Driving Values

Exploration Success Sustainable & Responsible Production

JAGUAR MINING INC.

June 2022 Corporate Presentation TSX:JAG OTCQX:JAGGF



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Technical information in this Presentation has been approved by Jon Hill, an employee of Jaguar Mining, and a Qualified Person as defined by NI 43-101 – Standards of Disclosure for Mineral Projects.

Key Messages



STRATEGY	 Sustainable & responsible producer Delivering on successful exploration – expand organic production/maximize existing IQ infrastructure
PORTFOLIO	 Iron Quadrangle – Tier I Jurisdiction - 300+ years of gold mining/50M+ oz Minas Gerais – largest mining state, supportive government, qualified workers IMG/JAG Agreement – 56K ha with key targets under exploration
PRODUCTION	 507K Au oz of Mineral Reserves = est. 5 yrs prod'n/Updated March 22 1.5M Au oz total Resources + orebody projections = >10 yr strategic planning FY2022 Lower End of Guidance ~86kozAu @ ~AISC 1,250-1,350/oz
CAPITAL	 Treasury US\$35M 10%+ Dividend Yield (@ Current Share Price) Low debt Strong Free Cash Flow* Deploying capital for aggressive exploration campaigns, targeting organic growth
CATALYSTS	 Exploration success will expand MRMR Free Cash Flow (\$8M Q4 2021)* Excellent potential M&A in the region
* 01 2022 Production impacted	thy heavy rainfall and Covid-19

Maximize cash flow, maintain capital discipline & increase value & returns through responsible production & successful exploration

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ESG Sustainable Development Goals





ESG

REPORTING

Strategy Goals & Scorecard Stakeholder Engagement



Building prosperity for all

SOCIAL

Working Conditions Community Relations Health & Safety Employee Relations Diversity & Gender Equality Climate Change Resource Depletion Production Consumption Waste & Pollution Environmental Protections



ENVIRONMENT

Executive Pay Anti-Corruption Board & Management Diversity Stakeholder Relations



Our Assets – Positioned & Expansion Ready



Focused on the Iron Quadrangle of Brazil

BRAZIL

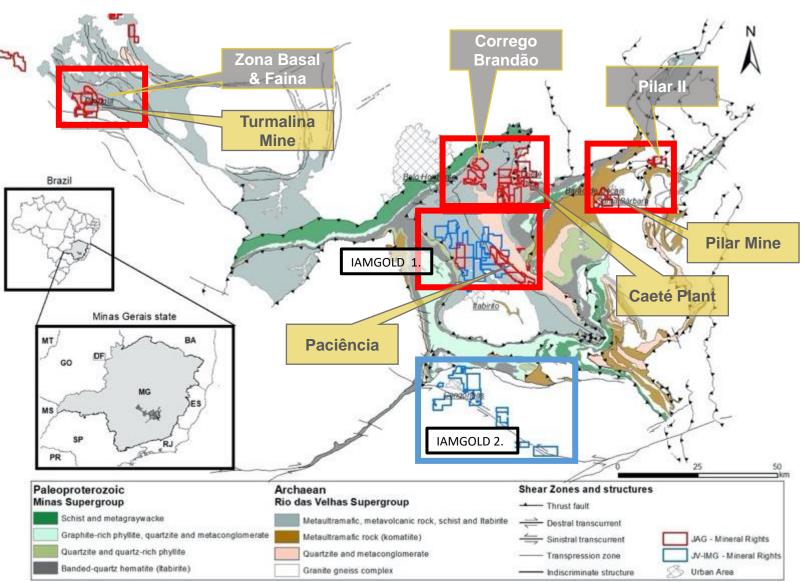
Minas Gerais Caeté Turmalina Belo Horizonte Roca Grande

e of Brazil	TURMALINA ∼40k Au oz∕yr	PACIÊNCIA & ROÇA GRANDE	EXPLORATION SUCCESS	IRON QUADRANGLE
é	 Underground mine Sub-Level stoping Plant – 3,000 tpd - 	 Paciência - C&M Underground mine Long hole stoping Plant - 2,000 tpd Potential 50K au oz/yr Roça Grande - C&M Underground mine Long hole stoping Plant feeds Pilar 2,200 tpd Potential 30K Au oz/yr 	85% Increase in Deployed Capital	Top Tier Jurisdiction 300+ yrs mining 50M+ Au oz
	50% underutilized PILAR/CAETÉ ~50k Au oz/yr Underground mine Long hole stoping Ore trucked 40km to Caeté Plant Plant – 2,200 tpd - 50% underutilized		 Strategy Focused on Increasing MRMR, extending LOM High Priority Targets Corrego Brandão Zona Basal, Faina, Pilar II 	 IMG Strategic option agreement for expl'n on 32.2 kHa in IQ New exploration targets include IMG JV Multiple exploration opportunities

