Invest Uzbekistan

Investment Proposal:
Production of Ultra-Clean Copper

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Production of ultra-pure copper

Industry

Color metallurgy and electronics

Why it's worth investing in the project

✓ ***Global demand for ultra-pure copper is rising***, particularly driven by quantum computing projects, space programs, and renewable energy initiatives.

For example:

- Copper grades 5N+ and above provide the high-frequency signal transmission essential for semiconductors and integrated circuits. With electronics projected to reach $4.4 trillion by 2027, demand for ultra-pure copper is accelerating.
- The aerospace sector, valued at $850 billion in 2024, uses copper to shield EMI and weight-sensitive electrical systems.

✓ ***Increase in added value***. The primary buyers of Uzbek copper (China, EU) are converting it into super-pure copper with a 3-10 times higher profit margin. By producing 5N+ copper, Uzbekistan is capitalizing on this advantage by significantly increasing its added value.

Market

According to the International Copper Association, global demand for ultra-pure copper in the electronics and energy sectors is projected to grow at a 7.2% CAGR through 2030.

According to the Future Market Report, the market value is estimated at approximately $13.75 billion in 2025, with projections indicating growth to reach around $26.5 billion by 2033. This corresponds to a compound annual growth rate (CAGR) of approximately 8.5%.

Project objective

The core concept centers on the first phase of mass-producing high-quality oxygen-free copper (OFC) and 5N+ copper for the electrical engineering industry (cables, windings). While this represents a less competitive and technically demanding market, it still offers significantly higher profit margins compared to conventional cathode materials.

Project products

The company plans to produce over 25,000 tons of oxygen-free copper (OFC) and 5N+ copper for the electrical industry each year, with one-third of the output destined for export.
We invite companies with cutting-edge technologies in non-ferrous metallurgy and potential investors to serve as strategic partners and project initiators.

Economic indicators:

Cost: $107.1 million.

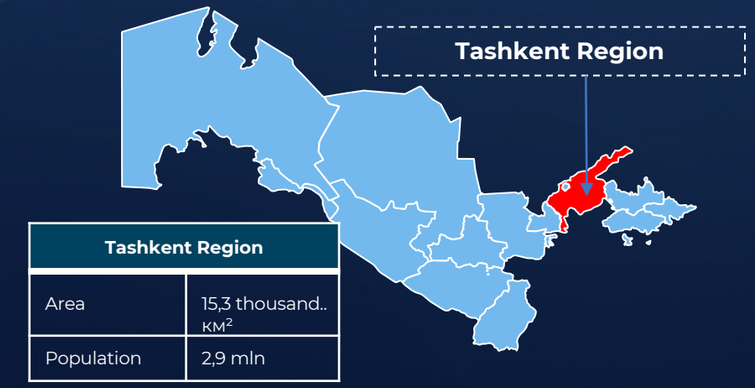
Revenue: $259.25 million per year

NPV: $109.5 million.

