# lundin mining

**Corporate Presentation** 

January 2020

Candelaria, Atacama Region, Chile

### **Cautionary Statements**

#### **Caution Regarding Forward-Looking Information and Non-GAAP Performance Measures**

Certain of the statements made and information contained herein is "forward-looking information" within the meaning of applicable Canadian securities laws. All statements other than statements of historical facts included in this document constitute forward-looking information, including but not limited to statements regarding the Company's plans, prospects and business strategies; the Company's guidance on the timing and amount of future production and its expectations regarding the results of operations; expected costs; permitting requirements and timelines; timing and possible outcome of pending litigation; the results of any Preliminary Economic Assessment, Feasibility Study, or Mineral Resource and Mineral Reserve estimations, life of mine estimates, and mine and mine closure plans; anticipated market prices of metals, currency exchange rates, and interest rates; the development and implementation of the Company's Responsible Mining Management System; the Company's ability to comply with contractual and permitting or other regulatory requirements; anticipated exploration and development activities at the Company's projects; and the Company's integration of acquisitions (such as the Chapada mine) and any anticipated benefits thereof. Words such as "believe", "expect", "anticipate", "contemplate", "target", "plan", "goal", "aim", "intend", "continue", "budget", "estimate", "may", "will", "can", "could", "schedule" and similar expressions identify forward-looking statements.

Forward-looking information is necessarily based upon various estimates and assumptions including, without limitation, the expectations and beliefs of management, including that the Company can access financing, appropriate equipment and sufficient labour; assumed and future price of copper, nickel, zinc, gold and other metals; anticipated costs; ability to achieve goals; the prompt and effective integration of acquisitions; that the political environment in which the Company operates will continue to support the development and operation of mining projects; and assumptions related to the factors set forth below. While these factors and assumptions are considered reasonable by Lundin Mining as at the date of this document in light of management's experience and perception of current conditions and expected developments, these statements are inherently subject to significant business, economic and competitive uncertainties and contingencies. Known and unknown factors could cause actual results to differ materially from those projected in the forward-looking statements and undue reliance should not be placed on such statements and information. Such factors include, but are not limited to: risks inherent in and/or associated with operating in foreign countries; uncertain political and economic environments; community activism, shareholder activism and risks related to negative publicity with respect to the Company or the mining industry in general; changes in laws, regulations or policies including but not limited to those related to permitting and approvals, environmental and tailings management, labour, trade relations, and transportation; delays or the inability to obtain necessary governmental approvals and/or permits; regulatory investigations, enforcement, sanctions and/or related or other litigation; risks associated with business arrangements and partners over which the Company does not have full control; risks associated with acquisitions and related integration efforts (including with respect to the Chapada mine), including the ability to achieve anticipated benefits, unanticipated difficulties or expenditures relating to integration and diversion of management time on integration; competition; development or mining results not being consistent with the Company's expectations; estimates of future production and operations; operating, cash and all-in sustaining cost estimates; allocation of resources and capital; litigation; uninsurable risks; volatility and fluctuations in metal and commodity prices; the estimation of asset carrying values; funding requirements and availability of financing; indebtedness; foreign currency fluctuations; interest rate volatility; changes in the Company's share price, and equity markets, in general; changing taxation regimes; counterparty and credit risks; health and safety risks; risks related to the environmental impact of the Company's operations and products and management thereof: unavailable or inaccessible infrastructure and risks related to ageing infrastructure: risks inherent in mining including but not limited to risks to the environment, industrial accidents, catastrophic equipment failures, unusual or unexpected geological formations or unstable ground conditions; actual ore mined varying from estimates of grade, tonnage, dilution and metallurgical and other characteristics; ore processing efficiency; risks relating to attracting and retaining of highly skilled employees; ability to retain key personnel; the potential for and effects of labour disputes or other unanticipated difficulties with or shortages of labour or interruptions in production; the price and availability of energy and key operating supplies or services; the inherent uncertainty of exploration and development, and the potential for unexpected costs and expenses including, without limitation, for mine closure and reclamation at current and historical operations; risks associated with the estimation of Mineral Resources and Mineral Reserves and the geology, grade and continuity of mineral deposits including but not limited to models relating thereto; actual ore mined and/or metal recoveries varying from Mineral Resource and Mineral Reserve estimates; mine plans, and life of mine estimates; the possibility that future exploration, development or mining results will not be consistent with expectations; natural phenomena such as earthquakes, flooding, and unusually severe weather; potential for the allegation of fraud and corruption involving the Company, its customers, suppliers or employees, or the allegation of improper or discriminatory employment practices, or human rights violations; security at the Company's operations; breach or compromise of key information technology systems; materially increased or unanticipated reclamation obligations; risks related to mine closure activities; risks related to closed and historical sites; title risk and the potential of undetected encumbrances; risks associated with the structural stability of waste rock dumps or tailings storage facilities; and other risks and uncertainties, including but not limited to those described in the "Risk and Uncertainties" section of the Annual Information Form for the year ended December 31, 2018 and the "Managing Risks" section of the Company's MD&A for the year ended December 31, 2018, which are available on SEDAR at www.sedar.com under the Company's profile. All of the forward-looking statements made in this document are gualified by these cautionary statements. Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking information, there may be other factors that cause results not to be as anticipated, estimated, forecast or intended and readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used. Should one or more of these risks and uncertainties materialize, or should underlying assumptions prove incorrect, actual results may vary materially from those described in forward-looking information. Accordingly, there can be no assurance that forward-looking information will prove to be accurate and forward-looking information is not a guarantee of future performance. Readers are advised not to place undue reliance on forward-looking information. The forward-looking information contained herein speaks only as of the date of this document. The Company disclaims any intention or obligation to update or revise forward-looking information or to explain any material difference between such and subsequent actual events, except as required by applicable law.

