024

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This list is not exhausted of the factors that may affect our forward-looking information. These and other factors should be considered carefully, and readers should not place undue reliance on such forward-looking information. Patronus disclaims any intent or obligation to revise any forward-looking statements whether as a result of new information, estimates, or options, future events or results or otherwise, unless required to do so by law.

Competent Person's Statements

This presentation refers to Patronus having a combined Mineral Resource of 1.45 Moz gold, 16.2 Moz silver and 177 kt Zn and refers to individual Mineral Resource estimates. References to Patronus' Leonora Mineral Resource estimates have been extracted from the Kin Mining announcement titled "Cardinia Project Gold Mineral Resource Passes 1.5 Moz" dated 3 July 2023 and available on PTN's website at www.patronusresources.com.au/investors/announcements/. Patronus confirms that it is not aware of any new information or data that materially affect the information included in the original announcement and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. PTN confirms that the form and content of the Competent Persons' findings are presented and have not been materially modified from the original market announcement. The information in this presentation relating to exploration results of Patronus' projects is based on information compiled or reviewed by Leah Moore. Ms Moore is a member of the Australian Institute of Geoscientists and is a fulltime employee of Patronus. Ms Moore has sufficient experience of relevance to the styles of mineralisation and the types of deposit under consideration, and to the activities undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code)". Ms Moore consents to the inclusion of this information in the form and context in which it appears.

References to Patronus' Northern Territory Mineral Resource estimates have been extracted from PNX's announcements to the ASX titled 'Mineral Resource Update at Fountain Head' dated 16 June 2020, 'Glencoe Gold MRE Upgrade' dated 30 August 2022, 'PNX acquires the Mt Porter Deposit, NT' dated 28 September 2022, 'Hayes Creek Mineral Resources Exceed 1.1 Moz Gold Equivalent' dated 3 May 2017 and 'Upgrade to Mt Bonnie Zinc-Gold-Silver Resource, Hayes Creek' dated 9 February 2017, and are available on the ASX website under the code 'PNX'. PTN confirms that it is not aware of any new information or data that materially affect the information included in the original announcements and that all material assumptions and technical parameters underpinning the estimates continue to apply and have not materially changed. PTN confirms that the form and content of the Competent Persons' findings are presented and have not been materially modified from the original market announcements. The information in this presentation that relates to exploration results of PTN's NT projects is based on information compiled by Dr Michael Green, who is a fulltime employee and shareholder of PTN. Dr Green is a Member of the Australian Institute of Geoscientists (AIG No: 4360) and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (JORC Code). Dr Green consents to the inclusion of this information in the form and context in which it appears



Multi-Commodity Platform

GOLD

Leonora

Mertondale: 11.7 Mt @ 1.22 g/t Au (457koz)

Cardinia East: 10.4 Mt @ 1.42 g/t Au (475koz)

Pine Creek

Fountain Head

& Tally Ho: 2.9 Mt @ 1.7 g /t Au (156koz)

• Glencoe: 2.1 Mt @ 1.18 g/t Au (79koz)

Mt Porter: 0.7 Mt @ 2.2 g/t Au (48koz)

