# Patagonia Gold Plc 2011

Cap Oeste May 2011

Updated May 2011

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# PATAGONIA GOLD PLC

#### **COMPANY OVERVIEW**

A precious metals exploration and production company operating in the southern Patagonian provinces of Argentina

To March 2011, delineated 1,143,759 oz of gold equivalent NI 43-101 compliant resource 76 % in the Measured and Indicated category

Deposit	INDICATED (76.7%)		INFERRED (24.3%)		TOTAL
	Gold (oz)	Silver(oz)	Gold(oz)	Silver(oz)	Au Eq (oz)
Cap-Oeste	362,040	14,503,120	46,090	1,604,030	655,930
COSE	39,847	1,283,412	26,565	855,050	106,393
La Manchuria	40,317	1,848,211	72,335	2,335,236	146,366
Lomada	161,346	0	73,725	0	235,070
TOTAL	603,550	17,634,743	218,715	4,794,316	1,143,759

### PATAGONIA GOLD PLC

### **RECENT ACHIEVEMENTS**

•Cap Oeste resource and exploration drill meters has been increased significantly. Resource update Q4

•Monte Leon: a new discovery additional and extensive exploration potential.

•La Manchuria: maiden resource and significant resource upside potential

•Regional success – Sarita, drill targets defined

•Lomada de Leiva development: transition to gold producer

•COSE resource and permit for decline development

# **AREA OF OPERATION**

Patagonia Gold through its 100% subsidiary Patagonia Gold S.A. (PGSA) operates in four of the Argentine Provinces in Patagonia

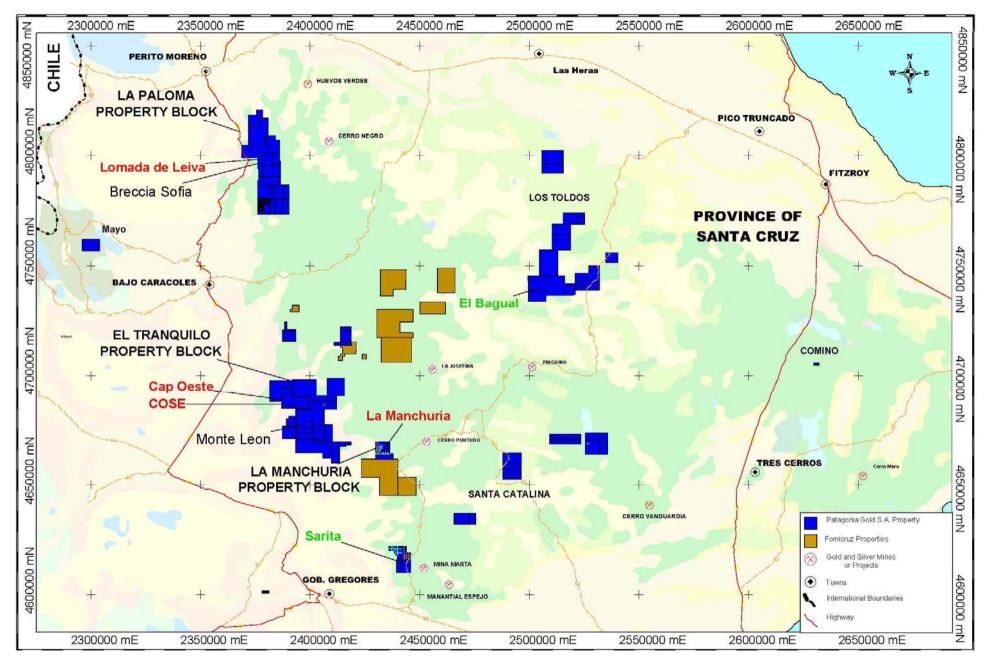
Total area held under license7,264 km²\*Number of properties~200

In 2009 PGSA formed a strategic partnership with Fomicruz SE, 90% PGSA 10% Fomicruz, into which PGSA contributed 100,000 ha of its most advanced properties and Fomicruz contributed 100,000 ha of exploration properties.

