

WA FOCUSED GOLD, COPPER, NICKEL EXPLORER

"Targeting high value gold, copper & nickel deposits, in a highly prospective project portfolio"

October 2022 Investor Presentation



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## **Investment Opportunity**

Targeting high value gold, copper, nickel deposits

Flagship 'Burns' Project first-of-a-kind
Archaean gold-copper porphyry

Projects in Tier 1 exploration & mining jurisdiction of Western Australia

\$25M Farm-in & Joint Venture with Gold Fields Ltd – our largest shareholder

system

Focused on gold & 'green' sustainable metals with future demand growth

Highly experienced board with >20% significant share holding





## **Corporate Snapshot**

LEX Major Shareholders

- Gold Fields Ltd 14.8%
- Noontide Investments Ltd 13.2%
- LEX Board 15.6%
- LEX Share Plan 5.3%
- Lowell Fund Resources 2.2%
- Other 49%

Key Metrics*	
ASX Code	LEX
Issued Capital	145.87M
Market Capitalisation	\$42.3M*
Top 20 Shareholders	71.4%*
Board Ownership	20.2%*
Cash (REFER JUNE QUARTERLY 2022)	\$4.2M
Debt	No debt

\* AS OF 19 OCTOBER 2022



### **Experienced Board**

Highly experienced board and management

Leading exploration, regional and financial experience

Board investment >20%



Gordon Galt
Non-Executive Chairman

Mining Engineer
25+ years of experience
in project development,
management,
directorship, banking



Wade Johnson Managing Director

Geologist
25+ years experience in
mineral exploration,
development, management,
directorship



Michael Davies
Non-Executive Director

Mining Finance Specialist 20+ years experience in resource financing, investment banking, directorship



Tara French
Non-Executive Director

Geologist
20+ years experience in
exploration, management,
development, mining,
directorship & Current MD
Cazaly Resources Ltd

### The Lefroy Project: Overview

#### Strategic Commodity & District Focus

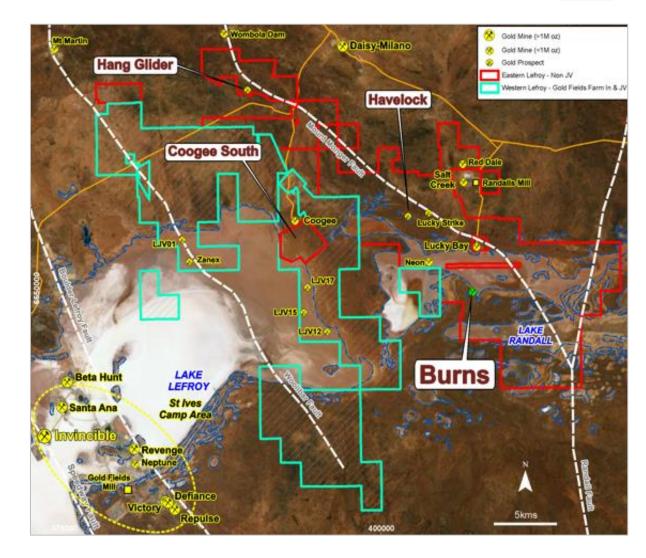
- Multiple operating mines & mills in region with access to world-class infrastructure
- 100% owned 530km<sup>2</sup> contiguous land package

#### Western Lefroy JV & Farm-In Project

- \$25M Gold Fields Farm-In to earn 70% over 6 years
- Ongoing 46,000 m Full Field Aircore Program