IRR: ~ 39,9%

DPP: 3,1 year

Project placement



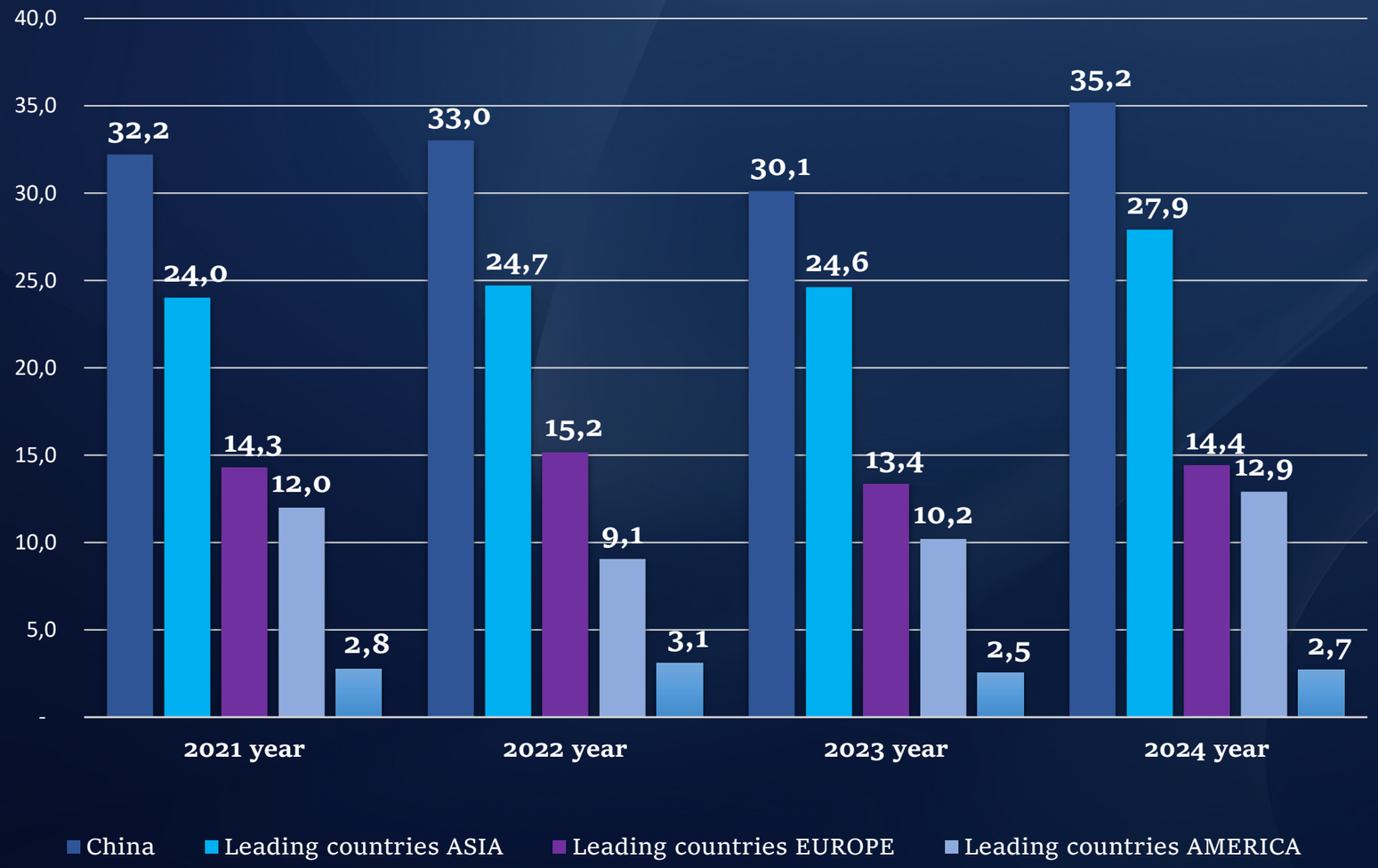
Tashkent Region	
Area	15,3 thousand.. KM^2
Population	2,9 mln

Project initiator

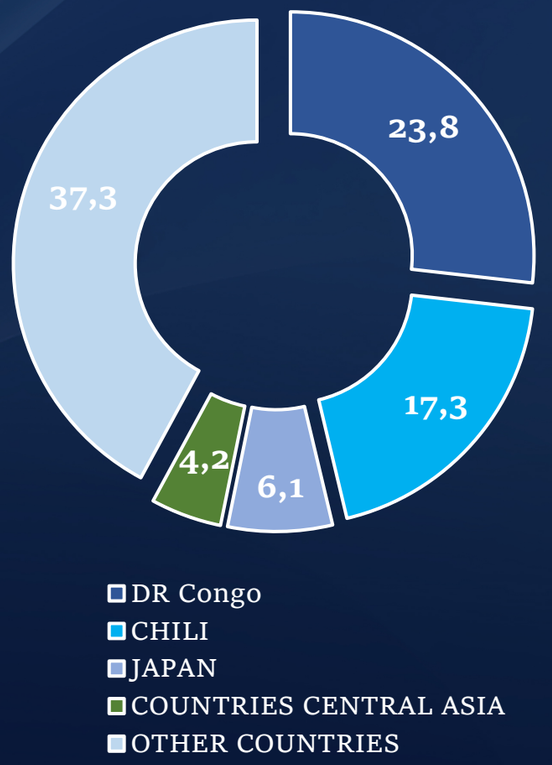
JSC "Almalyksky GMK"
Created in 1947
Revenue reached 27.3 trillion som annually (up 20.3%).
Exports totaled 610.8 million US dollars (up 11.1%).).

