SPEED, GRADE AND GROWTH
Developing the High-Grade Ana Paula Gold Deposit

October 12th and 13th Ana Paula Site Visit
CAUTIONARY STATEMENT

This presentation contains certain statements that may be deemed “forward-looking statements”. All statements in this presentation, other than statements of historical fact, that address future operations, resource potential, exploration drilling, exploitation activities and events or developments that the Company expects to occur, are forward looking statements.

Forward looking statements are statements that are not historical facts and are generally, but not always, identified by the words “expects”, “plans” “anticipates”, “believes”, “intends”, “estimates”, “projects”, “potential”, “NPV targets” and similar expressions, or that events or conditions “will”, “would”, “may”, “could” or “should” occur. Information inferred from the interpretation of drilling results and information concerning mineral resource estimates may also be deemed to be forward looking statements, as it constitutes a prediction of what might be found to be present when and if a project is actually developed.

Although the Company believes the expectations expressed in such forward looking statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results may differ materially from those in the forward-looking statements. Factors that could cause the actual results to differ materially from those in forward-looking statements include market prices, exploitation and exploration successes, and continued availability of capital and financing, and general economic, market or business conditions.

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The Company’s disclosure of technical or scientific information in this presentation has been reviewed and approved by Sam Anderson, CPG, Vice President Projects and Stewart Harris, PGeo, Exploration Manager for the Company. Mr. Anderson and Mr. Harris are Qualified Persons as defined under the terms of National Instrument 43-101.
INTRODUCTION

Charles Funk – CEO
PORTFOLIO

THE KEY ASSET

• Heliostar owns the Ana Paula Gold Deposit in Mexico
  • 1.4Moz of gold (M&I) at 2.16 g/t gold
  • PFS completed in 2023 with post tax 30.5% IRR and US$278.6M NPV at US$1,600 per ounce gold price\(^1\)
  • Permitted for an Open Pit Mine
  • Previous operators have spent in excess of $US75M on the project

TIER ONE CALL OPTION

• Heliostar has an option on the San Antonio Gold Deposit in Mexico
  • 1.7Moz of gold (M&I) at 0.83 g/t gold\(^2\)

GROWTH ASSET

• Unga is a high quality growth project in Alaska
  • 0.4Moz of gold (Inferred) at 13.8 g/t gold\(^3\)

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CAPITALIZATION

- **$40M** Market Capitalization
- **167M** Shares Outstanding on Issue
- **$5.0M** Cash Balance

**SHARE STRUCTURE**

- **249 M** Fully diluted shares
  *Raising $27.7M*
- **67.5 M** Warrants
- **14.4 M** Options and RSUs

**SHARE STRUCTURE**

- 50% Institutional
- 45% HNW & Retail
- 5% Board & Management

**TRADING SYMBOLS**

- TSX.V: HSTR
- OTCQX: HSTXF

**ANALYST COVERAGE**

- Mike Niehuser
**LOCATION**

**Location:**
Guerrero State, Mexico
Located 20km NW of Torex Gold’s operating Morelos Complex Mine (440-470koz gold production guidance in 2023)
Located 30km NW of Equinox Gold’s Los Filos Mine (160-180koz gold production guidance in 2023)

**Infrastructure:**
Excellent road access
Power connected to site
115 kV power line for plant located 2.5km from permitted location.
6 km from closest town of Cuetzala del Progreso
215 km to the Port of Acapulco
100% ownership of surface rights for mine
SITE LAYOUT

TOREX GOLD
Morelos Complex

ANA PAULA
Deposit Location

ANA PAULA
Portal Location

ANA PAULA
Core Processing Facility

ANA PAULA
Entrance to Underground Portal (412m Long)
2023 PROGRESS

Heliostar Drills 53.2 m Grading 11.0 g/t gold and 44.5 m Grading 11.0 g/t gold at Ana Paula Project, Mexico

Heliostar Drills 46.0 m Grading 13.4 g/t gold within 129.2 m Grading 6.0 g/t gold at Ana Paula, Mexico

Heliostar Intersects 242 m Grading 9.06 g/t gold - The Longest and Highest-Grade Drill Hole in the History of the Ana Paula project in Mexico

Heliostar Drills 31.8 g/t Gold over 9.5 m within 8.0 g/t gold over 72.0 m in Up-Plunge Target at the Ana Paula Project

Heliostar Drills 33 m Grading 16.4 g/t gold and 9.5 m Grading 25.6 g/t gold, Expands High Grade Panel at Ana Paula

Heliostar Drills 63 m Grading 10.4 g/t Gold and 14.6 m Grading 33.0 g/t Gold at the Ana Paula Project, Mexico