This presentation may contains certain financial measures such as net cash, net debt, operating cash flow per share, co-product cash costs and cash costs which have no standardized meaning within generally accepted accounting principles under IFRS and therefore amounts presented may not be comparable to similar data presented by other mining companies. This data is intended to provide additional information and should not be considered in isolation or as a substitute for measures or performance prepared in accordance with IFRS. Note: All dollar amounts are in US dollars unless otherwise denoted.

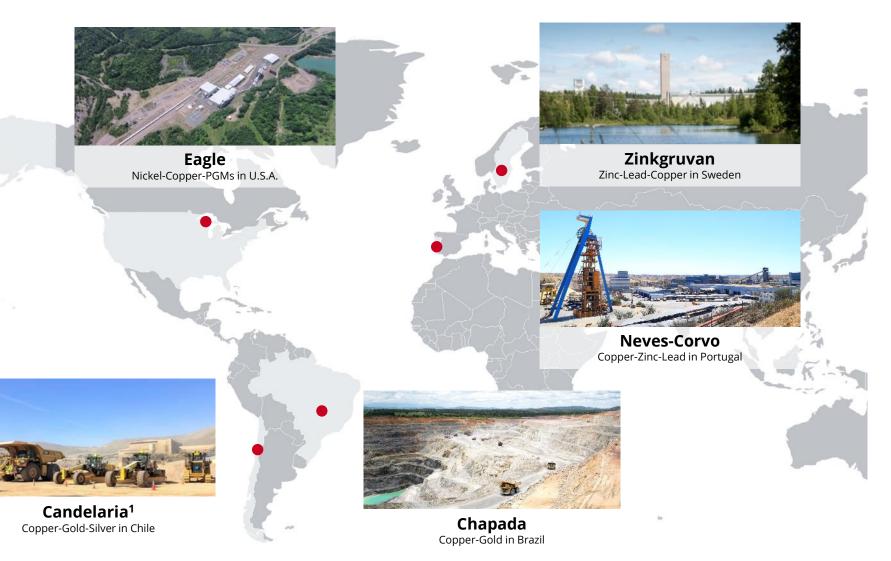
# Lundin Mining

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#### **Our Strategy**

Operate, upgrade and grow a base metals portfolio that provides leading returns for our shareholders throughout the cycle

- copper dominant
- competitive cost position
- low-risk mining jurisdictions, leverage current geographies
- pipeline of development and exploration projects
- maintain low leverage and flexible balance sheet while increasing direct shareholder returns



# **Responsible Mining**

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#### Safety

- overall safety performance continues to trend better
- top-third performance of Western world mines

#### Social

- leading ISS Environment & Social Quality Scores
- strong stakeholder engagement and increased social investment

#### Environmental

- robust risk and compliance management programs in place
- environmental footprint reduction goals set for water, dust and energy

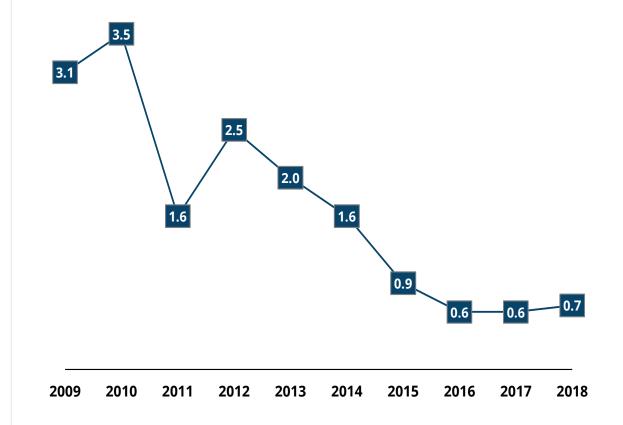


#### **United Nations Global Compact (UNGC)**

- Lundin Mining joined the UNGC in 2016
- our Mission, Values and Responsible Mining Policy align with the UNGC Ten Principles on human rights, labour, the environment and anti-corruption, as well as the 17 Sustainable Development Goals (SDGs)
- we continue to further integrate the SDGs into our business strategy, day-to-day operations and our organizational culture by creating shared value, fostering partnerships and demonstrating environmental and economic performance