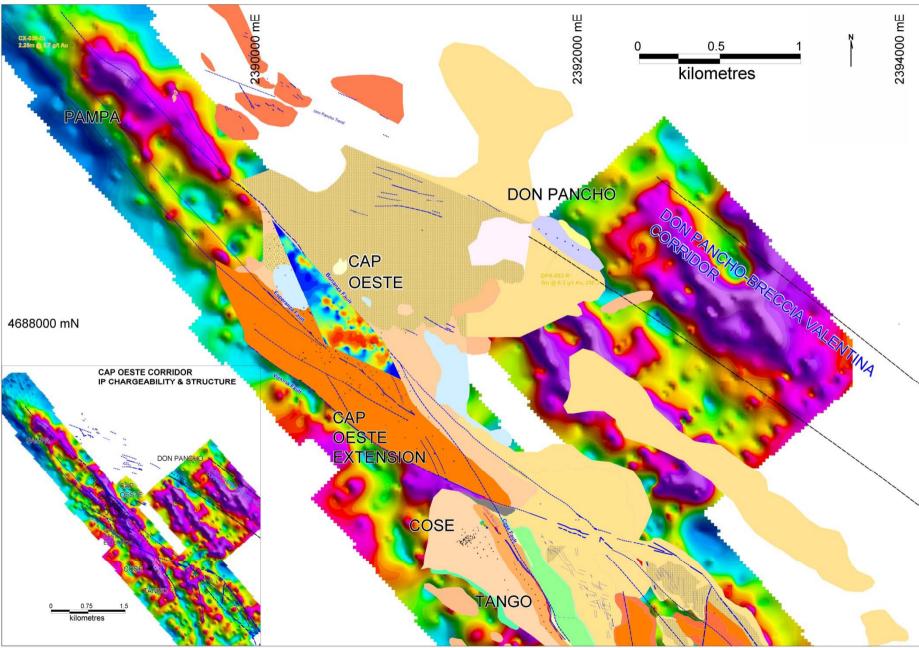
\*As at 31st May 2011. Note: The numbers and areas of properties shown above may vary from time to time as a result of acquisition, relinquishing and or conversion from exploration claims to mining claims

Mendoza Buenos Aires La Pampa REP. CHILE Neuquen Rio Negro PATAGONIC REGION ACIFIC OCEAN ATLANTIC OCEAN Chubut Santa Cruz del Fueg

# **PGSA EXPLORATION in SANTA CRUZ**



### Patagonia Gold's Flagship Project, targeted production 2014



### COMPLETED

#### • NI 43-101 Resource estimate Oct 2009

at 0.30 grams per tonne of gold cut off

Indicated362,040 oz goldInferred46,090 oz goldTotal gold equivalent (AuEq)

Assumptions: Gold price US\$800/oz rec Silver price US12.50/oz rec

recovery 90% recovery 60% 14,503,120 oz silver 1,604,030 oz silver **655,930 oz AuEq** 

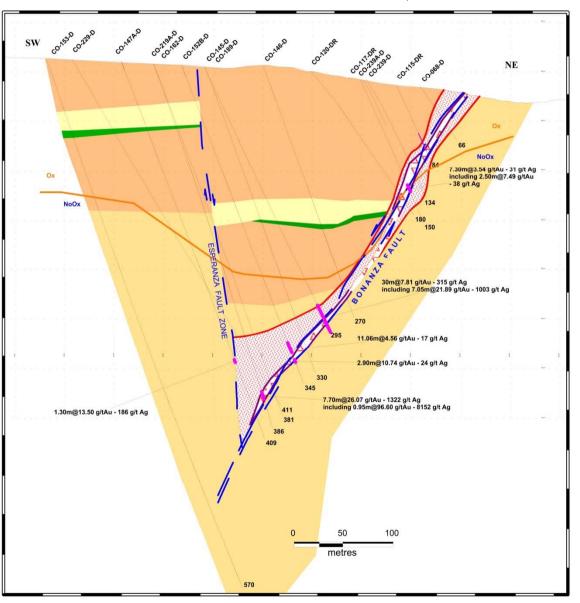
#### •Expansion and Infill drilling

19,000 metres along ~600m of strike to increase the resource

#### **Significant results**

Hole No.	From	Interval	Grade	Grade
	metres	metres	Au g/t	Ag g/t
CO-119-D	258.00	13.20	14.54	186
CO-123-D	257.90	16.10	5.86	260
CO-139-D	244.70	11.80	15.21	203
CO-144-D	316.00	33.00	5.77	182
CO-145-D	271.00	29.90	7.81	280
CO-162-D	353.30	7.70	26.07	1,322
CO-168-D	401.00	14.50	10.13	143
CO-170-D	261.40	5.87	12.72	265
CO-181-D	137.89	6.73	35.53	53
including	139.34	1.12	116.15	186
CO-213-D	190.00	13.30	8.58	508
including	200.70	2.60	53.74	700
CO-222-D	352.00	31.00	5.29	178
including	360.00	11.00	9.40	381