March

Closed C$20.4M Financing and Transaction

April

Announce Re-Scope

May

Upsized C$7M Financing

June

New Growth Targets

July

Met Work Results

August

Sept

Oct

Reserve Update

November

Resource Update
MINING HISTORY IN GUERRERO

Gonzalo Gonzalez Valdovinos – Manager Community Relations
A STRONG MINING HISTORY

• Guerrero has long been a centre of mining in Mexico. Major periods of mining include:
  • Pre-Hispanic (Pre 1521),
  • Spanish Conquest (1521-1821),
  • Independence/British (1821-1875),
  • Post–Revolution (1911-1992) and
  • Modern/Foreign Investment (1992-Today)

• Hernan Cortez was an owner of multiple mines in Taxco district commencing as early as 1522
OPERATING MINES IN GUERERRO

GUERRERO RANKED 3RD FOR NATIONAL GOLD PRODUCTION IN 2022

• Morelos Complex – Torex Gold
  • (440-470koz gold production guidance in 2023)
• Los Filos-El Bermejal – Equinox Gold
  • (160-180koz gold production guidance in 2023)
• Capela – Penoles
  • (23koz gold, 2.6Moz silver, 27 kton zinc, 3.3kton lead and 3.3 kton Copper production in 2022)
• Campo Morado – Luca Mining
  • (24koz gold equivalent guidance in 2024)
• Royal Mines of Zacualpan – Impact Silver
  • (618 koz silver production in 2022)
GUERRERO GOLD BELT HISTORY

A DYNAMIC GAME TO CONTROL A GOLD BELT!

• A high grade mine, Nukay, operated near the present-day Los Filos Mine intermittently from 1938 to 2001
• Between this mine and today’s Ana Paula a large, prospective area was put in a mineral reserve in 1983
• Teck Corporation and Miranda Mining formed a JV that led to the discovery of the Los Filos deposit in 1995
• In 1998 a secret bid process for the mineral reserve was held. Los Filos discoverer, David Jones, claimed that the Teck/Miranda JV only won due to movement in the exchange rate on the day of the bid calculation
• This reserve hosted the Morelos Complex deposits currently mined by Torex Gold
**ANA PAULA HISTORY**

- **2005-2010:** Initial discovery in 2005
- **2015-2016:** Timmins Gold acquires Newstrike Capital for US$112M for the Ana Paula Project.

**Cumulative Expenditure**
- US $75,000,000 of exploration
- 142 km of drilling

**Exploration Expenditures:**
- US$1 M of exploration, 3.6 km of drilling
- US$32 M of exploration, 112 km of drilling
- US$5 M of exploration, 9 km of drilling
- US$37 M of exploration, 18 km of drilling
- 412m of U/G decline
COMMUNITY

Gonzalo Gonzalez Valdovinos – Manager Community Relations
OUR COMMUNITY

OUR FOCUS

• While Heliostar Metals is new in the community, our subsidiary Minera Aurea has operated in the district for 20 years

• Minera Aurea’s local investment plan has three key pillars:

1. Maintain and grow the community’s acceptance of a mine at Ana Paula through the design, construction operation and closure stages of the mine
2. Enhance the local expectation for Minera Aurea to be a socially responsible company that is welcomed in the region
3. Complete a staged social investment plan that relies on the co-participation of local stakeholders and represents an opportunity to share the benefits of a mine at Ana Paula
OUR COMMUNITY

- Population: 49,864 (2020)
- Main localities:
  - Cuetzala del Progreso
  - Tomixtlahuacan
  - Apetlanca
  - Chilacachapa
  - Tianquizolco
  - Tlacaquipa
- Cuetzala is the largest local town where Heliostar maintains an office and accommodations
DELIVERING ON THE RE-SCOPING PLAN

Charles Funk – CEO
TAking ana paula underground

OUR VISION

- Change the Ana Paula mine plan from an open pit to a high grade, underground gold mine
- Deliver re-scoping milestones in 2023 (drilling results, mine sequencing, metallurgy and resource upgrade)
- Targeting a materially improved NPV and IRR
- Targeting a lower construction CAPEX
- Reach construction decision in 18 months and commercial production in 3 years
- Unlock a three-stage growth pipeline
  1. Target expansion of the core High-Grade Panel
  2. Target growth of the overall Ana Paula Deposit
  3. Explore the entire 52,047 Hectare claim package to define full extent of Ana Paula’s potential
2023 RE-SCOPE

Three simple steps targeting increased mine economics

**Reserve Growth**
Drill program to expand and infill the High-Grade Panel
- Drilling commenced in April, 2023
- Results continuing from May through to September
- 3,216 metre program completed to drive resource update
- Targeting growth of the High Grade Panel up and down plunge
- Potential to increase grade within the High Grade Panel