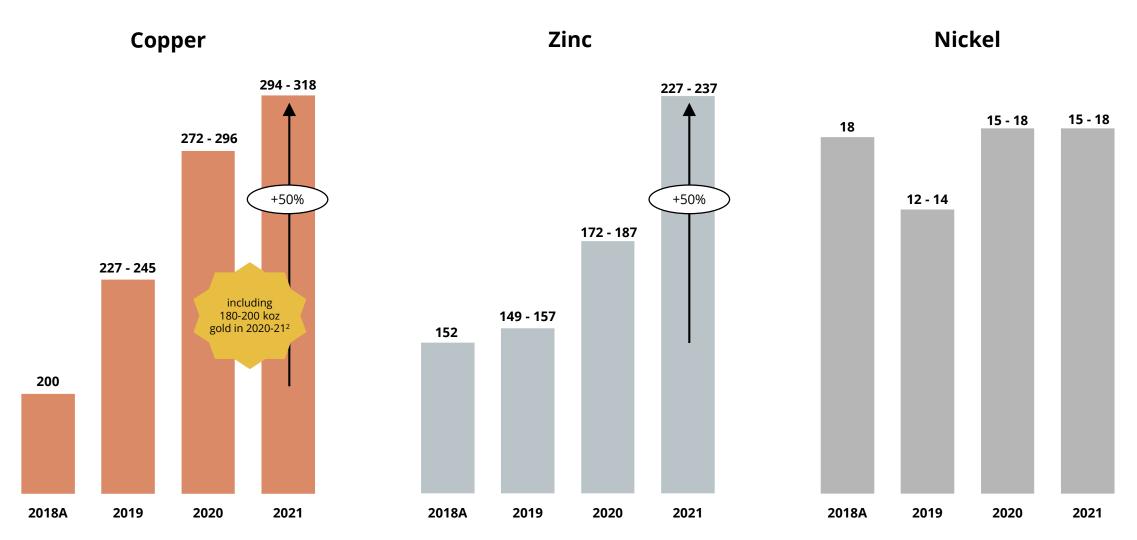
#### Total Recordable Injury Frequency

per 200,000 person hours worked



# Increasing Production Profile<sup>1</sup> (kt)

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1. Production profile based on certain estimates and assumptions, including but not limited to; Mineral Resource and Mineral Reserve estimates geological formations, grade and continuity of deposits and metallurgical characteristics. The 2020-2021 guidance was announced by news release on November 26, 2019. The updated 2019 guidance was announced in the Q3/19 MD&A of October 23, 2019. Copper guidance for 2019 reflects attributable production for the Chapada Mine under Lundin Mining ownership as provided in the Q3/19 MD&A of October 23, 2019.

Gold production guidance for Candelaria is 100-105 koz in 2020 and 110-115 koz in 2021, on a 100% basis. 68% of Candelaria's total gold and silver production are subject to a streaming agreement. Gold production guidance for Chapada is 90-95 koz in 2020 and 70-75 koz in 2021. Chapada's gold production are subject to a streaming agreement. Gold production guidance for Chapada is 90-95 koz in 2020 and 70-75 koz in 2021. Chapada's gold production are subject to a streaming agreement. Gold production guidance for Chapada is 90-95 koz in 2020 and 70-75 koz in 2021. Chapada's gold production are subject to a streaming agreement.

### **Notable Recent Events**

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#### Sale of Non-Core Interest in Kokkola Cobalt Refinery<sup>1</sup>

- Freeport Cobalt joint venture sold its non-core stake in Kokkola cobalt refinery and related cobalt cathode precursor business
- total cash consideration of approximately \$200M, 30% attributable to Lundin Mining
- received approximately \$100M in distributed funds, including the proceeds of the transaction

#### Anticipated Dividend Increase<sup>2</sup>

- 33% increase in the quarterly dividend to C\$0.04 per common share, C\$0.16 annualized, anticipated to be declared in February 2020
- 2.1% annualized yield<sup>3</sup>



Kokkola Cobalt Refinery

#### Normal Course Issuer Bid (NCIB) Renewal<sup>2</sup>

- announced intention to renewal NCIB when current program expires December 6, 2019
- discretionary NCIB to be utilized from time-to-time to actively manage outstanding shares and make opportunistic purchases to create shareholder value
- as of December 31, 2019, Lundin Mining had purchased 4.3M common shares under the NCIB through open market transactions

<sup>1.</sup> Refer to Press Release "Lundin Mining Announces Closing of Sale of Interest in Kokkola Cobalt Refinery" dated December 2, 2019.

<sup>2.</sup> Refer to Press Release "Lundin Mining Provides Operational Outlook & Shareholder Returns Update" dated November 26, 2019.

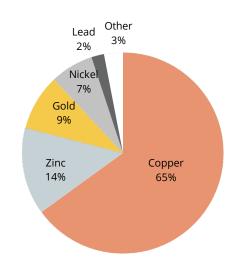
<sup>3.</sup> Based on anticipated annualized dividend of C\$0.16 per common share and Lundin Mining January 7, 2020 closing share price of C\$7.76 per share.

# Q1-Q3/19 Summary Results

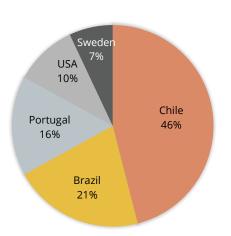


Production	Payable Sales
168,367 t of copper	160,027 t of copper
99,000 oz of gold	90,000 oz of gold
112,590 t of zinc	92,579 t of zinc
10,843 t of nickel	7,515 t of nickel
22,451 t of lead	17,738 t of lead

#### \$1,324 M in Sales by Metal



Diversified in Established Jurisdictions<sup>1</sup>



Candelaria Ball Mill 2 motor replacement during Q3/19

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# Candelaria

#### **Step-Change Increase in Production and Cash Cost Reduction**

- 21% copper production increase and 25% cash cost reduction in Q3/19 over Q2/19 as copper head grade increased with more ore sourced from the open pit
- Q1-Q3/19 production of 107,100 t of copper at cash cost of \$1.60/lb
- 2019 guidance of 145,000 155,000 t of copper at \$1.60/lb
- copper production forecast to increase by 13% year-over-year in 2020 and cash cost to reduce by 9%

#### **Capital Reinvestment Projects Nearing Completion**

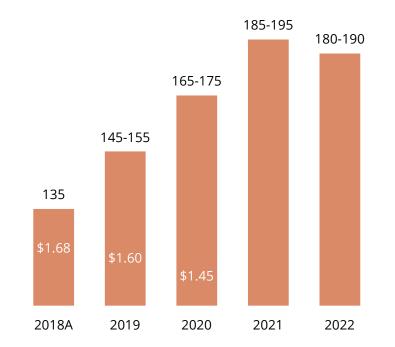
- South Sector underground mine successfully transferred to operations ahead of schedule in Q3/19
- mill optimization project forecast to be complete in Q1/20
- mine fleet reinvestment 95% complete with 81 of 85 pieces of equipment in service at end of Q3/19



New Candelaria CAT 793F haul trucks

#### **Copper Production & Cash Cost Outlook**

(100% basis; kt & \$/lb Cu, net of by-product credits)



Currently, 68% of Candelaria's total gold and silver production are subject to a streaming agreement and as such C1 cash costs guidance is based on receipt of \$408/oz and \$4.08/oz, respectively, in 2019 and \$412/oz and \$4.12/oz, respectively, in 2020 on the streamed portion of gold and silver sales.

