



**PALADIN**

Clean energy. Clear future.

Bell Potter Unearthed Conference

February 2022

Ian Purdy | Chief Executive Officer

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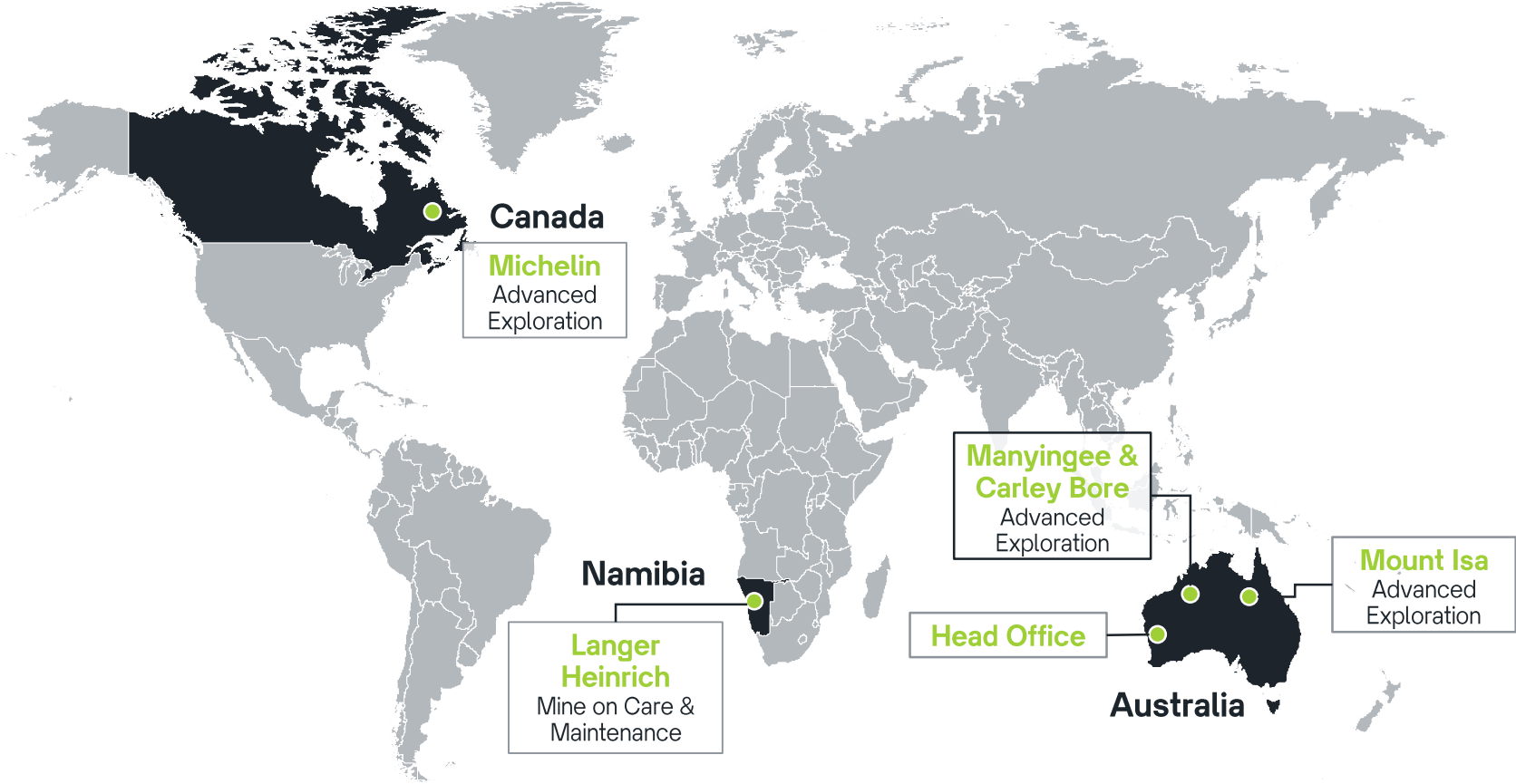
The information in this presentation relating to the Mineral Resources and Ore Reserves for all of the Company's deposits other than Langer Heinrich, Michelin, Jacques Lake and Manyingee was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code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