EXPANDABLE – LOW-RISK – LOW COST – LONG LIFE – ORGANIC GROWTH PROFILE

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Our Assets – Positioned & Expansion Ready



Multi-year IQ Growth Plan

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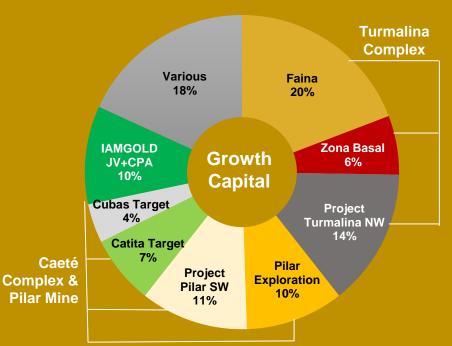
50%+ of Free Cash Flow Deployed for Exploration & Growth

DEVELOPMENT TARGETS:

Faina Inferred Resource: 1.8Mt @ 7.21g/t of 418koz Au
 CPA – NI 43-101 Q2-2023

INCREASE MRMR:

Turmalina: Developing access to NW corridor, Pontal Pilar: Developing access to SW structure



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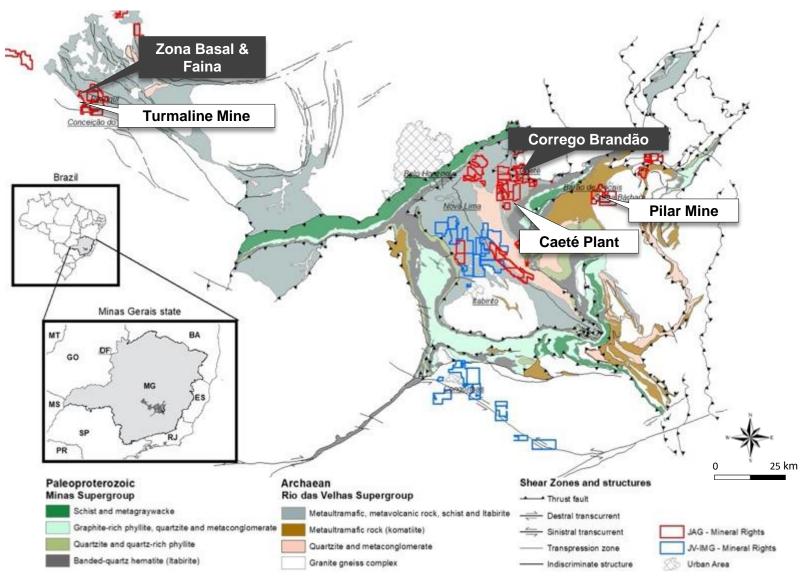
Expanded Activities – Exploration Project Portfolio

Caeté & Turmalina

- Potential OP, resource additions
- Exploration program
 - Geochemistry and Geophysics
 - Target Generation
 - Phase 1 Diamond Drilling
 - Phase 2 Diamond Drilling 2022

Highlights include:

- CB near surface oxide intercepts: 4.2gt Au over 40.00m
 1.41gt Au over 40.05m
 0.78gt Au over 46.15m
 1.84gt Au over 25.55m
- ZB near surface oxide intercepts: 2.38gt Au over 20.45m
 2.00gt Au over 15.40m
- CB sulphide intercept: 4.63gt Au over 12.45m