### Candelaria Copper Production Profile<sup>1</sup> (kt)

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Contained copper in the Mineral Reserve estimate<sup>2</sup> has increased by 109%<sup>3</sup> and the production profile significantly improved since acquisition

1. Production shown on 100% basis and is based on the NI 43-101 Technical Reports dated November 28, 2018, November 30, 2017, and October 6, 2014 copies of which is are available on SEDAR under the Company's profile page. See also slide 29.

<sup>2.</sup> Refer to Press Release "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" dated September 5, 2019. See also slide 29.

<sup>3.</sup> Mine depletion included.

### Chapada

#### **Strong First Operating Quarter Post-Acquisition**

- acquisition closed July 5, 2019. Cash consideration paid was \$757M net of cash acquired and WC adjustments
- produced 17,645 t of copper, 34 koz of gold and 81 koz of silver at cash cost of \$0.35/lb copper in Q3/19
- Well positioned to achieve 2019 production guidance



Chapada processing facilities

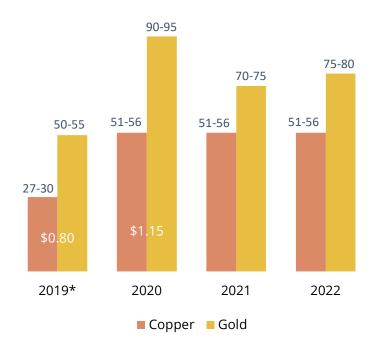
#### **Updated Mineral Reserves<sup>1</sup> & Technical Report**

- Mineral Reserves estimated to contain 1,757 kt of copper and 4.6 Moz gold. Includes new Mineral Reserves from ongoing exploration drilling in both the Sucupira and Baru NE deposits
- significant increase in exploration efforts are underway, largely focused on nearmine targets. Two drill rigs completed 6,960 m in Q3/19 on the Corpo Sul extension
- updated Technical Report based on current 24.0 Mtpa throughput
- evaluating options for mine and plant expansion

1. Refer to Press Release "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" dated September 5, 2019 and "Technical Report on the Chapada Mine, Goiás State, Brazil" dated October 10, 2019. See also slide 29.

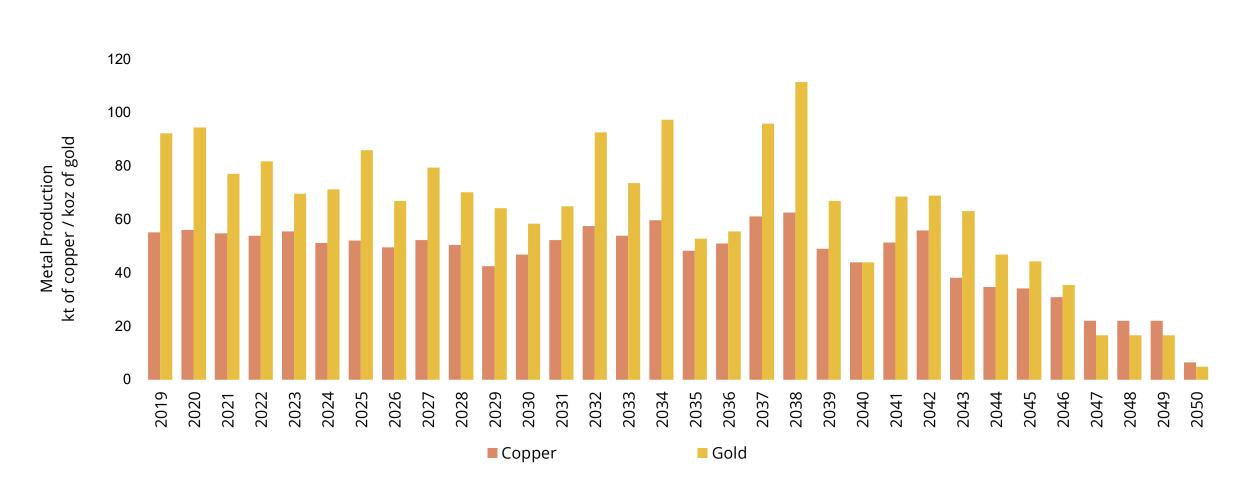
#### Copper, Gold Production & Cash Cost Outlook

(100% basis; kt Cu, koz Au & \$/lb Cu, net of by-product credits)



\* 2019 guidance based on period of Lundin Mining's ownership post closing of acquisition on July 5, 2019

### **Chapada Production Profile**<sup>1</sup>



1. Production shown is based on the NI 43-101 Technical Report dated October 10, 2019, available on the Company's website and SEDAR under the Company's profile page. See also slide 29.

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### **Neves-Corvo**

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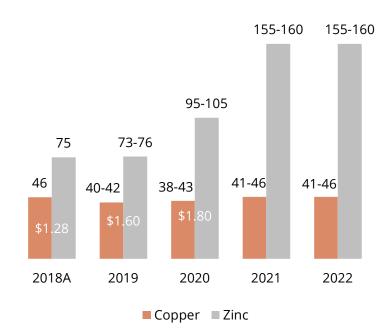
#### **Strong Mine and Mill Performance**

- 25% copper production increase and 15% cash cost reduction in Q3/19 over Q2/19 on improved copper recoveries and copper plant throughput
- on-track to deliver improved copper and zinc production guidance of 40,000 42,000 t and 73,000 – 76,000 t, respectively at cost of \$1.60/lb copper
- 2020 zinc production is forecast to increase 34% over 2019 guidance, as the Zinc Expansion Project (ZEP) is commissioned and ramped-up during the year
- Zinc production forecast to increase a further 30% in 2021 over 2020 with the ZEP contributing a full year of production

