
Company Valuation

Subject company: **PJSC ALROSA**

Higher School of Economics

Barkhatov Stepan

Ermolova Yana

Martynenko Maria

Matevosova Anna

Pirumyan Simon

Valyaeva Anna

ALROSA IS CURRENTLY UNDERVALUED BY 15.9% COMPARED TO ITS STRONG FUNDAMENTALS

OUR ANALYSIS BASIS



Markets are now pricing in earnings decline in 2020



Global supply chains and production have been impacted



Strong fundamentals of the company



Expected recovery on the key end-demand markets

15.9%

UPSIDE POTENTIAL

72.6 RUB

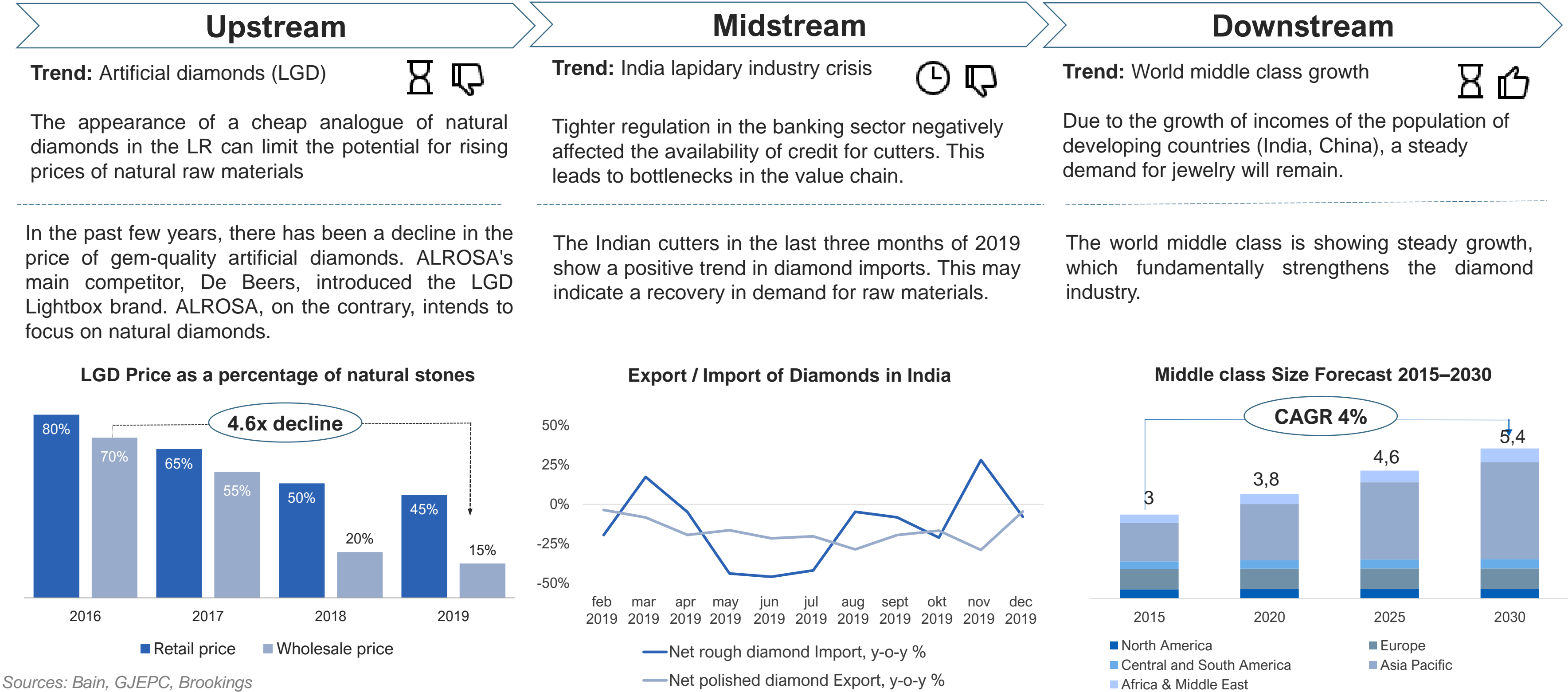
TARGET PRICE

ROUTE OF DIAMOND ACROSS VALUE CHAIN



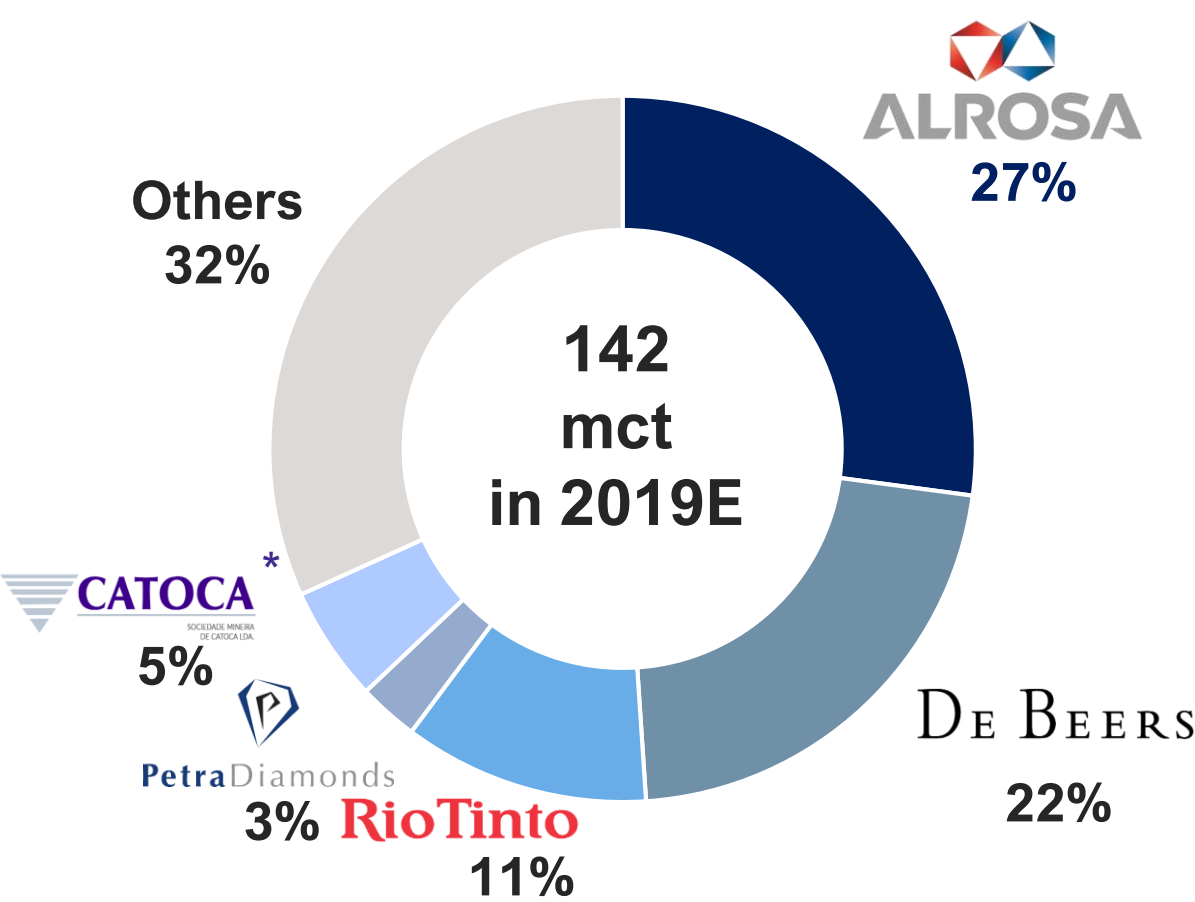
Source: Bain, De Beers, Team Analysis

THE DIAMOND INDUSTRY SHOULD BE CONSIDERED INTEGRATED DUE TO THE HIGH INTERCONNECTEDNESS OF VALUE CREATION ELEMENTS

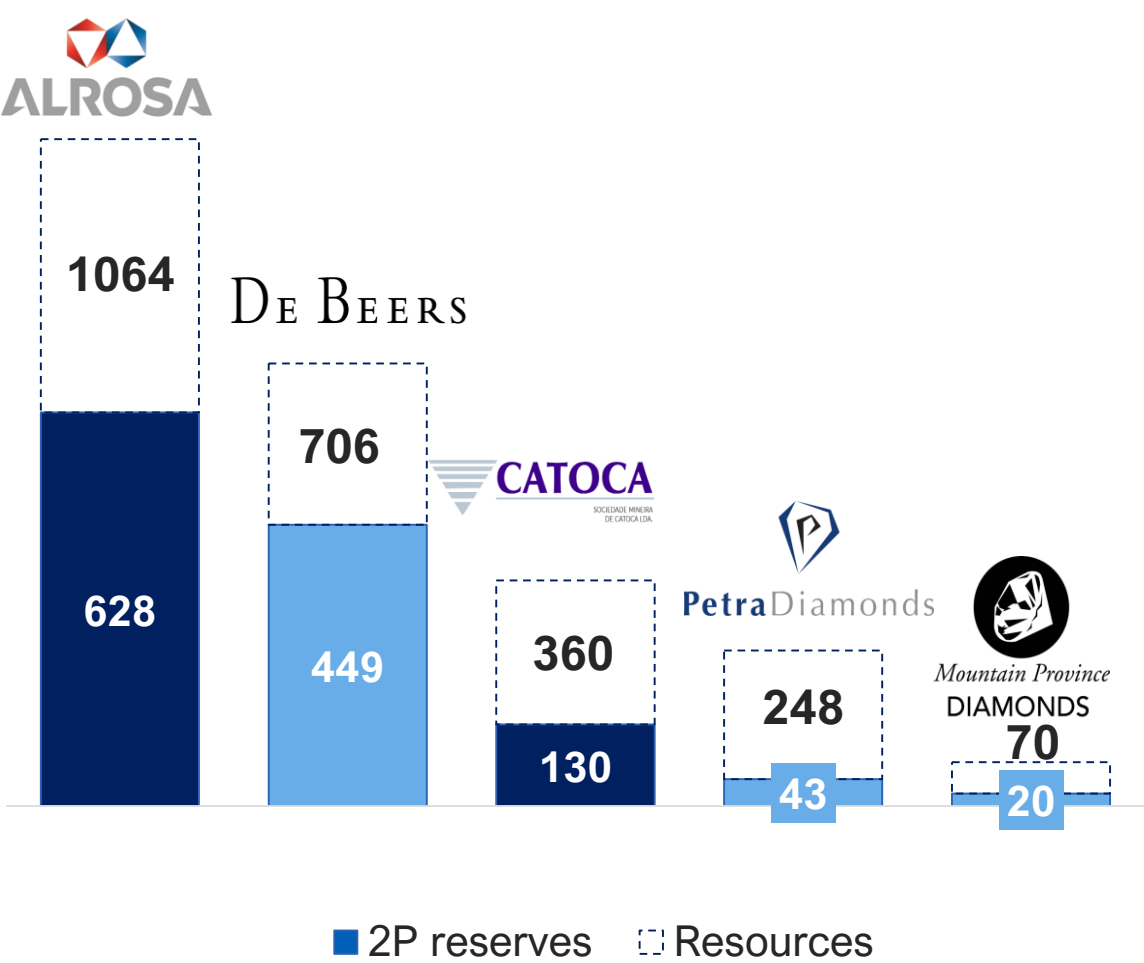


MARKET POSITION

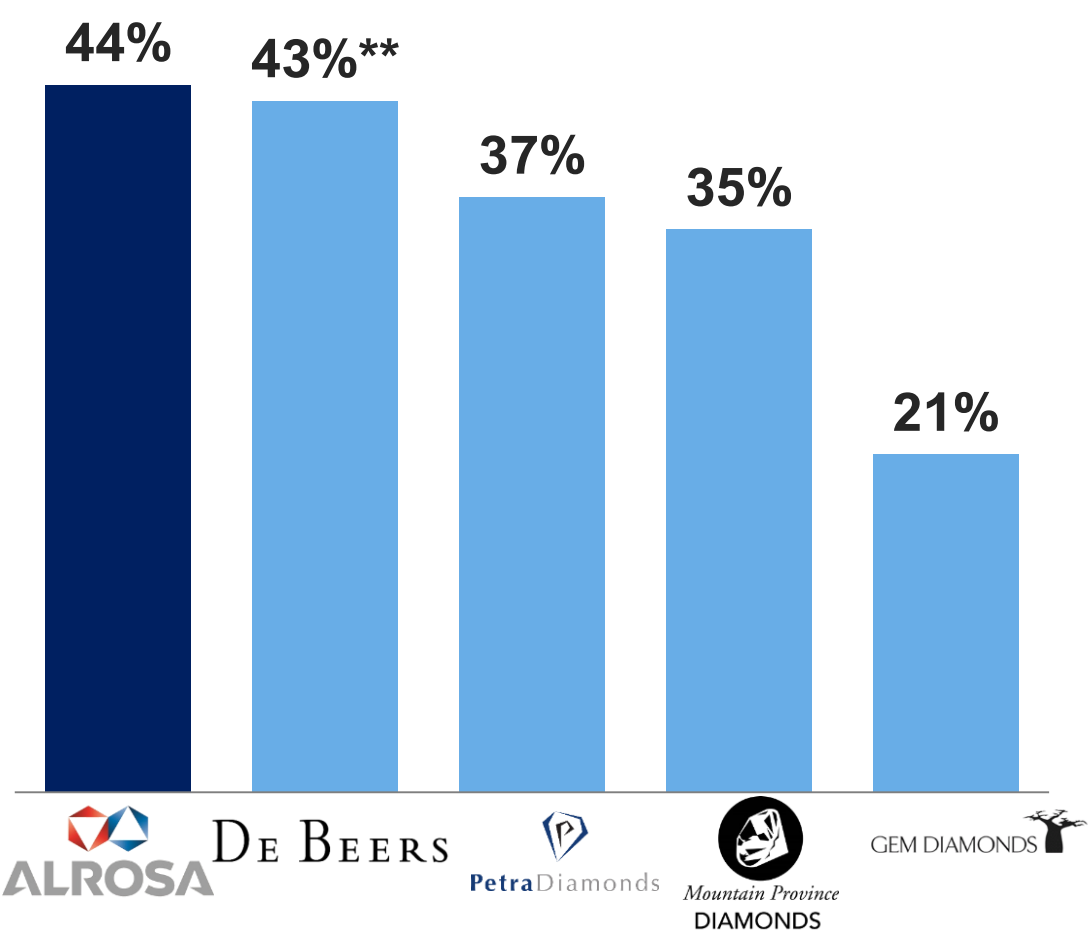
Global rough diamond production in 2019E,%



