



GALLIUM

/LIFEBLOOD OF THE MODERN WORLD

NEW WORLD METALS INVESTMENT SERIES
SEPTEMBER 2024

IMPORTANT NOTICES

DISCLAIMER

This presentation and information contained in it is being provided to shareholders and investors for information purposes only. Shareholders and investors should undertake their own evaluation of the information and otherwise contact their professional advisers in the event they wish to buy or sell shares. To the extent the information contains any projections the Company has provided the projections based upon the information available to the Company. The Company does not make any representations as to the accuracy or otherwise of that third party information.

COMPETENT PERSON STATEMENT

The information in this report that relates to Exploration Results is based on information compiled by Bernard Rowe, a Competent Person who is a Member of the Australian Institute of Geoscientists. Bernard Rowe is a shareholder and Non-Executive Director of G50 Corp Limited (previously Gold 50 Limited). Mr Rowe has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken 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'. Bernard Rowe consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

The information in this Presentation that relates to previous mining and/or exploration work is based on information included in the Company's Prospectus dated 21 May 2021. The Company confirms that it is not aware of any new information or data that materially affects the information included within the Prospectus dated 21 May 2021.

FORWARD LOOKING AND CAUTIONARY STATEMENTS

This Presentation contains "forward-looking information" that is based on the Company's expectations, estimates and projections as of the date on which the statements were made. This forward-looking information includes, among other things, statements with respect to the pre-feasibility and feasibility studies, the Company's business strategy, plan, development, objectives, performance, outlook, growth, cash flow, projections, targets and expectations, mineral resources, results of exploration and relations expenses. Generally, this forward-looking information can be identified by the use of forward-looking terminology such as 'outlook', 'anticipate', 'project', 'target', 'likely', 'believe', 'estimate', 'expect', 'intend', 'may', 'would', 'could', 'should', 'scheduled', 'will', 'plan', 'forecast', 'evolve' and similar expressions. Persons reading this announcement are cautioned that such statements are only predictions and that the Company's actual future results or performance may be materially different. Forward-looking information is subject to known and unknown risks, uncertainties and other factors that may cause the Company's actual results, level of activity, performance or achievements to be materially different from those expressed or implied by such forward-looking information.

Forward-looking information is developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to general business, economic, competitive, political and social uncertainties; the actual results of current exploration activities; conclusions of economic evaluations; changes in project parameters as plans continue to be refined; future prices of lithium and other metals; possible variations of ore grade or recovery rates; failure of plant, equipment or processes to operate as anticipated; accident, labour disputes and other risks of the mining industry; and delays in obtaining governmental approvals or financing or in the completion of development or construction activities. This list is not exhaustive 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. The Company disclaims any intent or obligations to or 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.

Statements regarding plans with respect to the Company's mineral properties may contain forward-looking statements in relation to future matters that can be only made where the Company has a reasonable basis for making those statements. Competent Person Statements regarding plans with respect to the Company's mineral properties are forward looking statements. There can be no assurance that the Company's plans for development of its mineral properties will proceed as expected. There can be no assurance that the Company will be able to confirm the presence of mineral deposits, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of the Company's mineral properties.

THE G50 OPPORTUNITY

DIRECTORS



Rob Reynolds
Non-Executive Chairman



Bernard Rowe
Non-Executive Director



Mark Wallace
Managing Director



Ian Davies
Non-Executive Director

MANAGEMENT



Danny Sims
Arizona Manager



Sharmila Watson
Chief Financial Officer

Experienced leadership team with a track record of discovery in Southwest USA; leveraging strong networks to progress high-quality projects

GALLIUM PRICES

Gallium Nitride (GaN) is an important semiconductor material with high critical field strength and electron mobility.