#### Drill hole section 10,125N



### **IN PROGRESS**

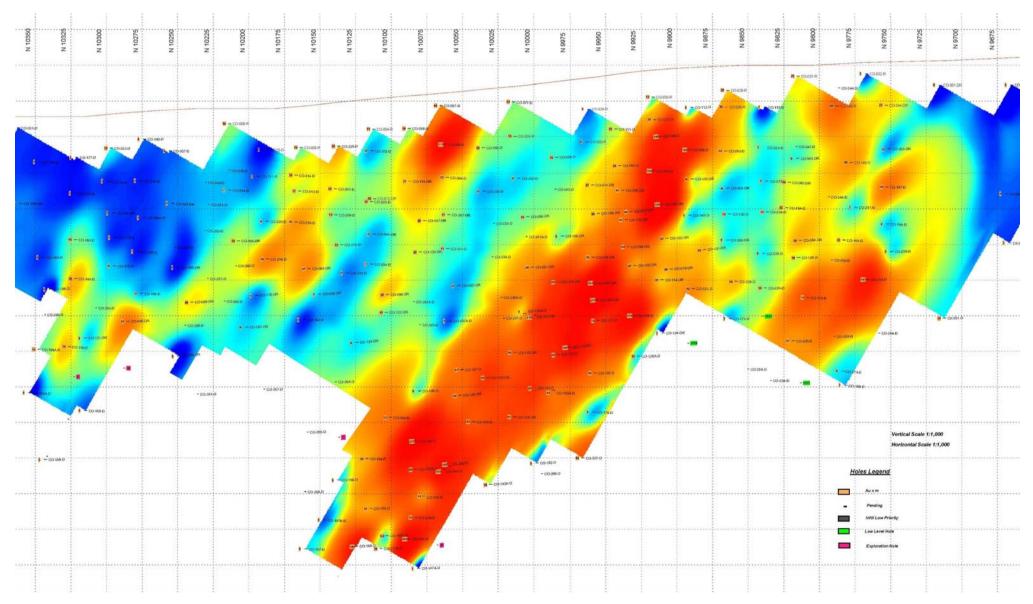
•Resource exploration and deeper Infill drilling The deposit remains open along strike and down plunge

•Exploration drilling along Bonanza structure – Pampa to Tango 6km

•Metallurgical Study for completion in Q4 2011. To investigate various processing methods.

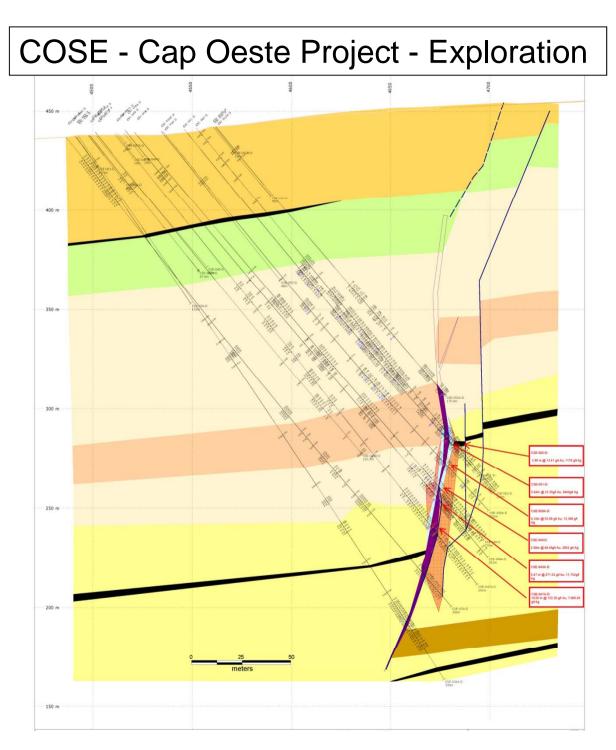
### PLANNED

- •2011/12 Pre feasibility study
- •2012/13 Full feasibility study
- •2012/14 Permitting, construction and production







