

Centinela - Site Visit

December 7th 2016

Luis Sánchez **Chief Operating Officer**





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Key Messages



Emphasis on profitable tonnes

Focus on cost and operational reliability

Positioned for growth

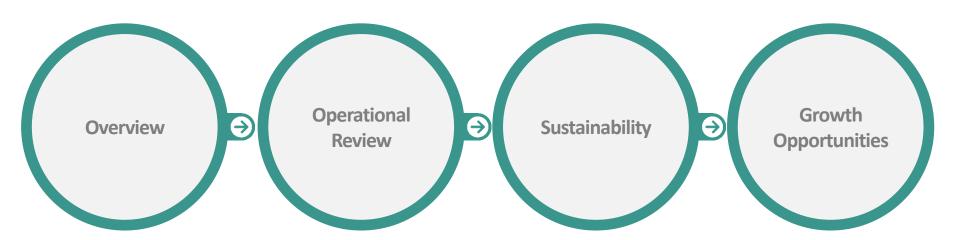
Creating long term value through Sustainability

Leaders in innovation

- Only profitable production
- Every tonne must make an earnings contribution
- Rebase costs
- Protect margins
- Planning and forecasting
- Advance organic growth projects for approval
- Robust balance sheet
- New community engagement model
- Social licence to operate or grow
- History of innovation
- Enables sustainability and lower costs
- Embedded practice

Agenda





Safety first - 24 months with zero fatalities



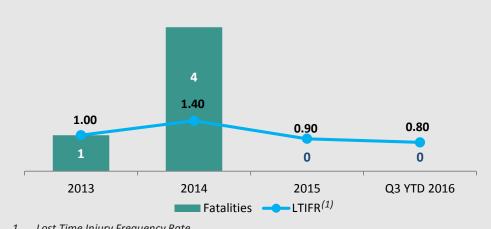
- Committed to zero fatalities
- Similar LTIFR compared to last year
- New safety and occupational health model being extended to contractors
- Regular senior management site visits to reinforce Safety First

Focus Areas

- Identify and assess fatality and serious injury risks
- Implement critical controls
- Report and investigate near misses
- On-the-ground safety verification by senior leadership

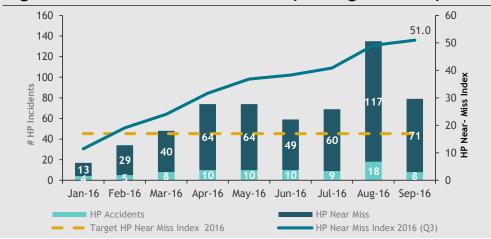
High Potential (HP) Incidents: Total number of HP accidents and HP Near misses *Near -miss index: Represents total number of high potential near misses for every million hours worked.

Safety Performance



1. Lost Time Injury Frequency Rate

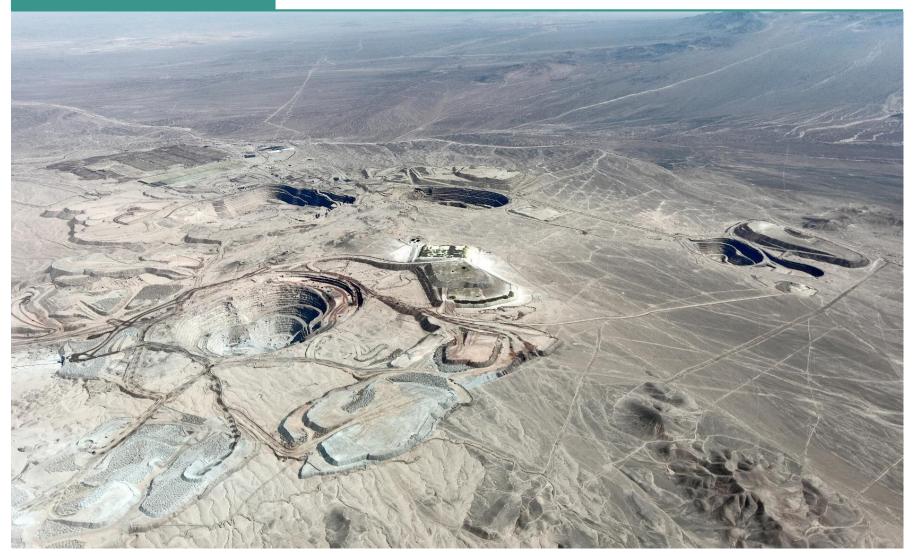
High Potential Accident vs Near Miss (Leading Indicators)



^{*}Near -miss index Target 2016: 17



Overview



Centinela overview





Ownership structure

- 70% Antofagasta
- 30% Marubeni Corp.