#### Eastern Lefroy Project

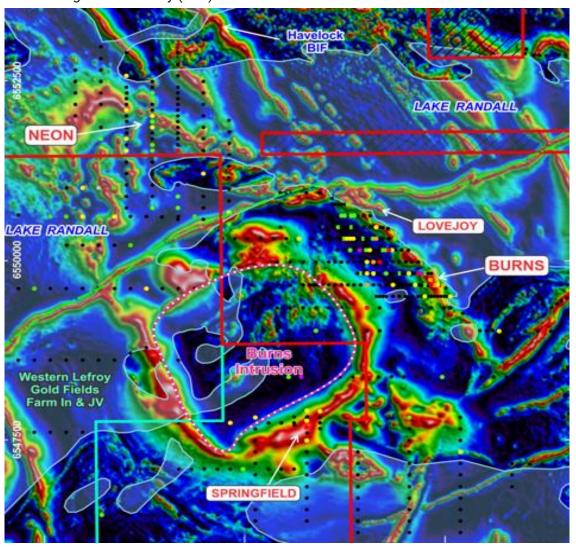
- 32km of strike along a major regional structure to explore
- Numerous highly prospective prospects gold, copper, nickel
- Emerging 'Burns' Gold-Copper (+Mo, Ag, Co) Discovery
- Burns resource drilling underway





## **Burns Background**

Burns Magnetic Anomaly (TMI):



1985 BHP

- BHP identified **annular magnetic feature** typical of a carbonatite anomaly
- Drilled 2 diamond holes that intersected magnetite-bearing dolerite and porphyry

2008-2010 Newmont

Newmont drilled 157 holes of aircore 2km west of Burns which intersected 1m @1.76g/t Au

2011-2016 Octagonal Burns discovery & diamond hole OBUDD001 intersects 55m @ 0.5g/t Au & 0.2% Cu from 230m in porphyry and basalt

Feb 2021 Lefroy

- LEX RC drilling targeting Burns intersects:
- 38m @7.63g/t Au & 0.56% Cu (LEFR260) from 134m in porphyry
- Gold-copper + Molybdenum + silver porphyry related system defined by further drilling

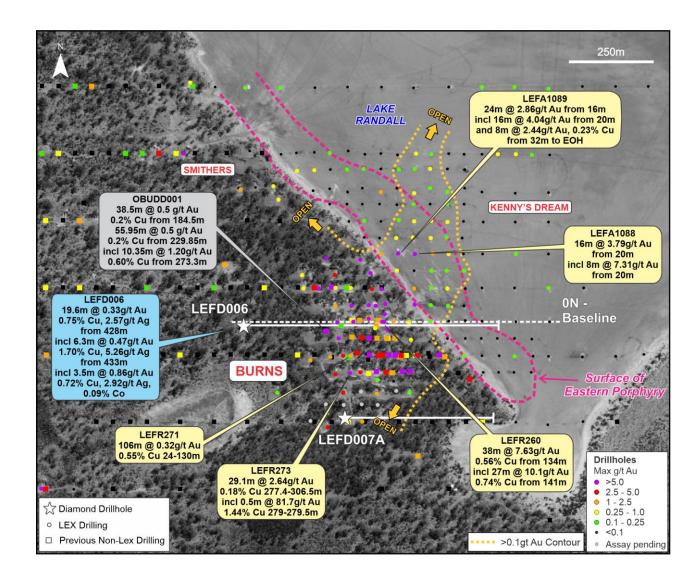


## **Burns: LEX Expands Mineralisation**

 Multiple step-out & infill drill programs continue to expand mineralisation:

#### ~ 600m wide x 200m vertical AND OPEN

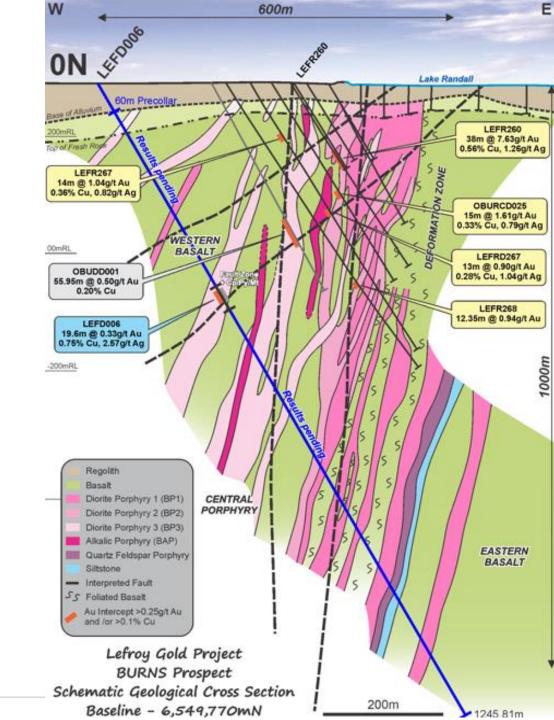
- Geochronology & internal research indicates Burns may be 'first of a kind' in Australia Archaean aged copper-gold porphyry system
- 2 deep diamond holes drilled into Burns Central:
- LEFD006 1.2km hole to further test the vertical & lateral extent
- LEFD007 706m hole into high grade component as 250m step-out south of Burns



# **Burns: LEX Expands Mineralisation (Continued)**

- LEFD006 & LEFD007a intersected broad native copper zones in highly altered drill core, highlighting:
  - 4 key geological domains over 600m width in an intrusive related system (LEFD006)
  - 2 x 30m intervals of native copper blebs in basalt (149m-184m & 205m-231m)
  - Burns is a fertile, multi-stage mineralised system
- 61m zone including potassic altered diorites + chalcopyrite, pyrite, molybdenite returned 19.6m @ 0.75% Cu and 0.33g/t Au from 400m
   AND Cobalt including 3.5m @ 0.72% Cu, 0.86 g/t Au, 0.09% Co from 430m
- Remaining assays for 1,139m are pending (expected late November)



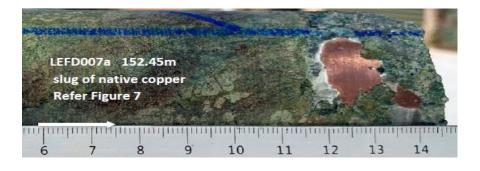


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LEFD006 - 0.5g/t Au and 2.3% Cu





LEFD007a – Native copper in fracture plane drill core 152m

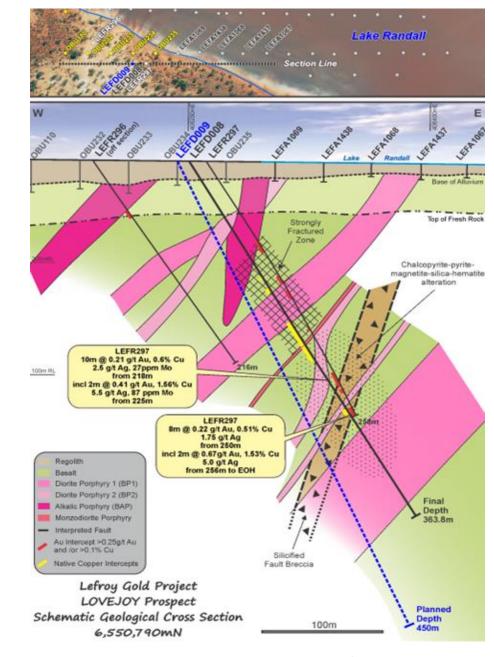




## **Burns:** Lovejoy Prospect

#### Neighbouring target increases scale of system

- Located 1.5km north along strike of *Burns*
- A 364m diamond hole *LEFD008* intersected significant copper mineralisation:
  - 145m long interval @ 130m 275m including;
  - 42m of hydrothermal breccia + native Cu & Cu
     sulphides from 233m 275m
- Intense native copper zone coated several steel drill rods
- Follow-up hole LEFD009 drilled 10m to west and 467m depth
- Fast-tracking assays for copper, gold, multi-elements at lab