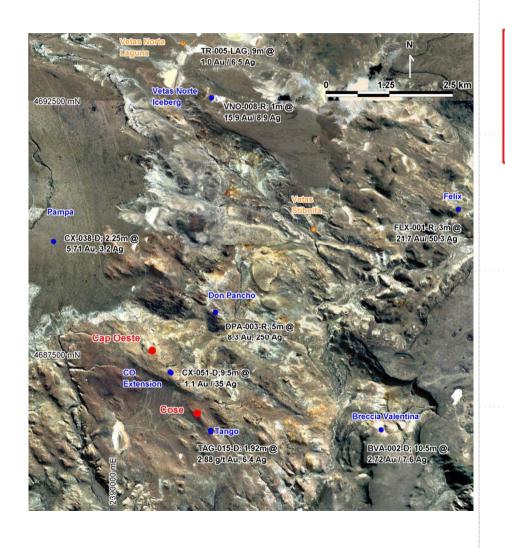


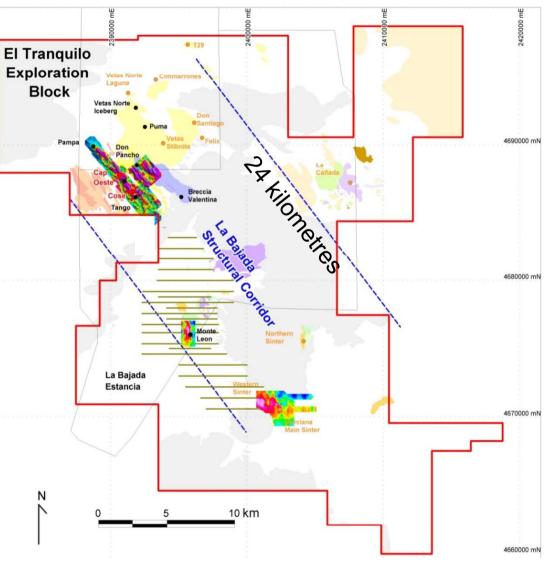
### EL TRANQUILO PROPERTY EXPLORATION



# EL TRANQUILO PROPERTY

#### **EL Bajada Corridor Exploration**





### **MONTE LEON PROSPECT**



# **MONTE LEON PROSPECT**

#### COMPLETED

- •Reconnaissance exploration and mapping.
- •Geophysical dipole gradient array resistivity and IP survey for 18Kms.
- •Trenching for 4,007 m on 16 trenches.
- •3,953 metres of HQ drilling in 15 holes

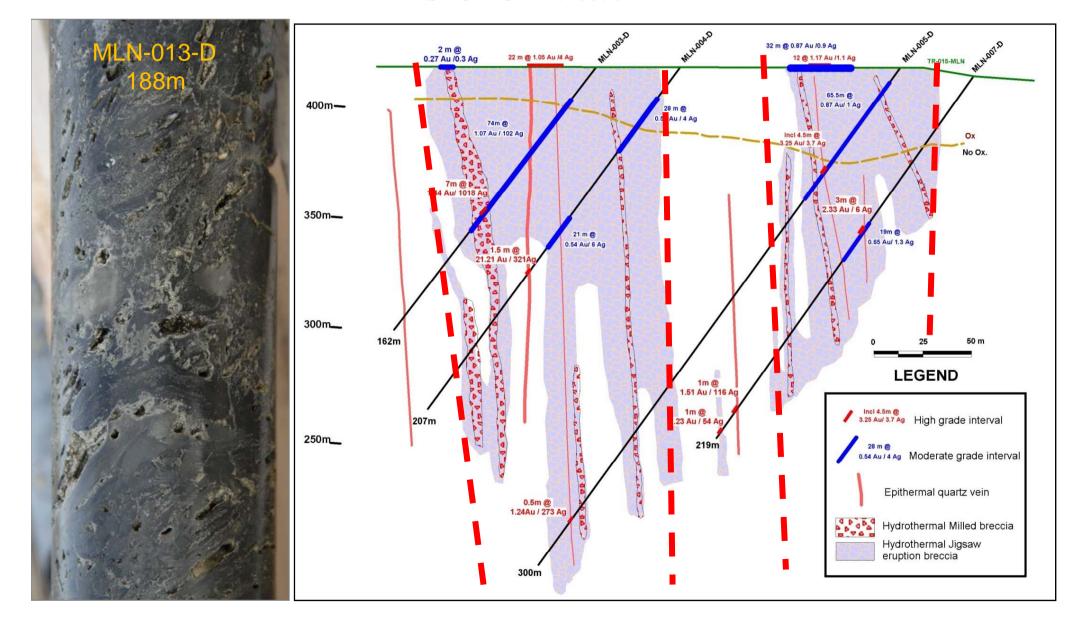
Trench No.	From	Interval	Grade	Grade
	metres	metres	Au g/t	Ag g/t
TR-016-MLN	34.00	5.00	1.80	3
and	98.50	48.00	1.01	2
TR-015-MLN	46.00	32.00	0.87	1
and	200.00	22.00	1.05	4
TR-013-MLN	320.00	9.50	0.74	1