Advantages:

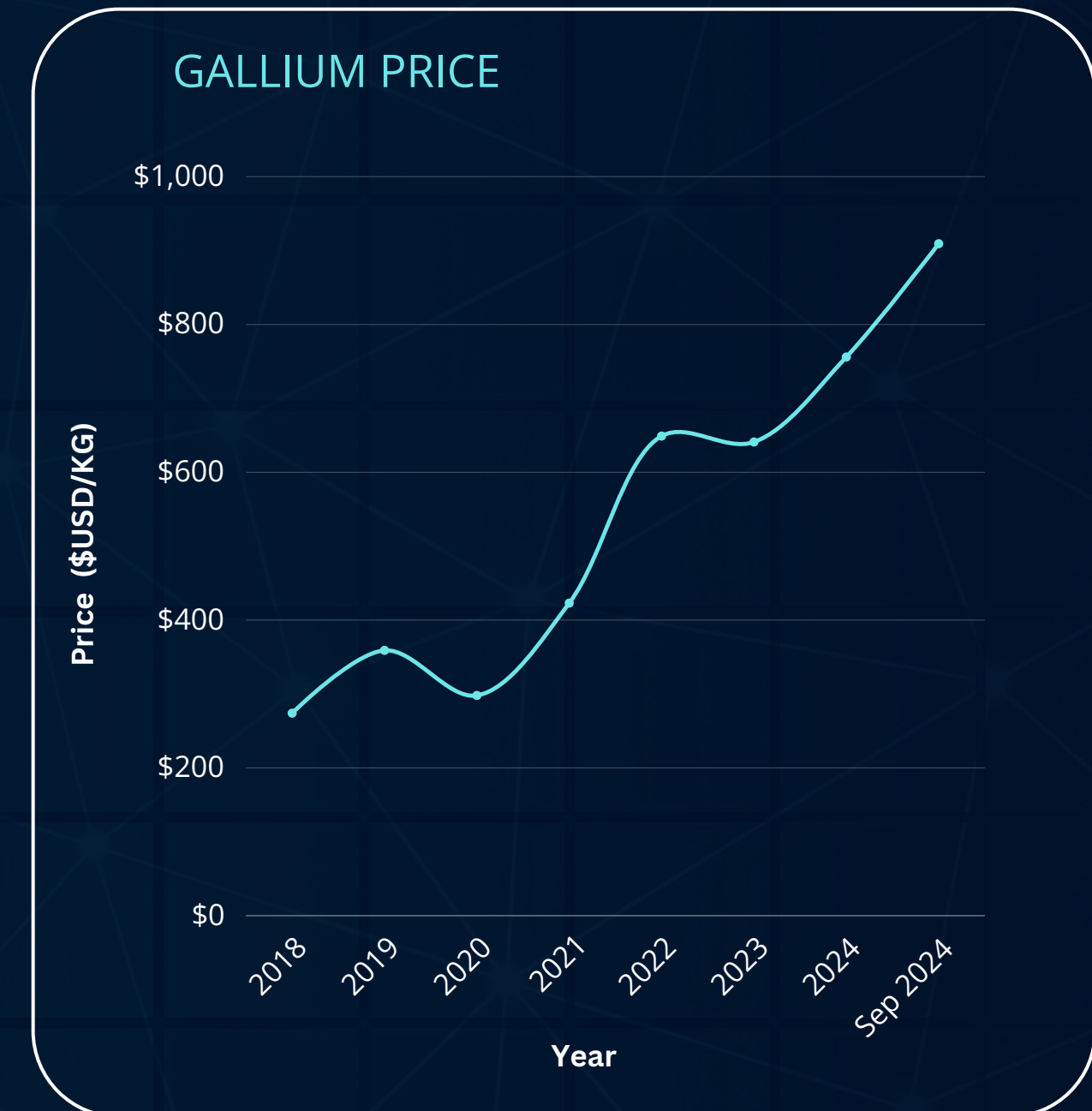
- Higher switching speed and lower ON-resistance.
- GaN contributes to lower power consumption, higher output and reduction in size of equipment

“Indium Corporation, a supplier to the electronics and semiconductor industries, said US companies such as his were finding it “really hard” to get export licences and that it only had “a couple of weeks” worth of germanium and gallium in stock.”

“If China reduces gallium exports as it did in the first half of the year, then our reserves will be consumed and there will be shortages,” they said.”