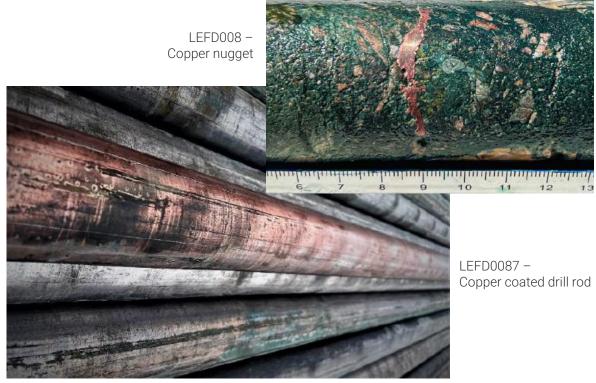
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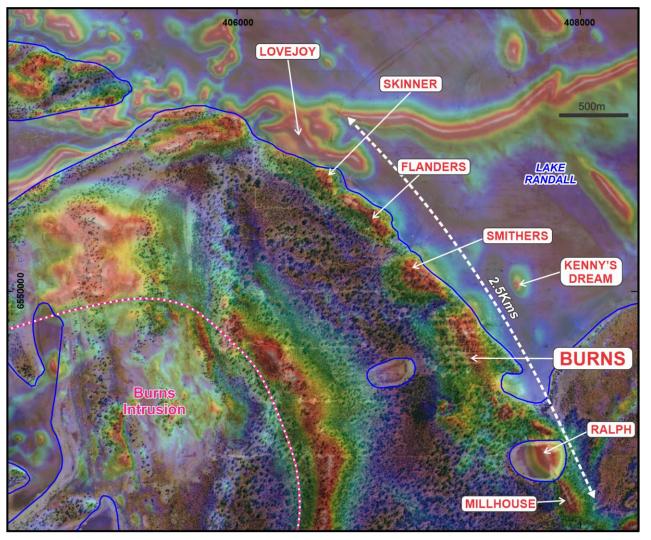
LEFD008 – Copper replacing basalt clasts





## **Burns: Large Scale Potential**

- Visual breccia and native copper results confirm Burns & surrounding prospects source is part of a large gold-copper intrusion related hydrothermal system.
- Additional Burns-like targets over approx. 2.5km strike
  - Ralph coincident gravity & magnetic anomaly on a similar scale to Burns & completely untested
  - Smithers & Flanders limited AC & RC drilling with gold, copper, molybdenite geochemical signature like Burns
  - Neon historic gold anomaly tested by Western mining with broad gold, copper, molybdenum anomaly identified by LEX first pass infill aircore drilling
    - + MORE ~ Millhouse, Skinner, Burns Intrusion