History

- Merged El Tesoro and Esperanza in 2014
- El Tesoro started production in 2001, Esperanza in 2011

Location

1400km north of Santiago

Facilities overview

- 4 open pits mined
- 2 plants (concentrates & cathodes)

Production

- Copper concentrate and cathode producer
- Significant by-product gold

Conc.	Cath.	C1
YTD Q3 016 Production (t)	YTD Q3 016 Production (t)	YTD Q3 2016 (c/lb)
120,900	39,300	135
Guidance 2016 Production (t)	Guidance 2016 Production (t)	Guidance 2016 (c/lb)
175,000 -	60,000 -	130

65,000

185,000

Centinela Team



Denotes presence at presentation

André Sougarret Chief Executive Officer



Fabian Suez Sustainability Manager



Juan Luis
Palacios
Safety and
Occupational
Health Manager



Diego Arrigorriaga Chief Financial Officer



Rodrigo Salinas Human Resources Manager

Cristian

Maintenance

Fadic

Manager



Luis Sanchez Chief Operations Officer



Rodolfo
Navarro
Resource,
Planning and
Development Manager



Ignacio Muñoz Projects Manager



Carlos Espinoza Mine Manager



Luis Pizarro Concentrator Plant Manager



Juan Carlos Villarroel Hydrometallurgical Plant Manager



Cesar Jimenez Port Manager



Patricio Troncoso District Development Manager



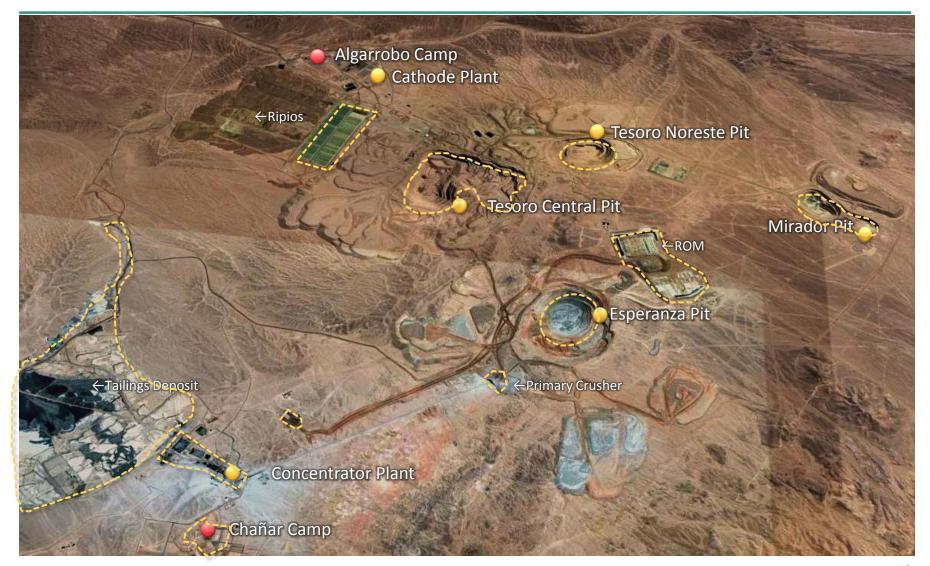
Location Map





Site visit





Development of Centinela





- ✓ Integrated planning and operations
- ✓ Sharing best practices and facilities
- ✓ Increasing productivity and cost efficiency



✓ Molybdenum Plant - first production

MOLY

2017

- ✓ Mo recovery from concentrates
- ✓ US\$125 million

✓ Esperanza - First production



CEN

2014

DMC →

2018+

Enc. Oxides

✓ El Tesoro - First Production



2013

ESP

2011

- ✓ Debottlenecking concentrator throughput to 105 ktpd
- ✓ Thickened tailings



- ✓ Encuentro Oxides First production
- ✓ US\$636 million



- ✓ Second concentrator. Earliest construction start
- ✓ US\$2,7 billion (PFS estimate)