## Competent Persons Statement

The information contained within this presentation is extracted from the report titled "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" released on 4 November 2021 which is available to view on [paladinenergy.com.au](http://paladinenergy.com.au). The Company confirms that it is not aware of any new information or data that materially affects the information included in the original announcement and, in the case of Mineral Resources or Ore Reserves, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. The Company confirms that the form and context in which the Competent Person's findings are presented have not materially modified from the original market announcement.

Authorised to release to the ASX by Ian Purdy, Chief Executive Officer.

# Paladin is Strategically Positioned



Set to become a top 10 global uranium producer<sup>1</sup>

Over 365Mlb U<sub>3</sub>O<sub>8</sub> Mineral Resources<sup>2</sup>

Strategic footprint in the world's most attractive uranium jurisdictions

Ready to fuel global decarbonisation through clean nuclear energy

<sup>1</sup>With average peak production of 6.0Mlb p.a.; Source: Trade Tech Market Study Q2 2021  
<sup>2</sup>Working interest basis; ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021 (Namibian Mineral Resources); ASX Announcement "Annual Report to Shareholders and Appendix 4E" dated 27 August 2021 comprising Measured, Indicated and Inferred resources (Canadian and Australian Mineral Resources). Excluding non-uranium resources.

## 1

### Ready for restart

- Proven operational track record at Langer Heinrich Mine (LHM) with over 43Mlb U<sub>3</sub>O<sub>8</sub> delivered to customers
- Fully permitted to resume mining, processing and uranium exports
- Well defined Mine Restart Plan<sup>1</sup> provides a low risk path to production with competitive economics

## 2

### Upside pathways

- With the completion of the Mine Restart Plan at LHM, focus shifts to upside options such as:
  - Optimisation and value enhancement opportunities
  - Resource expansion and mine life extension
- Exploration and development pathways for Paladin's global high grade exploration portfolio

## 3

### Commercial strength

- US\$38.0M<sup>2</sup> in cash
- No corporate debt
- Disciplined expenditure delivers significant cash runway
- Strong financial position provides significant benefits for uranium marketing
- Board and Executive Leadership Team in place to deliver the Mine Restart Plan and recommence production

## 4

### A sustainable future

- Positive macro tailwinds for uranium driven by nuclear's position as a reliable, low carbon baseload power source
- Uranium is a strategic fuel with an increasing structural supply deficit and improving pricing dynamics
- Paladin is committed to the core principle of delivering value through sustainable development

<sup>1</sup> ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021

<sup>2</sup> As at 31 December 2021.

# Mine Restart Plan confirms economic significance of Langer Heinrich Mine<sup>1,2</sup>



Cost to Restart  
Operations

**US\$81M**



Life of Mine C1  
Cost of Production

**US\$27.4/lb**



Peak  
Production

**6.0Mlb U<sub>3</sub>O<sub>8</sub> pa  
for 7 years**



Mine  
Life

**17 years**



Restart Capital  
Intensity<sup>3</sup>

**US\$13.5/lb**

<sup>1</sup> Information within this slide as detailed in ASX Announcement "Langer Heinrich Mine Restart Plan Update, Mineral Resource and Ore Reserve Update" dated 4 November 2021. <sup>2</sup> 100% Basis quoted. <sup>3</sup> Capital restart costs divided by peak annual production volume.