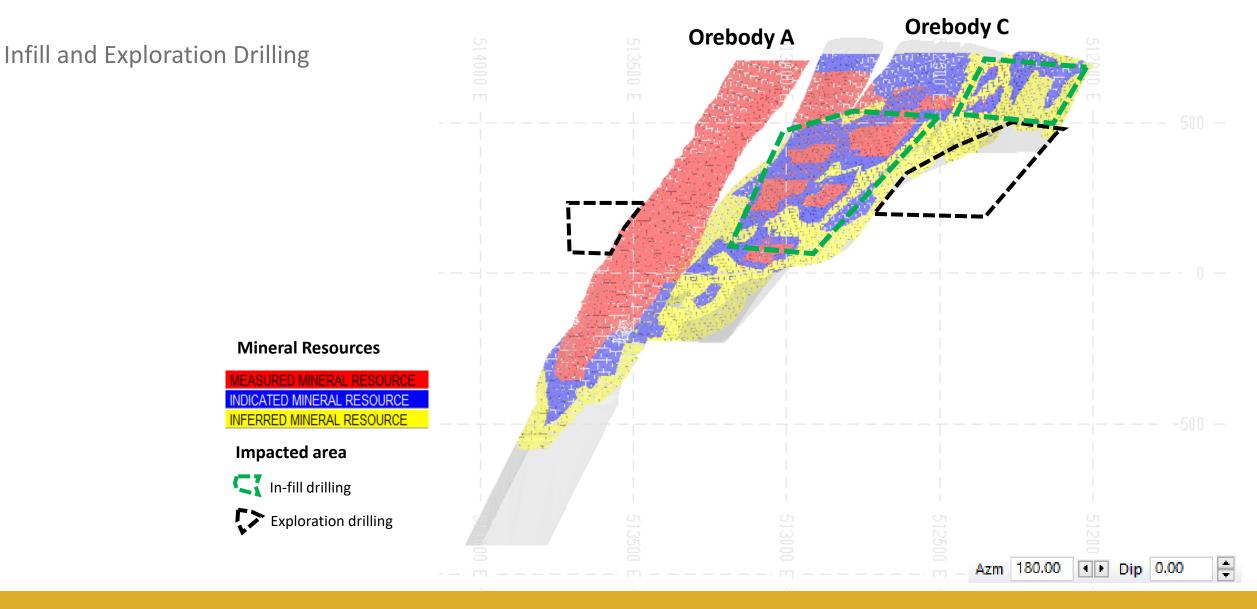


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Turmalina – 2022 Planned Drilling