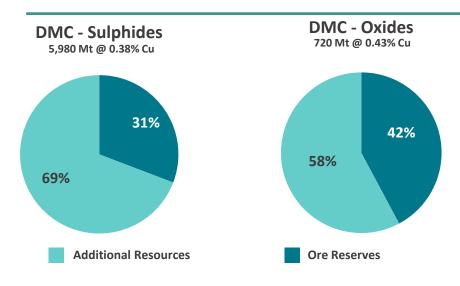
MET

2001

Reserves and Resources

As of 31 Dec 2015. Resources include measured + indicated + inferred.



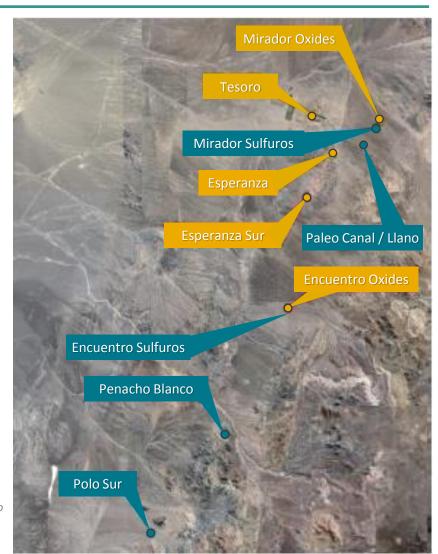


Resources CEN+OXE	Tonnage (Mt)	Copper (%)	Moly (%)	Gold (g/tonne)
Sulphides	3215.7	0.38	0.012	0.13
Oxides	517.2	0.43		
Total ⁽¹⁾	3732.8	0.39		

Additional DMC Resources	Tonnage (Mt)	Copper (%)
Sulphides	2761.9	0.38
Oxides	203.7	0.42
Total	2965.7	0.38

(1) As of 31 Dec 2015. Includes 2,144.6 Mt of Ore Reserves:

- CEN+OXE Sulphides includes
 Esperanza and Esperanza Sur Ore
 Reserves: 1,840.4 Mt @ 0.44%
- CEN+OXE Oxides includes Mirador
 Oxides, Tesoro + ROM and Encuentro
 Oxides Ore Reserves: 304.2 Mt @
 0.48%



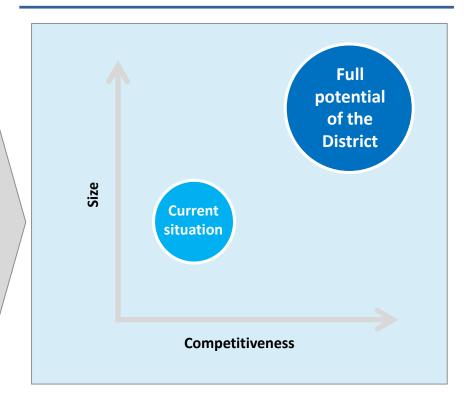
Centinela's challenge



Our strategy focuses on harnessing synergies while balancing growth and productivity...

...aiming to be an operation of the future capturing the full potential and value of the Centinela District





Centinela's 3 step development path



- Operating at 105 ktpd capacity
- Achieve cost reduction targets
- · Commissioning thickener
- Comply with mine development plan

- Successful completion of Encuentro Oxides and Moly projects
- Achieve cost reduction targets
- Comply with mine development plan
- Prepare for future growth

- Ramp-up 2nd
 Concentrator
- Prepare for Phase 2
 Expansion Project
- Progress feasibility of other mineral resources eg. Polo Sur

2020+

2016

Achieving steady state with new capacity

2017-2019

Optimisation and preparing for growth

Unlock the value of the District

Sustainable management

Establishing and maintaining high-performance management (Company Values, Risk Management Model, Safety Model and Operational Model)

The vision of the Centinela District



The 2nd Concentrator monetises the large base of mineral resources that exist in the District