Production of ultra-pure copper

Global copper imports (billion USD)



Top Copper Exporters in 2024 (Billion USD)

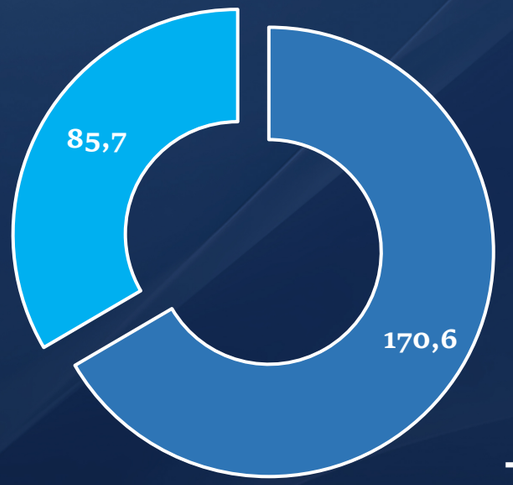


Production of ultra-pure copper

Product nomenclature

	Products	Annual capacity (tonnes)	Average selling price (USD/ton))	Revenue (in millions of USD)
1	**Oxidized copper** (OFC)	12 500	8 000	100,0
2	5N+ grade copper	12 500	12 500	156,25

Sales Plan



Total: *$256.25 million.*

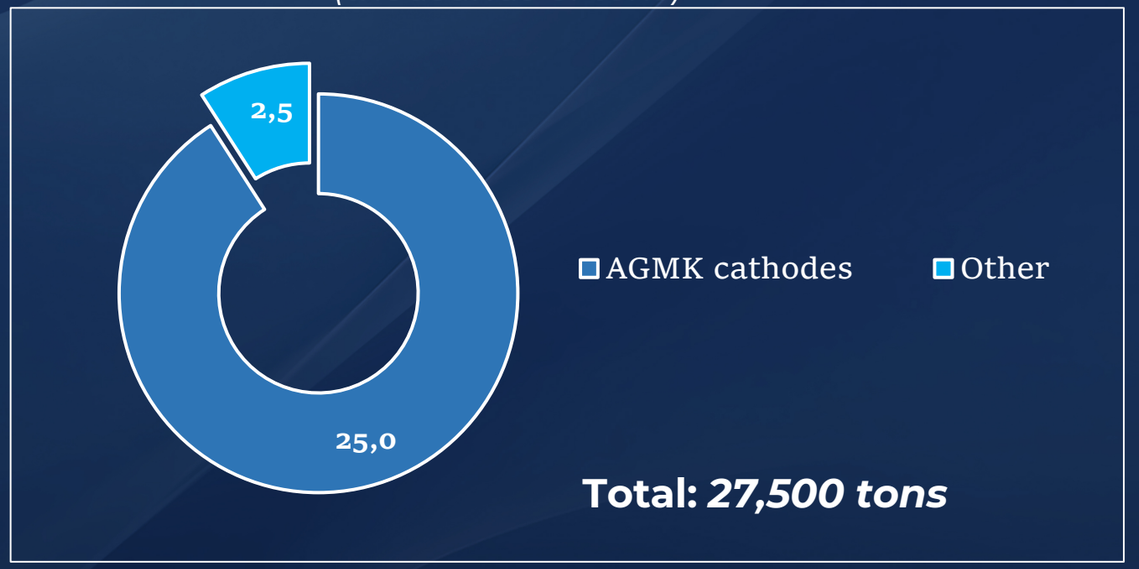
Production of ultra-pure copper

Key technological operations in production

1. Mining and crushing of ore – open-pit mining, primary crushing
2. Crushing and flotation – production of concentrate
3. Smelting and refining – charge → ladle → cathode copper
4. Electrolysis – Production of high-purity cathode copper
5. Extraction of by-products-sulfuric acid, extraction of precious metals