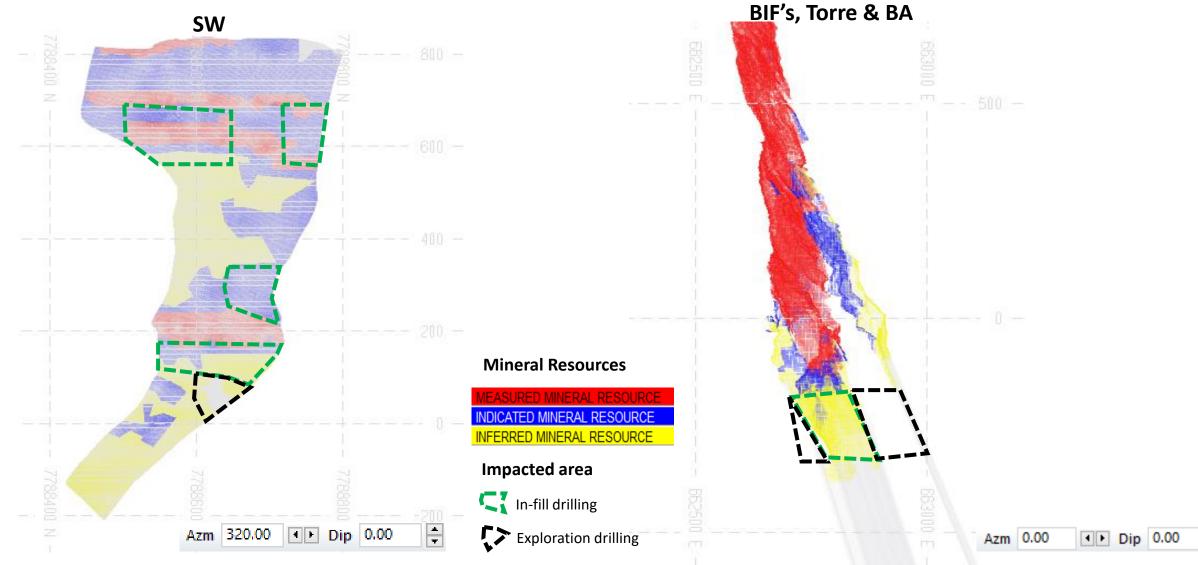




Pilar – 2022 Planned Drilling



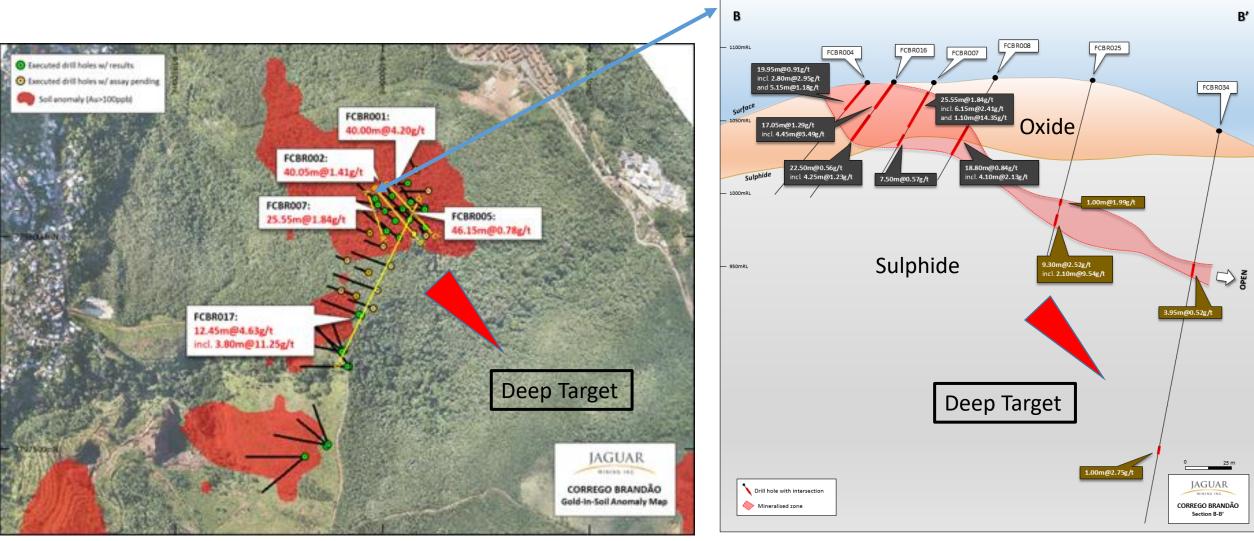
Infill and Exploration Drilling



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Corrego Brandão

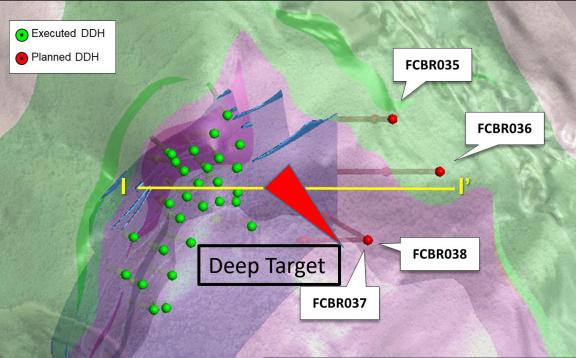
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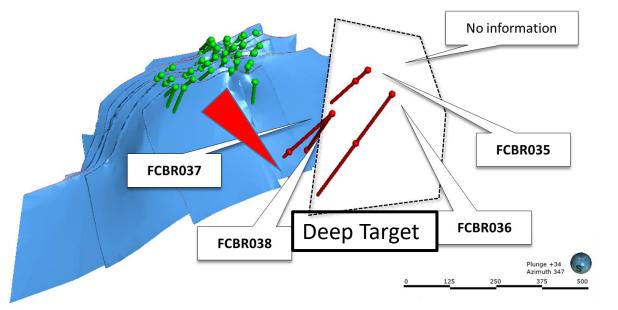