**Bring High-Grade Forward**
Complete an underground mine sequence
- No mining sequence has previously been completed at Ana Paula
- Choosing a selective underground mining technique has the potential to bring high grade ounces forward in the mine plan
- Geotechnical program commenced to define maximum mining stope shapes
- Utilize existing decline at Ana Paula

**Improve Metallurgy**
Optimize met work for a conventional milling circuit
- Open pit PFS focused on low grade material
- Opportunity to improve recoveries within the High Grade Panel
- New metallurgical material being collected in current drilling program
- Optimization focus on gravity recovery and inclusion of a conventional regrind circuit
**ANA PAULA - Reserves and Resources**

**High Grade Panel**
~280m x 100m x 60m

**Expansion Zone**

**LEGEND**
Gold Grades g/t
- >2.5
- >0.3g/t

Resource Model clipped to show only blocks greater than 1g/t gold

**Legend**
- >2.5
- >0.3g/t

**Resource Model** looking North

**Significant drill hits include:**
- 231m @ 7.5g/t gold,
- 120.8m @ 11.0g/t gold

**Table 1-4: Proven and Probable Reserve – Ana Paula**

<table>
<thead>
<tr>
<th>Category</th>
<th>Tonnes (kt)</th>
<th>Gold Grade (g/t)</th>
<th>Gold (ounces)</th>
<th>Silver Grade (g/t)</th>
<th>Silver (ounces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proven</td>
<td>7,126</td>
<td>2.75</td>
<td>630,000</td>
<td>5.77</td>
<td>1,322,000</td>
</tr>
<tr>
<td>Probable</td>
<td>6,996</td>
<td>2.00</td>
<td>451,000</td>
<td>5.45</td>
<td>1,226,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>14,122</strong></td>
<td><strong>2.38</strong></td>
<td><strong>1,081,000</strong></td>
<td><strong>5.61</strong></td>
<td><strong>2,548,000</strong></td>
</tr>
</tbody>
</table>

**Table 1-3: Ana Paula Resource Statement Effective December 30, 2020**

**Area**
- **Measured**
- **Indicated**
- **Measured & Indicated**
- **Inferred**

**Cut-off (Au g/t)**
- 0.6
- 1.65
- GP: 0.6 and UG: 1.65

**Resources amenable to open pit extraction**

<table>
<thead>
<tr>
<th>Resources amenable to open pit extraction</th>
<th>Category</th>
<th>Cut-off (Au g/t)</th>
<th>Tonnes (kt)</th>
<th>Gold Grade (g/t)</th>
<th>Gold (ounces)</th>
<th>Silver Grade (g/t)</th>
<th>Silver (ounces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured</td>
<td></td>
<td>0.6</td>
<td>9,095,000</td>
<td>2.39</td>
<td>698,000</td>
<td>5.6</td>
<td>1,629,000</td>
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<tr>
<td>Indicated</td>
<td></td>
<td>0.6</td>
<td>9,810,000</td>
<td>1.79</td>
<td>563,000</td>
<td>5.3</td>
<td>1,677,000</td>
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<tr>
<td>Measured &amp; Indicated</td>
<td></td>
<td>0.6</td>
<td>18,905,000</td>
<td>2.07</td>
<td>1,261,000</td>
<td>5.4</td>
<td>3,306,000</td>
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<tr>
<td>Inferred*</td>
<td></td>
<td>1.65</td>
<td>63,000</td>
<td>0.86</td>
<td>2,000</td>
<td>10.5</td>
<td>21,000</td>
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</tbody>
</table>

**Resources amenable to underground extraction**

<table>
<thead>
<tr>
<th>Resources amenable to underground extraction</th>
<th>Category</th>
<th>Cut-off (Au g/t)</th>
<th>Tonnes (kt)</th>
<th>Gold Grade (g/t)</th>
<th>Gold (ounces)</th>
<th>Silver Grade (g/t)</th>
<th>Silver (ounces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured*</td>
<td></td>
<td>1.65</td>
<td>85,000</td>
<td>2.15</td>
<td>5,800</td>
<td>2.8</td>
<td>8,000</td>
</tr>
<tr>
<td>Indicated*</td>
<td></td>
<td>1.65</td>
<td>2,212,000</td>
<td>2.84</td>
<td>202,000</td>
<td>4.0</td>
<td>286,000</td>
</tr>
<tr>
<td>Measured &amp; Indicated</td>
<td></td>
<td>1.65</td>
<td>2,297,000</td>
<td>2.81</td>
<td>207,800</td>
<td>4.0</td>
<td>294,000</td>
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<tr>
<td>Inferred*</td>
<td></td>
<td>1.65</td>
<td>322,000</td>
<td>2.09</td>
<td>21,700</td>
<td>4.2</td>
<td>43,000</td>
</tr>
</tbody>
</table>