BASE METALS

Hayes Creek

4.1 Mt @ 4.35% Zn, 124 g/t Ag, 1.8 g/t Au (8.47 g/t AuEq)
 (177 kt Zn, 238 koz Au, 16.2 Moz Ag)

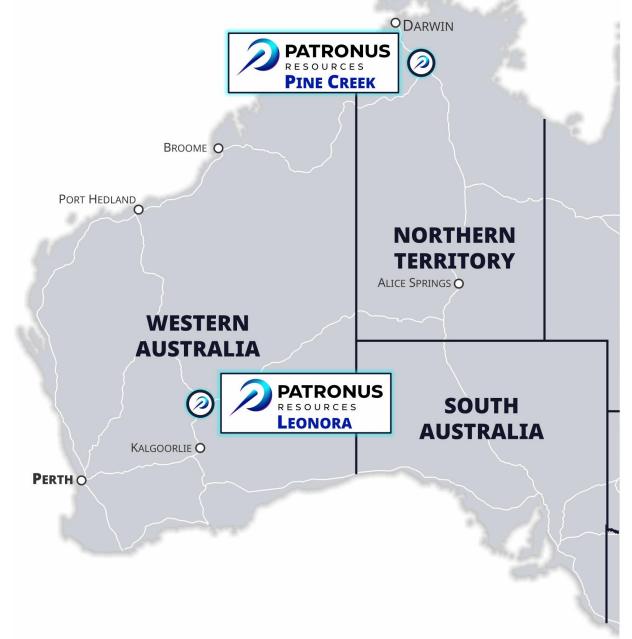
Leonora discovery hole

• 5.7 m @ 5.3% Zn, 40g/t Ag, 1.0g/t Au, 0.3% Cu, 0.3% Pb from 270.3m

URANIUM

Thunderball

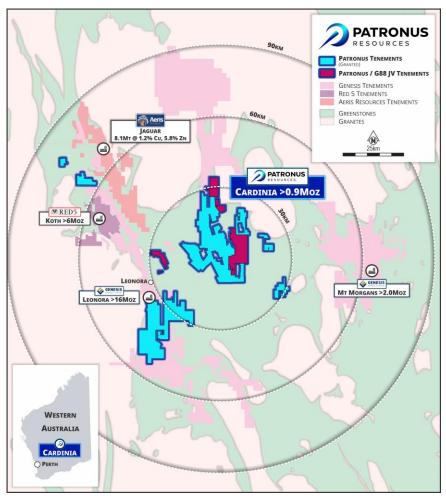
- 15.0m @ 1.5% U₃O₈ from 139.0m (TPCRC019)
 - 11.0m @ 3.4% U₃O₈ from 144.0m (TPCDD026)
- 15.0m @ 1.35% U₃O₈ from 210.0m (RHCDD005)





A Complementary Combination to Create Value

Merger of Kin Mining and PNX Metals combines diversified assets in Tier-1 jurisdictions with growth and consolidation opportunities



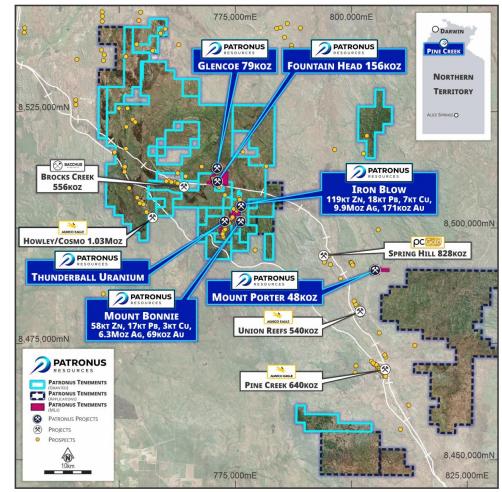
Quality assets in Tier 1 jurisdictions

Highly active mining and exploration locations

Strong platform for growth

Multiple high-quality exploration targets

Strong balance sheet





Cardinia Gold Project - Leonora

932,000 oz gold Resource – 100% owned

Close to existing infrastructure and third-party developments

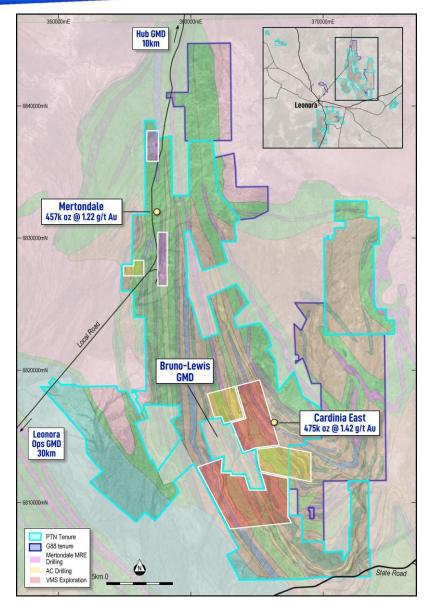
Metallurgical test work confirms free-milling gold via standard CIL

Mertondale:

- Historical production: 274,724 oz @ 4.73 g/t
- Mineral Resource: 11.7 Mt @ 1.22 g/t for 457,000oz Au
- Limited exploration in last 10 years
- Mining Proposal approved
- MRE update in December

Cardinia East:

- Mineral Resource: 10.4 Mt @ 1.42 g/t for 475,000 oz Au
- Mining Proposal close to approval
- Aircore drilling results pending

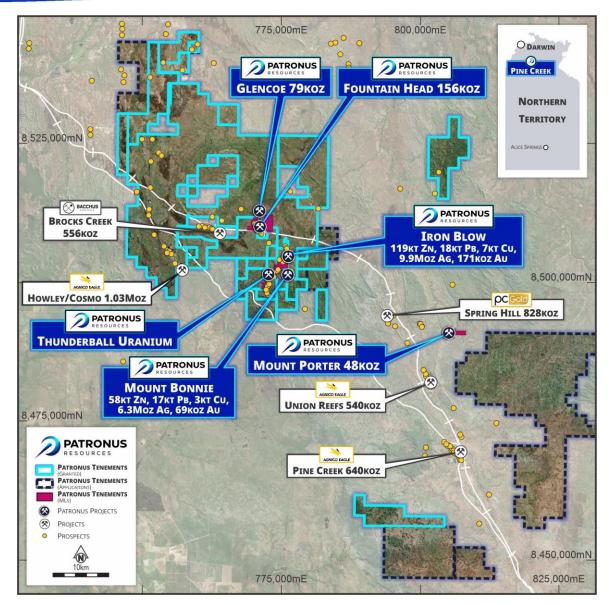




Pine Creek - Gold

283,000 oz gold Resource – 100% owned

- Strongly endowed field with +20 Moz Au
- Belt-scale tenure held by Patronus
- Three near-surface Mineral Resources with immediate expansion potential
- Fountain Head Project (100%)
 - 2.9 Mt @ 1.7 g/t Au (156 koz Au)
 - Development opportunity
 - Environmental Impact Statement approved
 - Mine Management Plan approved
 - Immediate expansion targets and regional upside
 - Drilling at Fountain Head & Glencoe