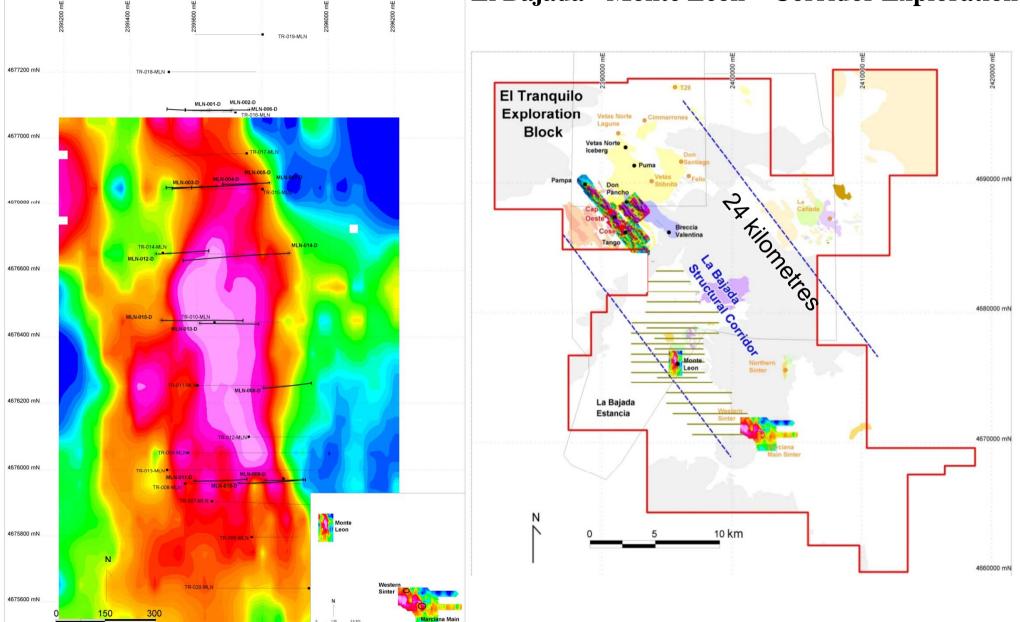
Hole No.	From	Interval	Grade	Grade
	metres	metres	Au g/t	Ag g/t
MLN-002-D	3.00	7.50	2.58	1.44
MLN-006-D	26.00	34.00	0.81	4.45
and	74.00	43.00	1.04	8.74
MLN-003-D	22.00	74.00	1.07	102
MLN-004-D	18.00	28.00	0.54	3.89
and	88.00	21.00	0.54	5.83
MLN-005-D	13.00	65.50	0.87	1.11
including	59.00	4.50	3.25	3.65
MLN-008-D	122.00	36.00	0.76	pending
including	124.70	6.30	1.16	pending
MLN-009-D	7.60	29.40	1.39	0.99
including	18.00	12.00	2.13	0.12

#### **IN PROGRESS**

- •A 95km IP survey from Marciana in the south to the Cap Oeste structure in the north
- •Detailed interpretation of drill hole geology for follow drill programme planning

#### MONTE LEON PROSPECT SECTION N76850





metres

#### **El Bajada - Monte Leon – Corridor Exploration**

# LA MANCHURIA

A gold and silver deposit 50 kilometres SE of and within carting distance of the Cap Oeste Deposit