**Total Resources**

<table>
<thead>
<tr>
<th>Category</th>
<th>Cut-off (Au g/t)</th>
<th>Tonnes (kt)</th>
<th>Gold Grade (g/t)</th>
<th>Gold (ounces)</th>
<th>Silver Grade (g/t)</th>
<th>Silver (ounces)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measured*</td>
<td>GP: 0.6 and UG: 1.65</td>
<td>9,180,000</td>
<td>2.09</td>
<td>703,800</td>
<td>5.5</td>
<td>1,637,000</td>
</tr>
<tr>
<td>Indicated*</td>
<td>GP: 0.6 and UG: 1.65</td>
<td>12,022,000</td>
<td>2.38</td>
<td>765,000</td>
<td>5.1</td>
<td>1,963,000</td>
</tr>
<tr>
<td>Measured &amp; Indicated*</td>
<td>GP: 0.6 and UG: 1.65</td>
<td>21,202,000</td>
<td>2.16</td>
<td>1,468,800</td>
<td>5.3</td>
<td>3,600,000</td>
</tr>
<tr>
<td>Inferred*</td>
<td>GP: 0.6 and UG: 1.65</td>
<td>385,000</td>
<td>1.89</td>
<td>23,700</td>
<td>5.2</td>
<td>64,000</td>
</tr>
</tbody>
</table>

**Table 1-4: Proven and Probable Reserve – Ana Paula**

**M&I resources are inclusive of P&P resources**

1 - Tables from Ana Paula Project NI 43-101 Preliminary Feasibility Study Update for Heliostar Metals. with effective date February 28, 2023

See Appendix for additional details on resource estimation and economic assumptions
HIGH-GRADE PANEL

Improvement Relative to Resource Model at a >5g/t cutoff

- AP-23-291 is a 30% increase
- AP-23-292 is a 2% increase
- AP-23-293 is a 139% increase
- AP-23-297 is a 33% increase
- AP-23-298 is a 38% increase
- AP-23-300 is a 480% increase
- AP-23-301 is a 63% decrease
- AP-23-302 52.0m @ 5.0 g/t where none previously estimated
- AP-23-303 is a 14% increase
- AP-23-304 is a 3% increase
- AP-23-305 is a 307% increase
- AP-23-306 is a 26% increase
- AP-23-307 is a 225% increase
ENGINEERING AND MINE PLANNING

Mine Design Analysis

- Mine design work on existing PFS resource
- The Ana Paula measured and indicated resource contains an average of 5,350 ounces of gold per vertical metre between 725-950 metres of elevation (immediately below surface)
- The deposit’s favourable orientation, width, and shallow depth make the resource amenable to underground mining configurations
- Heliostar is currently reviewing underground mining scenarios at multiple cut-off grades and potential throughput rates
- Potential underground mining scenarios take advantage of the existing 412 metre long, production sized, portal and decline
- Potential improvement from incorporating updated November, 2023 resource estimate
Step change in performance with a conventional approach

- 80.4% average gold recovery from seven composites representative of the High Grade Panel
- Gold recoveries range from 74.6% - 88.1% for these samples
- Gravity testwork suggests greater than 31% of the gold may be gravity recoverable
- Testwork confirms the Company’s interpretation that recoveries from high-grade gold mineralization can utilize simpler, lower cost, conventional milling processes
- Metallurgical process is based on a conventional 75 micron grind size and Carbon-in-Leach (CIL) flowsheet
GEOLOGY, ALTERATION AND MINERALIZATION

Chris Lloyd – Consulting Geologist and
Aaron Huguez – Senior Geologist
GUERRERO GOLD BELT

A VERY PROSPECTIVE TREND

• The Guerrero Gold Belt (GGB) is made up of a series of alkaline intrusions that range in age from 62 to 66 Ma
• The intrusions appear on the surface over a 55 km long corridor
• No trend of coincident magnetic anomalies.
• Gold is produced in porphyry skarn mineralization.
• Systems that range from proximal to distal and can include a strong epithermal overprint.
• Gold deposits are found in groups around these intrusions.
  • Los Filos (Equinox),
  • El Limón, Los Guajes & Media Luna (Torex),
  • Ana Paula (Heliostar)
LOCATION AND ACCESS

DETAILS

• Access to the Ana Paula camp area is by dirt road 6 km from Cuetzala del Progreso towards the south.