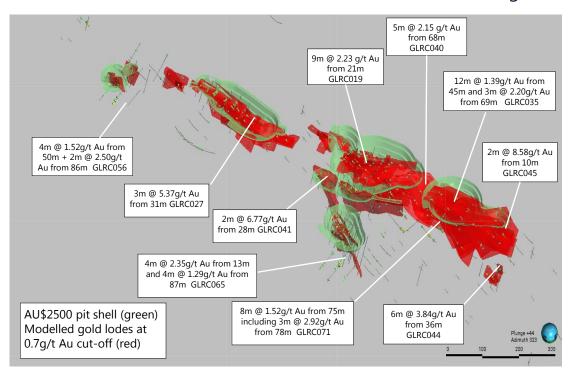


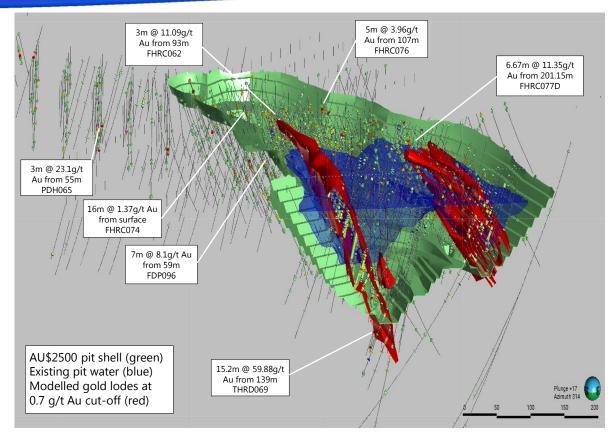


Pine Creek - Gold

Glencoe Deposit

- 2.1 Mt @ 1.18 g/t Au (79 koz Au)
- 3 km north of Fountain Head on granted Mineral Lease
- 77% of Mineral Resources in Measured or Indicated categories





Fountain Head & Tally Ho Deposits

- 2.9 Mt @ 1.7 g/t Au (156 koz Au)
- Environmental Impact Statement approved
- Mine Management Plan pending



Base Metals

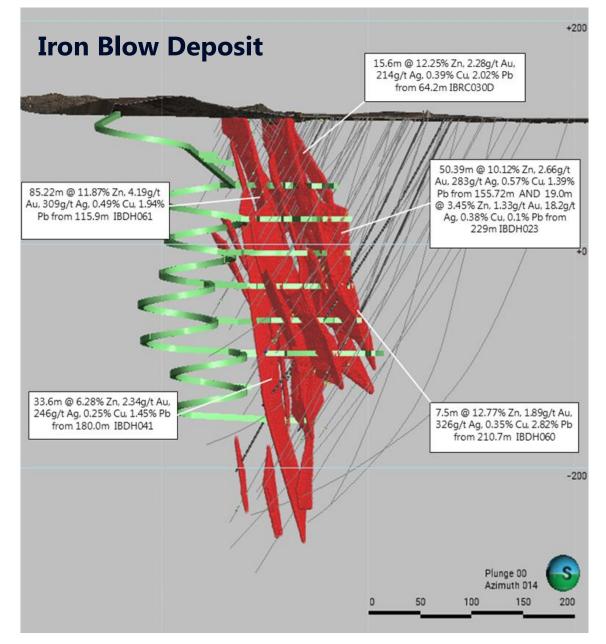
Hayes Creek Resource:

 4.1 Mt @ 4.35 % Zn, 124 g/t Ag, 1.8 g/t Au (8.47 g/t AuEq)

(177 kt Zn, 238 koz Au, 16.2 Moz Ag)

Leonora VMS discovery hole:

5.7 m @ 5.3% Zn, 40 g/t Ag, 1.0 g/t Au,
0.3% Cu, 0.3% Pb from 270.3 m





Uranium – Pine Creek

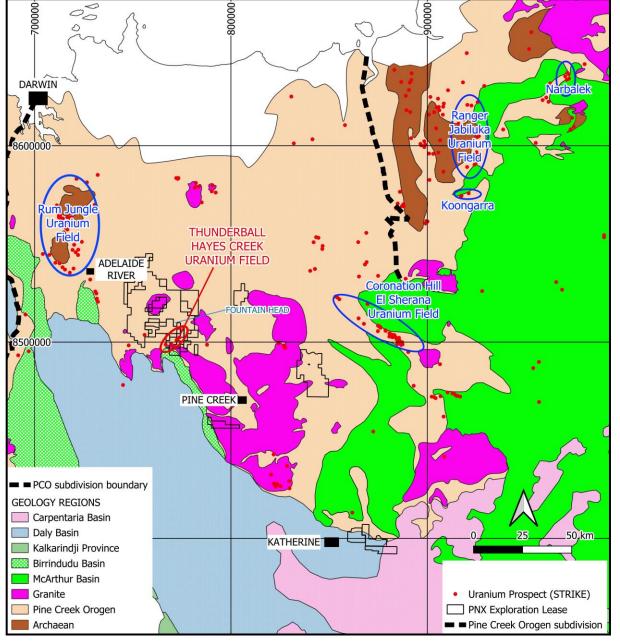
World-Class, High-Grade Deposits

Unconformity-related

Limited, historic exploration space

2009 Thunderball discovery

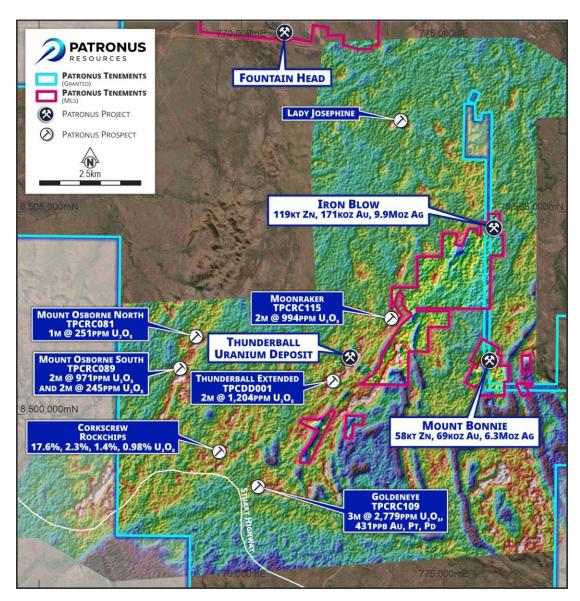
Hayes Creek Uranium Field





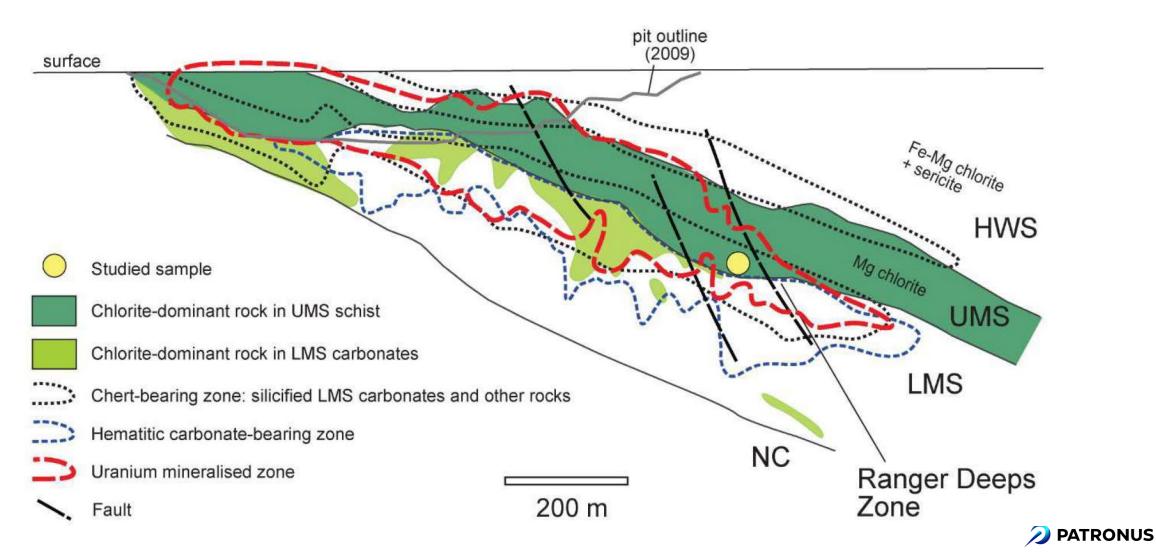
Hayes Creek Uranium Field

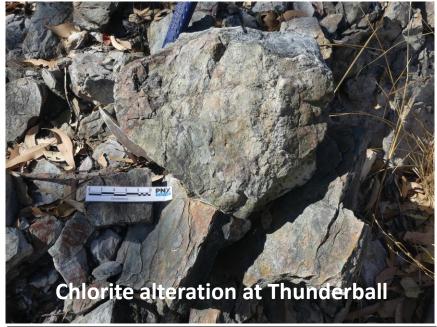
- Thunderball Uranium Deposit discovered by Thundelarra Exploration and maiden Mineral Resource Estimate (MRE) in 2011 (JORC 2004) [Fukushima!]
- Limited exploration since 2011 and essentially dormant since 2014
- Historic drill intersections from Thunderball include very high-grades:
 - 15.0 m @ 1.5% U₃O₈ from 139.0 m in TPCRC019
 - 11.0 m @ 3.4% U₃O₈ from 144.0 m in TPCDD026
 - 15.0 m @ 1.35% U₃O₈ from 210.0 m in RHCDD005
- Gap analysis by SRK Consulting in March 2024 highlights
 - Disequilibrium studies show probe data ok for MRE
 - Immediate targets at Thunderball
 - Regional targets and exploration upside