#### **Zinc Expansion Project**

- advancing in accordance with revised schedule and budget
- phased ramp-up targets commissioning the new SAG mill in Q1/20 with first ore in Q2/20
- underground approximately 70% complete at end of Q3/19 and continuing to achieve planned advance rates
- overall surface progress stood at approximately 43% complete at the Q3/19 quarter-end
- preproduction capital cost estimated of \$430M (€360M) including contingency. \$230M (€197M) has been capitalized through Q3/19

Copper, Zinc Production & Cash Cost Outlook (kt & \$/lb Cu, net of by-product credits)



### **Neves-Corvo – ZEP**

#### **Underground Construction in Q3/19**

- development of lower stopes underway with first sublevel accesses ongoing in lower Lombador orebody
- materials handling civil works progressed well and are nearing completion
- conveyor system mechanical and electrical equipment installations are well advanced
- installation of the underground jaw crusher commenced in October

#### Underground construction – November 2019



Installation of Transfer Station 2 ongoing

Crusher installed including grizzly and feeder

Electrical rooms being installed

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### **Neves-Corvo – ZEP**

#### Surface Construction in Q3/19

work continued with focus on:

Surface construction photos – November 2019

- mechanical and electrical installation of materials handling system
- SAG mill trunnion, gear ring and drive system installation complete
- all flotation cells, agitators and pumps in place

- backfill cyclone station installed
- tailings and water supply piping systems
- new zinc filtration building steel erection commenced



New flotation building piping installation

New mill building, conveyors and piping

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### Eagle

#### **Robust Operating Performance**

- Q1-Q3/19 production of 10,843 t of nickel and 10,671 t of copper at cash cost of \$2.54/lb nickel.
- Well positioned to achieve improved 2019 production guidance
- 2020 nickel production guidance forecast to increase 27% (3,500 t) and copper production forecast to increase 2,500 t (18%) over 2019 guidance

#### First Ore from Eagle East

- first ore was reached in late September and processed October 1<sup>st</sup>
- access ramp and vertical development for ventilation and emergency egress systems progressed well
- mine life extended to 2025 on updated Mineral Reserve estimate<sup>1</sup>

First ore from Eagle East at Humboldt Mill

#### Nickel, Copper Production & Cash Cost Outlook

(kt & \$/lb Ni, net of by-product credits)



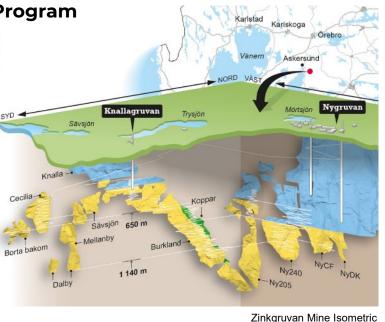
# Zinkgruvan

#### **On-Track to Deliver Full-Year Guidance**

- produced 16,796 t of zinc, 6,291 t of lead and 1,120 t of copper at a cash cost of \$0.42/lb zinc in Q3/19
- copper production was higher than recent quarters on a combination of higher mill throughput, head grade and recovery
- Zinc production is expected to be at a similar level in 2020 as 2019 while copper production in 2020 is forecast to increase to 3,000 4,000 t

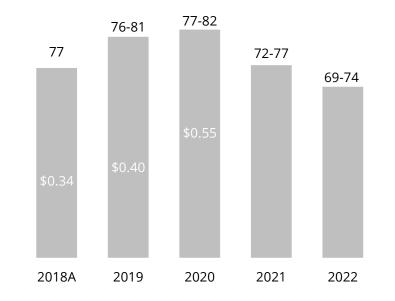
#### **Rejuvenated Exploration Program**

- Exploration continued on Dalby and Flaxen
- 2019 \$18M exploration program, includes 65,000 m of planned drilling
- to be followed by a \$15M program in 2020 with 50,000 m of drilling



#### Zinc Production & Cash Cost Outlook

(kt & \$/lb Zn, net of by-product credits)



# 2020 Capital & Exploration Expenditure Guidance

#### **Capital Expenditures**<sup>1</sup>

- Candelaria capital expenditures to decrease compared to 2018 & 2019 reinvestment years as low-risk initiatives to increase value of operation are completed
- Neves-Corvo capital expenditures estimated to total \$230M in 2020, of which \$155M is remaining preproduction capital for ZEP

#### **Sustaining Capital**

Candelaria (100% basis)	265	
Chapada	60	
Eagle	15	
Neves-Corvo	75	
Zinkgruvan	50	
Total Sustaining	465	
ZEP (Neves-Corvo) 155		
Total Capital Expenditures <sup>2</sup>	\$620M	

#### **Aggressive In and Near-Mine Exploration**

- \$65M to be invested in 2020 in exploration programs
- over 210,000 m of planned drilling
- \$20M at Candelaria focused on increasing Española open pit and extending underground mine lives
- \$15M at Zinkgruvan aimed at increasing Mineral Resources at Dalby
- \$10M at Chapada including an expanded 50,000 m drill program that will increase over 2019 program by +60%



Zinkgruvan – 2019 Dalby surface drilling program

1. During the production phase, waste stripping costs which provide probable future economic benefits and improved access to the orebody are capitalized to mineral properties. The Company capitalizes waste costs when experienced strip ratios are above the average planned strip ratio for each open pit phase under development.

<sup>2.</sup> Excludes capitalized interest. Amounts forecast above are on a cash basis and may vary from accrual based estimates.