• Ana Paula’s High-Grade Panel is located 3 km west by dirt road from the camp area.
GEOLOGY AND MINERALIZATION SETTING

DISTRICT SCALE

• Structurally complex area at or near terrain boundaries with:
  • Volcanic terrain to west, and
  • Sedimentary rocks to east
  • Thrust faulting,
  • Local strong folding, and
  • Intermediate intrusions

• Gold mineralization occurs within a structurally controlled corridor of disseminated mineralization with replacement textures

• Most of the high-grade mineralization at Ana Paula occurs in a Polymictic Breccia domain
HIGH GRADE PANEL

- The High Grade Panel is predominantly hosted within a Polymictic Breccia interpreted to be a diatreme emplaced within an East-West trending fault
- This breccia is interpreted to pre-date gold mineralization
- Mineralization is continuous and grade tends to be highest from the center of the Polymictic Breccia but also extends into sediments, intrusives, and hornfelsed / skarn lithologies
- Outside the alteration-mineralization halo, the mineralization is lower grade and occurs in stockworks, as sulphide clots and disseminations in the hornfels and intrusive units
DEPOSIT ALTERATION – A possible paragenesis

V0 – White Calcite Veinlets
hosted in the deformed limestone-shale (LS-SH) sediments that are 1 to 25mm wide and at variable orientations and are likely the result of the deformation of those sediment during thrust faulting. Some (perhaps most) of this veining maybe a result of deformation from intruding porphyries or the main Polymictic Breccia (BRXXpm).

V1 – Qtz – Py veinlets hosted in the LS-SH sediments. These are typically 1 to 2 mm in width and composed of variable amounts of silica and fine-grained pyrite, but usually more sulphides than visible silica. These show up in the clasts of the BRXXpm, so are mainly from the deeper sediments.

V2 – Sulphide Micro-veinlets
hosted in all rock types, but more abundant outside of the BRXXpm. These are typically only 1 mm in width or less and often appear discontinuous. They typically carry just arsenopyrite (AsPy) and/or a thin black smudge—these barren black micro-fractures should be referred to as V2n.

V2bx – V2 Breccias are the same as V2 but are local zones of wider breccia veinlets and/or complex zones of brecciation. Basically they are small blow-out zones of the V2, and look similar to the matrix of the BRXXpm with usually >50% fine-grained AsPy. The presence of these breccias usually indicates high grade gold.
DEPOSIT ALTERATION – A possible paragenesis

V2d – Mossy Veinlets are the same V2 micro fractures but with a black smudgy flowery or mossy halos around them. The black is just a smudge, not visible sulphides (though may be composed of very fine-grained sulphides). Not very common.

V2s – Sheeted Veins are a similar amorphous black silica / sulphides mix which may or not have visible small crystals of AsPy and occur as sub-parallel sets of veinlets spaced 1 to 5 cm apart and are usually 1 to 4 mm wide but up 5cm. These sheeted veinlets are contemporaneous with the narrow V2 microfractures.

V2h – V2 Halos are a variation of the V2bx but instead of creating fractures and filling them to become breccias here the As-rich fluid just bleeds out from the host micro-fracture and replaces the wallrock creating a variable shaped, AsPy-rich, halo around the fracture. Not common. May be dependent on lithology.

V2w – Wispy V2 microfractures appear to be another variation of the V2 micro-fracture series which are only 1 to 3 cm long and just black smudges. Some have been seen just cutting a single plagioclase phenocryst. It is not clear how these formed, as parts of the same host rock can have the longer throughgoing micro-veinlets.
DEPOSIT ALTERATION – A possible paragenesis

**V3 – Si + Py ± Ankerite + Au**
This event appears to have used the same micro-fractures as V2 to deposit gold and appears to often leave no obvious trace. It is speculated that a phase of this V3 event brings in pyrite along the V2 micro-fractures and may be responsible for the visible gold seen in hole AP-11-68.

**V3m – Si + Py + Au**
This event appears to be similar in timing as the V3 veinlets and those may be feeders to these patches of medium-grained pyrite that can overprint any of the lithologies or the Polymictic Breccia.

**V4 – White Qtz + MS (usually Py)**
(usually Py) usually occurs as 1 to 3 mm wide white massive quartz veinlets with sections of massive sulphides, which is almost always massive pyrite. Fills the width of the veinlet for a certain distance, before continuing as just silica. Occasionally they present as white quartz bordered by fine-grained pyrite.

**V5 – Grey quartz veinlets**
that are usually 1 to 10 mm in width that may or not have fine-grained pyrite or more rarely arsenopyrite. The sulphides often occur as borders to the veinlet or as discontinuous lines of sulphide down the center or some part of the veinlet. Overall not very common.
DEPOSIT ALTERATION – A possible paragenesis

V6 – Epithermal Quartz Veins
which may be silica, silica + adularia, silica + carbonates or just calcite (often with calcite crystals growing into open space). These veinlets are often banded and may or not have bands of fine-grained pyrite. Widths are variable between 1 mm and 10 cm and clearly cross-cut all other veinlets.