RANGER URANIUM MINE (155 Mt @ 0.09% U₃O₈ for 139,600 t U₃O₈ (308 Mlb)) LONG SECTION (GIGON ET AL., 2019)







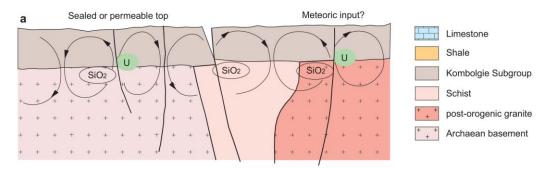


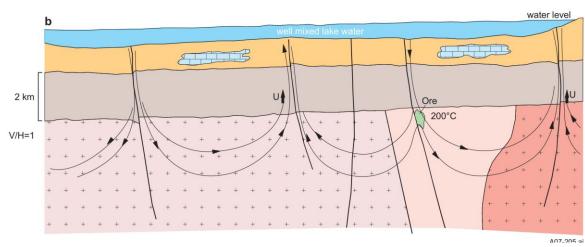
TPCRC065B: 95.85-96.08 m
Faulting of silica-sericite alteration
Multiple phases of quartz veins





UNCONFORMITY MODEL TOP-DOWN HYDROTHERMAL (AHMAD & HOLLIS, 2013)

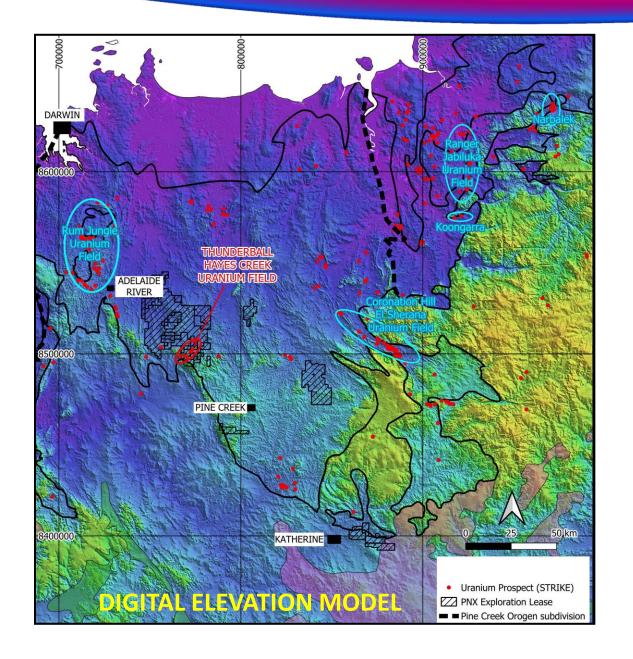


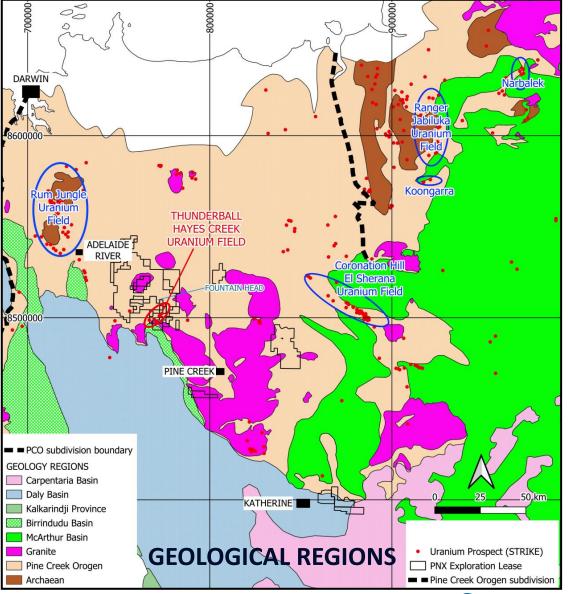


NEARBY GREATER MCARTHUR BASIN UNCONFORMITY





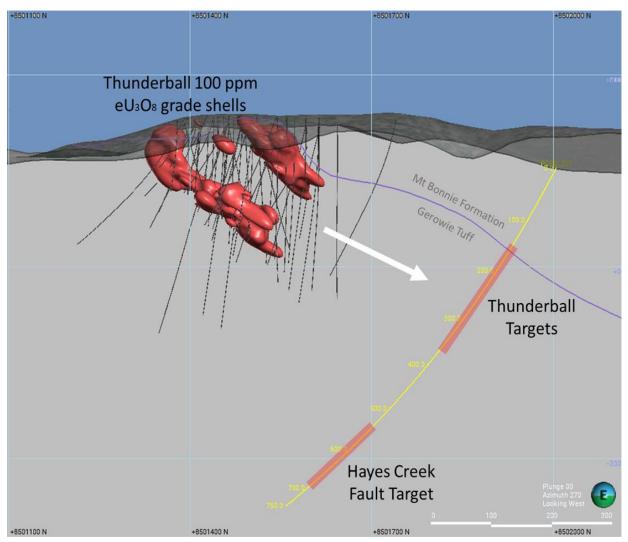




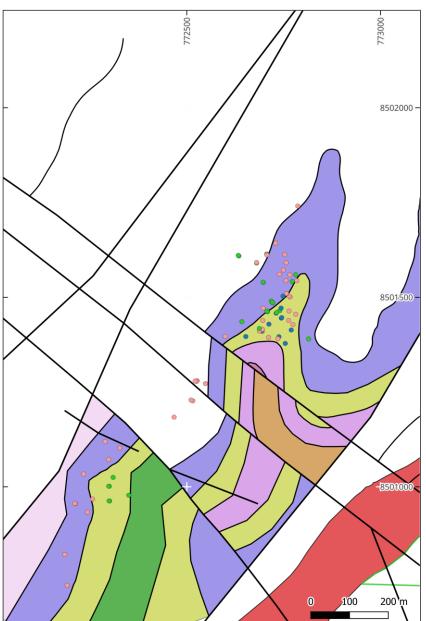


Thunderball Uranium Deposit

- Co-funding from NT Government for deep drill hole ~450 m down-dip of historical Mineral Resource
- Deep drilling will also target Hayes Creek Fault
- Work programme underway to upgrade MRE to JORC 2012 status
- Other drilling to expand size of Mineral Resource
- Additional drilling at known prospects to estimate Mineral Resources
- Exploration around Hayes Creek to identify new uranium prospects
- Expand exploration across extensive landholding (geophysics, prospecting)







CROSS FAULTS AND URANIUM MINERALISATION





Appendices







Fountain Head, Tally Ho and Glencoe Mineral Resource

PNX confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements referenced in this release continue to apply and have not materially changed.

JORC Classification	ification Measured			Indicated			Inferred			TOTAL		
Project	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)
Fountain Head	-	-	-	0.89	1.4	41	1.11	1.6	56	2.00	1.50	96
Tally Ho	-	-	-	0.94	2.0	59	-	-	-	0.94	2.0	59
TOTAL	-	-	-	1.83	1.7	100	1.11	1.6	56	2.94	1.7	156