Raw material consumption

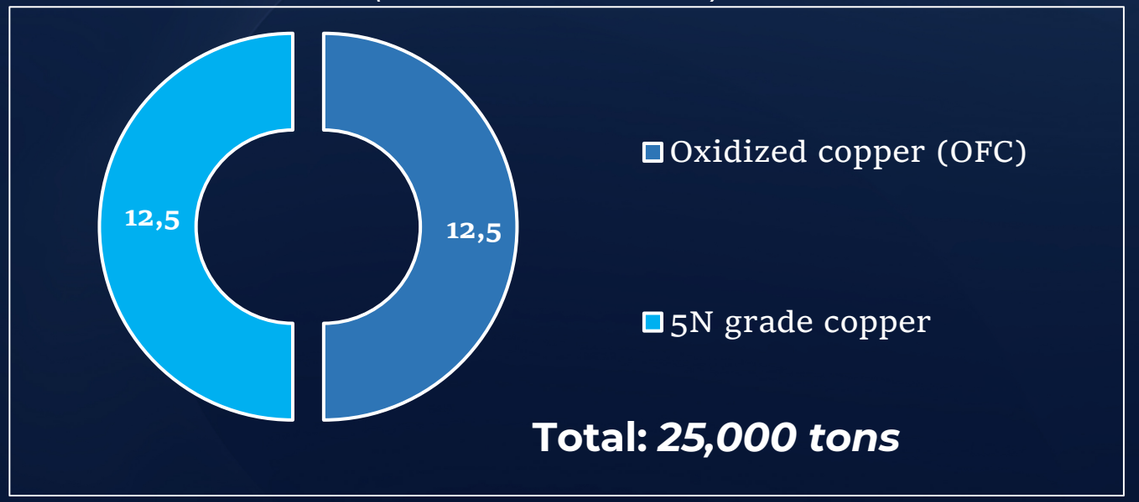
(thousands of tons)



Total: *27,500 tons*

List of finished products

(thousands of tons)



Total: *25,000 tons*

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Production of ultra-pure copper

The total project cost includes the cost of technological equipment, buildings and structures, intangible assets, and other assets, as well as initial working capital.

The project requires the introduction of appropriate equipment and technologies.

The project's return on investment is projected to be.

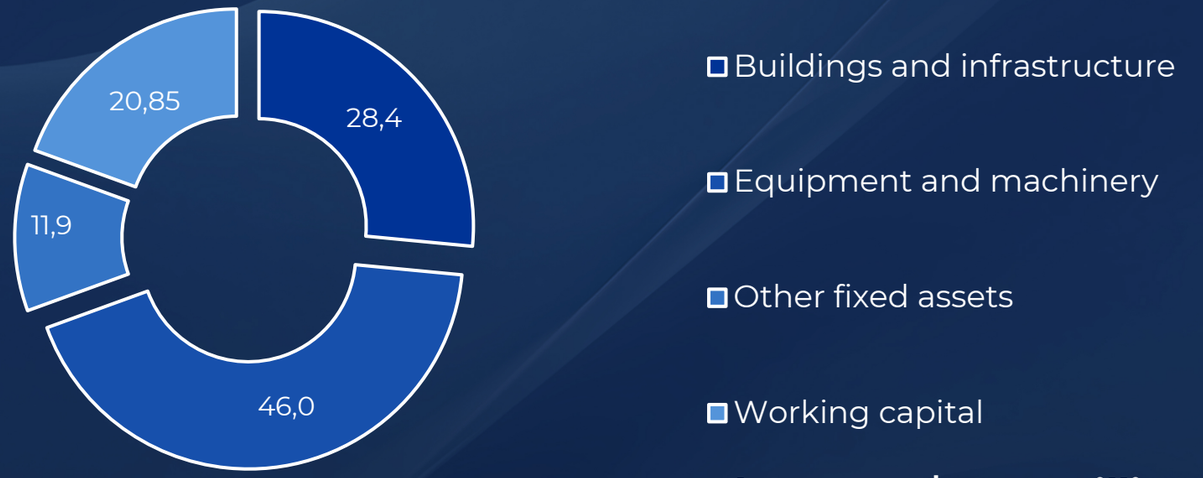
($256.25 million / $107.1 million) = 2.4

To implement the project, it is necessary to attract technology and direct investment, depending on their availability.

The financing scheme presented in this presentation is preliminary.