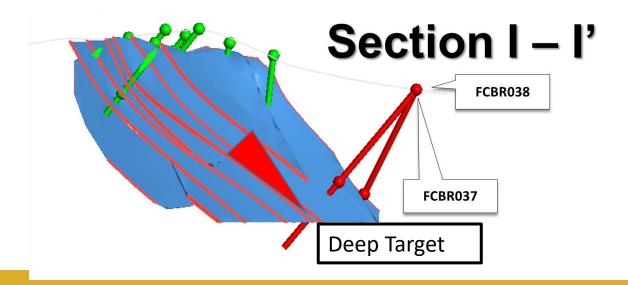
Section

Córrego Brandão – Next steps to evaluate depth potential JAGUAR



	Hole Number	Azimut h	Dip	Depth	Status
19/	FCBR035	270	60	150	Planned
	FCBR036	270	60	390	Planned
	FCBR037	270	60	300	Planned
	FCBR038	300	60	300	Planned
			TOTAL = 1,140m		



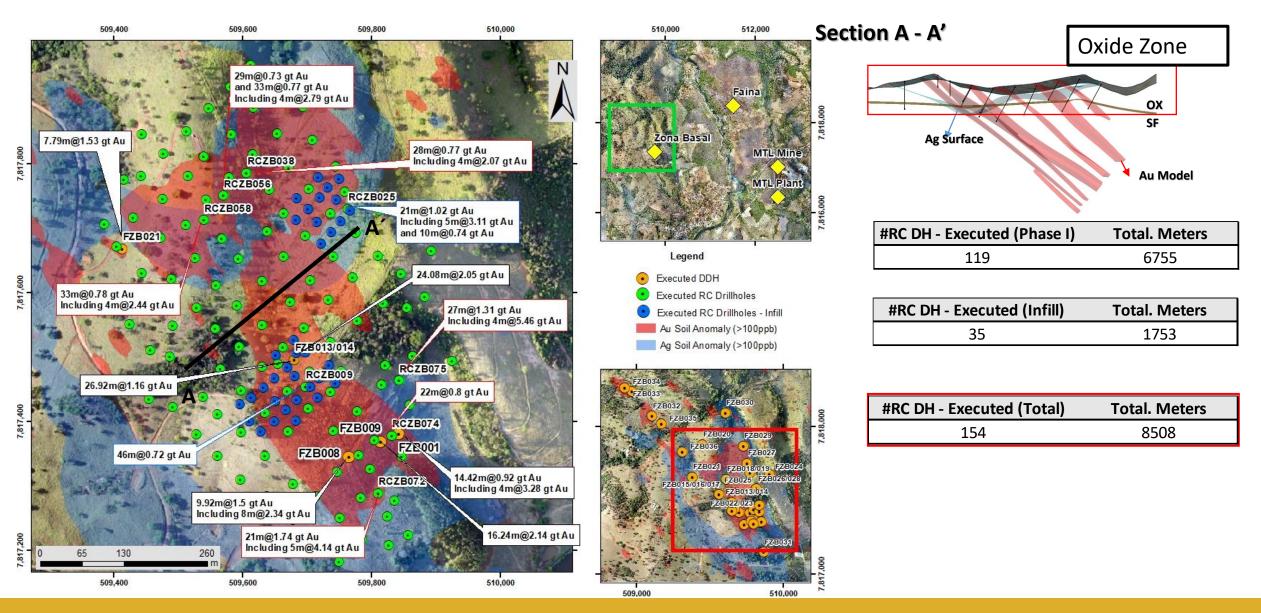