Fountain Head and Tally Ho Mineral Resources by JORC Classification as at 16 June 2020, reported utilising a cut-off grade of 0.7 g/t Au which is consistent with the assumed open cut mining method. See ASX:PNX release 'Mineral Resource Update at Fountain Head' 16 June 2020 for details.

JORC Classification		Measured			Indicated			Inferred		TOTAL		
Glencoe	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)									
Oxide	0.0	1.18	1	0.1	1.04	3	0.0	1.23	2	0.1	1.11	5
Transitional	0.1	1.25	6	0.4	1.28	18	0.1	1.18	4	0.7	1.26	28
Fresh	0.3	1.36	12	0.6	1.04	22	0.3	1.17	12	1.2	1.14	46
TOTAL	0.4	1.32	18	1.2	1.13	43	0.5	1.18	18	2.1	1.18	79

Glencoe Mineral Resources by oxidation zone and JORC Classification as at 29 August 2022 estimated using a cut-off grade of 0.7 g/t Au which is consistent with the assumed open-cut mining method. See ASX:PNX release 'Glencoe Gold MRE Upgrade' 30 August 2022 for details.



Mt Porter Mineral Resource

PNX confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements referenced in this release continue to apply and have not materially changed.

JORC Classification	ORC Classification Measured			Indicated			Inferred			TOTAL		
Mt Porter	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)
Oxide / Transitional	-	-	-	0.1	1.9	4	0.0	2.4	0.6	0.1	2.0	5
Fresh	-	-	-	0.5	2.3	36	0.1	1.8	7.4	0.6	2.2	43
TOTAL	-	-	-	0.5	2.3	40	0.1	1.9	8.0	0.7	2.2	48

Mt Porter Mineral Resources by JORC Classification as at 28 June 2022 estimated utilising a cut-off grade of 1.0 g/t Au which is consistent with the assumed open-cut mining method. See ASX:PNX release 'PNX acquires the Mt Porter Gold Deposit, NT' 28 September 2022 for details.