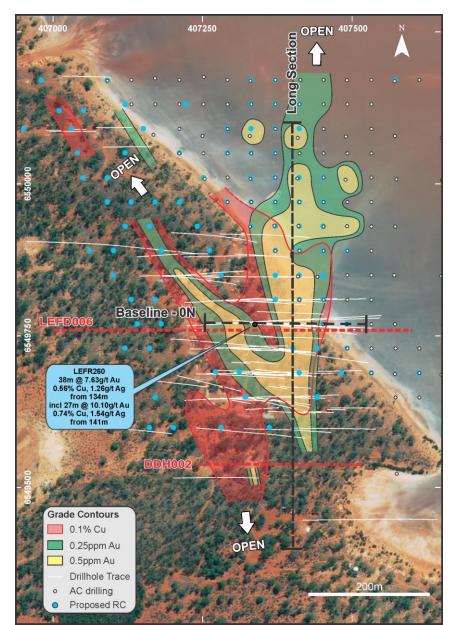


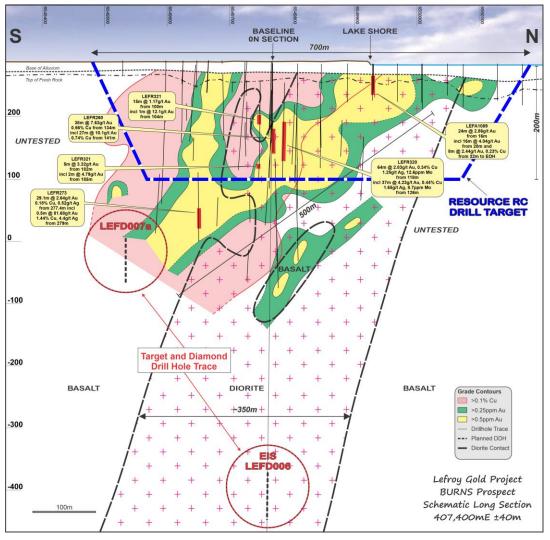
Refer September 20 ASX Release



#### **Burns & Lake Randall**







## Burns: Deliver Maiden Resource CY23

- +100 RC hole program currently underway
- Targeting shallow open pitable gold-copper resource
- Aim to deliver resource estimate in Q1 CY23



## **Burns: Unique to the Goldfields, WA**

#### Advancing a new style of mineralisation

Age – 2.6 billion years old (Archaean)

Location – Yilgarn, Eastern Goldfields

Rocks – diorite porphyries

- Alkalic porphyry gold-copper deposits are not documented in Western Australia
- Eastern Goldfields is not known to host alkalic porphyry style mineralisation

#### Geochemical Signature

#### Zoned alteration assemblage analogous with modern porphyry systems:

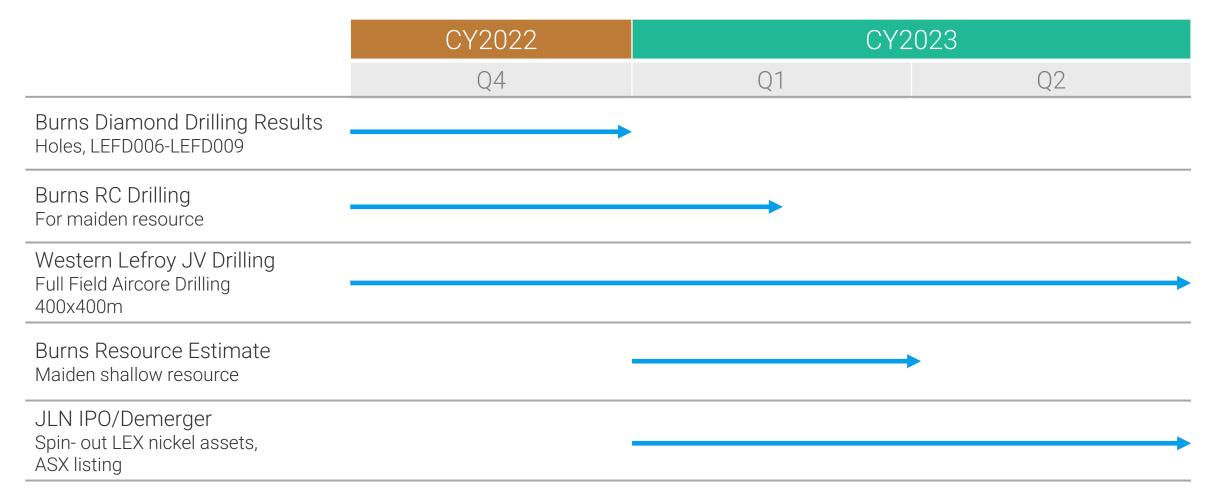
- Gold + copper + molybdenum + silver association
- Potassic and magnetite alkalic alteration
- Sulphides

Canadian Examples of Alkalic Porphyry Systems

- Kwanika NorthWestCopper Quesnel Terrane BC Canada
- Galore Creek Newmont/Teck NW British Columbia
- Cote IAMGOLD Ontario, Canada



#### **Activities & Newsflow: Next 6 Months**



NB: LEX activities are subject to any changes and are subject to results, field conditions and going review



