





Advanced Projects Update 26 January 2012





Ignacio Bustamante, CEO



# Agenda

- 1 Overview
- 2 Inmaculada
- Feasibility Study Summary
- Geological Upside

3 Crespo

- Feasibility Study Summary
- Geological Upside
- 4 Azuca Project Update
- **5** Closing Remarks



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# Hochschild's advantageous positioning

- A leading precious metals producer in the Americas
  - 3 of the 14 largest primary silver mines in the world
  - Operations in Peru, Argentina and Mexico
  - Long term current operations production 20-23m oz Ag Eq
  - 2011 production: 22.6m Ag. Eq oz, in line with guidance
- FTSE 250 with market cap of US\$2.6bn
  - Ticker: HOC
- Focus on growth through exploration
  - US\$90 million exploration budget in 2012
  - 10 potential "Company Makers"
  - 13 "Medium Scale" projects
- Strong financial position:
  - Cash balance of approximately US\$627m
  - Minority investments of over US\$400m

11 Jan 2012 Two Feasibility Studies to deliver 50% growth



4 +40 years production experience in high margin, precious metal assets

# Good progress on strategic delivery





# Continued operational delivery...

#### **CORE ASSETS**

- 2011 production of 22.6m oz Ag eq. (attrib) in line with guidance
- 2012 target of 20m oz Ag eq. (attrib)
- Strong core asset brownfield potential
- \_>

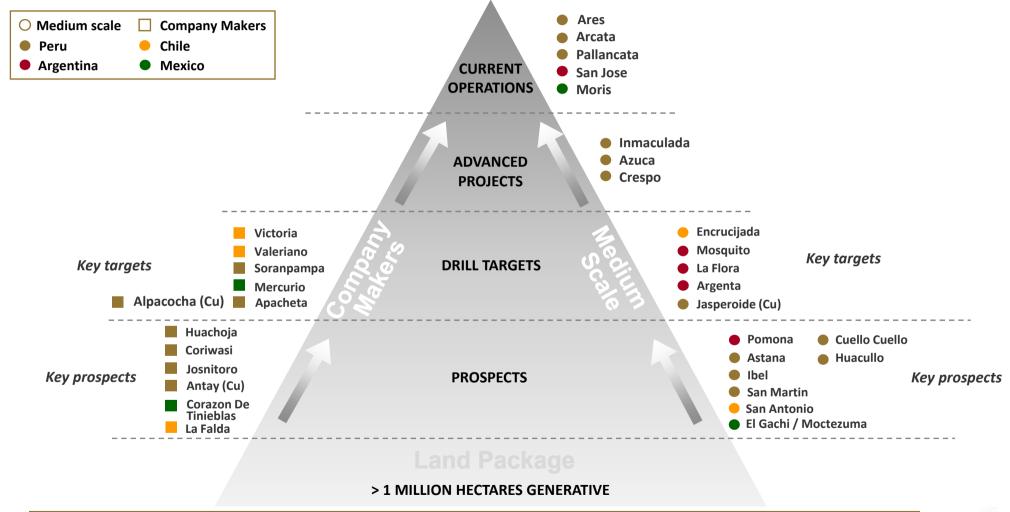
LOM increased by 50% in 2yrs

#### **ADVANCED PROJECTS**

- Feasibility studies delivered on Inmaculada and Crespo:
- Inmaculada & Crespo to start production by Q4 2013
  - Set to deliver combined 10m attrib. Ag eq oz per annum
- Ongoing resource increases at all 3 advanced projects



# High quality project pipeline

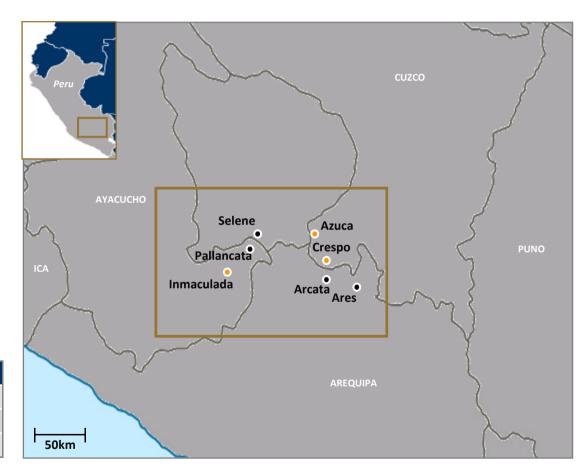




# Competitive advantage: Southern Peru cluster

- Strong presence in Southern Peru
- Competitive advantage:
  - -40+ years experience
  - -Unrivalled operating/political knowledge
  - -Extensive land package in key districts
  - -Experienced geological team
  - -Excellent regional reputation
  - -Solid infrastructure network in place
  - -Good relationships with local suppliers
  - -Strong community relations programme

Distance (km)	Pallancata	Arcata	Selene
Inmaculada	60	214	89
Azuca	136	85	114
Crespo	157	34	134





Inmaculada Project Ignacio Bustamante, CEO



# Inmaculada: Summary

### Positive Feasibility Study delivered under stress conditions:

- -Profitable under conservative gold/silver price assumptions
- -Assuming fraction of the known resources
- -Contingency: 9% of total initial capex
- -Completed by independent third party, Ausenco

### • Key operational factors:

- ✓ Single, wide vein allows for low mining cost
- ✓ Known metallurgical process very high gold/silver recoveries
- ✓ Proximity to existing operations reduces execution risk
- x Higher than anticipated dilution & support capex due to poor rock quality

### • Strong future potential:

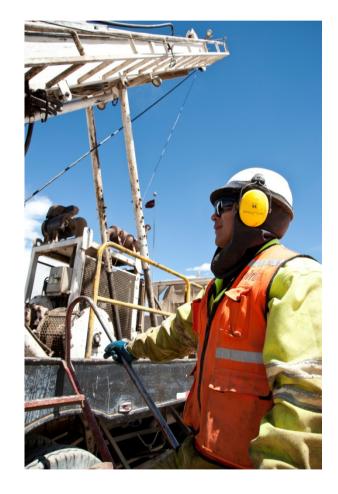
- -Already identified inferred resources within main Angela vein almost doubles LOM
- -Significant geological potential, presence of several veins already identified
- -Potential to increase plant capacity

### Project ownership: Hochschild 60%; International Minerals 40%

- -HOC commitment to fund first \$100m of capex and Feasibility Study costs
- -Collection of management fee: 7% of production cost p.a. plus depreciation/royalties

### Key project challenges:

- -Environmental permits
- -Social license
- -Power line construction







### Inmaculada: Location and Access

#### Location

- General location: Ayacucho, Peru
  - -210km SW of Cuzco
  - -530km SE of Lima
  - -60km from Pallancata
- Geographic Coordinates: 14° 57′34′′ S; 73°14′ 53′′W
- Altitude: 4,200 4,700 MASL

### **Access from ports**

- Two main routes:
  - -Lima-Inmaculada route: 930km 750km paved
  - Arequipa-Inmaculada route: 530km route 250km paved





### Inmaculada: Resources

Resources estimate category (as at 30/06/2011)	Tonnes (million)	Gold grade (g/t)	Silver grade (g/t)	Contained ounces			
				Au (k oz)	Ag (m oz)	Ag Equiv (m oz)	
Measured	3.28	4.10	128	430	13.5	39.4	
Indicated	3.78	4.05	159	490	19.3	48.8	
Measured & Indicated	7.07	4.07	144	930	32.8	88.3	
Inferred	4.94	3.91	152	620	24.2	61.3	