ALROSA vs peer in Resources, mct



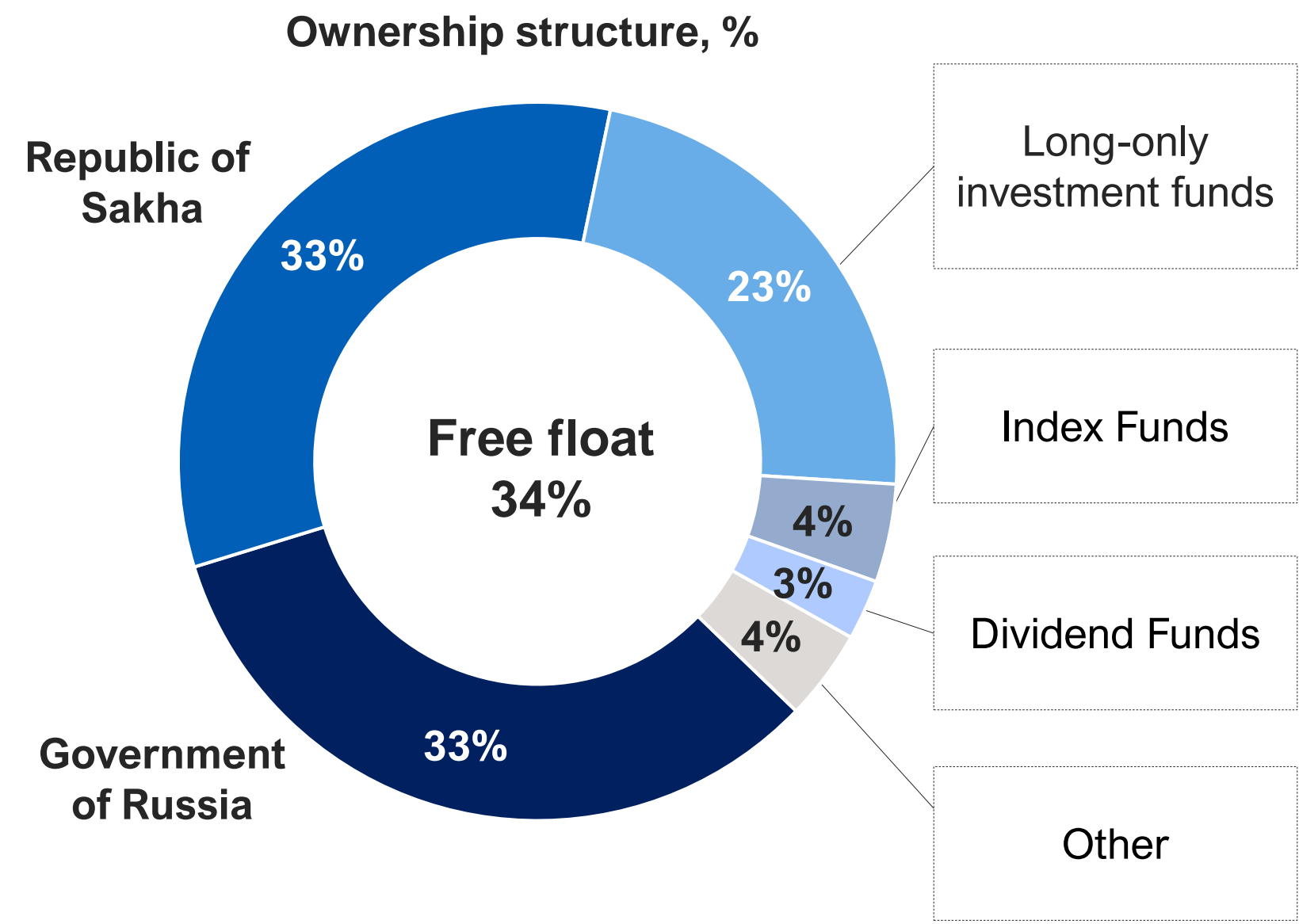
EBITDA Margin in 2019E, %



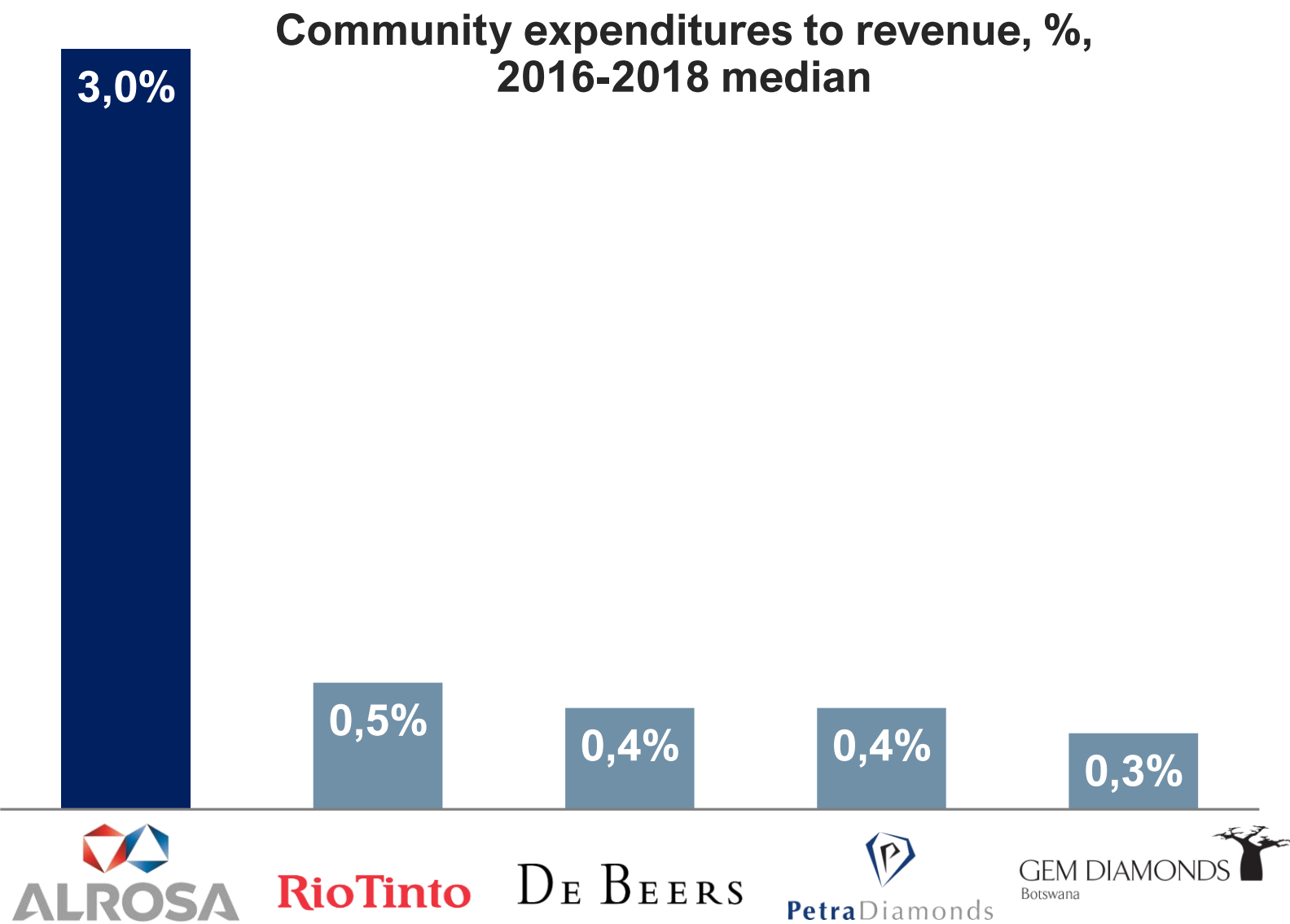
Sources: Team Analysis, Company Data, Capital IQ

ALROSA IS OWNED BY FEDERAL AND REPUBLICAN GOVERNMENT, WHICH IMPOSES ADDITIONAL COSTS

Federal and regional government collectively own a 66% stake in the company and control the supervisory board

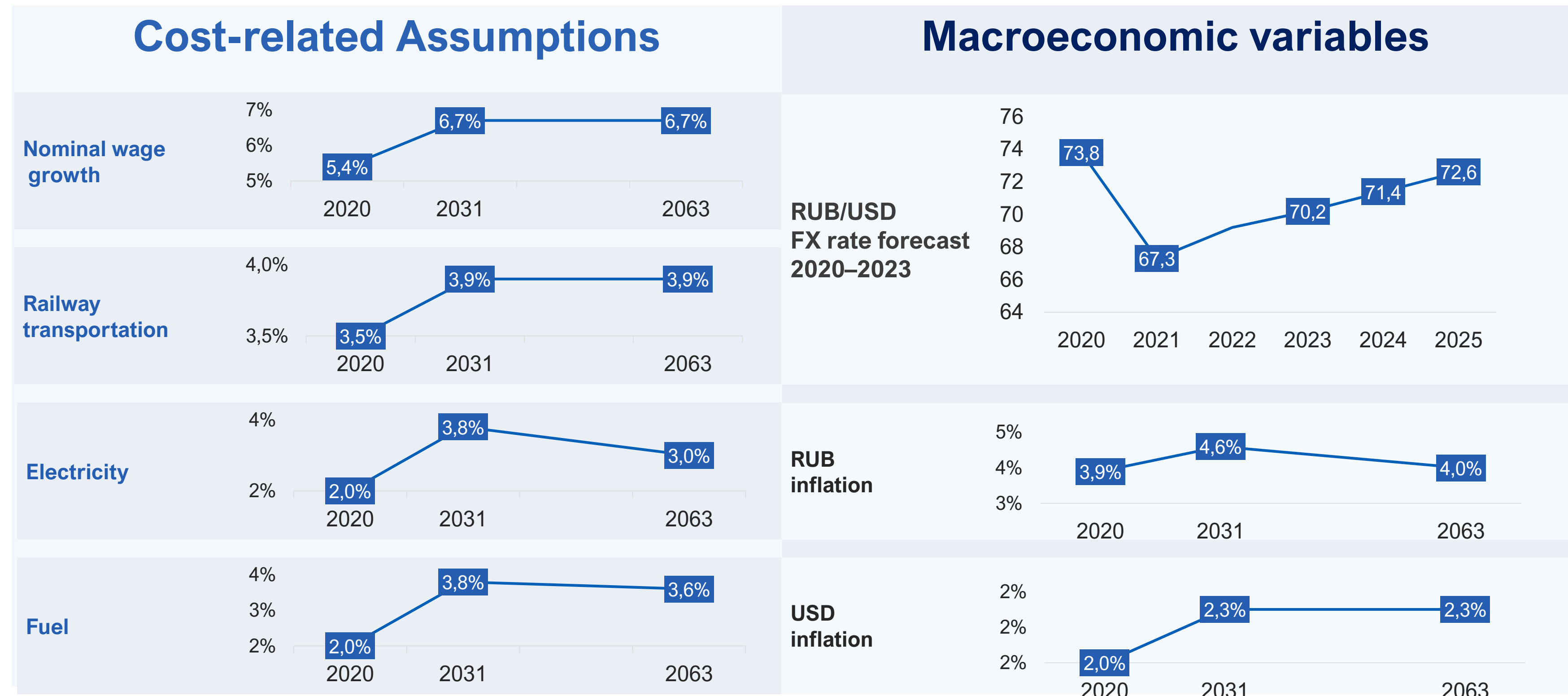


Regional authorities are interested in high level of social expenditures on ALROSA's side