Summary: Image showing the cross cutting relationships of four of the vein sets. Note that the V2 and V3 cut each other so overlap in time, with V2 having As + Au, and V3 just Au
GOLD MINERALIZATION

**INTERPRETED CONTROLS**

- The mineralization at Ana Paula is principally structurally controlled. The highest grade mineralization is mainly hosted in a polymictic diatreme breccia which was emplaced along an east – west fault and which has been drilled down to over 1100m depth.

- The mineralization here is mainly as sulphides (arsenopyrite >> pyrite > pyrrhotite) filling the porous matrix, but is also over-printed by later micro-veinlets (1-2mm) of arsenopyrite (± pyrite).

- The gold mineralization is not interpreted to have come up the breccia pipe, but has intersected the pipe at various levels, travelling along the contacts between the intrusive feldspar porphyry and host sediment contacts.

- These contact pathways also allowed the same mineralizing fluids to create local exoskarn replacement mineralization where the sedimentary bedding planes are first replaced by fine-grained pyrite and then overprinted by medium-grained pyrite, skarn-style mineralization, and often further overprinted by the micro arsenopyrite veinlets.
RESOURCES MODEL AND METALLURGY

Sam Anderson – VP Projects
RESOURCES MODEL TIMELINE

**Work Flow**
- Density Sample Campaign
- Geology EDA and Modeling
- Resource Modeling
- Adjust Resource Model
- Final Updated Resource Model

**July**
- Complete Drill Program
- Initial Model Meetings
- DB Finalized and Locked
- Resource/Engineering - Mine Plan Deliverables

**August**
- DB Processing, QC and Cleanup
- Modeling Specs Defined
- Final Assays Received
- Finalize Geologic Model

**September**
- Geology EDA and Modeling
- Resource Modeling
- Review/Validate Resource Model
- Final Validation of Model

**October**
- Resource/Engineering - Mine Plan Deliverables
- Model Hand-off

**November**
- Adjust Resource Model
- Final Updated Resource Model
GEOLOGIC MODEL UPDATE - Lithology

Observations:
- Simple and robust geological model
- Contacts are regular and predictable
- Modeled units are clear and simple to conceptualize in raw drill hole logging
- Drill density is adequate for detailed interpretation

Lithologic Units:
- Polymictic Breccia
- Monomictic Breccia
- Sediments
- Skarn/Hornfels
- Intrusive (Granodiorite)
GEOLOGY – Lithology Longitudinal Section

**Observations:**
- Simple and robust geological model
- Contacts are regular and predictable
- Modeled units are clear and simple to conceptualize in raw drill hole logging
- Drill density is adequate for detailed interpretation

**Lithologic Units:**
- Polymictic Breccia
- Monomictic Breccia
- Sediments
- Skarn/Hornfels
- Intrusive (Granodiorite)
DENSITY MODEL

Potential upside:
- May increase tonnes in ore zone by improving density modeling
- Increased gold grade and increased density are spatially correspondent
- Average rock SG is 2.6-2.7
- Arsenopyrite SG is 6.1
- SG in ore zone ranges from 3-3.2
- Historic drilling being resampled

Historically:
- Density sample spacing and information least represented within the High Grade Panel
- Uneven model support for accurate estimation of the High Grade Panel
RESOURCE MODEL UPDATE - Overview

Results:

- Every hole but one (16/17 holes) hit significant mineralization
- The majority of those holes should have a positive impact on the size and grade of the resource
- Most of the expected growth will be through increased grade

Geology:

The geological concepts driving the 2023 drill program have been demonstrated to be correct:

- West Plunging Orientation of the High Grade Panel
- E-W structural control
- Internal continuity of grade

1: Image generated from resource model supporting the Ana Paula Project NI 43-101 Preliminary Feasibility Study Update for Heliostar Metals, with effective date February 28, 2023. See Appendix for additional details on resource estimation and economic assumptions.
**RESOURCE MODEL UPDATE - Model Specifications and Changes**

Key Changes from Previous Model:

- Agreed to with JDS Engineering:
  - Re-sized Blocks (5x5x5m)
  - Sub-blocked model (to 1m)

Estimation Parameters:

- High Grade expected to be constrained by gold shell
- Variograms to be updated
- Estimation techniques to be evaluated
Metallurgical Program

- 8 composite samples from drill holes completed in the 2023 to Blue Coast Research Ltd.

- Composites range from 25.2 to 62.0 metres in length and represent continuous intervals of similar grade and lithology that are spatially distributed across the mineralized zone.

- Six samples represent the Polymictic Breccia, while two other samples represent Sediments/Hornfels and Granodiorite/Intrusive.

- Head grades of the eight composites range from 2.48 to 18.25 g/t gold and average 11.13 g/t gold.