Paladin will now focus attention on delivering further upside at LHM, through concept studies for potential value enhancement opportunities, including:



Increased production rate for stockpile phase



Mine life extension and resource expansion



Further cost optimisation



Recovery and plant throughput improvements

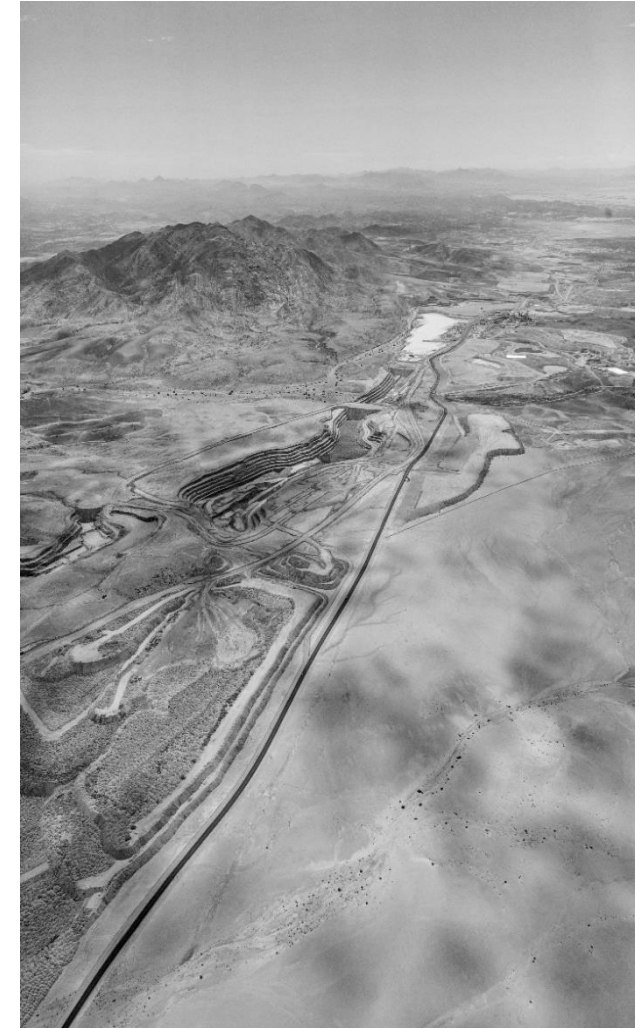


Application of ore sorting technology



Vanadium recovery and sales

Paladin will also explore the opportunity to self fund early works in 2022, and fast track first production when a decision to restart is made.





Globally significant high grade exploration portfolio



Extensive historical exploration activity has seen over US\$140M spent on the portfolio



Diverse portfolio of assets provides optionality on mining methods

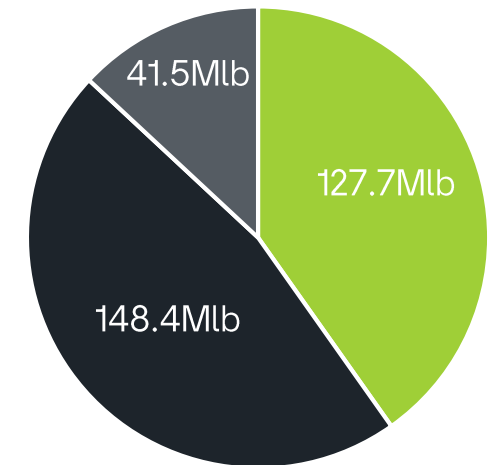


Larger Heinrich Mine operational infrastructure provides leverage and future upside optionality for tenement and regional opportunities



Paladin will continue to pursue a disciplined approach to exploration activity whilst assessing global opportunities