# **Lundin Mining**

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High Quality Competitive Mines

- strong margins at all operations
- demonstrated operational excellence and culture of continuous improvement
- low-risk mining jurisdictions



Meaningful Scale Growth Oriented

- materially increasing copper and zinc production profile
- exploration upside and high-value expansion projects underway



#### **Financial Strength**

- proven track record for rigorous investment approach, focused on value creation
- strong balance sheet with low leverage

# Appendices

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# **Responsible Mining**

We recognize the important role of the metals we produce and are committed to mining these metals responsibly We demonstrate this commitment through living our core values of Safety, Respect, Integrity and Excellence in all aspects of our decision-making Lundin Mining has been reporting on our sustainability performance in a comprehensive, standalone document since 2011 <u>https://www.lundinmining.com/responsible-mining/sustainability-reports/</u>

lundin mining	2018 PERFORMANCE HIGHLIGHTS			
2018 sustainability Report	including Increase of women 🛛 🛃 out		outpei 🕹	consecutive year rforming our TRIF reduction (achieved 0.67 TRIF)
	REDUCTION OF LOST DAY SEVERITY RATE (SR) BY 14%, FROM 2017 TO 2018 (14 TO 12); AND BY 40% WHEN COMPARED TO 2016 LEVELS (20)	Y Reduction of Lost Work Days by 12% (1,094) from 2017 (1,223) and by 26% from 2016 (1,473)		Total community- investment expenditures of approximately \$12 million
	Renegotiated our Candelaria electrical power purchase agreement, achieving: Increase of renewables to 80% of the energy mix, starting in 2023		<b>OVERALL</b> <b>REDUCTIONS</b> in both energy intensity and GHG emissions intensity, per tonne rock mined from 2016 to 2018	
	Re-use of Lundin Mining's total water withdrawn by approximately 2.5 times	\$1.58 BILLION OUR GOODS WERE PROCU	.588 I (OR 95%) OF AND SERVICES IRED LOCALLY IONALLY (83%)	Co-hosting of "Lakeside Pride Askersund" by our Zinkgruvan mine, to celebrate diversity, inclusion and equality

# **Candelaria Mine Fleet Reinvestment**

# Significantly Increased Production Profile and Extended Mine Life on Exploration Success

- 20-year LOM when the open pit began production in 1994; most open pit equipment dated back to when operation opened
- Mineral Reserve estimate now supports mine life to 2040

#### New Equipment to Increase Haulage Capacity and Efficiency

- 38 new latest generation CAT 793F trucks which are faster, have larger capacity and lower operating costs
- change to hydraulic shovels in backhoe configuration

#### **High-Return Investment**

- in excess of 20% IRR expected
- \$220M total investment essentially complete



First New Candelaria Haul Truck



New Candelaria Excavators

# **Candelaria Mill Optimization Project**

#### Low-Risk Investments to Increase Metal Production, Reduce Costs and Improve Safety

- primary crusher motor upgrade
- ball mill re-powering; pebble circuit upgrade; cyclone and feed pump upgrades
- flotation circuit upgrades
- front-end desalination plant and pipeline improvements

#### Throughput Capacity Forecast to Increase ~4ktpd and Copper Recovery by ~1.7%

#### **High-Return Initiatives**

- in excess of 20% IRR expected
- \$80M total investment; \$15M planned in 2020 to complete the project
- on track for completion in Q1/20





Candelaria Mill

# **Candelaria Underground Mine Expansions**

#### Significant Underground Exploration Success Under Lundin Mining Ownership

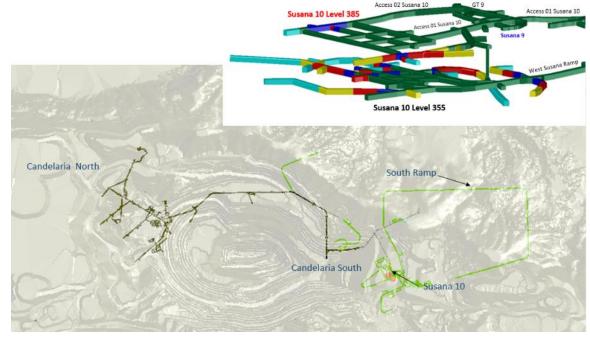
- total estimated Candelaria underground Mineral Reserves<sup>1</sup> now 148.2Mt at 0.85% copper
- Candelaria North and South Sectors continues to show significant exploration potential

#### Increasing Underground Production Rates

• permitted to expand Candelaria underground from 6ktpd to 14ktpd

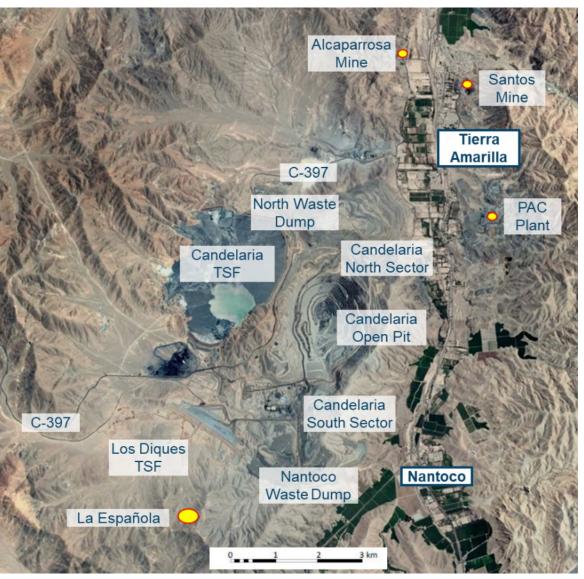
#### South Sector in Production Ahead of Schedule

- South Sector successfully transitioned to operations team in Q3/19
- South Sector achieving ~1,000 tpd and ramping to 4,000 tpd
- North Sector producing at ~11,500 tpd
- aim to operate both mines to ensure meeting the maximum combined permitted limit of 14,000 tpd



Candelaria Underground Sectors

### **Candelaria Complex** – Mineral Resources and Mineral Reserves<sup>1</sup>



Ownership	
Location	
Mine life	
2019 exploration budget	

P&P Copper Mineral Reserves M&I Copper Mineral Resources Inferred Copper Mineral Resources