“The situation with China is critical. We are depending on them,” ”

Source: FT: Semiconductors “China’s export curbs on semiconductor materials stoke chip output fears”
August 27th, 2024



Source: Statista 2024

Recent market disruptions including the entry of price inelastic demand and Chinese export controls in August 2023 has seen a **doubling of prices since 2021**

GLOBAL SEMICONDUCTOR MARKET

\$574.6

Total Market Size
(USD billion) 2022

8.8%

CAGR
2022 - 2032

KEY DEMAND DRIVERS

- 5G telecommunications
- Artificial Intelligence
- Internet of Things
- Self-Driving Cars

KEY TRENDS

- Increasing Demand for high-performance semiconductor devices
- **New Semiconductor Technology**
- Security
- Sustainability

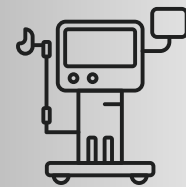
GLOBAL SEMI-CONDUCTOR MARKET

- Actual Size vs Projected Size

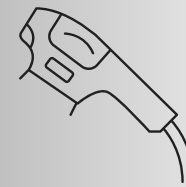


VAST AND ACCELERATING MARKET

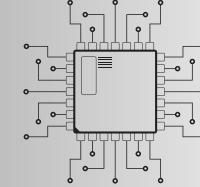
Rapid Market Adoption



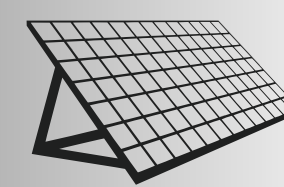
Medical Equipment



Laser Diodes



Integrated Circuits



Solar Cells



Telecommunications



Defense



- Infrastructure
- Patented Claims



- Grades x Intercepts
- Well understood and Advanced Geological Model



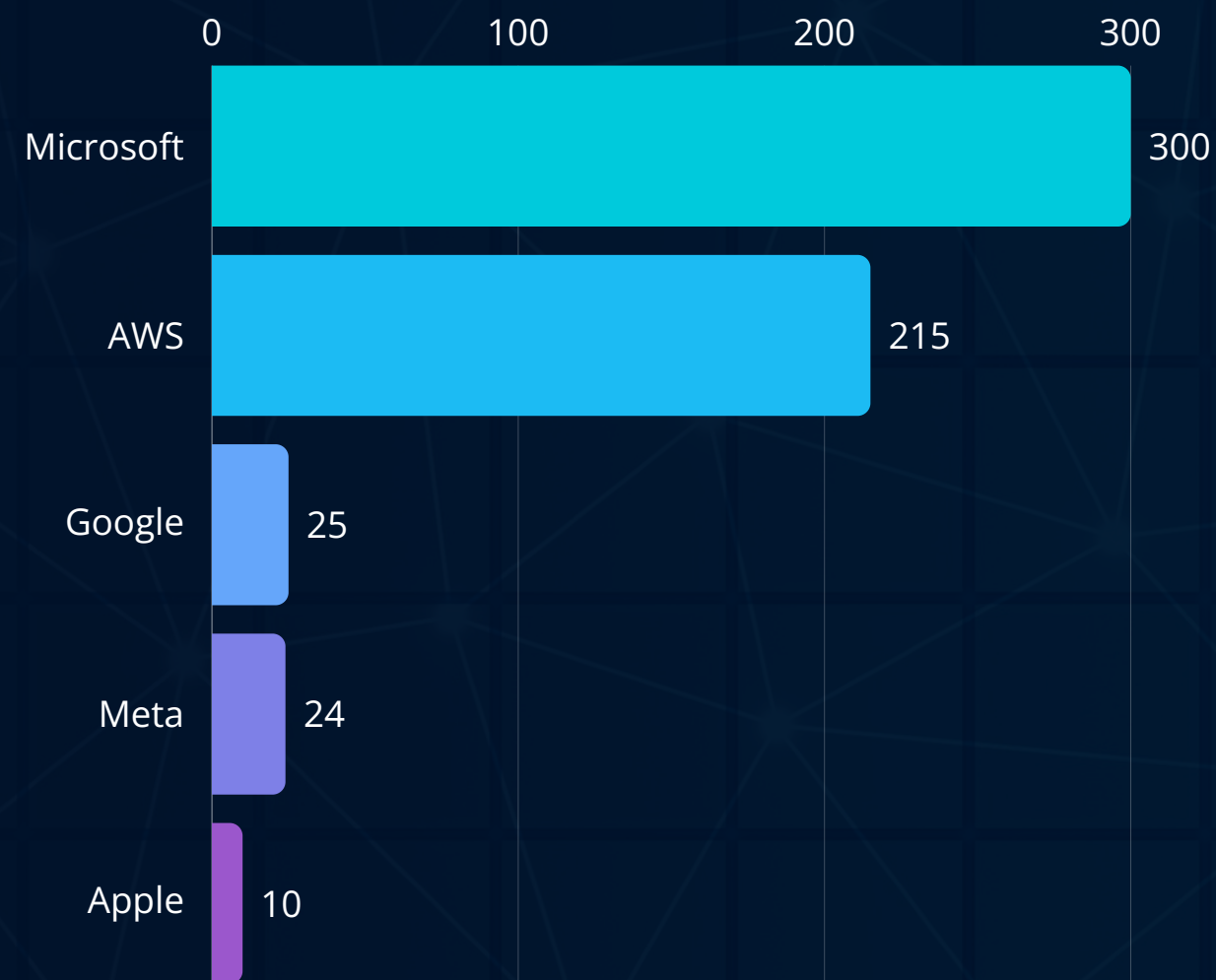
- Proximity to End Users
- Strategic Location