## Exploration Projects Mineral Resources<sup>1,2</sup> 203Mt at 710ppm U<sub>3</sub>O<sub>8</sub> for 317.6Mlb

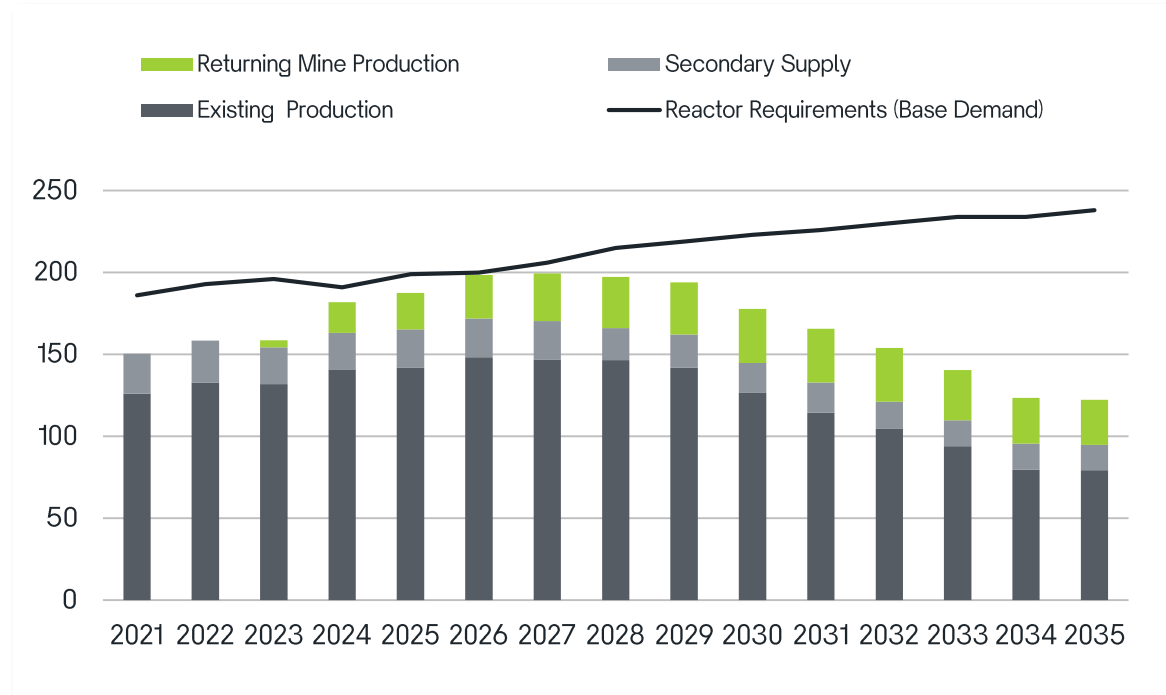


■ Michelin ■ Mount Isa ■ Manyingee & Carley Bore

<sup>1</sup> See the "About Paladin" section of this Presentation for more information and Mineral Resource Tables

<sup>2</sup> Measured, Indicated and Inferred Mineral Resources for the Michelin, Mount Isa and Manyingee & Carley Bore Projects on a 100% Project basis as at 30 June 2021.

## Structural Supply Shortage, TradeTech Mlb U<sub>3</sub>O<sub>8</sub> p.a.



- Current primary uranium supply unable to meet current demand
- Projected deficit requiring the restart of idled production capacity
- Large, long-term projects have ceased production with no market replacement (ERA and Cominak)

<sup>1</sup>IEA

<sup>2</sup>Eurostat

<sup>3</sup>World Nuclear Association, January 2022.

## World Nuclear Generation Facts



10% of global electricity generation<sup>1</sup>



20% of United States<sup>1</sup> and 25% of the European Union's<sup>2</sup> electricity generation



2nd largest source of global clean energy with almost Zero Carbon emissions<sup>3</sup>