Cut off grade: 1.5 gr/t gold equivalent

## Inmaculada: Feasibility Study Operating Summary

- Prices used to calculate reserves: \$1,100/oz and \$18/oz
- Feasibility Study completed by Ausenco
- Inclusion of inferred resources:
  - -LOM would increase to 11.3yrs
  - -LOM production would increase by 76%
- Inclusion of further 50% additional potential resources
  - -LOM would increase to 17.0yrs
  - -LOM production would increased by 164%

Feasibility Study	Total	Attributable
Base Case Gold Price	\$1,100/oz	\$1,100/oz
Base Case Silver Price	\$ 18/oz	\$ 18/oz
Initial Life of Mine	6.3 years	6.3 years
Daily plant capacity (353 days)	3,500 tpd	3,500 tpd
Average treatment grade Au	3.4 g/t	3.4 g/t
Average treatment grade Ag	120 g/t	120 g/t
Metallurgical Recovery Au	95.6%	95.6%
Metallurgical Recovery Ag	90.6%	90.6%
Average Annual Gold Production	124.0 k oz	74.4 k oz
Average Annual Silver Production	4.2 m oz	2.5 m oz
Average Annual Gold Equivalent Production	193.9 k oz	115.4 k oz
Average Annual Silver Equivalent Production	11.6 m oz	7.0 m oz
Life-of-Mine Gold Produced	783.1 k oz	469.9 k oz
Life-of-Mine Silver Produced	26.5 m oz	15.9 m oz



# Inmaculada: Project layout

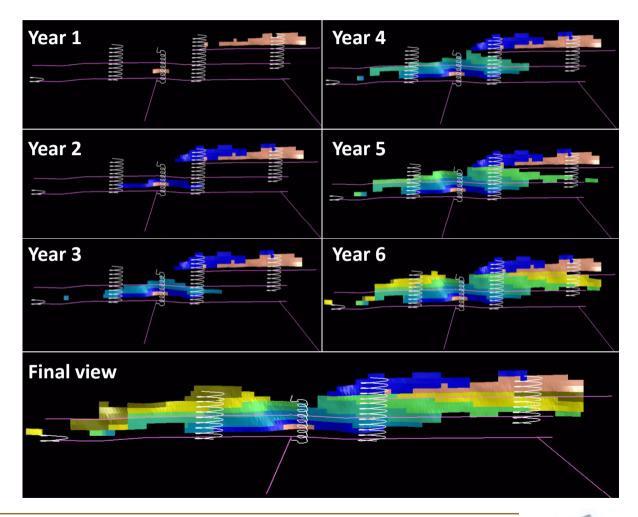




## Inmaculada: Mine development plan

### Mining method

- Sub-level stoping (long hole drilling and paste backfill) on c.45% of ore reserves
- Breasting cut-and-fill (horizontal drilling) on c.55%
- Average daily production of 3,500t



## Inmaculada: Metallurgy

### Metallurgy:

-Crushing: Primary crushing

-Grinding: SAG mill/Secondary ball mill

**-Lixiviation**: 7 leach tanks & 4 CCD tanks

-Recovery: Merrill Crowe and smelting

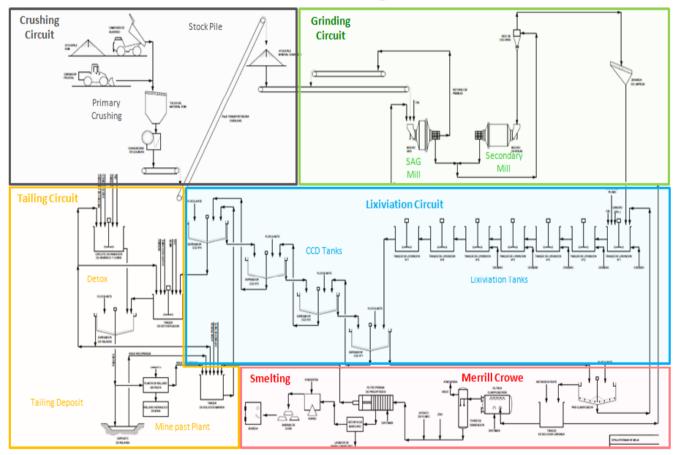
-Tailings: INCO detox system

Expected recoveries:

95.6% Au & 90.6% Ag

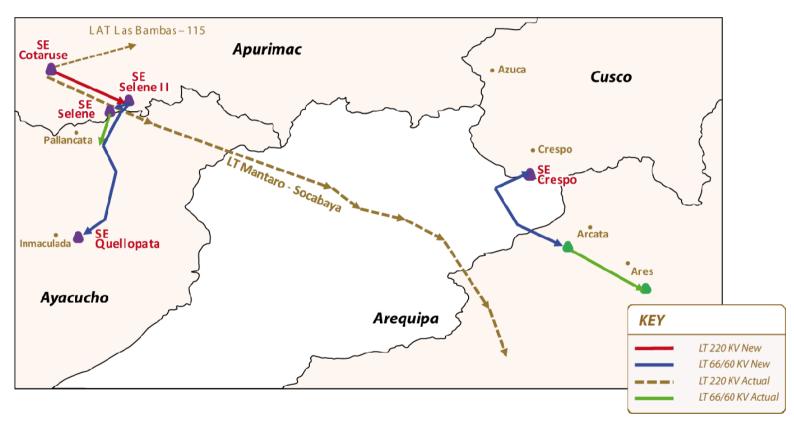
Final product: Doré

### **Plant flow diagram**





### Inmaculada: Energy and transmission line



- Power: 62 km high tension transmission line
- 38km 220 kV line from national grid to Selene + 24km 60kV line from Selene to Inmaculada



## Inmaculada: Permits status and expectations

### **Key permits: Environmental Impact Study (EIS)**

- EIS requires community consultation (social licence)
- Subject to Government technical review
- Current Status:
  - -EIS submitted to Peruvian Mining Ministry in Sept 2011
  - -Public Hearing to review EIS conditions was held in Dec 2011 with positive results
  - -Estimated time for final approval: 31st July 2012









### Inmaculada: Community relations

### **Evolving strategy**

#### **Cover immediate needs:**

- -Cover basic needs
- -Promote human development
- -Identify local resources
- -Promote basic infrastructure

### Long term sustainability

- -Improve health services
- -Increase education opportunities
- -Create/strengthen local markets
- -Promote infrastructure development

### **Actions in place**

#### **Health and Nutrition**

- -20,000 medical consultations per year
- Mobile medical units covering remote locations
- Health support though specialised programmes: Healthy meals, care for elderly and emergency support

#### **Education**

- "Maestro Líder": 308 teachers trained (benefit 4,265 students already)
- -Internships and scholarships for professional and technical careers

#### Sustainable development

- Development of economic clusters:
  - -3 cities already selected
  - -Internet coverage
  - Boarding schools
  - -Supporting competitive advantages of local communities: Alpacas, trout farming, farming and textiles



# Inmaculada: Community relations











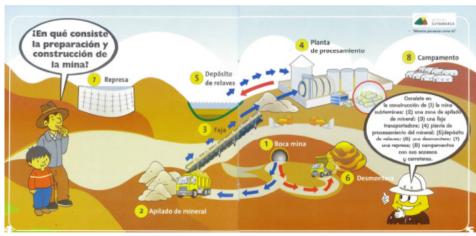
# Inmaculada: Community Relations (communication)