...moving Centinela to it's full economic potential

Production

- Significant increase in copper production
- With molybdenum and gold by-products
- Leverages existing cathodes production capacity

Mining

- Increase in mine movement
- Increase in number of pits

Through-put

- Increase the size of crushing and conveyor systems
- New concentrator plant, molybdenum flotation cells and dry area for Encuentro Oxides
- Increase throughput of combined plants

Simplify and optimise our processes

- Stable operation, focus on planning and minimum process variability
- Anticipate potential interference and operational risks
- Maintenance as a core process
- Integrated operation allowing real-time decision making

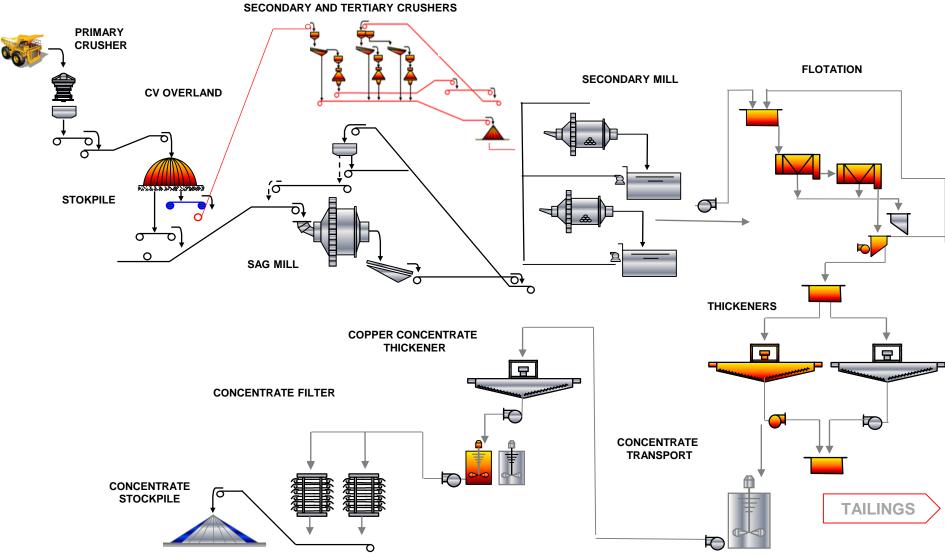


Operational Review



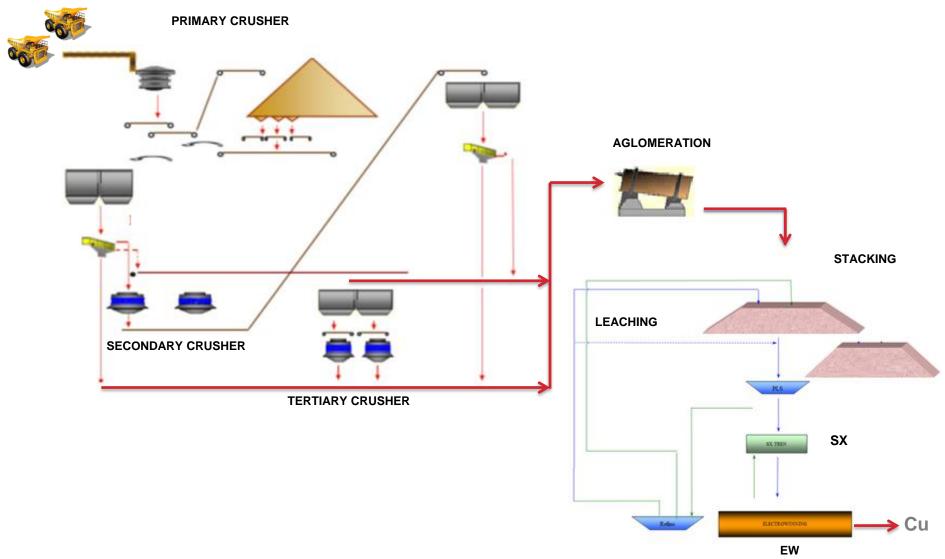
Flow sheet for the concentrate plant





Flow sheet for the cathodes plant





Production process – Mine Area





Fleet and mining equipment



Туре	Brand – Model	N° of Units
DrillingDiesel drillSupport drill	 Atlas Copco Pit Viper PV351 production drill rigs Atlas Copco DMM3 production drill rigs Atlas Copco ROC L-8 down-the-hole crawler Atlas Copco ROC D560 surface drill rig Atlas Copco ROC D45 surface drill rig 	15
LoadingElectric shovelsFront-end loadersAncillary equipment	 P&H 4100 XPC electric rope shovels Komatsu PC8000 diesel hydraulic shovels Komatsu PC5500 diesel hydraulic back hoe LeTorneau L2350HL front-end loader LeTorneau L1350HL front-end loader Caterpillar 994 Front-end loader 	16
Haulage • Trucks	 Caterpillar 797F / 797B haul trucks (360 tonnes) Komatsu 930SE haul trucks (330 tonnes) Caterpillar 793F / 793C haul trucks (230 tonnes) 	74