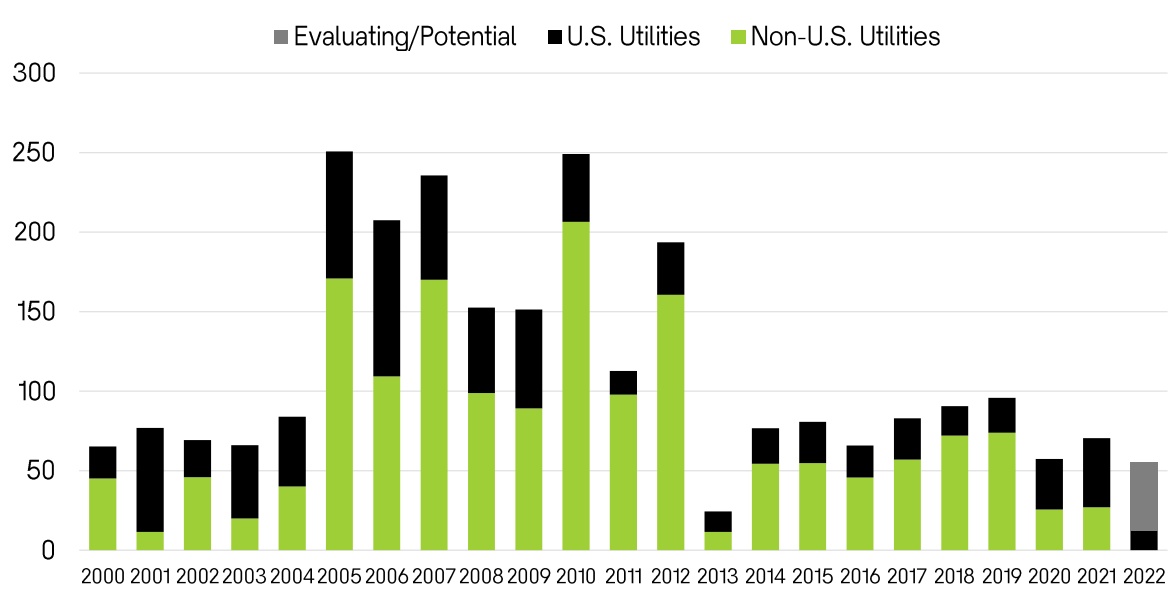
438 reactors in operation across 33 countries<sup>3</sup>



57 reactors under construction in 19 countries<sup>3</sup>



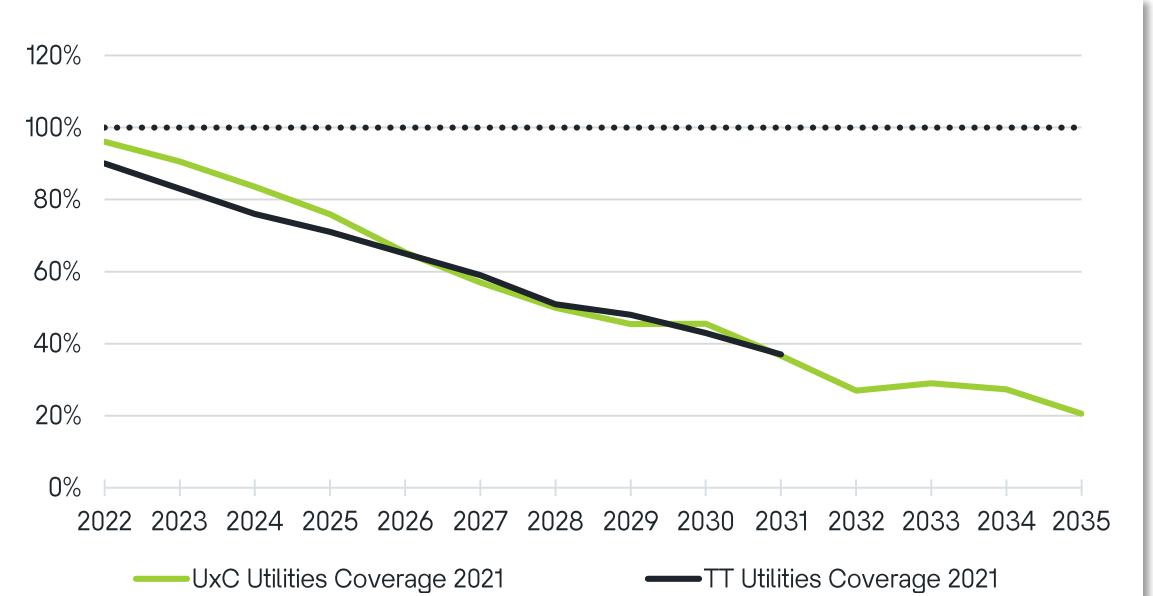
## Historic Term Contract Activity Mlb pa