- Community Information meetings, brochures, flyers and media informational progress
- Communication strategy focused on communicating benefits of the development programmes







### Inmaculada: Land situation

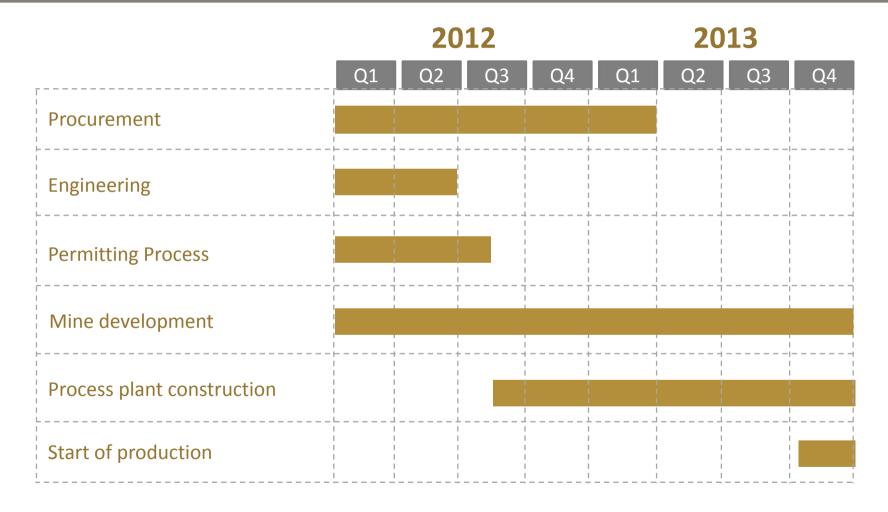
- Huallhua Community: 870 Ha purchased
- Annex Huancute: 1,500 Ha in process of being purchased







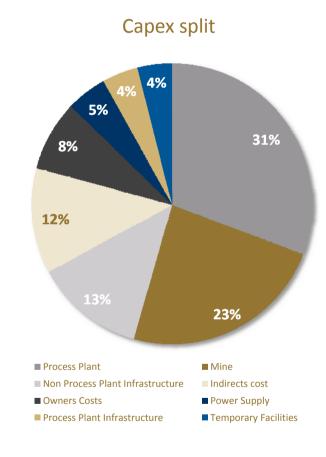
### Inmaculada: Construction schedule





# Inmaculada: Capex detail

Description	Total (US\$m)	Comments
Process Plant	89	Primary Crushing, SAG and Secondary Mill, Leaching, Merril- Crowe, Gold Room and Detox & Tailings
Process Plant Infrastructure	12	Main Site Administration Building, Main Site Storage, Process Plant Site Lunch Rooms and Ablutions, Process Plant Site Offices, Laboratory, Back-up Power Station
Power Supply	14	Transmission line
Mine	68	Underground Development, Paste Plant, Truck Shop
Non Process Plant Infrastructure	37	Tailings Storage Facility, Water Reservoir / Dam, Main Access Road, Permanent Accommodation Camp
Temporary Facilities	12	Construction Camp, Temporary Construction Equipment
Indirect costs	35	EPCM, Spares parts
Owners Costs	24	Project Management, Environment, Community Relations, Human resources
Sub-Total	289	
Contingency	25	9% of contingency
Total	315	





## Inmaculada: Capex detail (cont.)

- Scoping Study (IMZ) pre-production capex: US\$168m
- Feasibility Study pre-production capex: US\$315m
- Key drivers of capex differences:

Description	Scoping Study	Feasibility Study
Plant Capacity	3,000 tpd	3,500 tpd
Final product	Concentrate (Flotation)	Doré (Lixiviation or Leaching)
Rock quality condition	Good to Regular	Regular to Poor
Back fill	Conventional	Cemented



Strong industry capital cost inflation since Scoping Study completion (estimated at 15% in Peru)

# Inmaculada: Capex detail (cont.)

### **Capital costs comparison with other recent feasibility studies**

Project	Company	Date	Country	Mining method	Plant Capacity (tpd)	Initial Capital Cost (US\$m)
Escobal	Tahoe Resources	Nov 2010	Guatemala	Underground	3,500	327
Angostura	Greystar Resources	Apr 2011	Colombia	Underground	3,300	302
Cerro Negro	Goldcorp	Apr 2011	Argentina	Underground	4,000	750
Jeronimo	Yamana Gold	Feb 2011	Chile	Underground	4,200	310
La Preciosa	Pan American Silver	Aug 2011	Mexico	Underground /open pit	5,000	270
Cerro Morro	Extorre	Aug 2011	Argentina	Underground /open pit	1,000	183
Inmaculada	Hochschild	Jan 2012	Peru	Underground	3,500	315

Source: Intierra



# Inmaculada: Opex detail

Comparative analysis	Inmaculada Feasibility	Arcata H1 2011	Pallancata H1 2011	
Annual tonnage	1,277,500	687,966	1,070,466	
Cost per tonne w/o royalties	74.4*	70.8	52.5	
Cash Cost**				
Co-product Au	US\$527/oz	US\$506/oz	US\$406/oz	
Co-product Ag	US\$8.4/oz	US\$12.1/oz	US\$10.1/oz	
Silver equivalent	US\$8.6/oz	US\$11.6/oz	US\$9.5/oz	

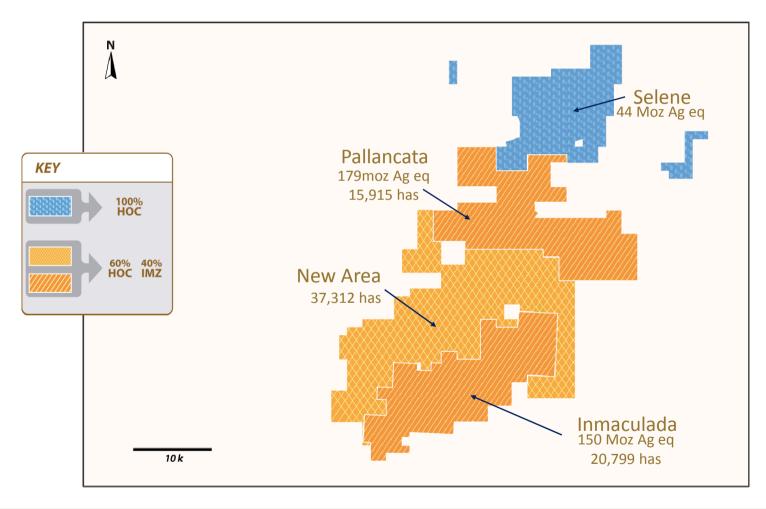
<sup>\*</sup>Include additional Dore process (Approximately US\$ 15/t) not included in Arcata and Pallancta costs

<sup>\*\*</sup>Cash costs include direct production cost plus royalties, workers' profit sharing, commercial treatment charges, and selling expenses