Golconda Project, Arizona

GALLIUM NITRIDE

MARKET ADOPTION

BIG TECH DATA CENTRES



SOURCE: Visual Capitalist



POTENTIAL SAVINGS

For a typical major **Tier One Data Centre Operator** assuming **6 smaller** and efficient GaN-based power supplies can perform the work of **10 Si-based units**.

Servers p/rack go from **30 to 34**. (Source: GaN Systems)

- Operational savings from energy: U\$5,600 / server rack saves **U\$241 million pa**
- Additional revenue from greater server density: U\$5,100 / server rack adds **U\$1.1 bn pa**
- Lower capex from postponing construction of further data centers: **\$840 million** in CAPEX saving

SOURCE: Aspecore Guide to Gallium Nitride: A New Era for Power Electronics.
Edited by Maurizio Di Paolo Emilio & Nitin Daha

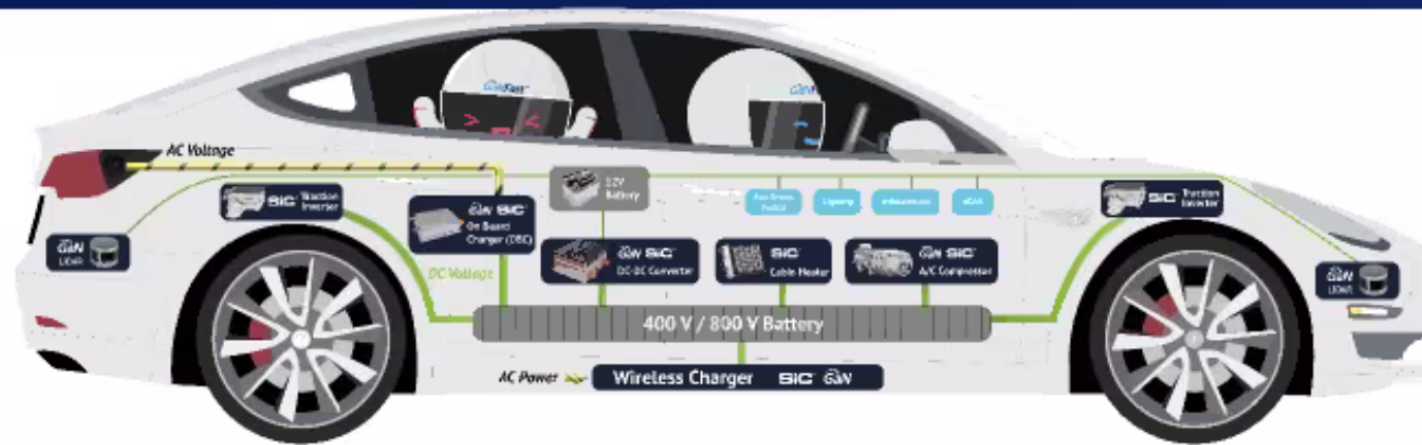


GALLIUM NITRIDE – MARKET ADOPTION

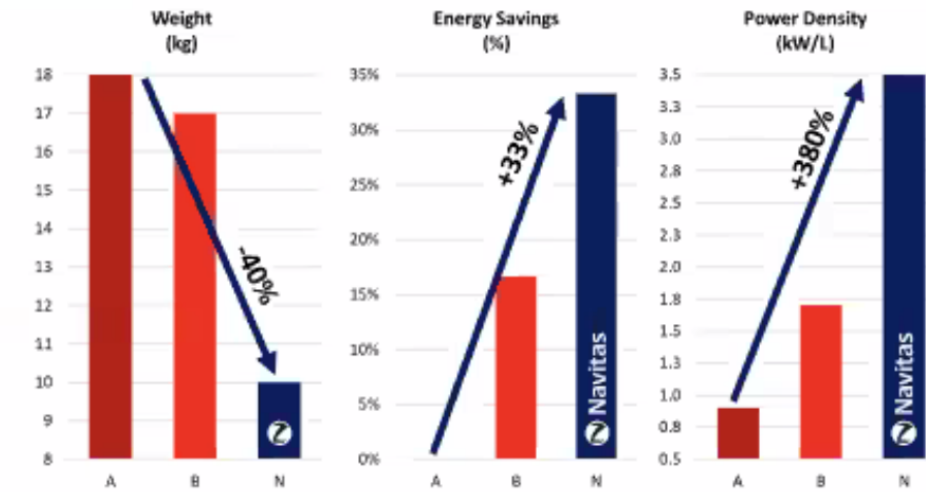
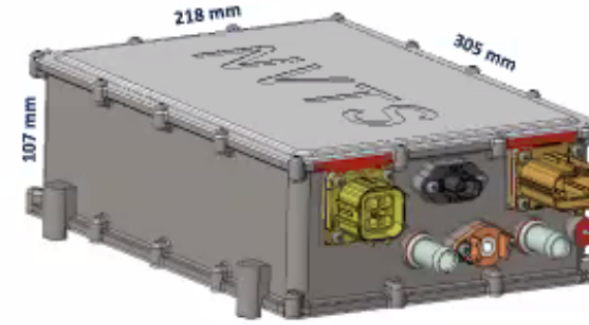
Potentially More Than 90 Power GaN Devices Per Car

- Integrated Device Manufacturers (IDM'S)
- On-Board Charger
- DC/DC Converter
- Traction Inverter
- LIDAR Driver
- In Cabin Phone Charging
- Class-D Audio