Source: UxC

- Term contracting levels have been well below annual consumption levels since 2013
- Contracting levels were near 10 year lows in 2020
- Paladin has noted a recent increase in term market activity

## Global Contracted Coverage % of base requirements



- Lack of contracting activity in recent years has led to low contract coverage levels, with coverage forecast to fall to less than 50% by 2028
- Contracting volumes need to average 100Mlb pa from now to 2035 to meet reactor requirements



## Increased levels of Request For Proposals is evidence of major utilities in US, Europe and Asia returning to long term contracting

- TradeTech Reported LT price increased to US\$45/lb in October 2021 (up ~35% since July 2021) and has held at this price level



## China's commitment to Nuclear Energy is strengthening

- 150 nuclear reactors scheduled for construction over the next decade
- Recent contracts announced with Kazatomprom
- Paladin's partner in Langer Heinrich, CNNC has indicated support for the restart and expressed potential interest in increasing their offtake beyond 25%



## The Sprott Physical Uranium Trust has significantly changed the uranium Spot Market Dynamics

- 25.8Mlb of physical uranium has been bought by the Sprott Physical Uranium Trust since the Trust's inception in July 2021
- Impact of Sprott buying has tightened the spot uranium market and driven up the average spot price to ~US\$45/lb in January 2022 (up ~40% since July 2021)



## Other developments

- Potential recognition of nuclear power as an environmentally sustainable transition fuel in the EU taxonomy
- US, UK and France demonstrating strong government support for nuclear energy
- Small Modular Reactor technology advancement to drive demand



## Our Investment Drivers



Proven operational track record



Fully permitted to resume mining, processing and uranium exports



Well defined Mine Restart Plan



No corporate debt



Board and Executive Leadership Team in place to deliver



Committed to the core principle of delivering value through sustainable development

## Our Mission: Resourcing a global carbon-free future

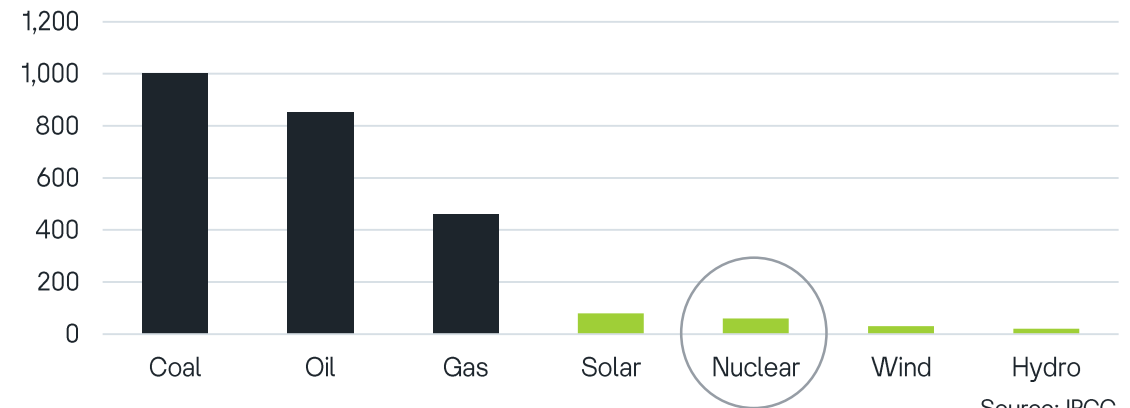
Uranium mining and processing are critical components of the nuclear fuel cycle.

One kilogram of uranium contains the energy equivalent to 13,000kg of coal.

The future uranium mined and processed at Langer Heinrich, used to resource nuclear power plants and displace coal-fired electricity, can reduce CO<sub>2</sub> emissions by around 1.3bn tonnes over the life of the mine.

Nuclear energy will continue to play a key role in decarbonisation of power generation.

**Emissions Intensity by Energy Source, g/kW/h**



Source: IPCC

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