

Sotkamo Silver AB Strategy 2021-2025

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What is Sotkamo Silver?

- Supplier of metal concentrates to enable the change into the future world
- Part of the value chain with selected and reputable partners
- Underground mine and efficient supply chain enable small footprint
- Committed to responsibly improve and elaborate its performance





SOTKAMO Company facts

- Sotkamo Silver AB is listed in NGM Equity stock exchange in Stockholm and parallel in main list of Nasdaq Helsinki.
- Market cap ca. 50 million euros, 179 977 732 shares.
- Four largest shareholders (as per end of November 2020)
 - Hexof Oy 6.3 %
 - Ilmarinen Mutual Pension Insurance Co. 3.3 %
 - Timo Lindborg (through company) 2.7%
 - Finnish Minerals Group Ltd. 1.5%
- Total of 16 806 shareholders of which ca. 80 % from Finland owning ca. 90 % of the shares.
- Sotkamo Silver Oy is a fully owned subsidiary of Sotkamo Silver AB.



Published Q3/2020 (YTD) results

- Net sales was 130 MSEK (YTD 287 MSEK)
- EBITDA was 58 MSEK (YTD 67 MSEK)
- EBIT was 40 MSEK (YTD -43 MSEK)
- Milled tonnes were about 142 000 (YTD 343 000)
- The production in the concentrates was about
 - 433 000 ounces silver (YTD 1 231 000),
 - 923 ounces gold, (YTD 2 996),
 - 419 tonnes lead (YTD 1 202) and
 - 818 tonnes zinc (YTD 2 497)
- The annual production guidance for 2020:
 - To mill 480 540 kt of ore.
 - Correspondingly, the silver production is forecasted to be 1.4 1.7 million ounces.



Story of the Silver Mine – the flagship of the Company

- The genesis of the Silver Mine deposit dates to the volcanic activity which took place ca. 2.8 billion years ago.
- The deposit was discovered in 1980 and after almost a 40 years of persistent development the production was started in March 2019.
- Today, Silver Mine is the foundation of Sotkamo Silver to become "the best in class" exploration and mining company with a commitment to:
 - Be responsible and,
 - Be local
- to contribute for the benefit of the society and community.





SOTKAMO Our Mission and Values

Our Mission "Discover, Mine and Deliver metals and value"

We believe in being Responsible and Local





being Responsible and Local

We want to make the **Responsibility** into a new norm.

Sustainability, Transparency, Respect and Reliability

are natural elements of our daily behaviour as a corporate and human beings. By being Local, we want to contribute to the well-being of our stakeholders:

Employees

Neighbors

Local community

Society

by delivering metals and creating jobs and resulting in shareholder value.





Social license and Responsiblity

- Strong local community support and acceptance.
- · Environmental collaboration with stakeholders.
- Continuously improvement of the process to improve the material efficiency.
- Committed to the Finnish Towards Sustainable Mining –standard (Network of Sustainable Mining).
- Committed to implement the management systems for Quality, Environment and Occupational Health and Safety.
- An underground operation with a small footprint.



Commitment to Sustainability

Company will:

- Implement an **Energy-Efficiency Initiative** among its key partners to reduce overall energy consumption per produced silver ounce
 - Increase the share of renewable energy
 - Define its CO₂ footprint of the production and road map to reduce CO₂ emissions
- Promote recycling and principles of circular economy in its activities
- Rehabilitate the mine area including reforestation and restoration



Steps to the future success

The long-term success and development of the Company will be built on the key projects:

- Project 700 to extend the Silver Mine's life of mine until 2030
- Project REX, Regional Exploration, to discover and develop new exploitable ore deposits in the Kainuu region.

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Project 700 - Mining continues until year 2030

Project 700: 10 MEUR investment to increase life of mine (LOM) until 2030, expenditure in phases over a period of 5-7 years.

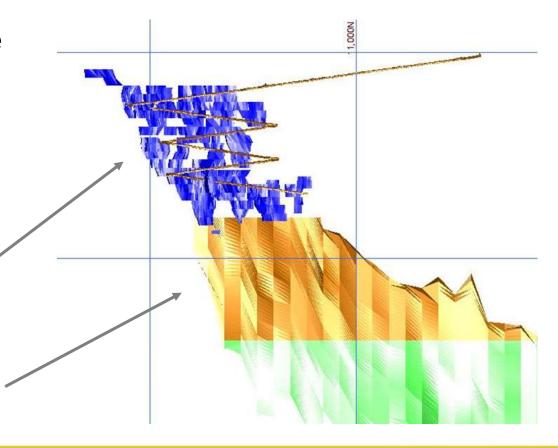
The works include the core drilling and the development of the mine decline and infrastructure.