- Auxiliary Power Applications
- Wireless Charging
- BLDC Motor Drives

Driving EV: Customer Pipeline +50% to \$600M Navitas



22 kW, OBC 3-in-1



- 400V and 800V battery solutions; GaN + SiC
- Up to 3x smaller, 40% lighter, 30% energy savings
- 160 customer projects in development
- 10's of \$ millions new business in '25



GOLCONDA, AZ

HISTORICAL MINING DISTRICT CONSOLIDATED



LOCATION

- Adjacent to a major Cu-Mo porphyry deposit in Arizona, and historically mined for lead and zinc; it covers numerous well-developed precious and polymetallic mineralised veins and untested structures immediately southeast of the Mineral Park deposit
- Operate from Patented Claims. Close to infrastructure, labor, supportive policies and communities

EXPLORATION

- Mined to a depth of 490m with high gold and silver grades
- Precious metals potential is largely untested, no systematic exploration in >30 years with fragmented ownership
- **Proximal to Mineral Park porphyry Cu-Mo deposit** (100Mt at 0.45% Cu and 0.04% Mo)
- **NEW GOLD DISCOVERY IN GRC06 *** :
35m at 5.2g/t Au, 5.9g/t Ag from 177m including:
9m at 19.5g/t Au and 17.8g/t Ag and 0.4% Zn from 203m