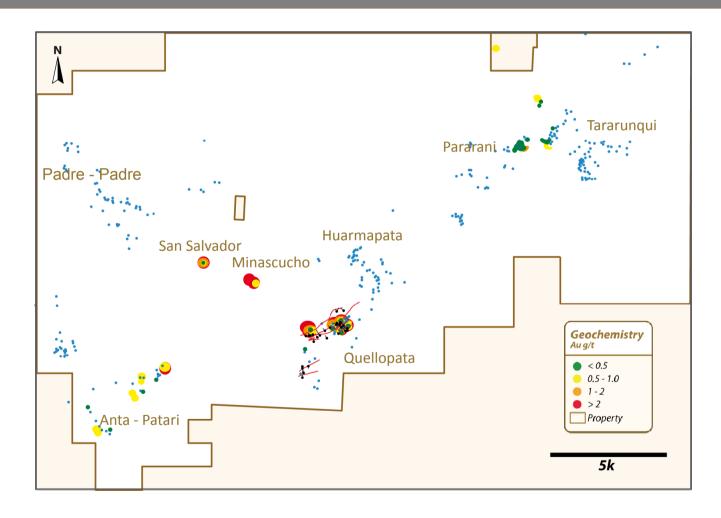


Isac Burstein, VP Business Development Inmaculada Project Geological Upside



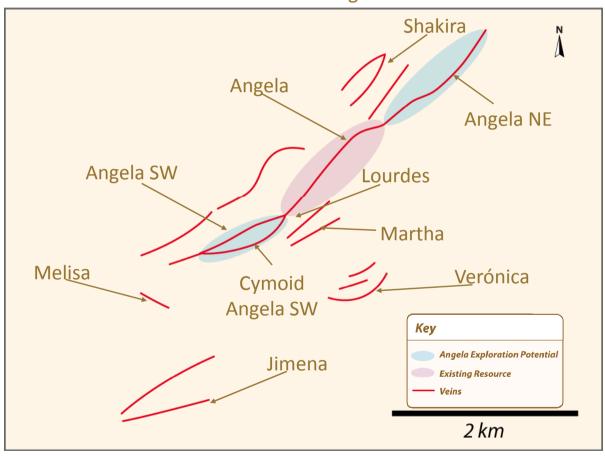








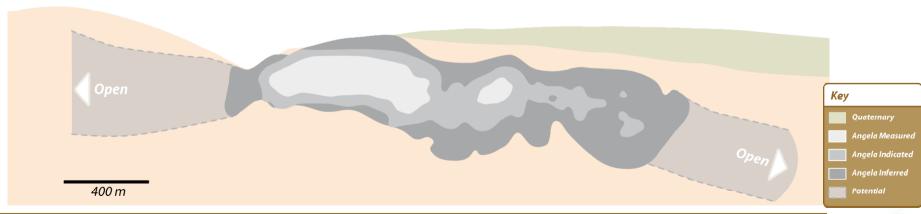






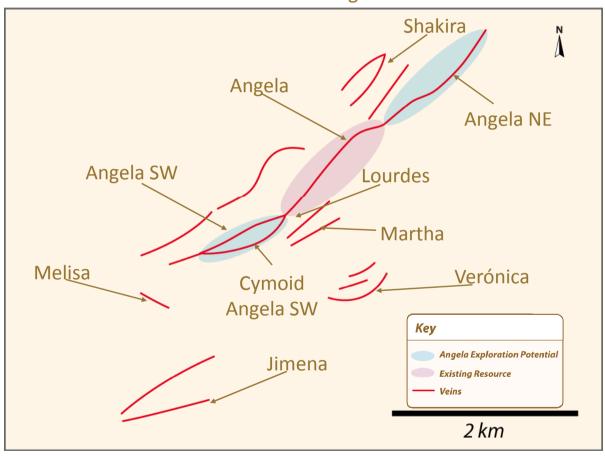
Angela Vein	Tonnes	Gold grade (g/t)	Silver grade (g/t)	Contained ounces		
Resources estimate category	(million)			Au (k oz)	Ag (m oz)	Ag Eq. (m oz)
Measured	3.18	4.17	129	430	13.2	38.7
Indicated	3.55	4.11	161	470	18.4	46.5
Measured & Indicated	6.73	4.14	146	890	31.6	85.2
Inferred	3.17	4.49	164	460	16.8	44.3