- Two workflows:
  - Tested gold recoveries at various grind sizes using kinetic and carbon in leach (CIL) bottle roll testing.
  - Tested the potential for gold recovery using gravity techniques.
Metallurgical Program

- 80.4% average gold recovery from seven composites representative of the High Grade Panel
- Gold recoveries range from 74.6 - 88.1% for these samples
- Gravity testwork suggests greater than 31% of the gold may be gravity recoverable
- Confirms interpretation that recoveries from high-grade gold mineralization can utilize simpler, lower cost, conventional milling processes
- Metallurgical process is based on a conventional 75 micron grind size and Carbon-in-Leach (CIL) flowsheet

<table>
<thead>
<tr>
<th>Composite</th>
<th>CIL Bottle Roll (75µm)</th>
<th>Gravity Recovery</th>
<th>Comment</th>
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<tr>
<td></td>
<td>Au Recovery (%)</td>
<td>Calculated Head Gold (g/t)</td>
<td>Direct Head Gold (g/t)</td>
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<tr>
<td>AuBOT23-01</td>
<td>79.4</td>
<td>8.19</td>
<td>6.51</td>
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<td>AuBOT23-02</td>
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<td>AuBOT23-04</td>
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<td>AuBOT23-05</td>
<td>88.1</td>
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<td>AuBOT23-08</td>
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</table>
GROWTH TARGETS

Charles Funk – CEO
NEW GROWTH TARGETS

PARALLEL PANEL
Drill results identify a Parallel Panel target located ~50 metres north of the High Grade Panel with multiple high grade intercepts:

- 38.0m grading 6.95 g/t gold including 6.0m grading 23.3 g/t gold
- 4.0m grading 10.7 g/t gold
- 2.0m grading 13.6 g/t gold

EXPANSION ZONE
Deep Expansion Zone beneath the High Grade Panel with open intercepts:

- 13.5m grading 29.1 g/t gold
- 40.0m grading 6.30 g/t gold

SAN LUIS
San Luis Target, a large jasperoid/vein zone with open gold drill intercepts and untested high gold grades (3.0 m grading 11.35 g/t gold) on surface

WEST PRECIOUS
New West Breccia target with gold mineralization and a pathfinder element signature as strong as the High Grade Panel

ANA PAULA TARGET PLAN MAP

The map shows the location of the Parallel Panel, Expansion Zone, West Breccia, and San Luis targets with respective grades and intercepts.
Drill results identify a Parallel Panel target located ~50 metres north of the High Grade Panel.

Five Heliostar holes have probed the footwall of the High Grade Panel.

Completion of these drill hole on a more effective drill orientation began to define a new Parallel Panel to the north of the existing High Grade Panel.

The Parallel Panel target currently has dimensions of 200 metres long by 150 metres wide and remains open in all directions.

The width appears to vary from 2 to over 15 metres wide.
The Ana Paula resource is open at depth.

The Expansion Zone sits beneath the High Grade Panel.

The previous owner recognized the potential of this zone and commenced a decline to better access the zone for drilling.

Drill results include:
- AP-11-70: 13.5m grading 29.1 g/t gold
- AP-13-215: 40.0m grading 6.3 g/t gold
- AP-12-86: 20.5m grading 6.0 g/t gold
- AP-12-90: 11.0m grading 4.0 g/t gold

Access to the Expansion Zone is best from underground or utilizing directional drilling.
The gold mineralization in the High Grade Panel at the core of Ana Paula has distinctive pathfinder elements associated with it, including bismuth.

At the West Breccia target two deep drill holes, 300 metres west of the High Grade Panel, intersected pathfinder anomalies as strong as those within the High Grade Panel.

These holes also have narrow gold intercepts. However, there has not been any follow-up drilling to chase potential gold mineralization.
SAN LUIS AND REY DAVID TARGETS

- San Luis is a hybrid epithermal vein/skarn gold target with high gold grades sampled across a large area of alteration.
- The target is located 5.5 kilometres east of Ana Paula. It begins at the property boundary with Torex Gold and extends for over 2.5 kilometres of strike on the Company’s lands.
- The target is a zone of intense silicification with gold and pathfinder elements that have epithermal quartz veins in the silicified structures. Surface samples include:
  - 3.0 m grading 11.35 g/t gold (Undrilled)
  - 1.15 m grading 8.83 g/t gold (Undrilled)
  - 0.5 m grading 16.7 g/t gold (Undrilled)
- Two phases of drilling were completed historically with best results of 3.05 metres at 3.32 g/t gold and 15.3 metres grading 1.18 g/t gold.
- These holes tested potential skarn contacts between the limestone unit and the granodiorite intrusions. The silicified structures, which Heliostar geologists believe have the highest potential, remain almost entirely untested.
- San Luis is one of several regional targets that will be the focus of a new drill permit. Heliostar will target them in 2024 once the permit has been received.
APPENDIX