# LA MANCHURIA

#### COMPLETED

#### • NI 43-101 Resource estimate Sept 2010 at 0.75g/t gold equivalent (AuEQ) cut off

1,848,211oz silver

2,335,236oz silver

Indicated40,317oz goldInferred72,335oz goldTotal gold equivalent

146,366 oz AuEQ

Assumptions: Gold price US\$925/oz recovery 95% Silver price US14.50/oz recovery 60%

•Uncapped Resource at 0.75g/t AuEQ

239,609 oz AuEQ

#### PLANNED

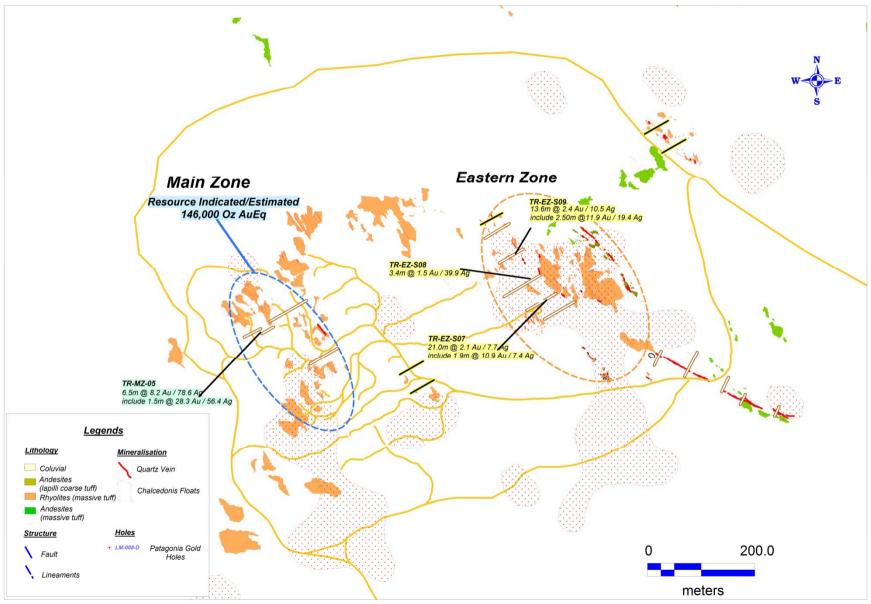
•2012-Infill drilling 6,000 metre program to upgrade inferred and uncapped resource

•2012-Extension drilling to enlarge resource (remains open along strike and down dip)

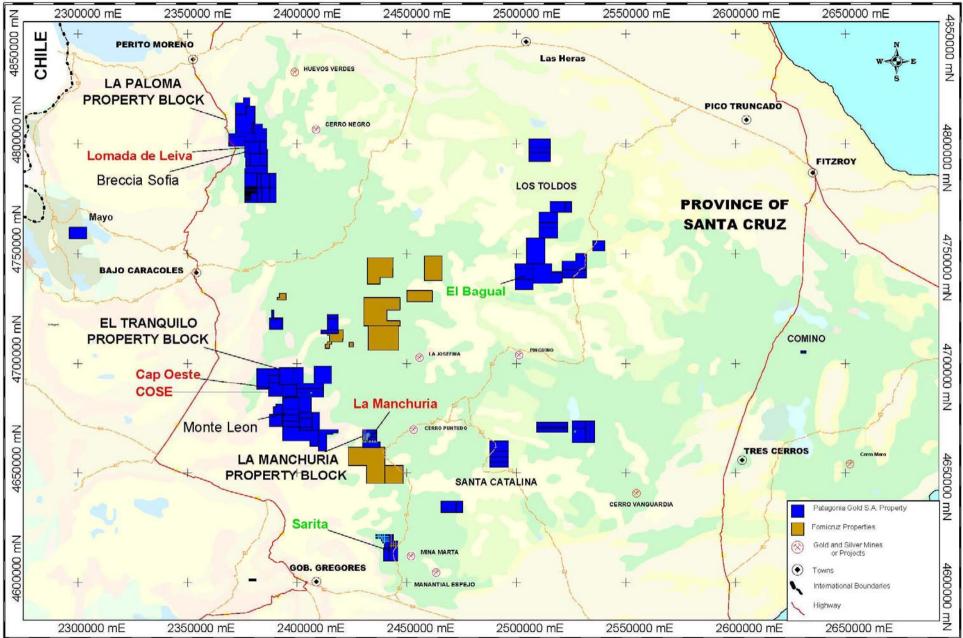
•2012/13-Scoping Study to investigate combined open pit and underground mining together with various processing methods