Current LOM of the Silver Mine is based on Ore Reserve down to 400-level.

Ore Reserve 2.75 Mt (as at day one)

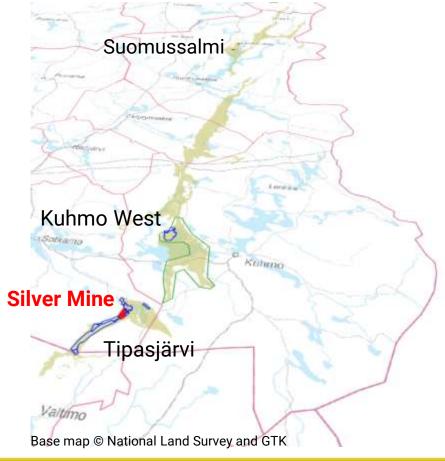
Project 700 and planned core drilling program

Targeted Ore Reserve tons min. 2.25 Mt





Project REX - creating opportunities



Regional Exploration and Development:

- To develop an attractive and explorative portfolio of mineral assets, and
- To discover new exploitable ore deposits in the Kainuu region.

Our homebase:

Tipasjärvi

Our vicinity:

Kuhmo West and Suomussalmi



Metal production

- Metal concentrates produced at the Silver Mine are delivered to the smelters at Rönnskär, Sweden, and Kokkola, Finland, for refining by Boliden AB.
- Ca. 3 100 tons of *silver-gold-lead concentrate* per annum
 - 1.5 million ounces of silver (45 tons)
 - 4 500 ounces of gold (140 kg)
 - 1 700 tons of lead
- Ca. 6 500 tons of *zinc-silver concentrate* per annum
 - 3 600 tons of zinc
 - 100 000 ounces of silver (3 tons)













Silver and gold in the electrification of the modern society

Electric vehicles
Renewable energy
Photovoltaics
Smartphones



Silver and gold in the electrification of the modern society:

Annual demand of silver is ca. 1 000 million ounces; more than 50 % is industrial demand dominantly in Photovoltaics and Automotives.

Electric vehicles (EVs) and Renewable Energy

- Silver and gold in semiconductors, sensors, harnesses, controls, displays, etc.
- Silver-carbon anodes in the lithium metal solid-state batteries
- Concentrated solar power, wind turbines and new battery technologies

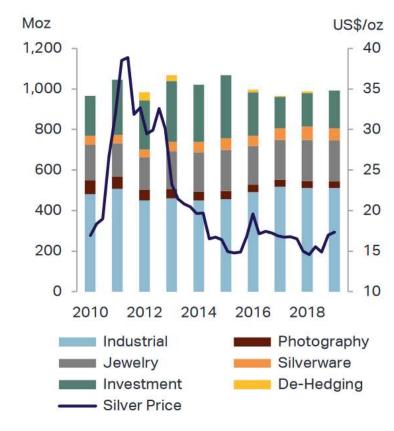
Photovoltaics are a leading option in the renewable energy

 Silver has the best conductivity and reflectivity of metals and is used in silicon cells

Smartphones and other devices

Silver nano-wires replace indium tin oxide in the touchscreens

Global demand of Silver



Source: Metals Focus, Bloomberg



Zinc and lead are vital for many areas of the human life ...

..and the most used non-ferrous metals after aluminum and copper.

ZINC – global mine production 12.9 Mtpa

- Galvanizing (50%)
- Zinc Alloying (17%)
- Brass and bronze (17%)

LEAD – global mine production 4.7 Mtpa

- Widely used in lead-acid batteries (80%)
- Rolled and extruded products (6%)
- Pigment and corrosion resistant materials (5%)
- Efficient recycling, usage 12.2 Mtpa

Maintenance-Fre HI-POW





Lead - the mother of all battery metals

- Global primary lead production was 4.7
 Million tons in 2019, while total metal
 production and usage was 12.2 Million
 tons. (1)
- 80% of the global production is used in manufacturing of lead-acid batteries. ⁽¹⁾
- As a comparison, global lithium production in 2019 was 77 000 tons and usage 57 000 tons. (2) Ca. 54% of lithium was used in the rechargeable batteries. (3)

(1) Source: International Lead and Zinc Study Group

(2) Source: USGS MINERAL COMMODITY SUMMARIES 2020

(3) Source: Roskill Market Report

"Even most pure electric vehicles use lead-acid batteries for Starting, Lightning and Ignition purposes"

"Overall demand for lead in automotive batteries will continue to grow"

"Lead should be a core component of future energy storage, given its proven technical track record, relatively low cost and security of supply based on an already high recycling rate."

"COLUMN-The battery metal no one wants to talk about" By Andy Home, Reuters



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