THE BUSINESS OF EXPLORATION

TSX.V: HSTR / OTCQX: HSTXF / FRA: RGG1

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ANA PAULA DISTRICT – A district of large deposits

Over 30 Moz discovered to date in six deposits:

- Ana Paula,
- Los Filos-Bermejal-Nukay,
- Media Luna-El Limón-Guajes,

- Underexplored district
- Northwest (Heliostar’s Ana Paula claims) is less eroded with greater potential to preserve gold deposits

Graphic from Torex Gold’s site visit presentation in May 2023; https://torexgold.com/site/assets/files/9721/site_visit_presentation__may_16-17_2023__website.pdf
GREATER ANA PAULA RESOURCE – Why go deeper at Ana Paula

Schematic section from Ana Paula to Los Filos
- Ana Paula is interpreted to be shallower in lithologic sequence
- Ana Paula is one of the main magnetic anomalies (intrusions) in the belt
GREATER ANA PAULA RESOURCE – Why go deeper at Ana Paula

David Jones discovery model for the Guerrero Gold Belt

- David Jones led the Los Filos discovery in the 1990's
- Two models for deposit formation
- **Simple Contact:** skarn formation into limestone at intrusion contact. Gold in small volume skarn. High grade in prograde/retrograde overlap
- **Complex Contact:** dykes or sills of intrusions into the contact between siliciclastics and limestones. Gold in larger volume skarn
- Both models apply to the expansion zone at Ana Paula
- Additional porosity from phreatomagmatic breccia pipes provide gold mineralization pathway at Ana Paula

![Diagram of deposit formation models](https://example.com/diagram.png)

1. Image modified from David Jones 2017 Discoveries conference presentation ‘Learning Moments and Discovery Tales from the Sierra Madre del Sur of Mexico’: Stories of the discoveries of Los Filos, Morelos and Biricu in the Guerrero Gold Belt as well as El Aguila, Oaxaca and the new Switchback discovery.
Torex Exploration Model – Key role of Breccia Pipes

SCHEMATIC AND CONCEPTUAL MODEL

The new geology of the mine and projects confirm two critical geological factors to reset the exploration concepts for Morelos district:

- Phreatomagmatic activity
- Structural architecture

Graphic from Torex Gold’s site visit presentation in May 2023; https://torexgold.com/site/assets/files/9721/site_visit_presentation_-_may_16-17_2023_-_website.pdf
ANA PAULA DEAL TERMS

Heliostar has acquired a 100% interest in Ana Paula project for a total consideration of $30,000,000 dollars (all dollars are United States Dollars) on the following terms:

• $10,000,000 cash at closing - PAID

• Issue $5,000,000 of Heliostar shares on the earlier receipt of an extension to the current open-pit permit or granting of an underground mining permit

• Pay $2,000,000 cash on the earlier of completion of a Feasibility Study on Ana Paula (or January 1st, 2025)

• Pay $3,000,000 cash and $2,000,000 in cash or shares on a construction decision to build a mine at Ana Paula. (If Heliostar has not reached a construction decision prior to July 1st, 2025, it will pay an annual cash payment to Argonaut of $250,000 per annum from July, 1st, 2025 onwards)

• Pay $5,000,000 cash and $3,000,000 in cash or shares upon declaring commercial production on Ana Paula

• Argonaut has the right, but not the obligation, to one board seat of Heliostar as a condition of the transaction closing
Economic Assumptions

One metal price scenario was utilized to prepare the economic analysis. However a sensitivity analysis on the metal prices was completed and outlined in Section 22.8.

All costs, metal prices and economic results are reported in US dollars unless stated otherwise. LOM plan tonnage and grade estimates are demonstrated in Table 22-1. Mexican Peso exposure is estimated at 15%, the MXN:USD rate used is 18.62 : 1.

Economic factors include the following:

• Discount rate of five percent (sensitivities using other discount rates have been calculated for each scenario).
• Reclamation & Closure cost of $10.0 million was considered.
• Nominal 2023 US dollars.
• Revenues, costs, taxes are calculated for each period in which they occur rather than actual outgoing/incoming payment.
• Results are presented on 100 percent ownership.
• No management fees or financing costs (equity fund-raising was assumed).
• Exclusion of all pre-development and sunk costs up to the start of detailed engineering (i.e. exploration and resource definition costs, engineering fieldwork and studies costs, environmental baseline studies costs, etc.).

Table 22-2 outlines the metal price assumptions used in economic analysis. This pricing used in the parameters established for mine planning were $1,600/oz gold and $20.00/oz silver.

The reader is cautioned that the gold prices used in this study are only estimates based on recent historical performance and there is absolutely no guarantee that they will be realized if the project is taken into production. The metal prices are based on many complex factors and there are no reliable long-term predictive tools.