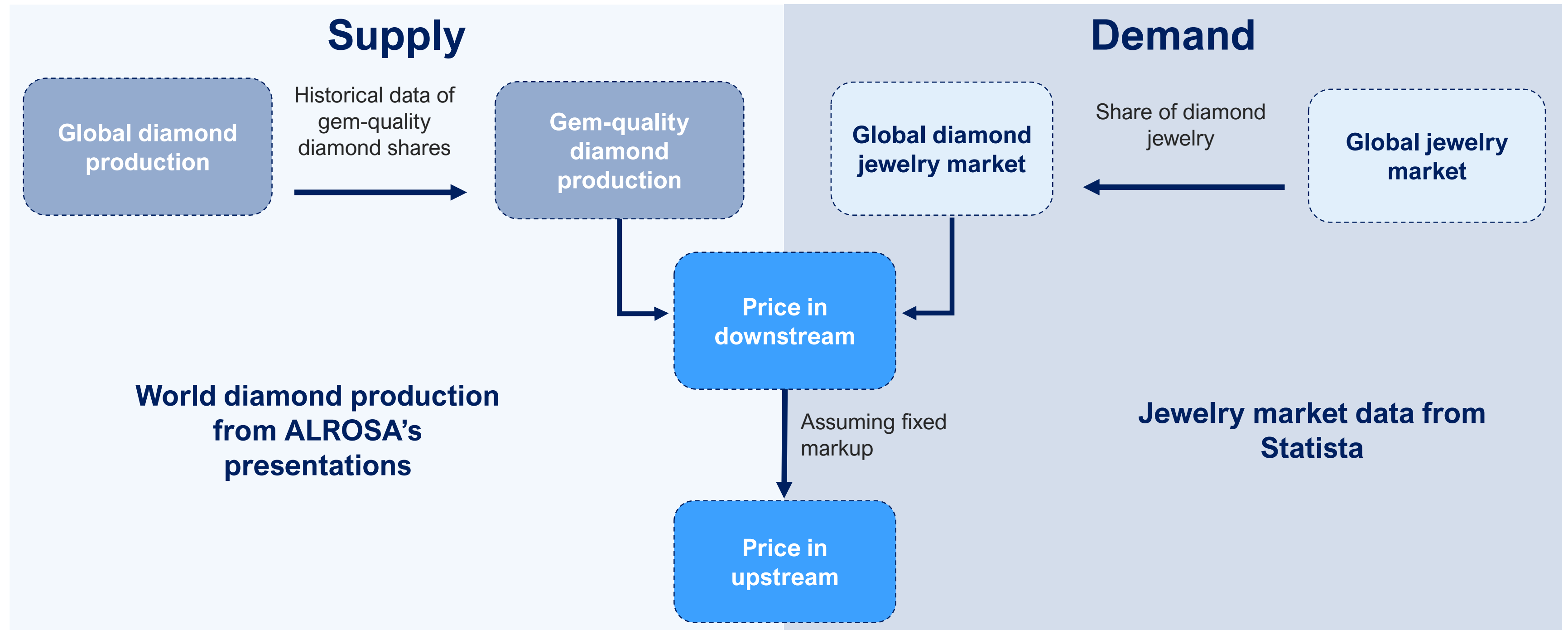
Sources: Team Analysis, Company Data, Capital IQ