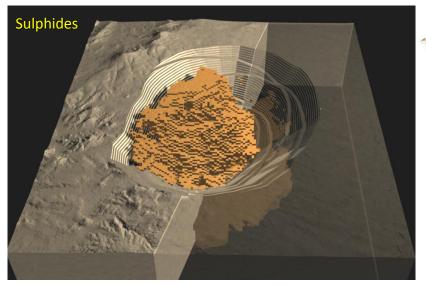


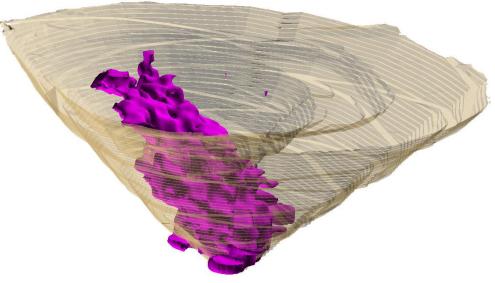


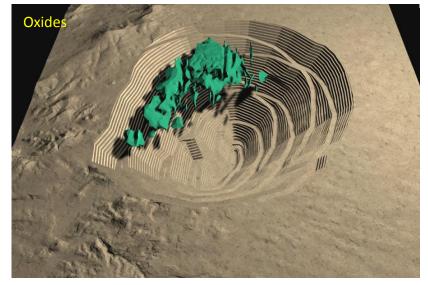


Esperanza pit main challenges









- Waste-to-ore ratio
- Grade variability

Centinela has realised savings of approx. US \$ 190M





Services

Productivity



Operational Budget & Maintenance management



Organisational Effectiveness



Energy Efficiency

MORE IDEAS MORE PRODUCTIVITY



Accumulated Cost Savings

[Excluding FX and input price savings] US\$m 189 200 158 150 100 38 50 2014

2015

HY 2016

Savings Achieved By

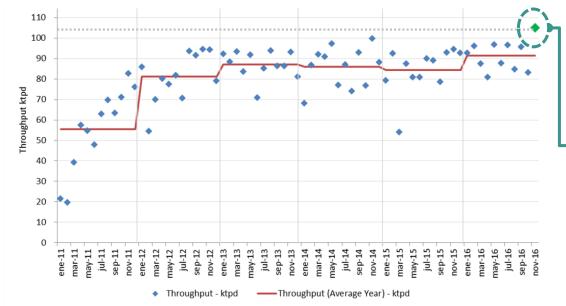


- Centinela Merger: Shared infrastructure, one Management team and integrated mining fleet
- Improve contracts productivity and synergies in main services
- Reduce general expenses (travel, consultants)
- Increased productivity (Cu tonnes/worker)
- Ensure profitable contribution from every tonne

Concentrator Plant - Throughput



	Progress
Tailings	
1. Increase thickening capacity: 3 new paste thickeners	1 operational, 2 ramping up
2. Improvements to existing high-density thickeners (new rakes)	Completed
Crushing	
1. Additional 20 ktpd crushing capacity: secondary and tertiary plant	Completed
Flotation	
1. Improvements to slurry distribution and conveyor belt systems	Completed
2. De-bottleneck existing flotation and concentrate circuit	Completed



105 ktpd was consistently achieved in November 2016





Pioneering the use of sustainable technologies



Thickened tailings

- Thickeners to maximise use water
- Largest application in technology in the world