## **Proposed Nickel Assets Demerger / IPO**

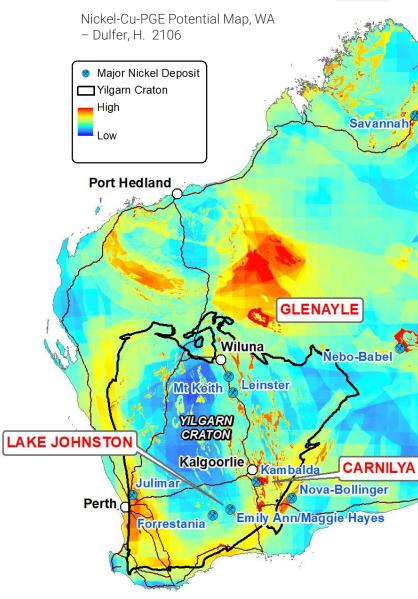
#### **Johnston Lakes Nickel**

- 100% wholly-owned LEX subsidiary Johnston Lakes Nickel Ltd -JLN
- Targeted ASX listing first half CY23
- Strategic move to unlock value of highly prospective nickel assets for LEX shareholders
- Highly credentialed Board & Management team, including two former Western Areas executives

#### **Three Nickel Projects**

- Carnilya South –10km strike of Kambalda Komatiite 1km south of Carnilya nickel mine
- Lake Johnston north of adjoining Emily Ann/Maggie Hays mine
- Glenayle –2700 km² land package NE of Wiluna prospective for magmatic nickel-copper sulphide mineralisation with first mover advantage





AUSTRALIA'S NEW GOLD-COPPER DISCOVERY

Exploring For Multi-Million Tonne Deposits

## **Company Takeaways**

- Strong commitment to generative exploration and discovery in a quality gold-copper-nickel portfolio
- Focused on a new style of high value gold-copper mineralisation within a tier one gold province
- Underpinned by the \$25 million Farm-In & JV with Goldfields Ltd at Western Lefroy
- Committed to creating long-term shareholder value
- Tight capital structure leverages share price to exploration success





#### THANK YOU

## ACCELERATING EXPLORATION IN A WORLD CLASS GOLD DISTRICT

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## **Competent Person Statement**

#### Notes Specific-ASX Announcements Investor Presentation

The following announcements were lodged with the ASX (including supporting JORC Reporting Tables) and details for each of the sections noted in this Presentation and can be found in the announcements. Note that these announcements are not the only announcements released to the ASX since the last presentation dated 2 February 2022 but specific to exploration reporting. The Company confirms that it is not aware of any new information or data that materially affects the information previously reported.

- RC Drill Results Outline New Gold Zone at Burns: 25 January 2022
- High-Grade results expand the Burns Cu Au System: 21 February 2022
- Impressive Au-Cu intersection in New RC Hole at Burns: 19 April 2022
- AC Drill Results Continue to Expand the Burns Gold-Copper System Beneath Lake Randall: 4 July 2022
- Exploration Update 1200m Deep Diamond Hole Underway at Burns: 12 July 2022
- Burns 1200m Diamond Drill hole Update: 1 August 2022
- Drilling Continues to Define Larger Scale to Burns Au Cu System: 1 September 2022
- Burns Update: Significant Copper Mineralisation Intersected at Lovejoy: 20 September 2022
- Resource RC Drilling Program Underway at Burns: 6 October 2022

The information in this announcement that relates to exploration targets and exploration results is based on information compiled by Wade Johnson a competent person who is a member of the Australian Institute of Geoscientists (AIG). Wade Johnson is employed by Lefroy Exploration Limited. Wade Johnson has sufficient experience that is relevant to the style of mineralisation and type of deposits under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the JORC Code. Wade Johnson consents to the inclusion in this announcement of the matters based on his work in the form and context in which it appears.