P&P Gold Mineral Reserves M&I Gold Mineral Resources Inferred Gold Mineral Resources

P&P Silver Mineral Reserves M&I Silver Mineral Resources Inferred Silver Mineral Resources 80% Region III, Chile 22 years ~\$14M

3,604 kt contained (663,696 kt at 0.5%) 6,495 kt contained (998,635 kt at 0.7%) 534 kt contained (67,354 kt at 0.8%)

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2.7 Moz contained (663,696 kt at 0.1 g/t)
4.9 Moz contained (998,635 kt at 0.2 g/t)
0.3 Moz contained (67,354 kt at 0.3 g/t)

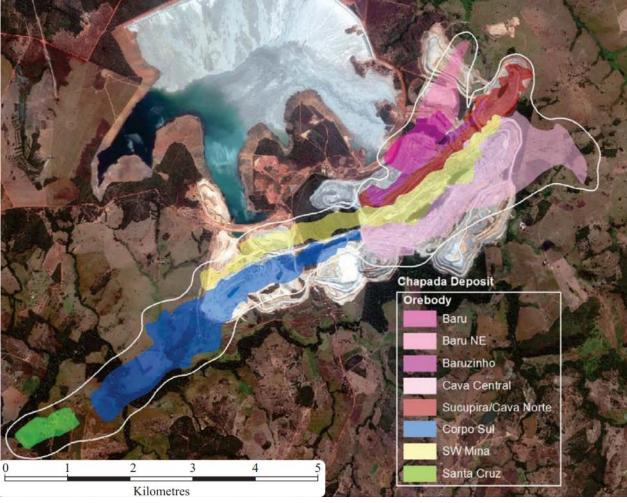
37 Moz contained (663,696 kt at 2 g/t) 66 Moz contained (998,635 kt at 2 g/t) 3.9 Moz contained (67,354 kt at 2 g/t)

1. For more information please refer to the Company's Technical Report for the Candelaria Copper Mining Complex, November 28, 2018 and the Company's news release dated September 5, 2019 entitled "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" on the Company's website (<u>www.lundinmining.com</u>). See also slide 29.

Candelaria Copper Mining Complex

### Chapada – Mineral Resources and Mineral Reserves<sup>1</sup>

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Chapada deposits and near-mine exploration targets

Ownership	
Location	
Mine life	
2019 exploration budget	

P&P Copper Mineral Reserves M&I Copper Mineral Resources Inferred Copper Mineral Resources

P&P Gold Mineral Reserves M&I Gold Mineral Resources Inferred Gold Mineral Resources 100% Goiás State, Brazil 31 years ~\$4M

1,757 kt contained (738,789 kt at 0.24%) 2,590 kt contained (1,090,829 kt at 0.23%) 360kt contained (162,769 kt at 0.22%)

4.6 Moz contained (803,984 kt at 0.18g/t)5.9 Moz contained (1,238,346 kt at 0.19 g/t)0.6 Moz contained (175,334 kt at 0.11 g/t)

1. For more information please refer to the Company's news release dated September 5, 2019 entitled "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" on the Company's website (<u>www.lundinmining.com</u>). See also slide 29.

### Eagle Mine – Mineral Resources and Mineral Reserves<sup>1</sup>

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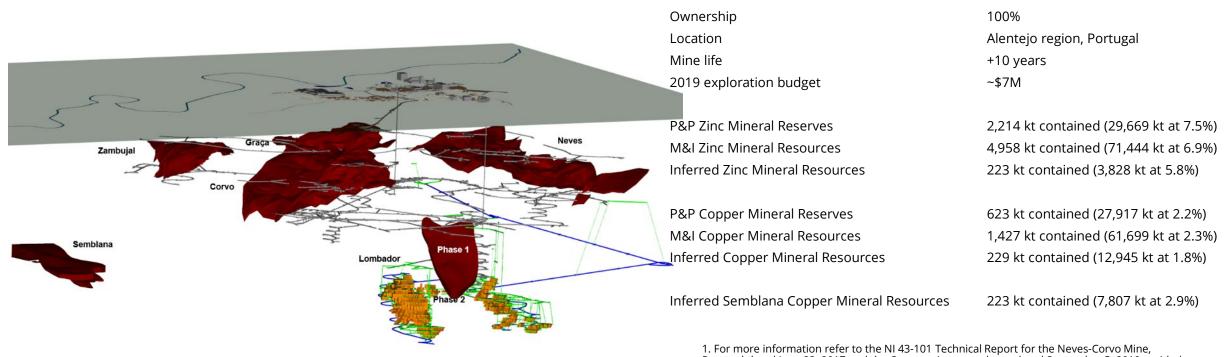
Eagle Mine

Ownership	100%
Location	Michigan, USA
Mine life	5 years
2019 exploration budget	~\$10M
P&P Nickel Mineral Reserves	108 kt contained (4,119 kt at 2.6%)
M&I Nickel Mineral Resources	132 kt contained (4,022 kt at 3.3%)
P&P Copper Mineral Reserves	91 kt contained (4,119 kt at 2.2%)
M&I Copper Mineral Resources	109 kt contained (4,022 kt at 2.7%)
Inferred Nickel Mineral Resources	12 kt contained (549 kt at 2.2%)
Inferred Copper Mineral Resources	8 kt contained (549 kt at 1.6%)
1 For more information please refer to the Compa	ny's Technical Report on the Fagle Mine dated

1. For more information please refer to the Company's Technical Report on the Eagle Mine dated April 26, 2017 and the Company's news release dated September 5, 2019 entitled "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" on the Company's website (<u>www.lundinmining.com</u>). See also slide 29.