Hayes Creek Mineral Resource

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1004	Iron Blow					Grade			
JORC Classification	Lode	Tonnes (Mt)	Zn (%)	Pb (%)	Cu (%)	Ag (g/t)	Au (g/t)	ZnEq (%)	AuEq (g/t)
	East Lode	0.80	7.64	1.83	0.30	275	2.90	20.64	15.53
Indicated	West Lode	1.28	4.14	0.33	0.31	60	1.73	8.84	6.66
	Total Indicated	2.08	5.49	0.91	0.30	143	2.19	13.39	10.08
	East Lode	0.02	0.48	0.34	0.16	132	6.01	13.65	9.43
	West Lode	0.02	0.76	0.96	0.13	109	1.02	5.90	4.44
	FW Gold	0.21	0.25	0.07	0.03	16	2.03	3.48	2.62
Inferred	HW Gold	0.04	0.06	0.09	0.01	6	1.68	2.57	1.94
	Interlode Gold	0.04	0.21	0.03	0.07	8	1.66	2.79	2.10
	Interlode Base Metals	0.12	3.52	0.32	0.14	35	0.69	5.87	4.42
	Total Inferred	0.45	1.11	0.18	0.07	27	1.71	4.38	3.30
TOTAL	Indicated + Inferred	2.53	4.71	0.78	0.26	122	2.10	11.79	8.87
TOTAL	Contained Metal		119kt	18kt	7kt	9.9Moz	171koz	298kt	722koz

Iron Blow Mineral Resources by JORC Classification as at 03 May 2017 estimated utilising a cut-off grade of 1.0 g/t AuEq. See next page Notes and ASX:PNX release 'Hayes Creek Mineral Resources Exceed 1.1Moz Gold Equivalent' 3 May 2017 for details.

1000	Mt Bonnie					Grade			
JORC Classification	Domain	Tonnes (Mt)	Zn (%)	Pb (%)	Cu (%)	Ag (g/t)	Au (g/t)	ZnEq (%)	AuEq (g/t)
	Oxide/Transitional	0.20	0.94	2.43	0.18	171	3.80	11.50	9.44
Indicated	Fresh	1.18	4.46	0.94	0.23	121	1.02	9.60	7.88
	Total Indicated	1.38	3.96	1.15	0.23	128	1.41	9.87	8.11
	Oxide/Transitional	0.03	0.43	1.33	0.29	74	2.28	6.37	5.23
	Fresh	0.12	2.91	0.90	0.15	135	0.54	7.61	6.25
Inferred	Ag Zone	0.02	0.17	0.03	0.04	87	0.04	2.36	1.94
	Total Inferred	0.17	2.11	0.87	0.16	118	0.80	6.73	5.53
TOTAL	Indicated + Inferred	1.55	3.76	1.12	0.22	127	1.34	9.53	7.82
TOTAL	Contained Metal		58kt	17kt	3kt	6.3Moz	69koz	147kt	389koz

Mt Bonnie Mineral Resources by JORC Classification as at 08 February 2017 estimated utilising a cut-off grade of 0.5 g/t Au for Oxide/Transitional Domain, 1% Zn for Fresh Domain and 50g/t Ag for Ag Zone Domain. See next page Notes and ASX:PNX release 'Upgrade to Mt Bonnie Zinc-Gold-Silver Resource, Hayes Creek' 9 February 2017 for details.



Hayes Creek Mineral Resource

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JORC Classification	Tonnes		Grade Grade									
JORC Classification	(Mt)	Zn (%)	Pb (%)	Cu (%)	Ag (g/t)	Au (g/t)	ZnEq (%)	AuEq (g/t)				
Indicated (85%)	3.46	4.88	1.01	0.27	137	1.88	11.99	9.29				
Inferred (15%)	0.62	1.39	0.37	0.10	52	1.46	5.03	3.91				
TOTAL Indicated + Inferred	4.08	4.35	0.91	0.25	124	1.81	10.93	8.47				
TOTAL Contained Metal		177kt	37kt	10kt	16Moz	238koz	445kt	1,110koz				

Total Hayes Creek Mineral Resources (Iron Blow + Mt Bonnie) by JORC Classification as at 03 May 2017

Notes: Due to effects of rounding, totals may not represent the sum of all components. Metallurgical recoveries and metal prices have been applied in calculating zinc equivalent (ZnEq) and gold equivalent (AuEq) grades. At Iron Blow a mineralisation envelope was interpreted for each of the two main lodes, the East Lode (Zn-Au-Ag-Pb) and West Lode (Zn-Au), and four subsidiary lodes with a 1 g/t AuEq cut-off used to interpret and report these lodes. At Mt Bonnie Zn domains are reported above a cut-off grade of 1% Zn, gold domains are reported above a cut-off grade of 0.5 g/t Au and silver domains are reported above a cut-off grade of 50 g/t Ag. To assess the potential value of the total suite of minerals of economic interest, formulae were developed to calculate metal equivalency for Au and Zn. Metal prices were derived from average consensus forecasts from external sources for the period 2017 through 2021 and are consistent with those used in PNX's recently updated Mt Bonnie Mineral Resource Estimate. Metallurgical recovery information was sourced from test work completed at the Iron Blow deposit, including historical test work. Mt Bonnie and Iron Blow have similar mineralogical characteristics and are a similar style of deposit. In PNX's opinion all the metals used in the equivalence calculation have a reasonable potential to be recovered and sold. PNX has chosen to report both the ZnEq and AuEq grades as although individually zinc is the dominant metal by value, the precious metals are the dominant group by value and will be recovered and sold separately to Zn. The formulae below were applied to the estimated constituents to derive the metal equivalent values:

Gold Equivalent (field = "AuEq") (g/t) = (Au grade (g/t) * (Au price per tonne/100) * Cu

recovery) + (Pb grade (%) * (Pb price per tonne/100) * Pb recovery) + (Zn grade (%) * (Zn price per tonne/100) * Zn recovery) / (Au price per ounce/31.10348 * Au recovery)

Zinc Equivalent (field = "ZnEq") (%) = (Au grade (g/t) * (Au price per ounce/31.10348) * Au recovery) + (Ag grade (g/t) * (Ag price per ounce/31.10348) * Ag recovery) + (Cu grade (%) * (Cu price per tonne/100) * Cu recovery) + (Pb grade (%) * (Pb price per tonne/100) * Pb recovery) + (Zn grade (%) * (Zn price per tonne/100) * Zn recovery)

Metals	Unit	Price	Recovery Mt Bonnie	Recovery Iron Blow
Zn	USD / t	2,450	80%	80%
Pb	USD / t	2,100	60%	60%
Cu	USD / t	6,200	60%	60%
Ag	USD / troy ounce	20.50	70%	80%
Au	USD / troy ounce	1,350	55%	60%



Mertondale Mineral Resource

Patronus confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements referenced in this release continue to apply and have not materially changed.

JORC Classification		Indicated			Inferred			TOTAL	
Mertondale	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)
Mertons Reward	0.9	2.15	62	2.0	0.65	41	2.9	1.11	103
Mertondale 3-4	1.3	1.85	80	1.0	0.95	32	2.4	1.46	112
Tonto	1.9	1.14	68	1.1	1.24	45	3.0	1.17	113
Mertondale 5	0.5	1.59	27	0.9	1.20	34	1.4	1.35	62
Eclipse	-	-	-	0.8	0.97	24	0.8	0.97	24
Quicksilver	-	-	-	1.2	1.08	42	1.2	1.08	42
Mertondale U/G	0.0	2.41	1	0.0	2.67	1	0.0	2.55	1
TOTAL	4.6	1.59	237	7.0	0.97	220	11.7	1.22	457

Mertondale Mineral Resources by JORC Classification as at 3 July 2023 estimated utilising a cut-off grade of 0.4 g/t Au within AUD\$2,600/oz optimisation shells. Underground (U/G) Resources are reported above a 2.0g/t Au cut-off grade outside of AUD\$2,600/oz optimisation shells. consistent with the assumed open-cut mining method. See ASX:KIN release 'Cardinia Project Gold Mineral Resource Passes 1.5 Moz' 3 July 2023 for details.



Cardinia Mineral Resource

Patronus confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements and that all material assumptions and technical parameters underpinning the estimates in the relevant market announcements referenced in this release continue to apply and have not materially changed.

JORC Classification		Indicated			Inferred			TOTAL	
Cardinia East	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)
Helens	1.4	1.46	64	1.3	1.35	57	2.7	1.41	121
Helens East	0.4	1.71	24	1.0	1.50	46	1.4	1.57	70
Fiona	0.2	1.32	10	0.1	1.05	3	0.3	1.25	13
Rangoon	1.3	1.29	56	1.5	1.35	65	2.8	1.32	121
Hobby	0.0	0.00	0	0.6	1.26	23	0.6	1.26	23
Cardinia Hill	0.5	2.21	38	1.6	1.11	59	2.2	1.38	97
Cardinia U/G	0.0	2.56	1	0.4	2.41	29	0.4	2.41	29
TOTAL	3.9	1.53	193	6.4	1.36	282	10.4	1.42	475

Cardinia Mineral Resources by JORC Classification as at 3 July 2023 estimated utilising a cut-off grade of 0.4 g/t Au within AUD\$2,600/oz optimisation shells. Underground (U/G) Resources are reported above a 2.0g/t Au cut-off grade outside of AUD\$2,600/oz optimisation shells. consistent with the assumed open-cut mining method. See ASX:KIN release 'Cardinia Project Gold Mineral Resource Passes 1.5 Moz' 3 July 2023 for details.

JORC Classification	Indicated				Inferred		TOTAL		
Project	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)	Tonnes (Mt)	Grade (g/t Au)	Ounces ('000)
Mertondale	4.6	1.59	237	7.0	0.97	220	11.7	1.22	457
Cardinia East	3.9	1.53	193	6.4	1.36	281.5	10.4	1.42	475
TOTAL	8.6	1.56	430	13.5	1.16	501	22.1	1.31	932

Mertondale and Cardinia Mineral Resources by JORC Classification as at 3 July 2023 estimated utilising a cut-off grade of 0.4 g/t Au within AUD\$2,600/oz optimisation shells. Underground (U/G) Resources are reported above a 2.0g/t Au cut-off grade outside of AUD\$2,600/oz optimisation shells. consistent with the assumed open-cut mining method. See ASX:KIN release 'Cardinia Project Gold Mineral Resource Passes 1.5 Moz' 3 July 2023 for details.