USD EXCHANGE RATE INCREASE AS A COMPETITIVE ADVANTAGE

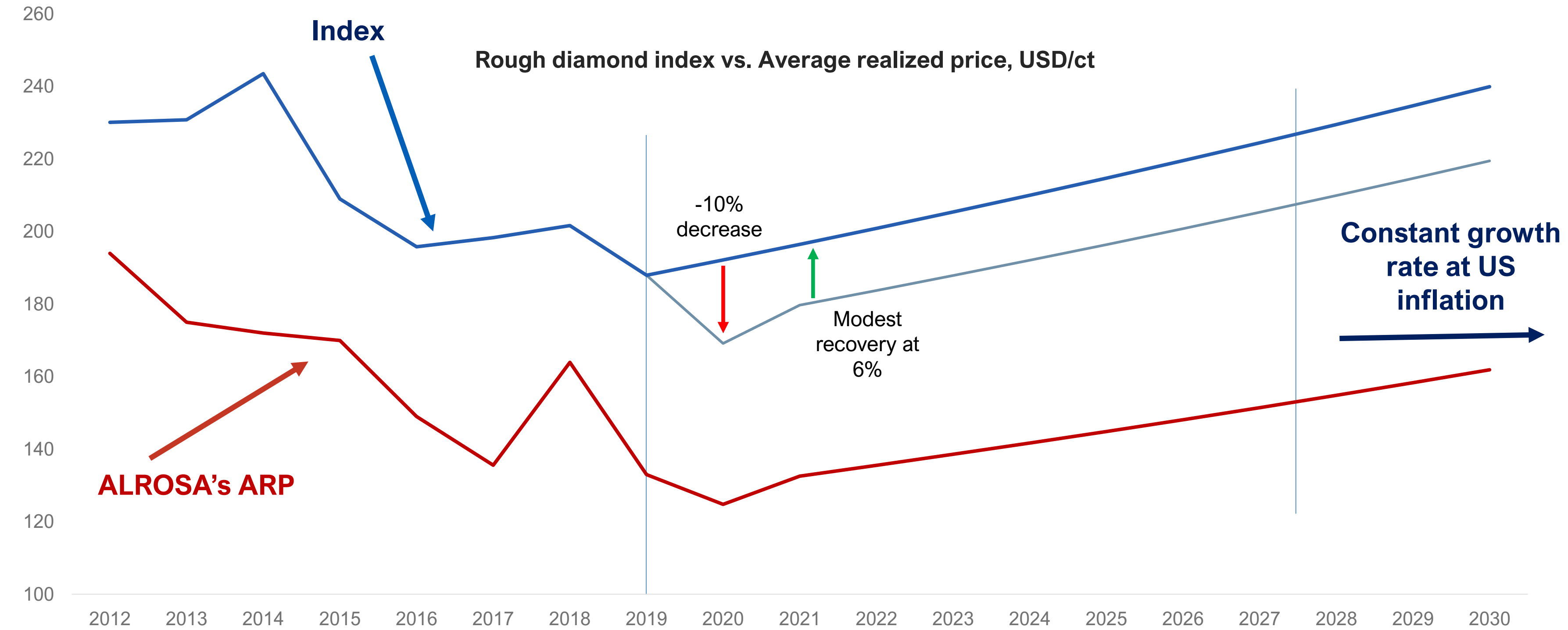


Sources: ACRA, Ministry of Economic Development of the Russian Federation

DIAMOND PRICE IS FORECASTED FROM JEWELRY MARKET FUNDAMENTALS