*G50 ASX Announcement "35m at 5.2 g/t Gold, Discovery at Golconda" 19 June 2023

KEY INTERCEPTS IN GRC03 & GRC09 *

HOLE	FROM (m)	INTERVAL (m)	GOLD (g/t)	SILVER (g/t)	COPPER (%)	ZINC (%)
GRC01	79.2	13.7	0.10	51.4	0.01	0.52
<i>including</i>	80.8	4.6	0.19	119.4	0.02	0.84
GRC03	61.0*	25.9	0.70	157.1	0.15	0.38
<i>including</i>	61.0*	10.7	1.21	399.1	0.31	0.55
<i>including</i>	79.2	3.1	0.68	39.5	0.05	0.35
GRC03	102.1	27.4	0.14	20.1	0.01	0.11
GRC06	88.4	10.7	0.27	12.3	0.04	0.73
<i>including</i>	96.0	1.5	0.63	37.6	0.11	2.1
GRC06	141.7	6.1	0.37	9.4	0.01	0.14
<i>including</i>	141.7	1.5	1.26	33.5	0.03	0.28
GRC06	176.8	35.0	5.2	5.9	0	0.09
<i>including</i>	202.7	9.1	19.5	17.8	0.01	0.40
GRC09	24.4	3.1	2.25	10.1	0.01	0.08
GRC09	36.6	9.1	0.91	172	0	0.07
<i>including</i>	36.6	6.1	1.32	244.3	0.02	0.09
GRC09	48.8	9.1	0.05	72.5	0	0.05
<i>including</i>	50.3	3.1	0.08	176	0	0.11
GRC09	117.3	18.3	0.08	27.2	0	0.07
GRC10	4.6	16.8	0.30	20.4	0.1	0.28

*GRC03 - 53.4 - 58m intercepted backfill in historic workings



GRC03

- Collared within the Tub Vein and drilled to the E-NE and down the dip of the Tub Vein due to access limiting collar location
- Hole steepened and entered the Tub Vein footwall at depth, drifted down into the Tub Vein footwall and thus **did not intercept the targeted hanging wall zone**
- **Best intercept** was immediately below underground workings:
26m at 0.7g/t Au and 157 Ag from 61.0m;
including 11m at 1.2g/t Au and 399g/t Ag, 0.31% Cu and 0.5% Zn
- Au associated with intense argillic alteration, sericite and various sulfides



GRC09

- Collared on the Oro Plata Mine dump and drilled to the W
- Targeted intersection of two N-striking faults and a NW-striking fault
- **Best intercepts** were:
3m at 2.3g/t Au and 10g/t Ag from 24m
9m at 0.91g/t Au and 172g/t Ag from 37m;
including 6m at 1.32g/t Au and 244g/t Ag
- Ag grade is greatest on the east side of the N-striking faults and Au grade is greatest on the west side of these faults. Notably, there is a strong correlation with precious metal mineralisation and mafic host rock