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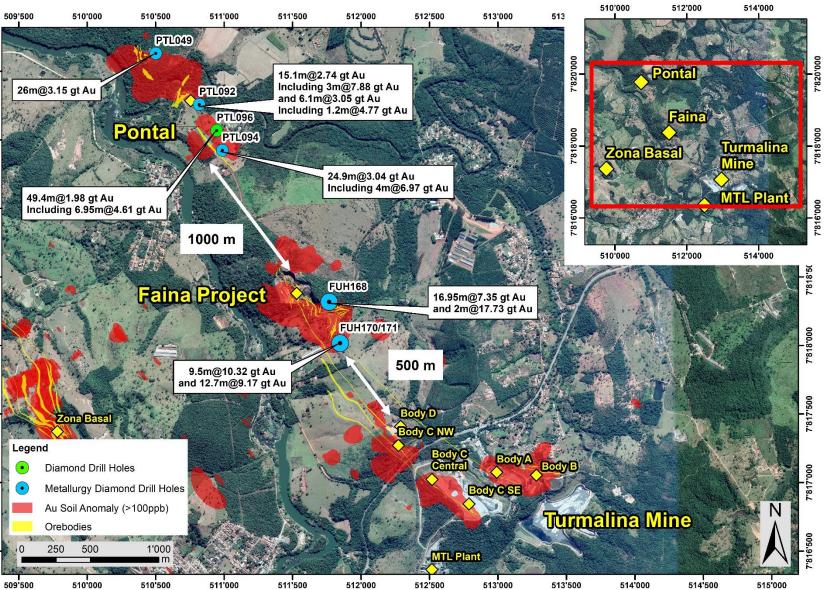
_ 50 m

Zona Basal – RC Drilling





Faina Project



FAINA – Positioning for PFS

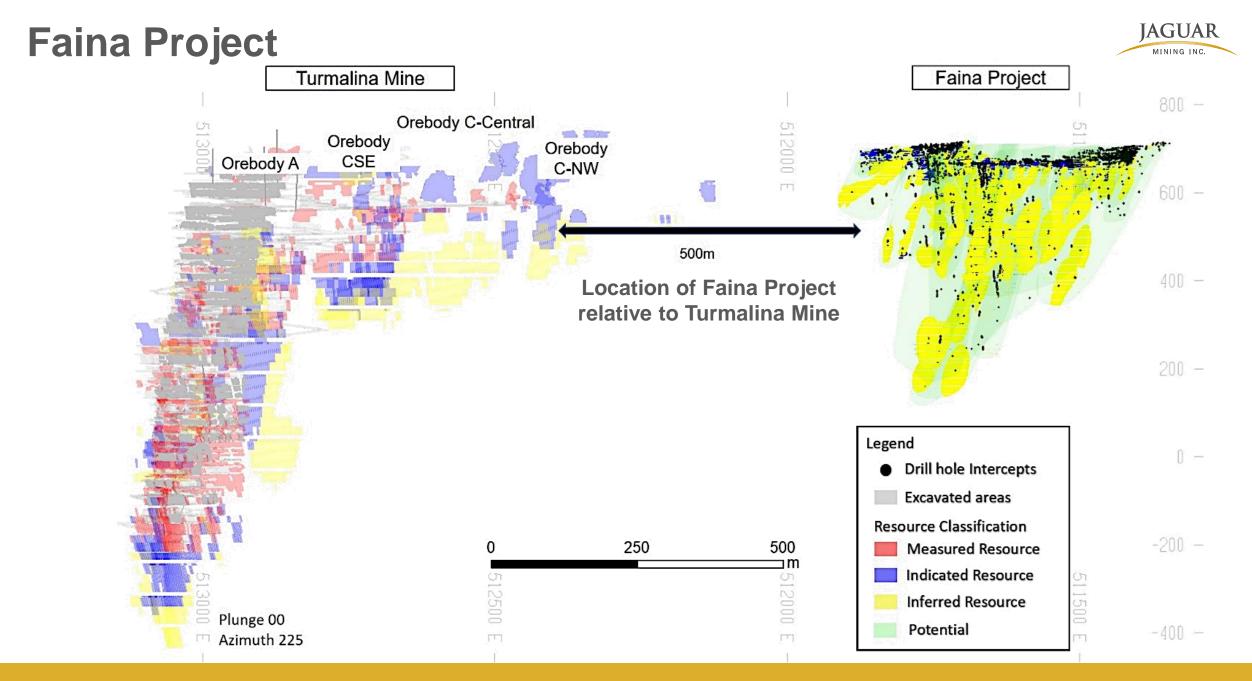
Metallurgical Testwork achieves > 85% gold recovery via combination of gravity concentration followed by flotation of gravity tails.