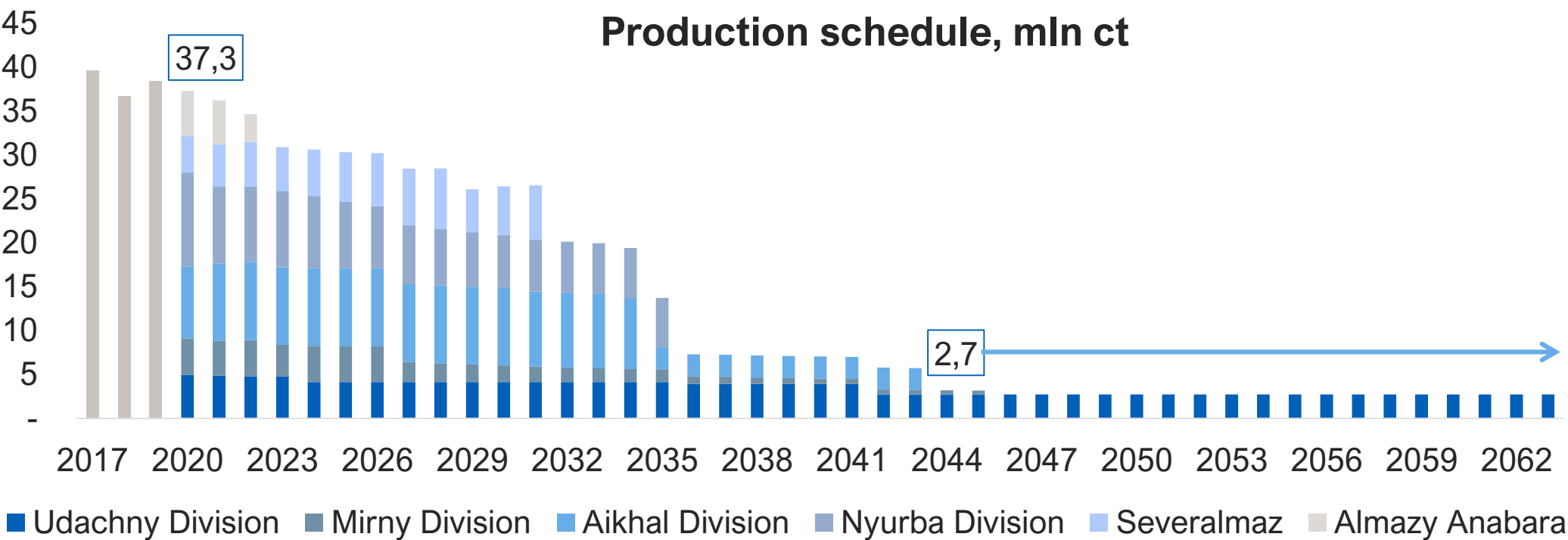
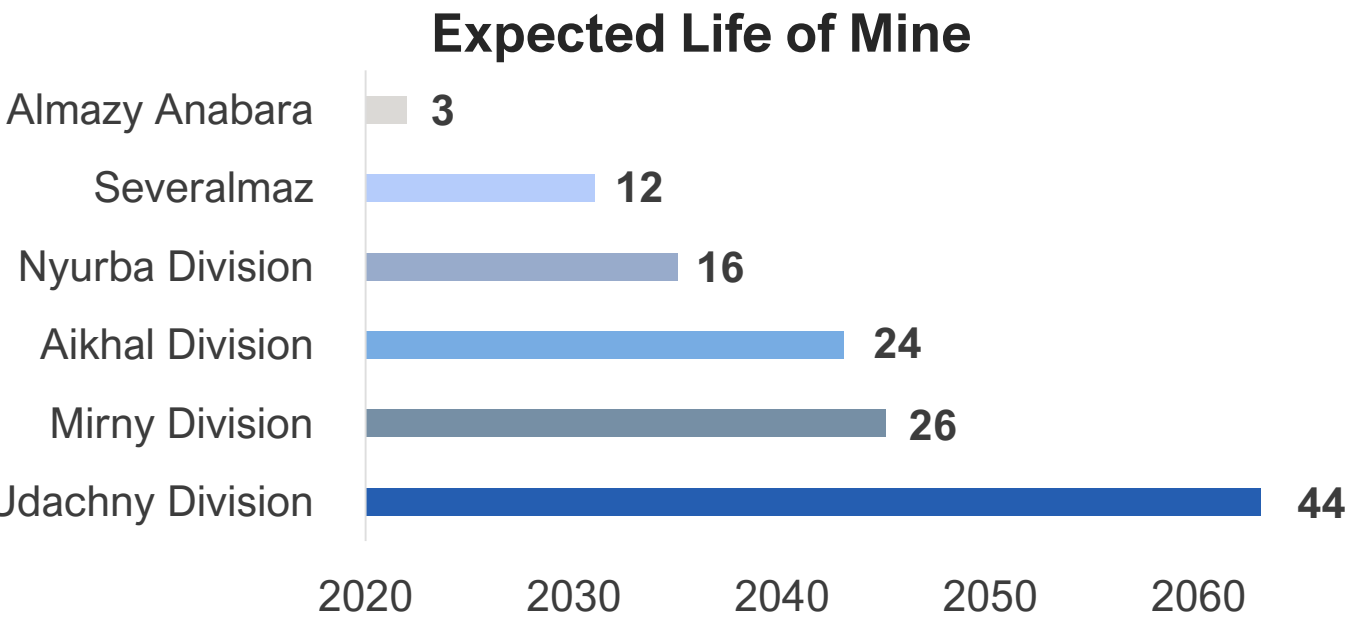


AVERAGE REALIZED PRICE FOR ALROSA IS DERIVED FROM ROUGH DIAMOND INDEX

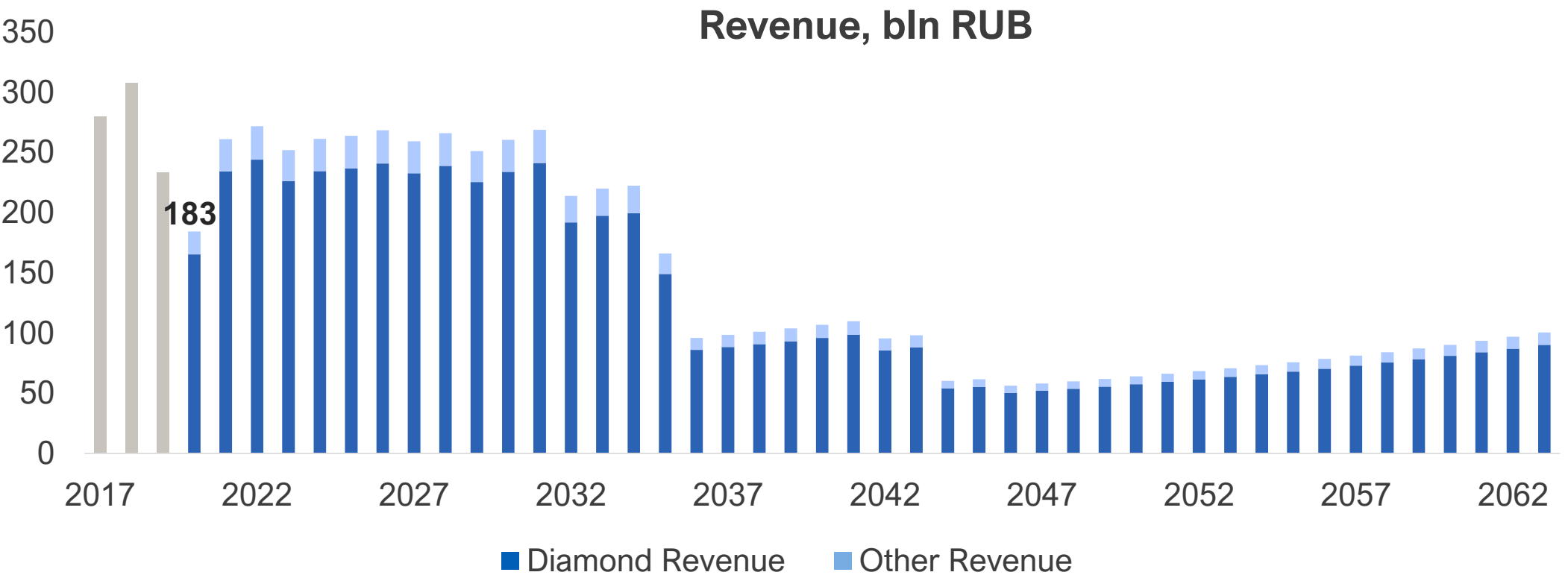
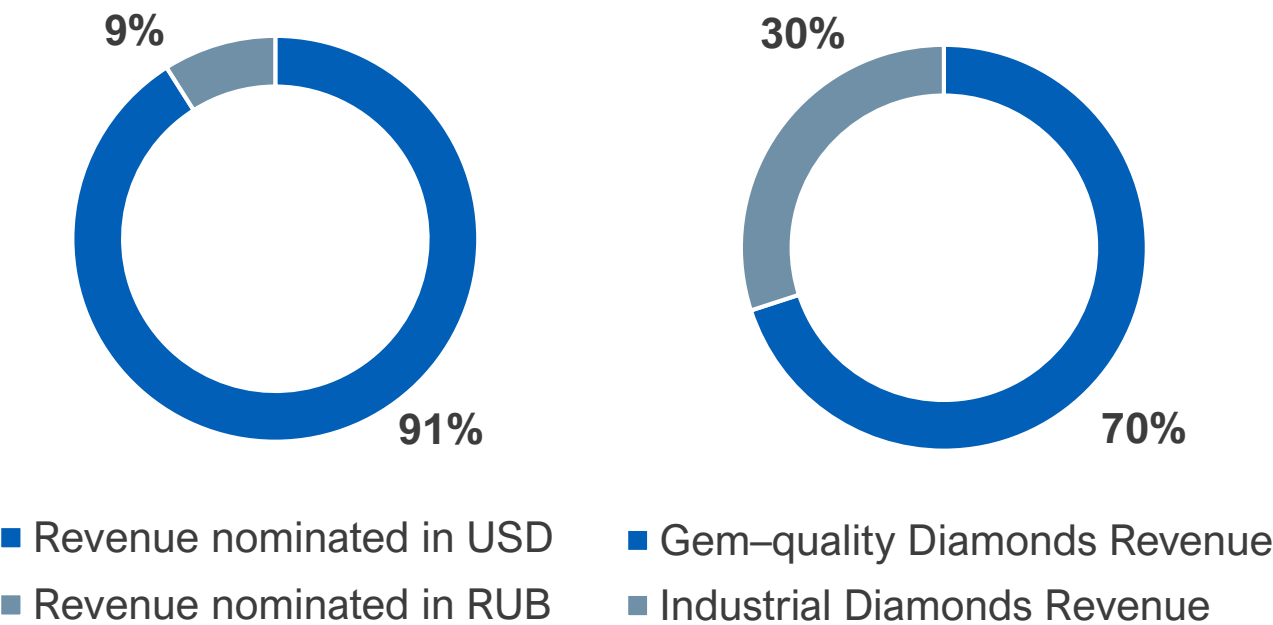