### **Neves-Corvo – Mineral Resources and Mineral Reserves**<sup>1</sup>

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Schematic of Neves-Corvo Mine highlighting ZEP development and mining areas

1. For more information refer to the NI 43-101 Technical Report for the Neves-Corvo Mine, Portugal dated June 23, 2017 and the Company's news release dated September 5, 2019 entitled "Lundin Mining Announces 2019 Mineral Resource and Mineral Reserve Estimates" on the Company's website (<u>www.lundinmining.com</u>). See also slide 29.

### Zinkgruvan – Mineral Resources and Mineral Reserves<sup>1</sup>



Zinkgruvan Mine

Ownership	100%	
Location	Askersund, Sweden	
Mine life	+10 years	
2019 exploration budget	~\$18M	
P&P Zinc Mineral Reserves	803 kt contained (10,816 kt at 7.4%)	
M&I Zinc Mineral Resources	1,633 kt contained (20,275 kt at 8.1%)	
Inferred Zinc Mineral Resources	1,381 kt contained (19,785 kt at 7.0%)	
P&P Copper Mineral Reserves	55 kt contained (2,736 kt at 2.0%)	
M&I Copper Mineral Resources	105 kt contained (4,632 kt at 2.3%)	
Inferred Copper Mineral Resources	6 kt contained (293 kt at 2.1%)	
1. For more information please refer to the Company's Technical Report entitled NI 43- 101 Technical Report for the Zinkgruyan Mine, Central Sweden dated November 30		

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 For more information please refer to the Company's Technical Report entitled NI 43-101 Technical Report for the Zinkgruvan Mine, Central Sweden dated November 30, 2017 and the Company's news release dated September 5, 2019 entitled "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" on the Company's website (www.lundinmining.com). See also slide 29.

### NI 43-101 Compliance

Unless otherwise indicated, Lundin Mining Corporation (the "Company") has prepared the technical information in this presentation including Mineral Reserve and Mineral Resource estimates ("Technical Information") based on information contained in the technical reports and news releases (collectively the "Disclosure Documents") available under the Company's profile on SEDAR at www.sedar.com. Each Disclosure Document was prepared by or under the supervision of a qualified person ("Qualified Person") as defined in National Instrument 43-101 – Standards of Disclosure for Mineral Projects of the Canadian Securities Administrators ("NI 43-101"). For readers to fully understand the information in this presentation, they should read the technical reports identified below in their entirety, including all qualifications, assumptions and exclusions that relate to the information set out in this presentation which qualifies the Technical Information. Readers are advised that Mineral Resource estimates that are not Mineral Reserves do not have demonstrated economic viability. The Disclosure Documents are each intended to be read as a whole, and sections should not be read or relied upon out of context. The Technical Information is subject to the assumptions and qualifications contained in the Disclosure Documents.

The Technical Information in this presentation has been prepared in accordance NI 43-101 and has been reviewed and approved by Stephen Gatley, BSc (Eng), C.Eng. Vice President - Technical Services of the Company, a "Qualified Person" under NI 43-101. Mr. Gatley has verified the data disclosed in this presentation and no limitations were imposed on his verification process.

Mineral Resource and Mineral Reserve estimates of the Company are shown on a 100 percent basis for each mine. The Measured and Indicated Mineral Resource estimates are inclusive of those Mineral Resource estimates modified to produce the Mineral Reserve estimates. All estimates of the Company are prepared as at June 30, 2019. Estimates for all operations are prepared by or under the supervision of a Qualified Person as defined in NI 43-101 or have been audited by independent Qualified Persons on behalf of the Company.

Mineral Resources at Candelaria are estimated using metal prices of US\$3.16/lb copper and US\$1,000/oz gold and an exchange rate of USD/CLP 600. Mineral Reserves at Candelaria were estimated using metal prices of US\$2.75/lb copper and US\$900/oz gold and an exchange rate of USD/CLP 600. Mineral Resources at Chapada and Suruca SW copper-gold are estimated using metal prices of US\$4.00/lb copper and US\$1,600/oz gold and an exchange rate of USD/BRL 3.95. For the Suruca gold only Mineral Resource estimates at Chapada a gold price of \$1,500/oz has been used and an exchange rate of USD/BRL 3.50. Mineral Reserves at Chapada were estimated using metal prices of US\$3.00/lb copper and US\$1,250/oz gold and an exchange rate of USD/BRL 3.95. Mineral Resource for Neves-Corvo and Semblana have been estimated using metal prices of US\$2.75/lb copper and US\$1.00/lb zinc and an exchange rate of EUR/USD 1.25. The Semblana Mineral Resource has been reported using the same metal prices and exchange rates as Neves-Corvo. Mineral Resources at Cinkgruvan have been estimated using metal prices of US\$2.75/lb copper, US\$1.00/lb zinc and US\$1.00/lb lead and an exchange rates of USD/SEK 7.00. Mineral Resources and Mineral Reserves at Eagle and Eagle East have been estimated using metal prices of US\$2.75/lb copper and US\$8.00/lb nickel. Refer to the Company's news release dated September 5, 2019 entitled "Lundin Mining Announces 2019 Mineral Resource and Reserve Estimates" on the Company's website (www.lundinmining.com).

For further Technical Information on the Company's material properties, refer to the following technical reports, each of which is available on the Company's SEDAR profile at www.sedar.com:

Candelaria: technical report entitled Technical Report for the Candelaria Copper Mining Complex, Atacama Region, Region III, Chile dated November 28, 2018. Chapada: technical report entitled Technical Report on the Chapada Mine, Goiás State, Brazil dated October 10, 2019 Neves-Corvo: technical report entitled NI 43-101 Technical Report for the Neves-Corvo Mine, Portugal dated June 23, 2017. Zinkgruvan: technical report entitled NI 43-101 Technical Report for the Zinkgruvan Mine, Central Sweden dated November 30, 2017. Eagle Mine: technical report entitled Technical Report on the Eagle Mine, Michigan, U.S.A. dated April 26, 2017.



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