*G50 ASX Announcement "35m at 5.2 g/t Gold, Discovery at Golconda"
19 June 2023

G50Corp

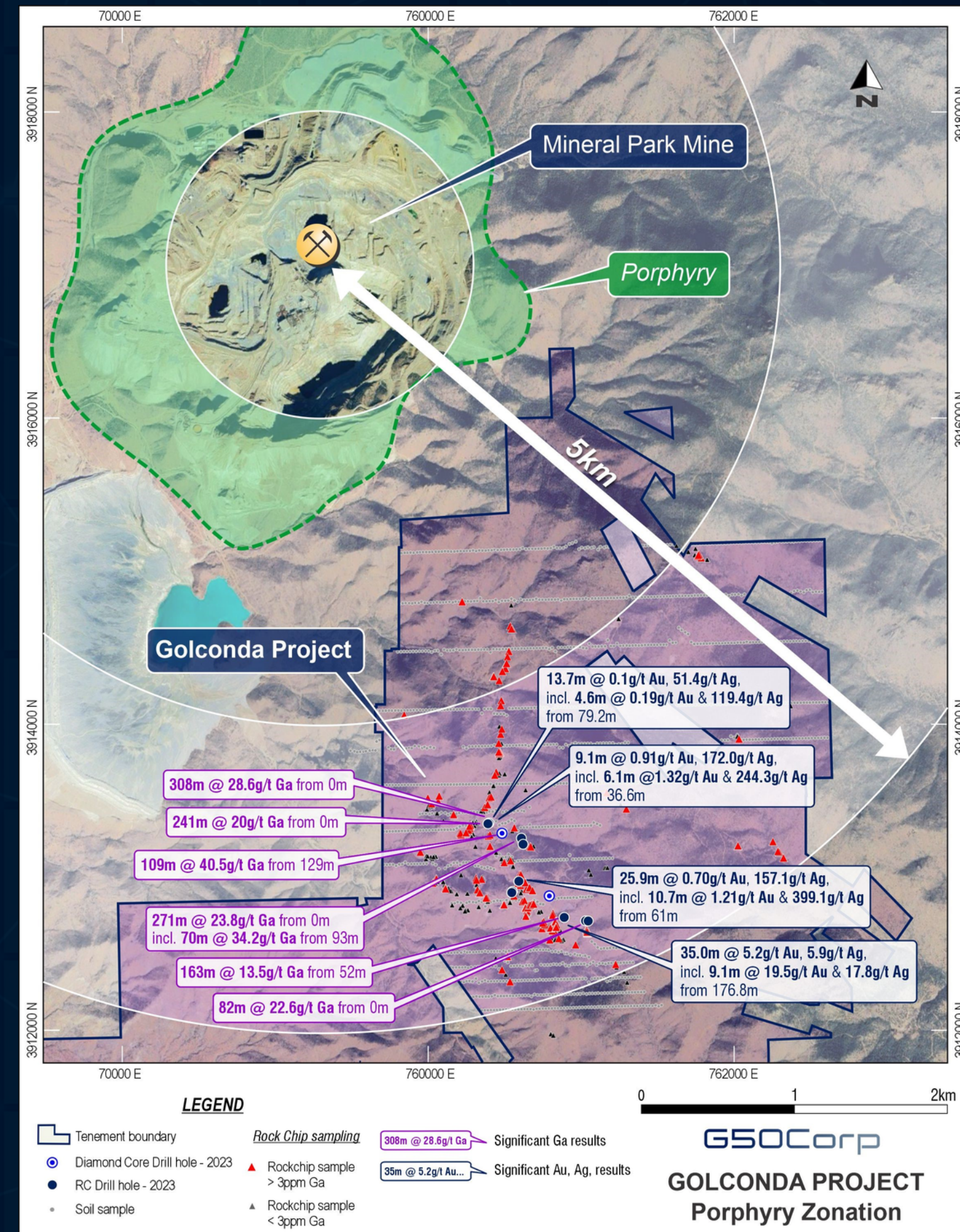
GOLCONDA

GALLIUM “HALO” DISCOVERY*

- Structure , structure, structure => Permeability zones
- Drilling intersections of major NW-striking veins with N or NE-striking faults => where precious metals are dominant
- Drilling program (12 RC and 2 Diamond holes) completed in April, 2023