Sources: Statista, Company Data, Team Analysis

PRODUCTION

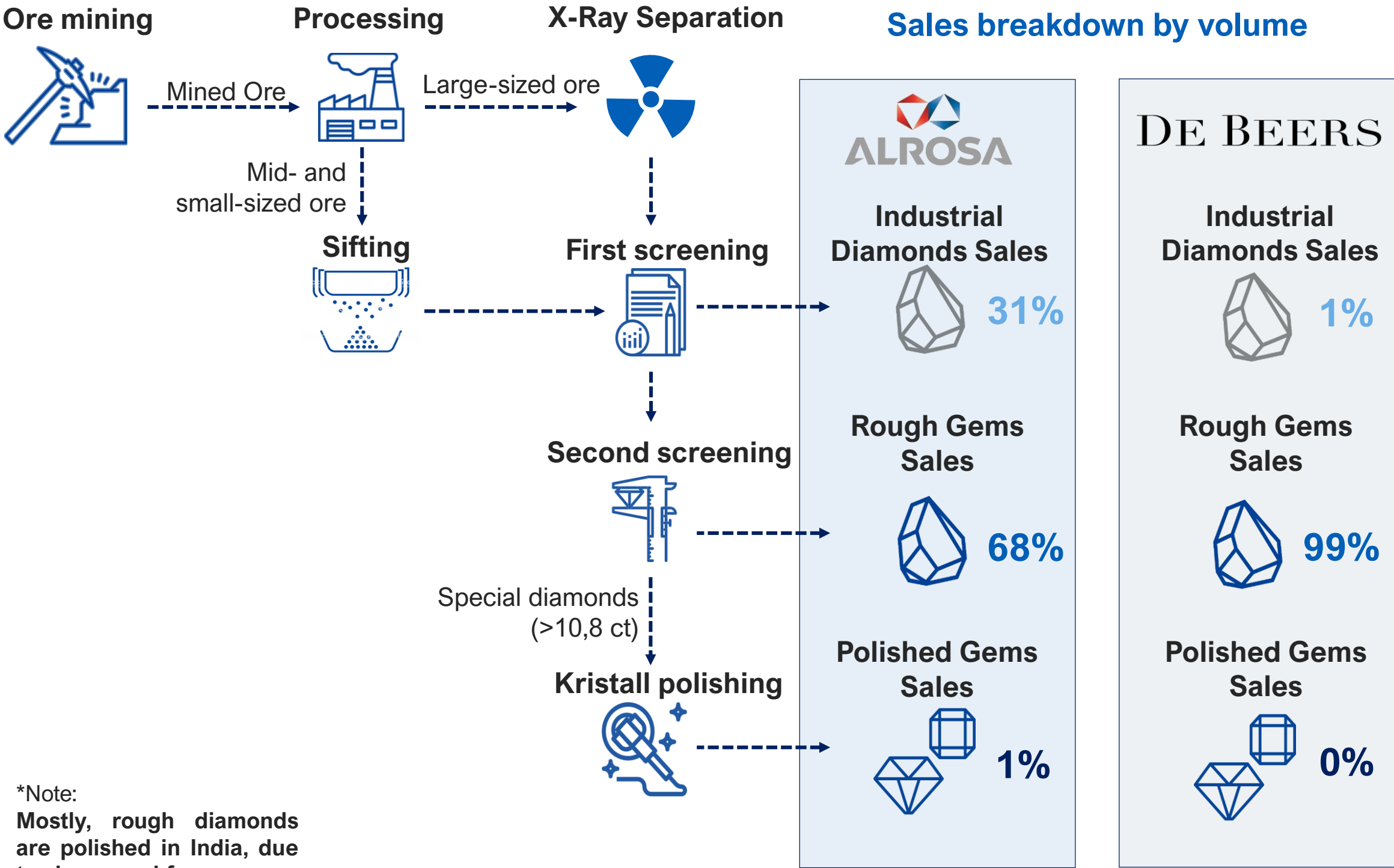


KEY ASSUMPTIONS FOR REVENUE



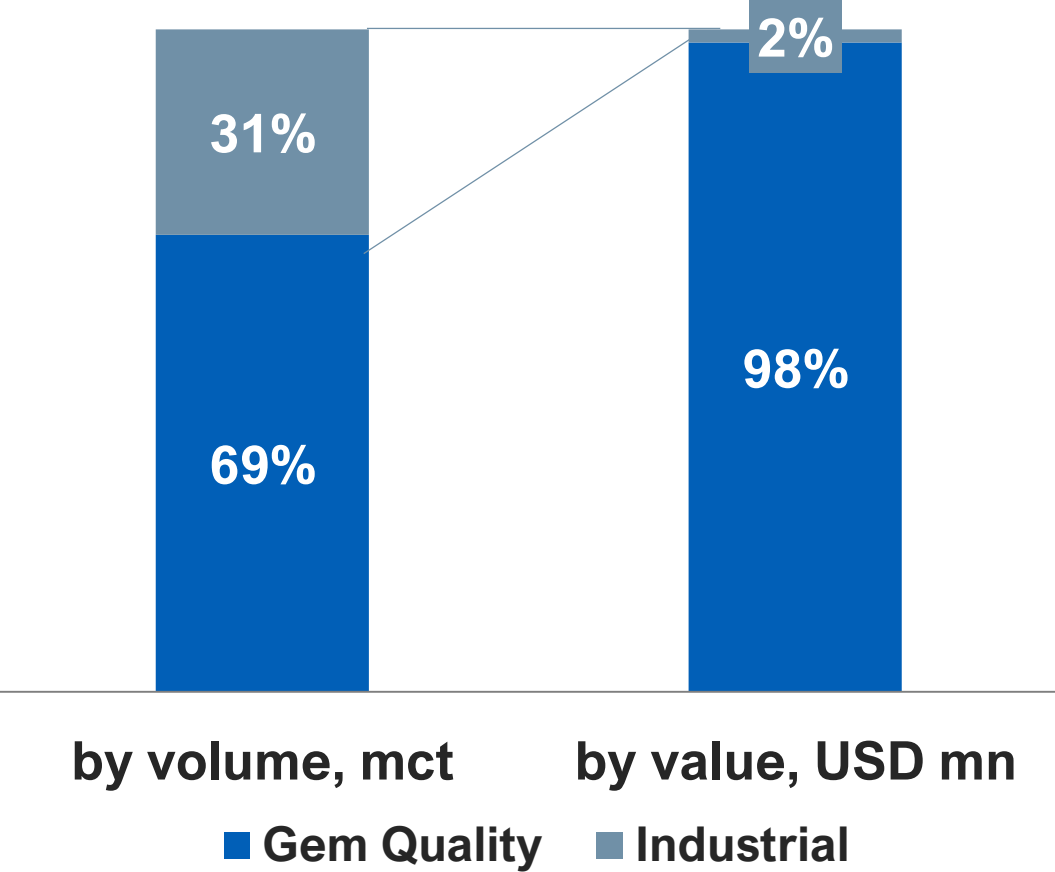
Sources: Company Data, Team Analysis

ALROSA IS VERTICALLY INTEGRATED RUSSIA BASED MINER



Industrial diamonds are cheap providing only 2% of revenue for 31% of volume

ALROSA sales breakdown by stone type in 2018



*Note:
Mostly, rough diamonds are polished in India, due to cheap workforce

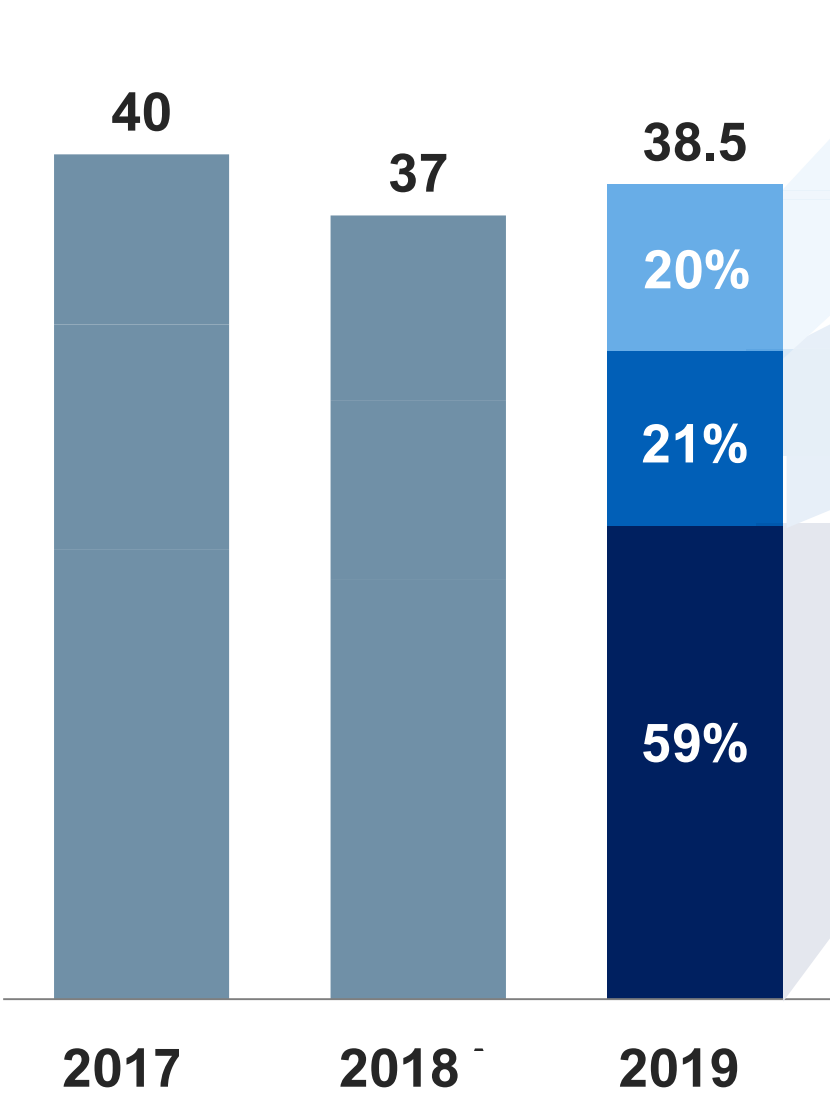
Sources: Company Data, Team Analysis

STABLE PRODUCTION VOLUMES ARE MATCHED BY SALES CHANNELS DIVERSIFICATION

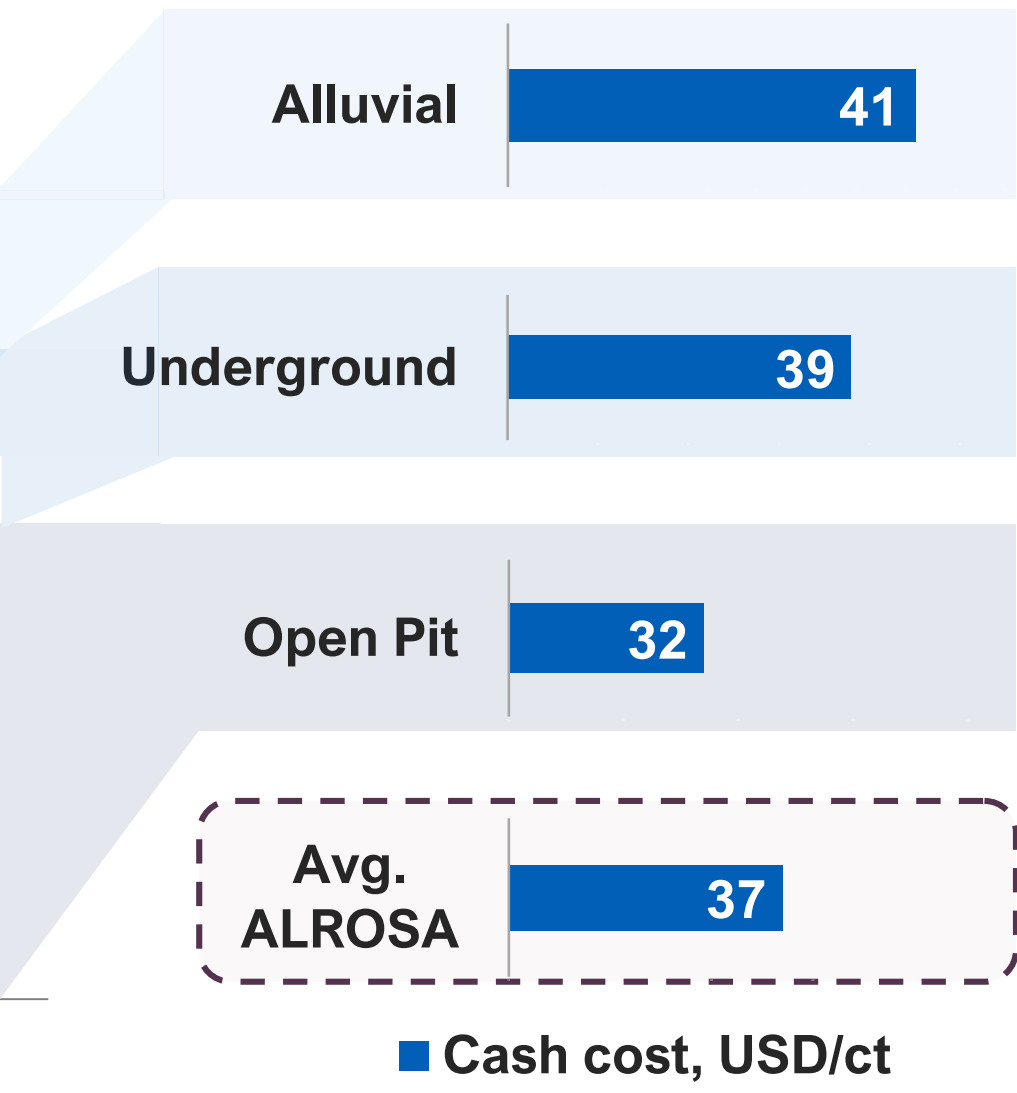
Large share of open pits allows ALROSA to maintain low average cash cost

Different Sales channels cover the entire market and provide stable realization on industry cycles