Use of raw sea water

- Sea water transported over 140km from Esperanza port
- Operation adapted to operate with salt content without reduction in recoveries

Thermosolar plant

- Solar power used to heat solutions in recovery process
- Pioneered technology which has become an industry standard



Efficient use of land and water



100% sea water used in concentrate production



Savings ~50% of fuel oil used in heaters

Sustainability



Economic Viability:

- Simple process with larger equipment
- In search of synergies
- Innovation & improvement as permanent practices

Innovation for environment:

- First thermosolar plant of industrial scale in the mining industry
- 100% use of sea water without desalination in the concentrator
- Large scale thickened tailings operation

Social responsibility:

- Continuous dialogue with diverse range of stakeholders
- Local employment and training
- Projects contributing to the local development in Sierra Gorda, Mejillones and María Elena
- 11% of the workforce are female









Growth opportunities



Growth opportunities





Encuentro Oxide

- Starting production in 2017, 8-year mine life. Feed for existing SX-EW plant
- Full production 50,000 tpa copper
- Capex : US\$636 million

Molybdenum plant

- Construction underway, completion in 2017
- 2,400 tpa molybdenum
- Capex : US\$125 million

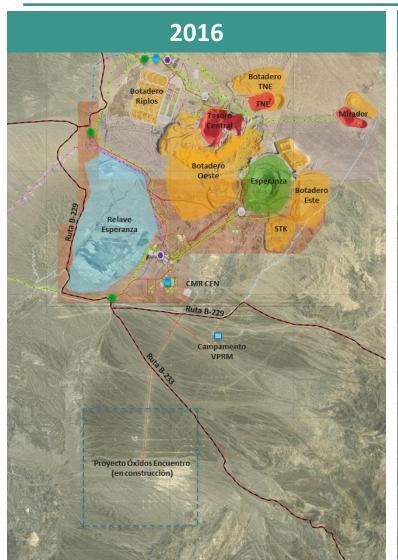
• Centinela 2nd Concentrator

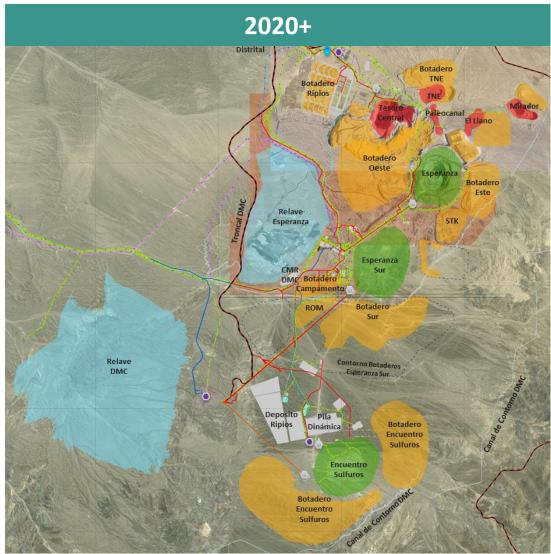
- Planned 2nd concentrator 7 km from current facilities. In process of EIA and feasibility studies.
- Phase 1 Production: 140,000 tpa copper
- Capex : US\$2.7 billion



Our Future - Centinela Mining District 2016







Key Messages



World class district with optionality for long term development

- Projects in execution and starting production in 2017:
 - Encuentro Oxides: leverage existing SX-EW plant and pre-stripping for Encuentro Sulphides
 - Moly: improving competitiveness through by-products credits
- 2nd concentrator plant in FS stage and advancing permitting successfully

Operational achievements

- 105ktpd capacity achieved in November 2016
- Mine development plan compliance is ensuring ore availability for future production and improving grade predictability
- First paste thickener operating consistently allowing smooth commissioning of the other two by year end
- Innovation is the core of our business: use of raw sea water, thermosolar energy and thickened tailings

Successful cost management

- Focus on profitable tonnes: marginal benefit from every source of ore
- Continuous improvement in our cost efficiency: integrated sulphide/oxide management. planning and mine operation, Cost Competitiveness Programme and district synergies
- 2nd quartile cost performance



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