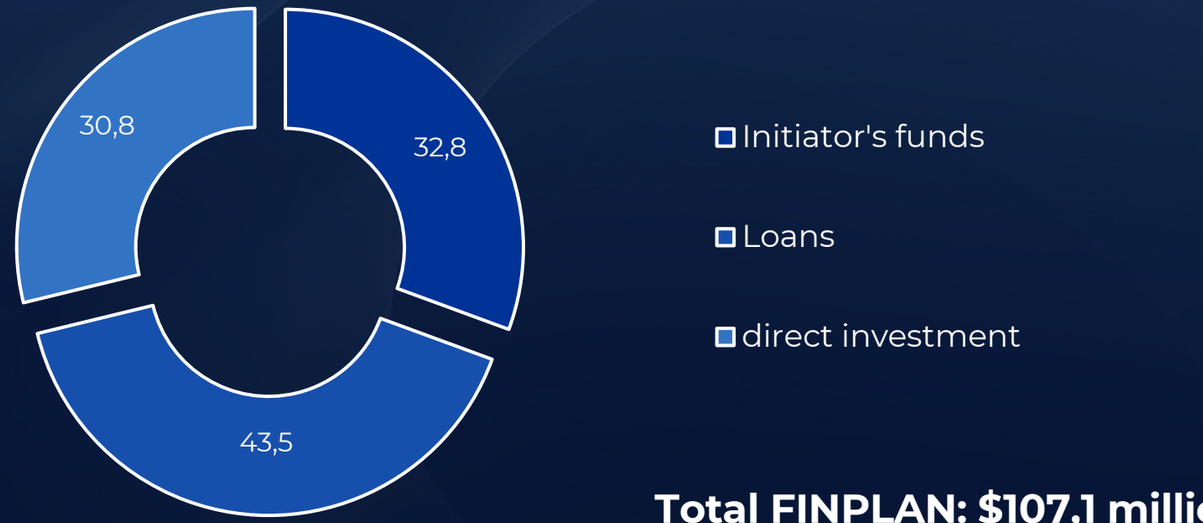
The project's funding structure will be finalized after discussions with the investor.

Project cost *(in millions of dollars)*



Total CAPEX: $107,1 million

Financing Plan *(in millions of dollars)*



Total FINPLAN: $107,1 million

Production of ultra-pure copper

The project involves producing oxygen-free copper (OFC) and 5N+ copper for the electrical industry, with one-third of the output intended for export.

The total annual revenue at full capacity for this project phase is projected to reach $256.25 million.

Revenue *(in millions of dollars)*

Total sales: *$256,3 million.*

The main components of the project's operating costs are raw material expenses, labor costs, and energy costs.

The total annual cost of the project's financial and operational activities at full capacity will be $230.7 million.