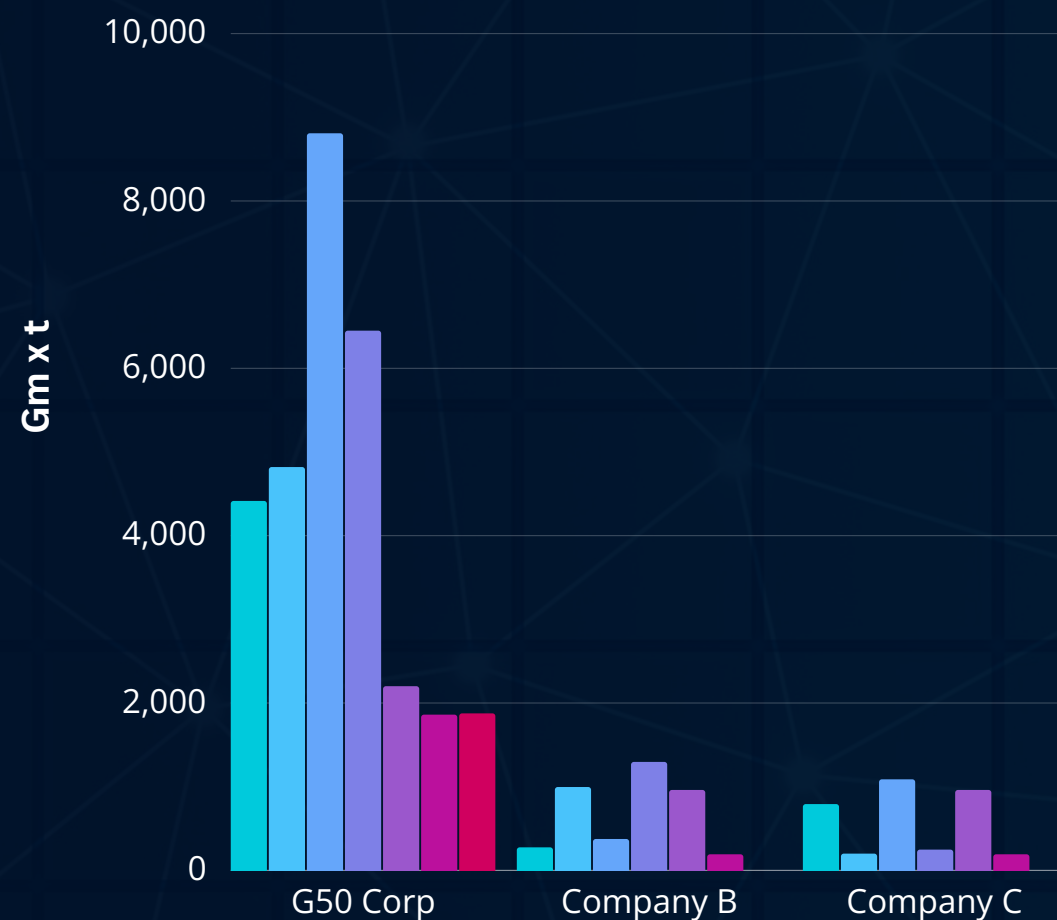
HOLE	INTERCEPT	GRAM x METRE
GDD02	109m at 40.5 g/t gallium from 129m	(4,415 gm*m)
GRC01	241m at 20 g/t gallium from surface	(4,820 gm*m)
GRC02	308m at 28.6 g/t gallium from surface	(8,809 gm*m)
GRC05	271m at 23.8 g/t gallium from surface including 70m at 34.2 g/t gallium from 93m	(6,450 gm*m)
GRC06	163m at 13.5 g/t gallium from 52m	(2,201 gm*m)
GRC08	142m at 13.1 g/t gallium from surface	(1,861 gm*m)
GRC11	83m at 22.6 g/t gallium from surface	(1,876 gm*m)

*G50 ASX Announcement “308m at 28.6 g/t Gallium at Golconda”, 27 July 2023



GALLIUM “HALO” DISCOVERY

REPORTED GALLIUM INTERCEPTS BY DRILL HOLE



*G50 ASX Announcement “308m at 28.6 g/t Gallium at Golconda”, 27 July 2023

GALLIUM MINERALIZATION

- Wide-spaced drilling at the Golconda Project has intersected **Gallium mineralization in 11 of 14 holes** of G50’s recent diamond and RC drilling program
- Multi-element assaying of our maiden drilling program was critical due to the nature of the polymetallic mineralised system

GEOLOGICAL MODEL EVOLVED

- Recent work has demonstrated that the **base-metal sulfide deposits formed in porphyry Cu/Mo systems** have a great resource potential for **critical metals such as Re, In, Ge, Ga, Se, and Te**. Previous studies have predominantly focused on the genesis of the Pb-Zn(Ag) polymetallic veins. **The spatial distribution of Cd, Ga, and In and their enrichment mechanism is poorly constrained**
- In a **magmatic-hydrothermal environment**, the zones of **advanced argillic alteration associated with Quartz-alunite (high sulfidation) Au-Ag deposits** have the highest Ga contents (max 120 ppm). In these Au deposits, Ga is enriched in the zone of **alunite±kaolinite alteration** and depleted in the zone of **quartz-rich alteration within acid-leached rocks**

MARK WALLACE

MANAGING DIRECTOR



queries@g50corp.com



www.g50corp.com

Authorised for release by the Managing Director

G50Corp