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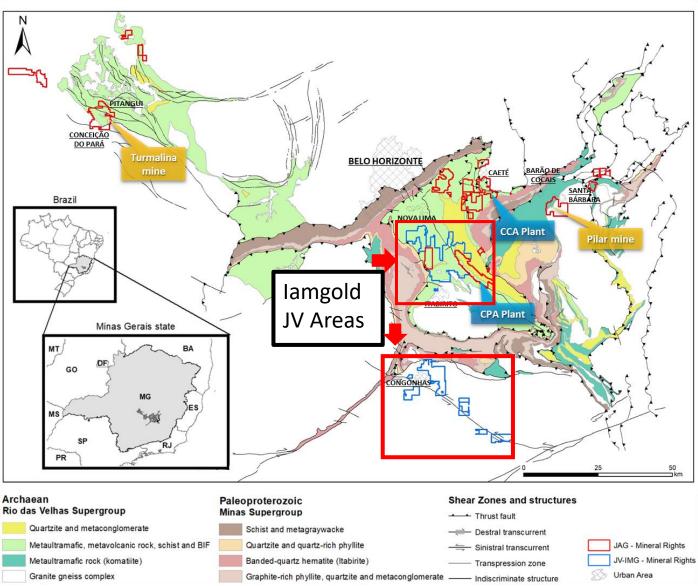
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- Faina M&I Resource 58,000 oz. Au.
- Faina Inferred Resource 360,000 oz. Au.

Location of Faina relative to Turmalina Infrastructure and principal mineralized structures. DD FUH168A and FUH171 were selected for preliminary metallurgical testwork.



IAMGOLD IQ JV Agreement



- Strategic IMG option agreement to explore 32.2k ha in IQ
- JAG project operator; subject to technical committee oversight
- JAG as operator can earn-in 60% by incurring US\$6M for exploration over 4 years
- At 60%, conventional 60:40 JV will be formed
- Both to fund ongoing expenditures or be subject to dilution. Dilution to <10% interest, becomes 1.5% NSR

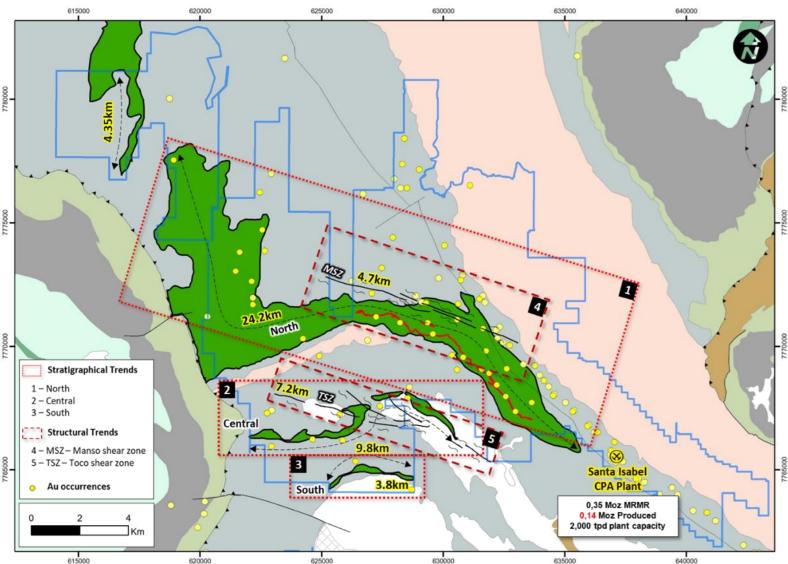


Jaguar´s Tenements – 35,000ha
 IMG´s Tenements – 27,141.75ha

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Significant Greenstone Belt Extension Identified in the IQ



5 new structural trends defined, representing previously underexplored strike length >50km

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- Priority targets identified 4000m drilling program in progress
- Largest ever drone survey undertaken in SA 150² km
- Review of historical data, mapping, soil Geochem, rock-chip sampling
- Identified >30² km previously unmapped extension - highly prospective Ouro Fino Formation of the Rio das Velhas Greenstone Belt

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 IMG´s Tenements – 27,141.75ha

Next Steps

"Our commitment to our stakeholders is to be a sustainable and responsible producer while focusing on our value-added position in the IQ for organic asset expansion."



- Sustainable responsible producer
- Increase cash flow/treasury
- Invest in Exploration while paying dividends
- Brazil focus, leverage IQ position
- Deploy capital to increase LOM & MRMR organically & through new discoveries
 - deliver high-priority exploration targets
- Realize synergistic M&A opportunities in Brazil