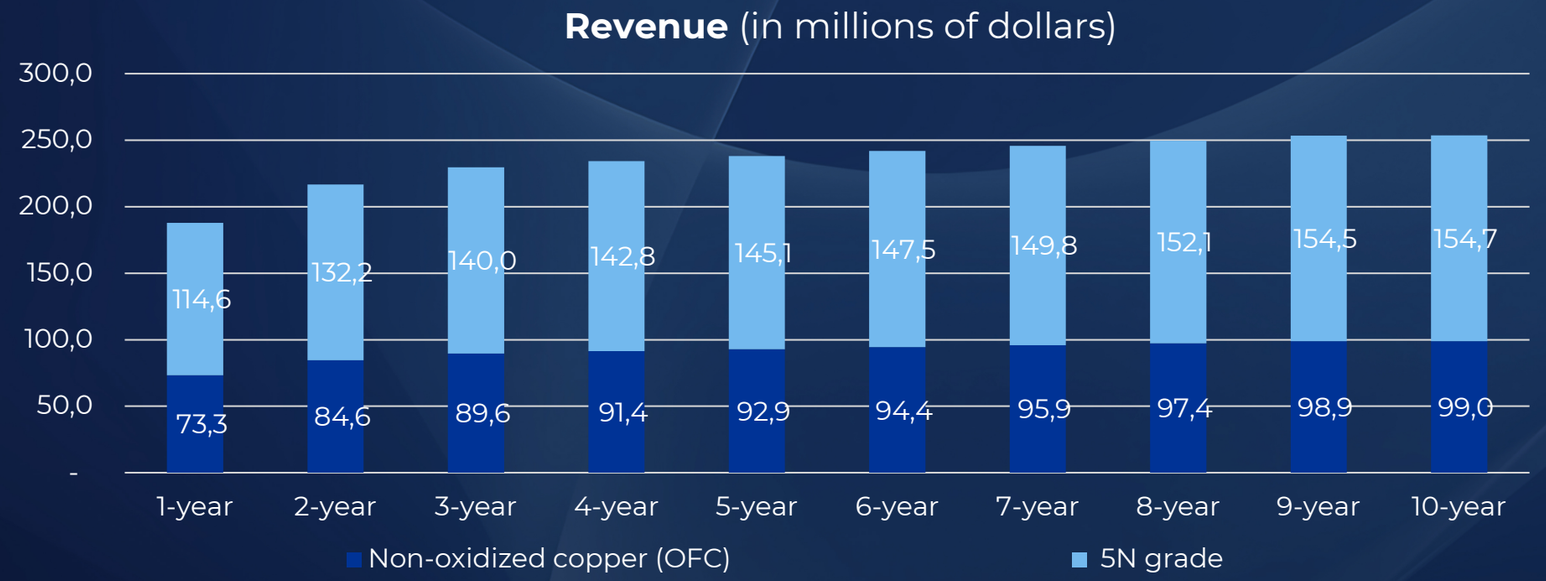
Project Operating Profitability

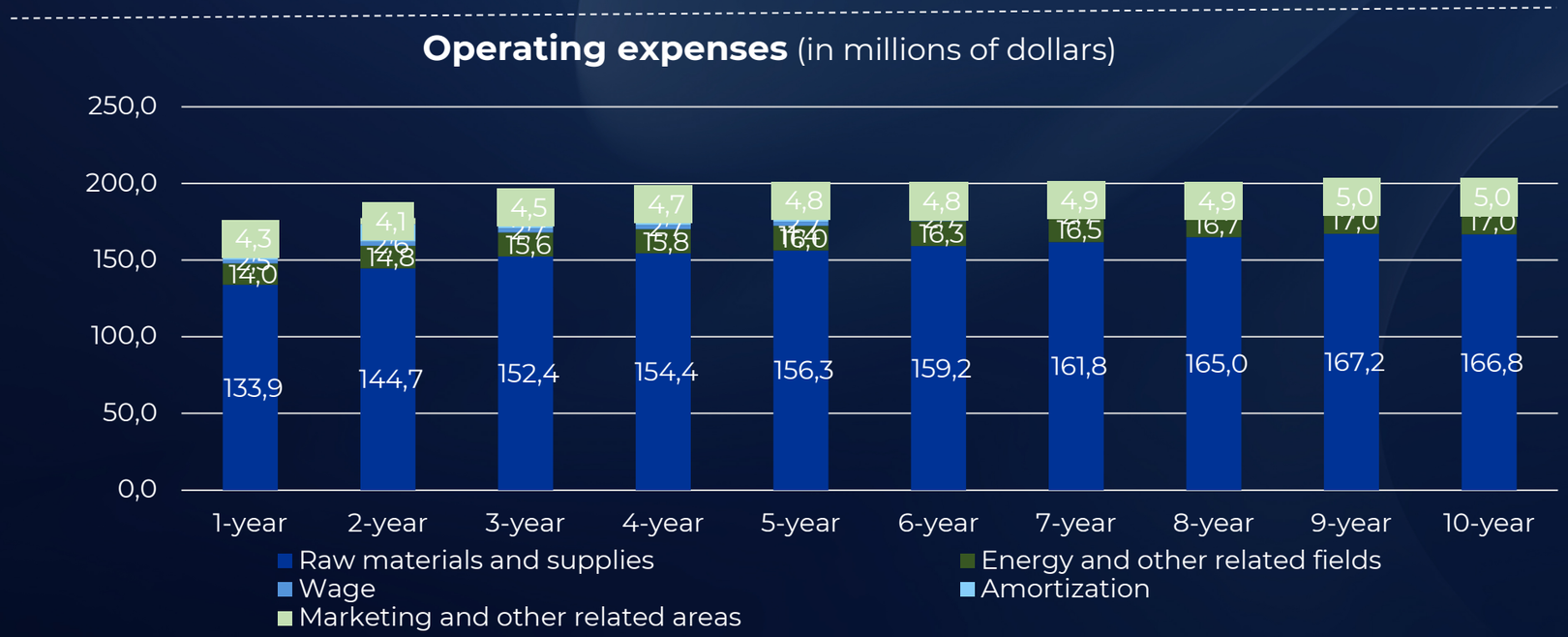
($256.25 million – $230.7 million) / $230.7 million = 11.1%

Cost *(in millions of dollars)*

Total OPEX: *$230.7 million*

Production of ultra-pure copper





The project's revenue comes from the sale of oxygen-free copper (OFC) and 5N+ copper.

Annual total revenue at full capacity is projected to reach $256.25 million.