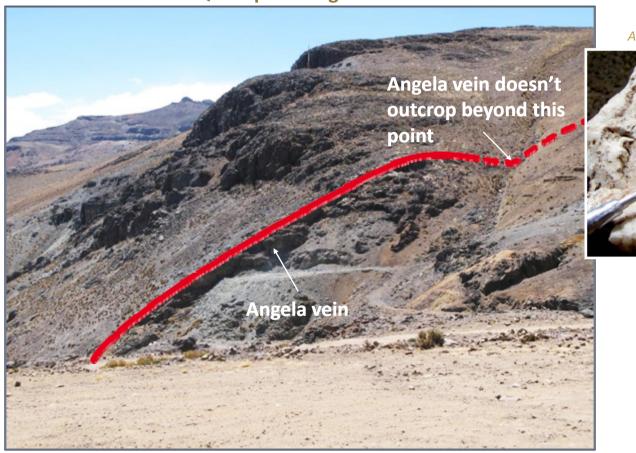






# Inmaculada upside: Angela

**Quellopata: Angela Vein** 

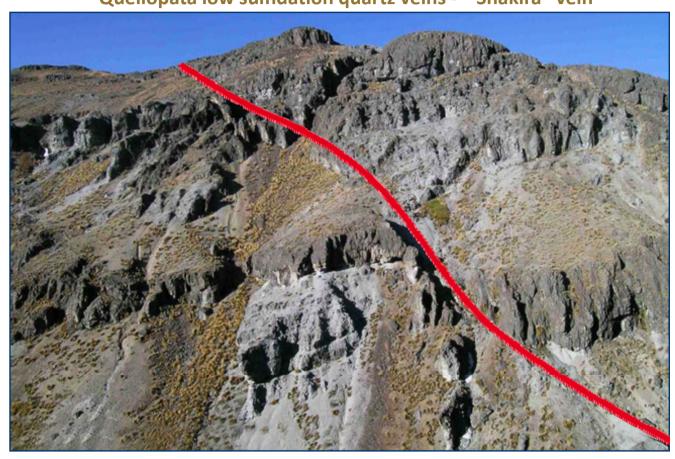


Angela vein on outcrop





Quellopata low sulfidation quartz veins - "Shakira" vein

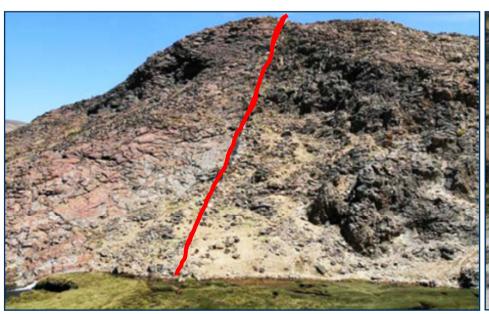


#### Anta vein



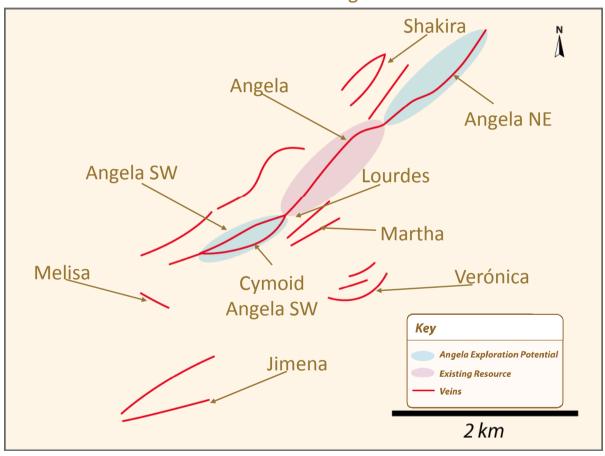


#### Tararunqui

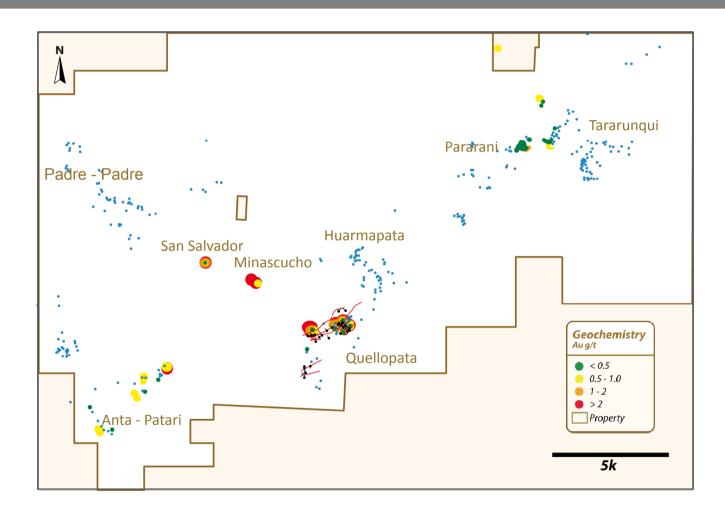




Main Structure: Angela Vein



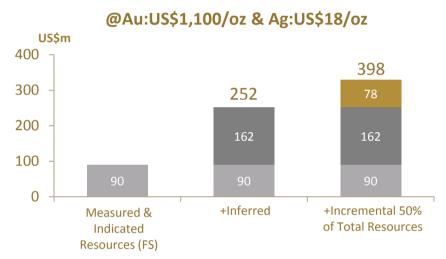


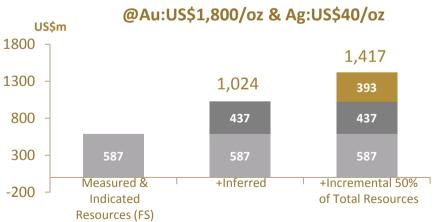


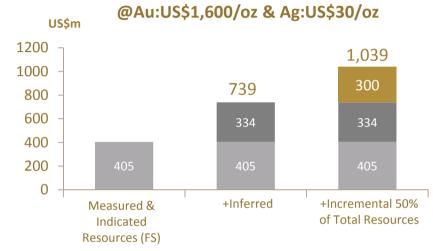


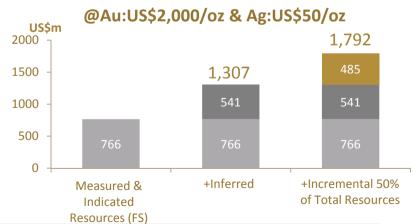
### Inmaculada: Financial projections

#### Total post-tax NPVs @5%













Crespo Project Ignacio Bustamante, CEO



## Crespo: Executive summary

#### Positive Feasibility Study delivered under stress conditions:

- -Profitable under conservative gold/silver price assumptions
- -Inferred resources not included
- -Contingency: 9% of total initial capex
- -Completed by independent third party, Ausenco

#### • Key operational factors:

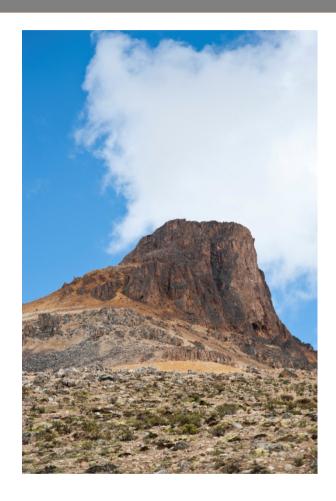
- ✓ Simple, straightforward mining
- ✓ Very good gold recoveries
- ✓ Proximity to existing operations reduces execution risk
- x Low silver recoveries

#### • Future potential:

- -Inferred resources may add mineable material
- -Geological potential in identified areas
- -Additional exploration potential in surrounding areas
- Project ownership: 100% Hochschild

#### Key project challenges:

- -Environmental permits
- -Social license
- Power line requires high degree of coordination with third parties and permits from land owners



### Crespo: Location and Access

#### Location

- General location: Cuzco, Peru
  - -910 km SE of Lima
  - -360 km SW of Arequipa
  - -85km from Arcata
- Geographic Coordinates: 14° 45′48′′S; 72°23′38′′W
- Altitude: 4,700 5,300 MASL

#### **Access from ports**

- Two main routes:
  - Arequipa-Crespo route: 360km -150km paved
  - -Lima-Crespo route: 910km -720km paved





### Crespo: Resources

Resources estimate category (as at 31 Dec 2010)	Tonnes (million)	Gold grade (g/t)	Silver grade (g/t)	Contained ounces		
				Au (k oz)	Ag (m oz)	Ag Equiv (m oz)
Measured	4.58	0.49	51	72	7.5	11.8
Indicated	18.80	0.44	36	268	21.7	37.8
Measured & Indicated	23.39	0.45	39	340	29.2	49.6
Inferred	5.17	0.35	31	59	5.2	8.7

Cut off grade: 0.33 gr/t gold equivalent

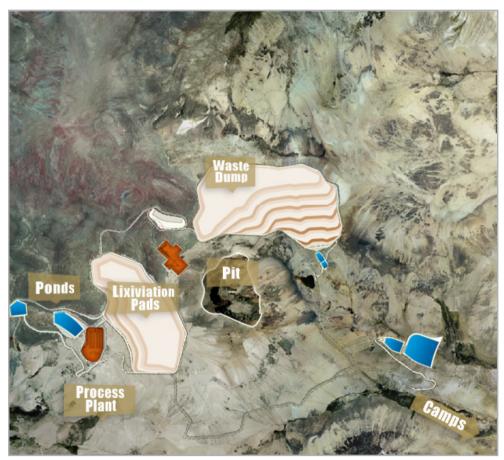
### Crespo: Key Financial Parameters

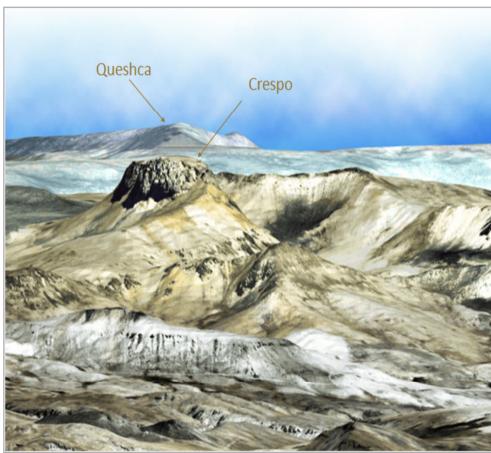
- Prices used to calculate reserves: \$1,300/oz and \$23/oz
- Feasibility Study completed by Ausenco
- Inclusion of inferred resources:
  - -LOM would increase to 10.0 yrs
  - -LOM production would increase by 15%
- Inclusion of further 50% additional potential resources
  - -LOM would increase to 15.0 yrs
  - -LOM production would increased by 73%

Feasibility Study	Total	
Base Case Gold Price	\$ 1,300/oz	
Base Case Silver Price	\$ 23/oz	
Initial Life of Mine	8.5 years	
Daily plant capacity (353 days)	6,850 tpd	
Average treatment grade Au	0.46 g/t	
Average treatment grade Ag	39.4 g/t	
Metallurgical Recovery Au	80%	
Metallurgical Recovery Ag	35%	
Average Annual Gold Production	28.0 k oz	
Average Annual Silver Production	1.0 m oz	
Average Annual Gold Equivalent Production	45.3 k oz	
Average Annual Silver Equivalent Production	2.7 m oz	
Life-of-Mine Gold Produced	236.8 k oz	
Life-of-Mine Silver Produced	8.8 m oz	