### LA MANCHURIA

**EXPLORATION POTENTIAL - Soil survey map-gold** 



# **PGSA EXPLORATION in SANTA CRUZ**



# **DEVELOPMENT PROJECTS**



# LOMADA de LEIVA PROJECT

### **Current Project Status**

- •40 Days of full Irrigation completed on ROM ore, 50 days remaining until completion of trial and reconciliation
- •Au now being recovered to Carbon with Plant now fully commissioned
- Expansion of trial heap to 200Kt approved and extension of Pad completed, September commence loading of additional 110Kt, Q4 commence irrigation
- Update Scoping Study and Complete Pre-Feasibility, Including assessment of all potential Process options
- Selection of final Processing Route, commence scheduling and Engineering Design
- Submit full EIA Study and Application for full scale Project, Q4 2011

### LOMADA de LEIVA PROJECT TRIAL HEAP LEACH OPERATION



Leach Pad Irrigation system

Expansion Area 200Kt

#### **Construction of Plant Facility**



#### **Construction of Plant Facility**



# LOMADA de LEIVA PROJECT

### **Targeted Development 2012**

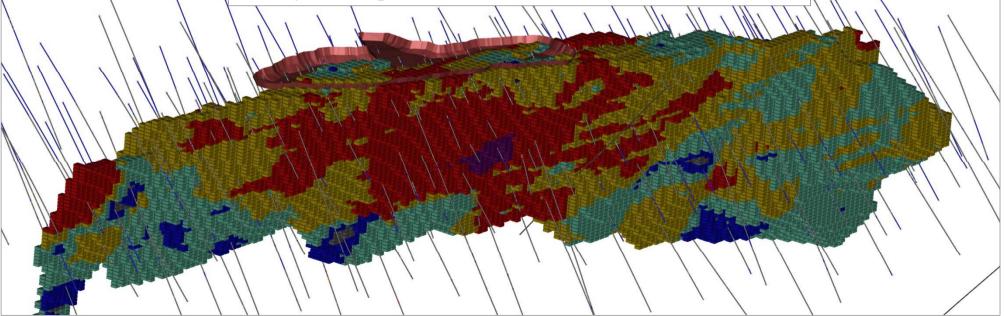
- •EIA approval Q1
- •Construction and commencement of Production at full scale, Q3
- •Construction of Gold Room facility for production of doré commissioning Q1
- •Continue to drill existing targets peripheral to main Lomada Orebody

# LOMADA de LEIVA PROJECT

Mining of Trial Pit in Progress



Survey Pick Up of Trial Pit with Resource Block Model



### **COSE UNDERGROUND PROJECT**



# **COSE Project**

# • Resource estimate and Preliminary Economic Assessment Study completed

Total INDICATED Resources Undiluted COSE Project							
	Grade			Ounces Contained Metal			
Tonnes	Au (g/t)	Ag (g/t)	AuEq (g/t)	Au Metal (oz)	Ag Metal (oz)	AuEq Metal (oz)	
20,637	60.06	1,933.07	96.21	39,847	1,283,412	63,836	

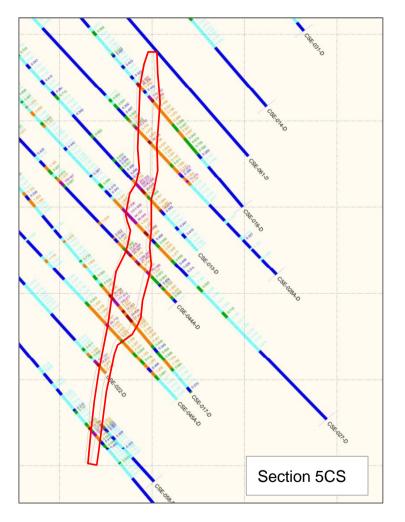
Total INFERRED Resources Undiluted COSE Project							
	Grade			Ounces Contained Metal			
Tonnes	Au (g/t)	Ag (g/t)	AuEq (g/t)	Au Metal (oz)	Ag Metal (oz)	AuEq Metal (oz)	
13,758	60.06	1,933.07	96.21	26,565	855,050	42,557	