The project's capacity is conservatively estimated at 6 years of operation.

The main components of the project's operating costs are raw materials, energy expenses, and labor costs.

All operational expenses will be determined through competitive market analysis, with the resulting savings being allocated to investors and used for employee incentives and outsourcing company bonuses.

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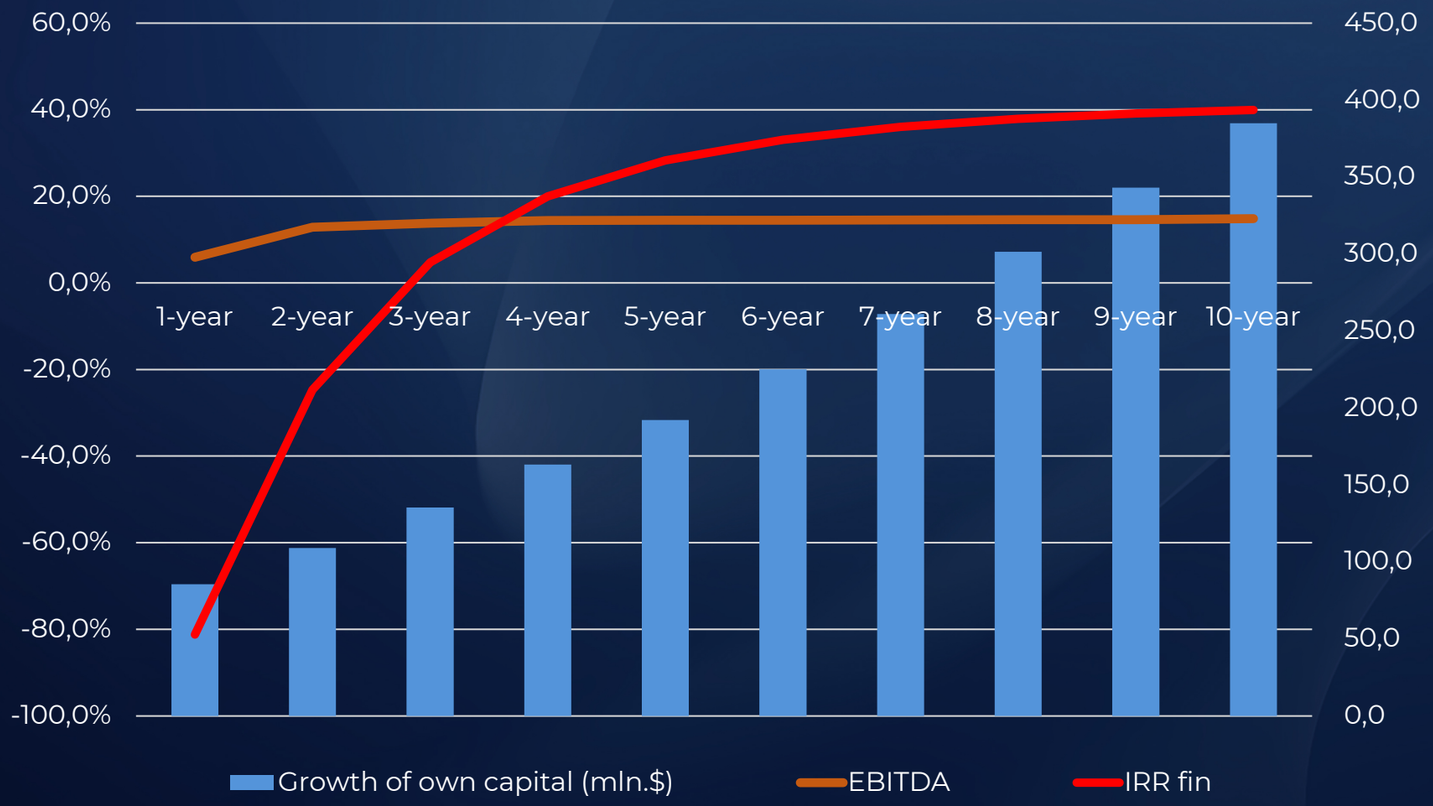
Project financial indicators *(10-year period)*

Profitability (in millions of dollars)



Cost: $107.1 million.

Revenue: $256.25 million per year

NPV:$109.5 million

IRR: ~ 39,9%

DPP: 3,1 year

The project demonstrates strong profitability and market demand, positioning it as an attractive investment opportunity.