# Crespo: Project layout



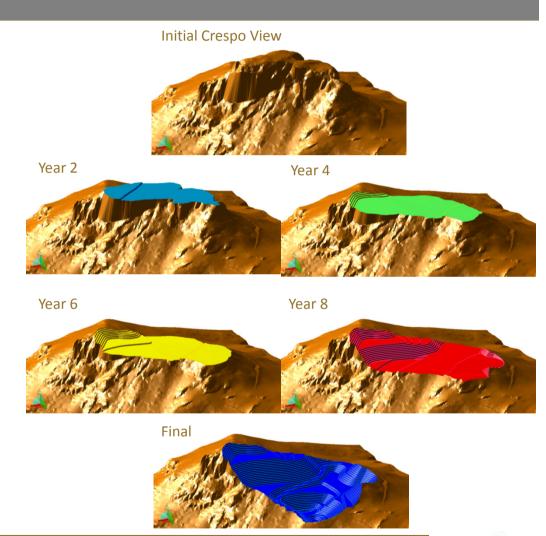




### Crespo: Mine development plan

#### Mining method

- High sulphidation epithermal deposit
- Open-pit mine
- Average daily production: 6,850t
- Stripping ratio:1.15:1
- Drilling/blasting carried out directly by Hochschild
- Earthworks developed by contractors.



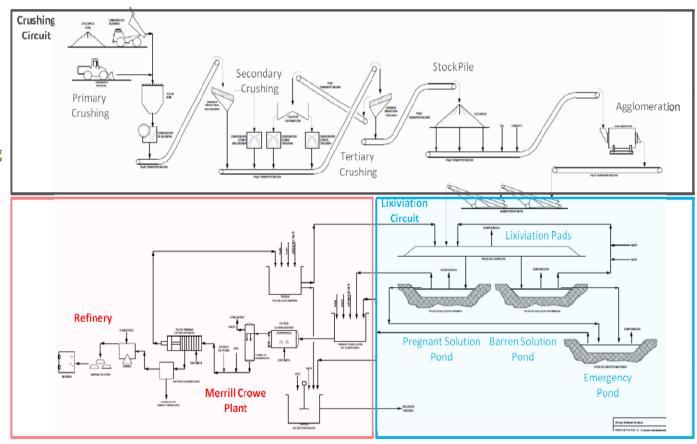


### Crespo: Metallurgy

#### Metallurgy includes:

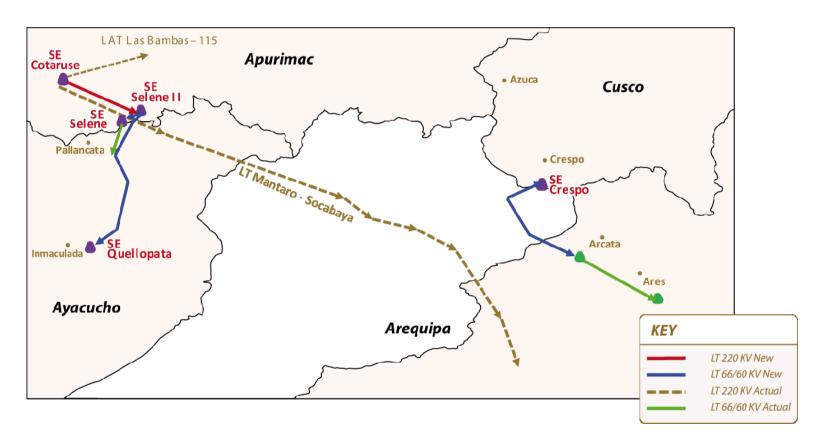
- **–Crushing:** primary, secondary and tertiary crushing; agglomeration.
- -Lixiviation: 1 leaching pad
- -Recovery: Merrill Crowe and smelting
- Expected recoveries:80% for gold and 35% for silver
- Final product: Doré

#### **Plant flow diagram**





### Crespo: Energy and Transmission line



• Power: 25km 60kV transmission line from Arcata to Crespo.

### Crespo: Permits status and expectations

#### **Key permits: Environmental Impact Study (EIS)**

- EIS requires community consultation (social licence)
- Subject to Government technical review.
- Current Status:
  - EIS submitted to Peruvian Mining Ministry in Dec 2011
  - -Public Hearing to review EIS conditions planned for April 2012
  - -Estimated time for final approval: 31st October 2012









### Crespo: Land situation

Ccollpa Ccasahui Community: 3,400 Ha (in process)





## Crespo: Community relations



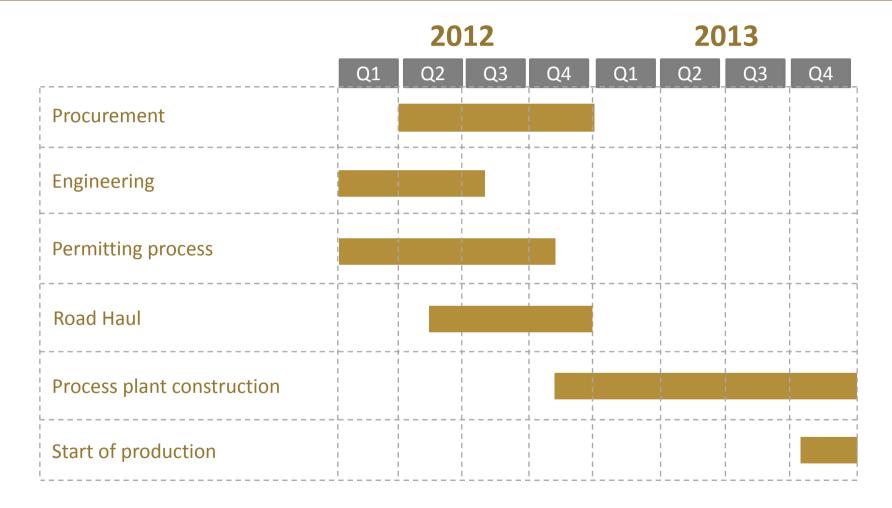








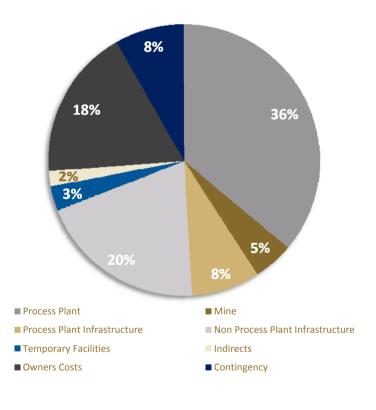
### Crespo: Timeline





### Crespo: Capex detail

Description	Total (US\$m)	Comments		
Process Plant	40	Primary, Secondary and Tertiary Crushing, Agglomeration, Leaching, Merrill-Crowe and Gold Room		
Process Plant Infrastructure	9	Main Site Administration Building, Main Site Storage, Lunch Rooms and Ablutions, Process Plant Site Offices, Laboratory, Reagents storages and Power Line		
Mine	5 Mine Development and Truck Shop			
Non Process Plant Infrastructure	22	Leach Pad, process ponds, waste dump, internal roads, water treatment plant and sewage treatment plant		
Temporary Facilities	3	Construction Camp, Temporary Offices, Temporary Power - Diesel		
Indirects	2	EPCM Spares parts		
Owners Costs	20	Project Management, Environment, Community Relations, Human resources		
Contingency	9	9% of contingency		
Total	111			