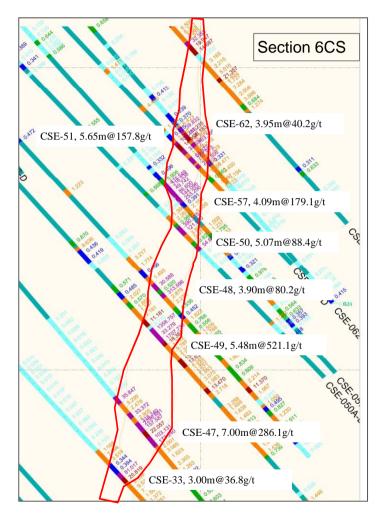
•Total Resource IND+INF is 34,394t@60.6Au and 1933 Ag for 106koz eqv #(Non-43-101 Compliant)

•Robust economics, NPV of 93.8m \$US @ \$1,418 Au and \$35 Ag

- •Total CAPEX and OPEX costs estimated at 33m \$US for LOM
- Very fast Development and Capital Payback rate, 9 months to first Ore, 23 months for completion entire Project

# **COSE Project** Grade Continuity





<sup>#</sup> All assays shown as AuEqv @ Au-Ag 42:1

- Grade modelled COSE Fault breccia = Geological control
- Grade only extrapolated 5m past last Drillhole
- •Infill Pattern extremely dense 10m X 10m Spacing

# **COSE Project**

#### Potential Treatment Routes for COSE HG Ore

# DIRECT SHIPPING

- Direct Ship crushed Ore to smelter
  Recoveries for Au and Ag are 93% and 90% respectively
- Requires very low Capital
- High Recoveries
- No Permitting, No Chemical usage

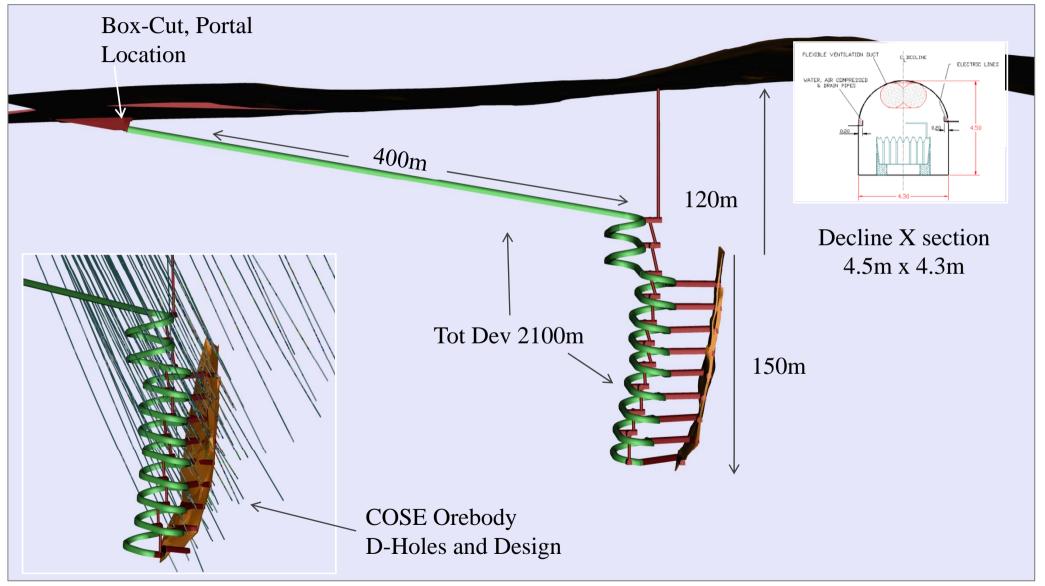




# NaCN

- Construction of Stand Alone Merryl Crowe circuit on site
- Production of Dore'
- Higher Capital than Direct Shipping
- More permitting and longer lead time
  Recovery testwork to date >85% Au and >60% Ag, ongoing High NaCN

### **COSE Project** Proposed Decline Design and Orebody



### **COSE Project** Proposed Infrastructure