## Crespo: Capex detail (cont.)

- Scoping Study pre-production capex: US\$65m
- Feasibility Study pre-production capex: US\$111m
- Key drivers of capex differences:

Description	Scoping Study	Feasibility Study
Plant Capacity	5,500 tpd	6,850 tpd
Feasibility Study lower silver recoveries require larger pads	80% Au 39% Ag	80% Au 35% Ag
Additional tertiary crusher system to reduce grinding size	12mm	6.3 mm

 Since Scoping Study completion industry has experienced inflation (estimated at 15% in Peru)

## Crespo: Opex detail

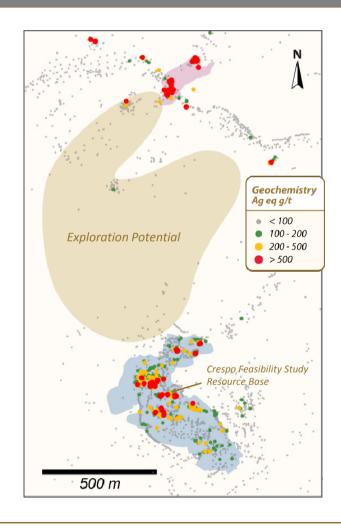
Comparative analysis	Crespo	Moris 2010	
Annual tonnage	2.5mt	1.1mt	
Cost per tonne w/o royalties	US\$13.5/tn	US\$16.3/tn	
Cash Cost			
Co-product Au	US\$754/oz	US\$771/oz	
Co-product Ag	US\$13.0/oz	US\$12.8/oz	
Silver equivalent	US\$12.7/oz	US\$12.9/oz	



Isac Burstein, VP Business Development Crespo Project Geological Upside

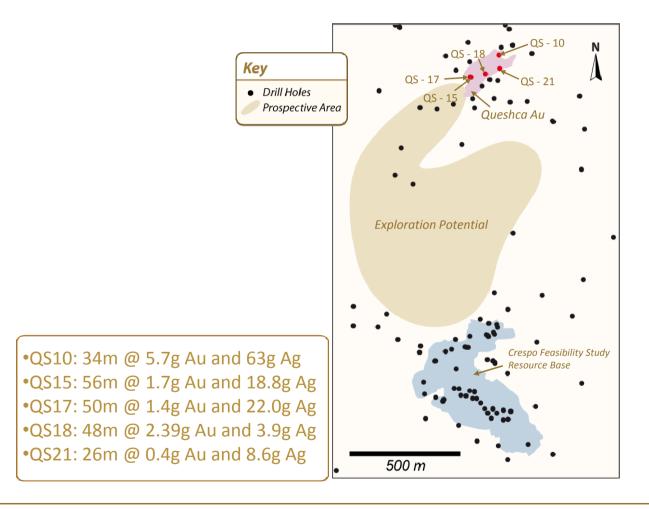


# Crespo upside





### Crespo: Queshca







Azuca Project Ignacio Bustamante, CEO



### Azuca: Summary

- Decision to increase our exploration efforts:
  - -Complex geological system
  - -Newly discovered high grade intercepts suggest chance to grow resource base with better quality mineral
  - -Resolution of Millo arbitration may favourably change economics/design of project
- 2012 strategy to focus on exploration aim to add high-quality resources





### Azuca: Resources

Resources estimate category (as at 31 Dec 2010)	Tonnes (million)	Gold grade (g/t)	Silver grade(g/t)	Contained ounces		
				Au (k oz)	Ag (m oz)	Ag Equiv (m oz)
Measured	0.18	0.61	231	4	1.3	1.6
Indicated	4.97	0.82	212	131	33.9	41.8
Measured & Indicated	5.15	0.81	213	135	35.3	43.3
Inferred	6.13	0.92	185	182	36.5	47.5

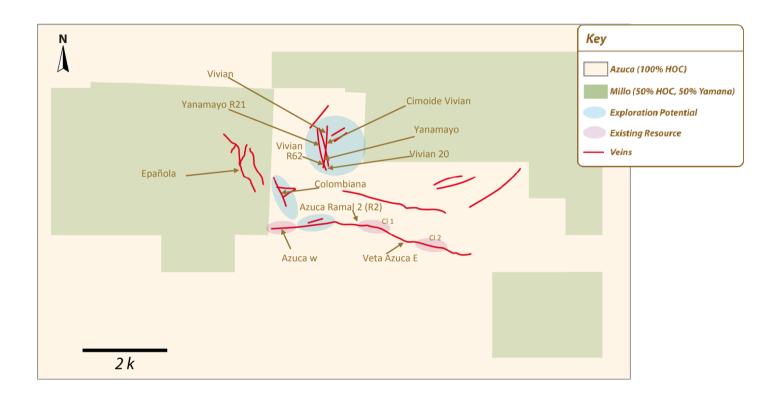
Cut off grade: 101 gr/t silver equivalent



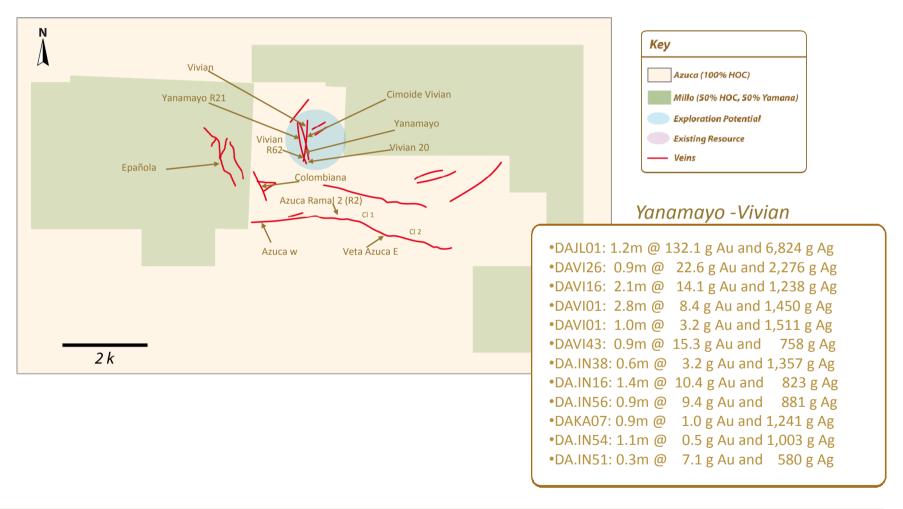


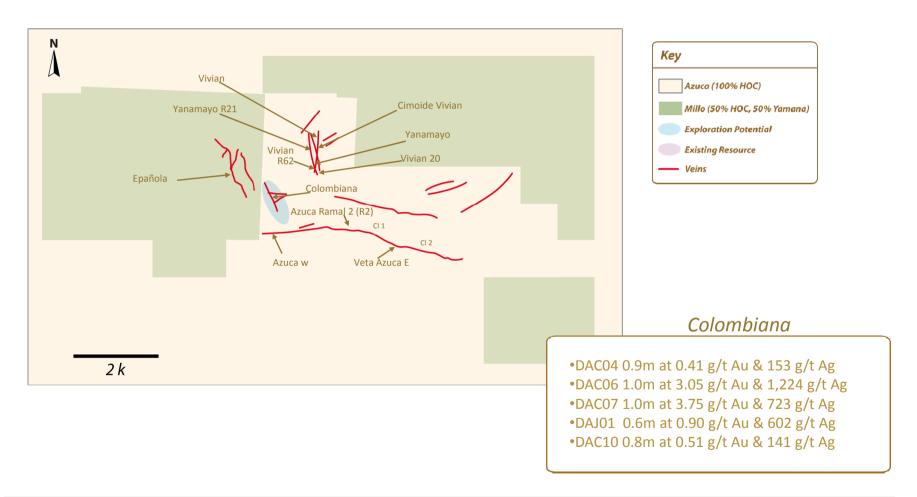
Isac Burstein, VP Business Development Azuca Project Geological Update

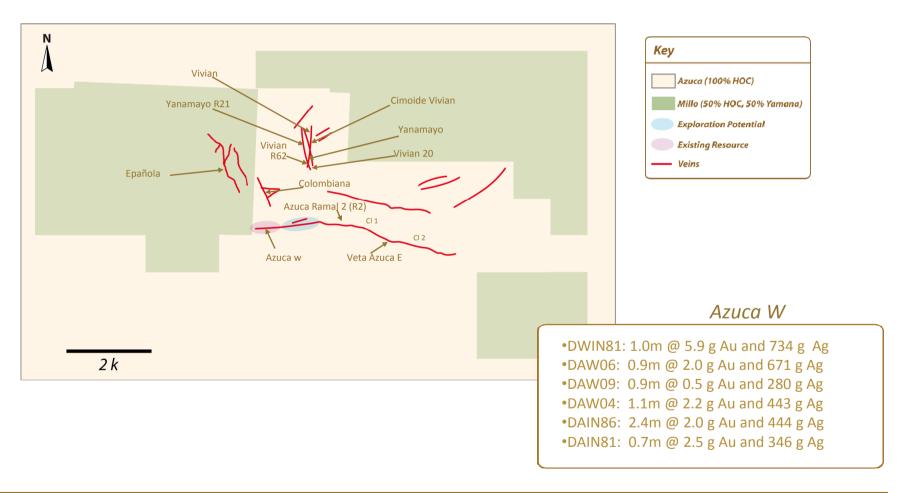


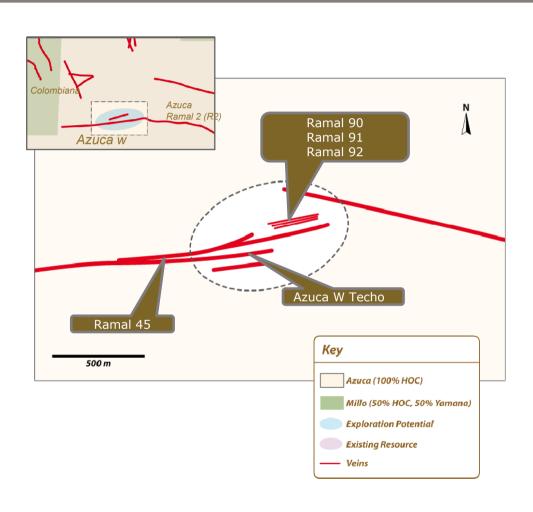












#### Ramal 90 / 91 / 92

- •DAW14 5.8m at 2.56 g/t Au & 927 g/t Ag
- •DAW14 4.8m at 1.53 g/t Au & 537 g/t Ag
- •DAW14 4.4m at 0.87 g/t Au & 484 g/t Ag
- •DAW17 5.0m at 6.35 g/t Au & 57 g/t Ag
- •DAW20 1.0m at 1.61 g/t Au & 267 g/t Ag
- •DAW18 1.1m at 1.82 g/t Au & 177 g/t Ag
- •DAW18 1.0m at 1.79 g/t Au & 155 g/t Ag
- •DAW18 1.2m at 0.59 g/t Au & 186 g/t Ag

#### Ramal 45

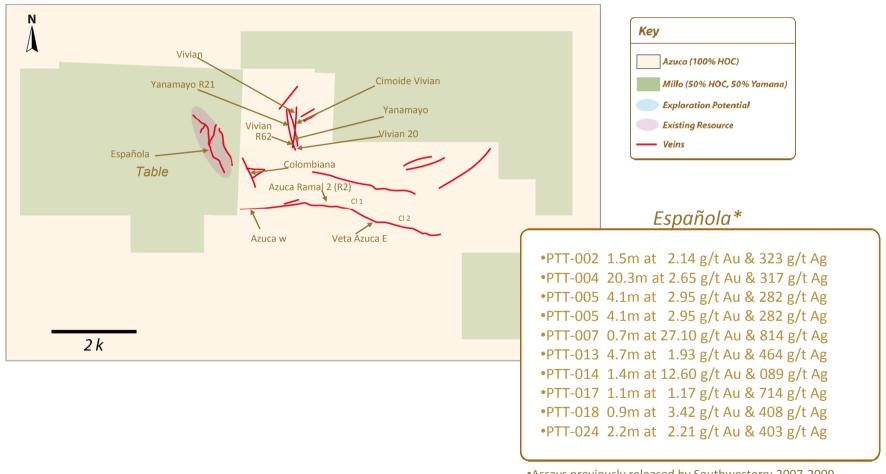
- •DWIN77 1.4m at 8.74 g/t Au & 2124 g/t Ag
- •DAW06 0.9m at 1.98 g/t Au & 671 g/t Ag
- •DAW04 1.1m at 2.22 g/t Au & 443 g/t Ag
- •DWIN88 1.2m at 1.82 g/t Au & 445 g/t Ag
- •DWIN47 0.6m at 2.40 g/t Au & 304 g/t Ag
- •DWIN42 1.0m at 3.48 g/t Au & 107 g/t Ag
- •DAW05 1.1m at 1.30 g/t Au & 222 g/t Ag
- •DWIN82 0.9m at 0.39 g/t Au & 263 g/t Ag
- •DWIN81 0.8m at 2.76 g/t Au & 42 g/t Ag



### Azuca upside

- Hochschild has 50% interest in Millo-Azuca properties pursuant to agreements signed in 2004 and 2008 between Southwestern (now owned by Hochschild) and Meridian (now owned by Yamana)
- Agreements provide that Meridian may earn an additional 20% interest in properties
  if it fully funds and completes pre-feasibility study by 31 December 2012
- Disagreement over right-of-first offer provision of agreements led to arbitration in Canada between Southwestern and Meridian
- Arbitrator issued its award in September 2011 in favour of Southwestern (Hochschild)
- Award has been appealed by Meridian (Yamana)
- If Southwestern wins appeal, it will consolidate ownership of the Millo-Azuca properties





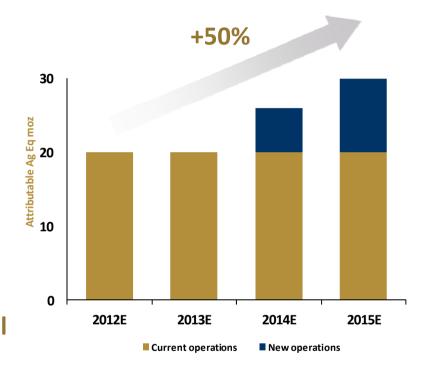




# Conclusion: Leveraging Hochschild's expertise

#### Ideal project conditions

- -Known partner in Inmaculada
- -100% owned Crespo
- -Known political environment
- -Known geological landscape
- -Known metallurgy
- -Leverage on existing corporate infrastructure
- Significant growth with moderate investment
- Strong potential to prolong LOM
- Very attractive financial returns for excess capital



# Hochschild Mining plc







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