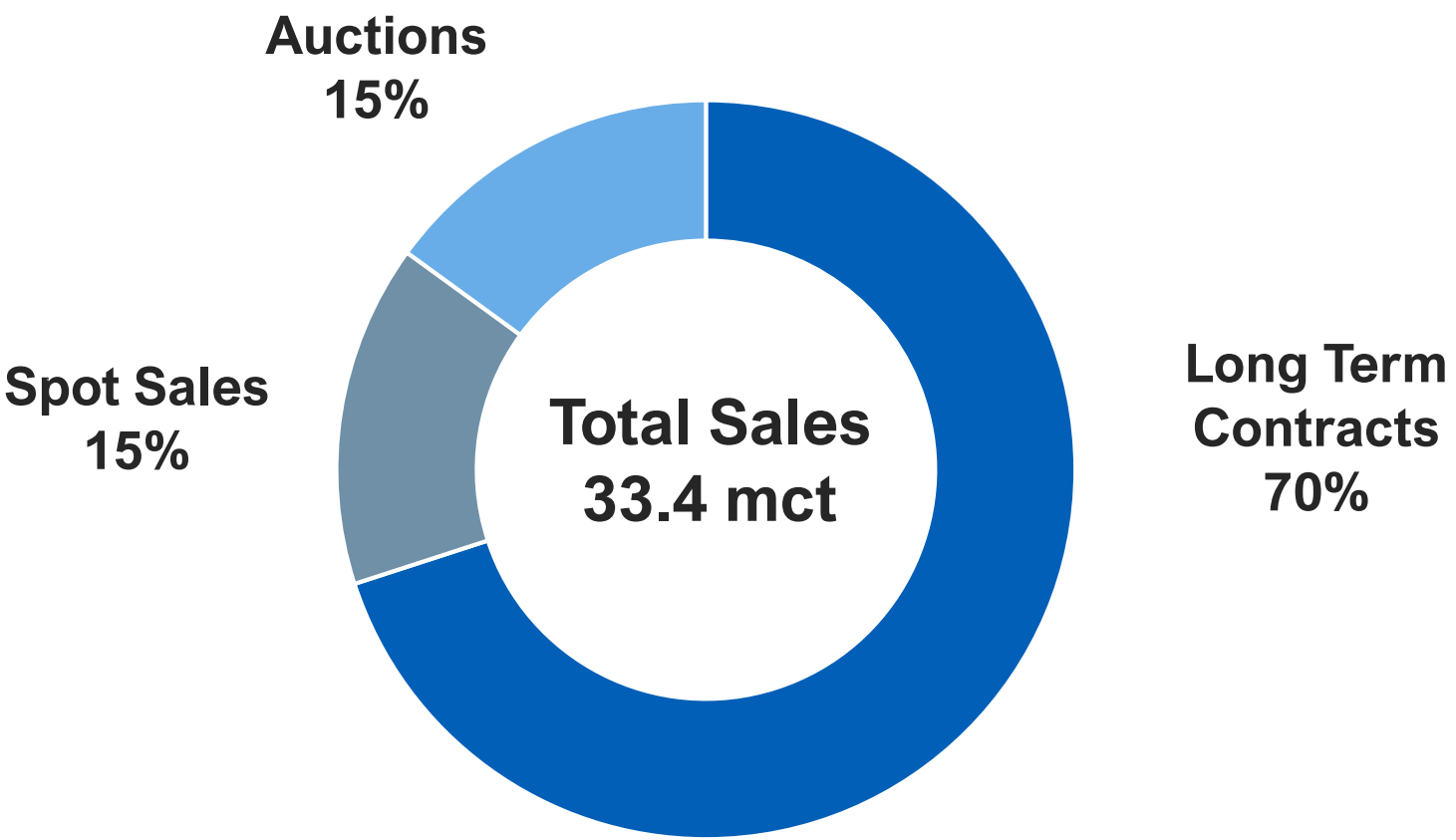
Production by years, mct



Cash cost by type of mine in 2019



Sales channels breakdown by type in 2019, %



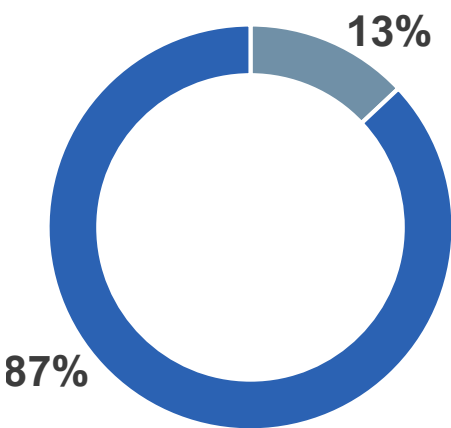
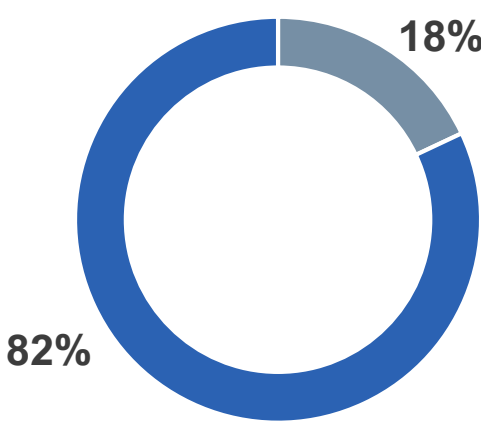
Sources: Company Data, Team Analysis

COGS / SG&A

COGS FORECASTING METHOD:
Production growth rate
+
Inflation rate
(for corresponding item)

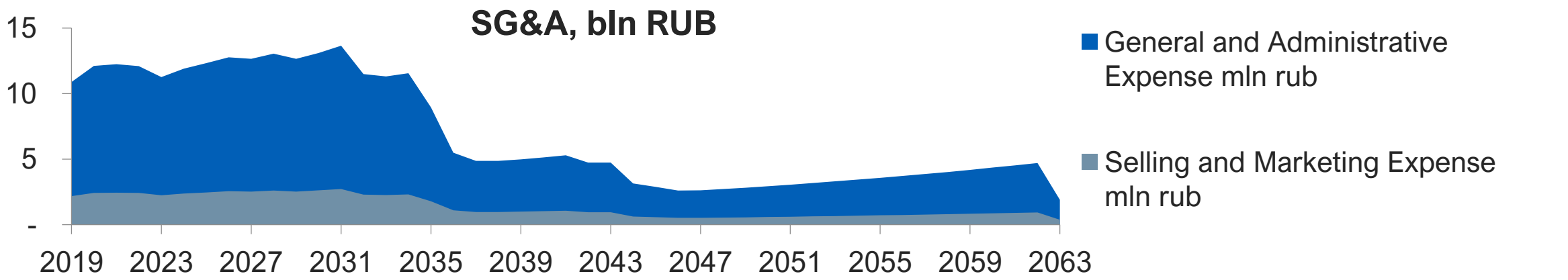
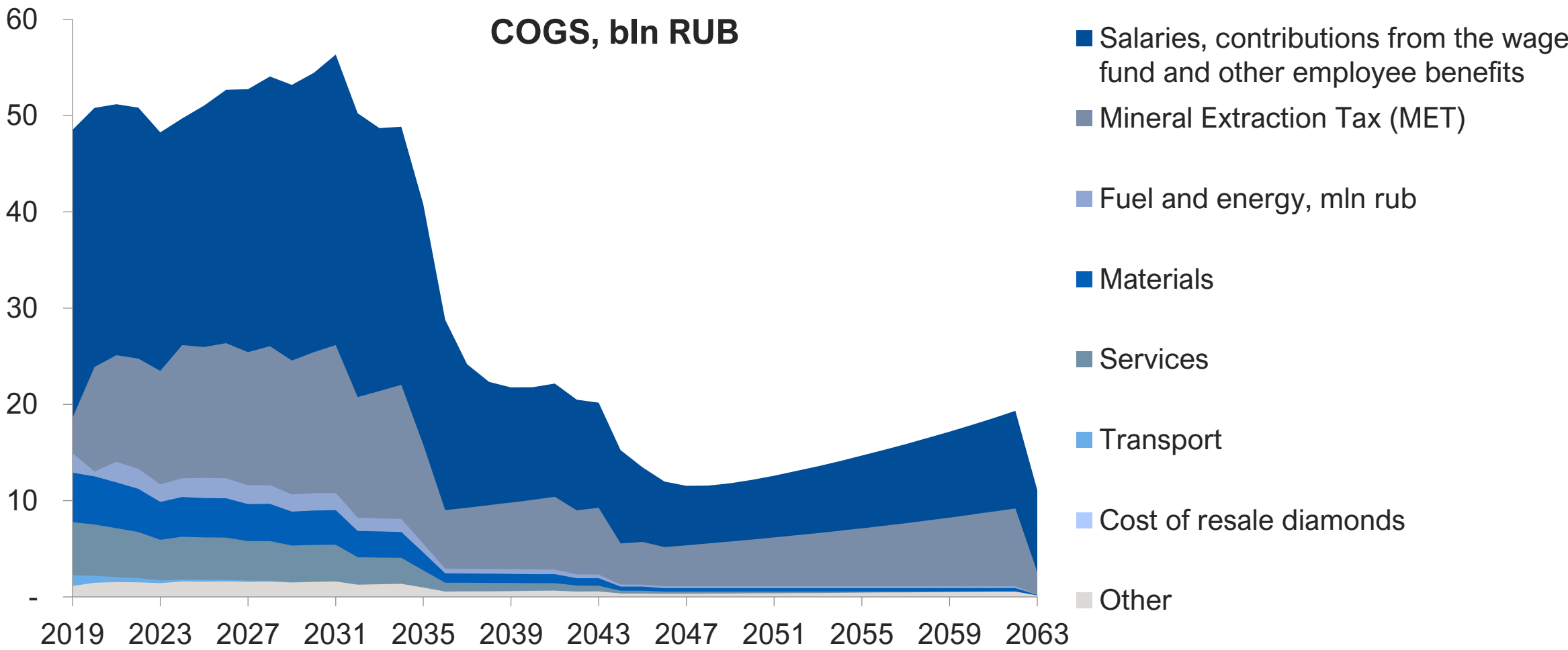
SG&A FORECASTING METHOD:
Inflation RUB

KEY ASSUMPTIONS FOR CAPEX & COGS



- CapEx nominated in USD
- CapEx nominated in RUB
- COGs nominated in USD
- COGs nominated in RUB

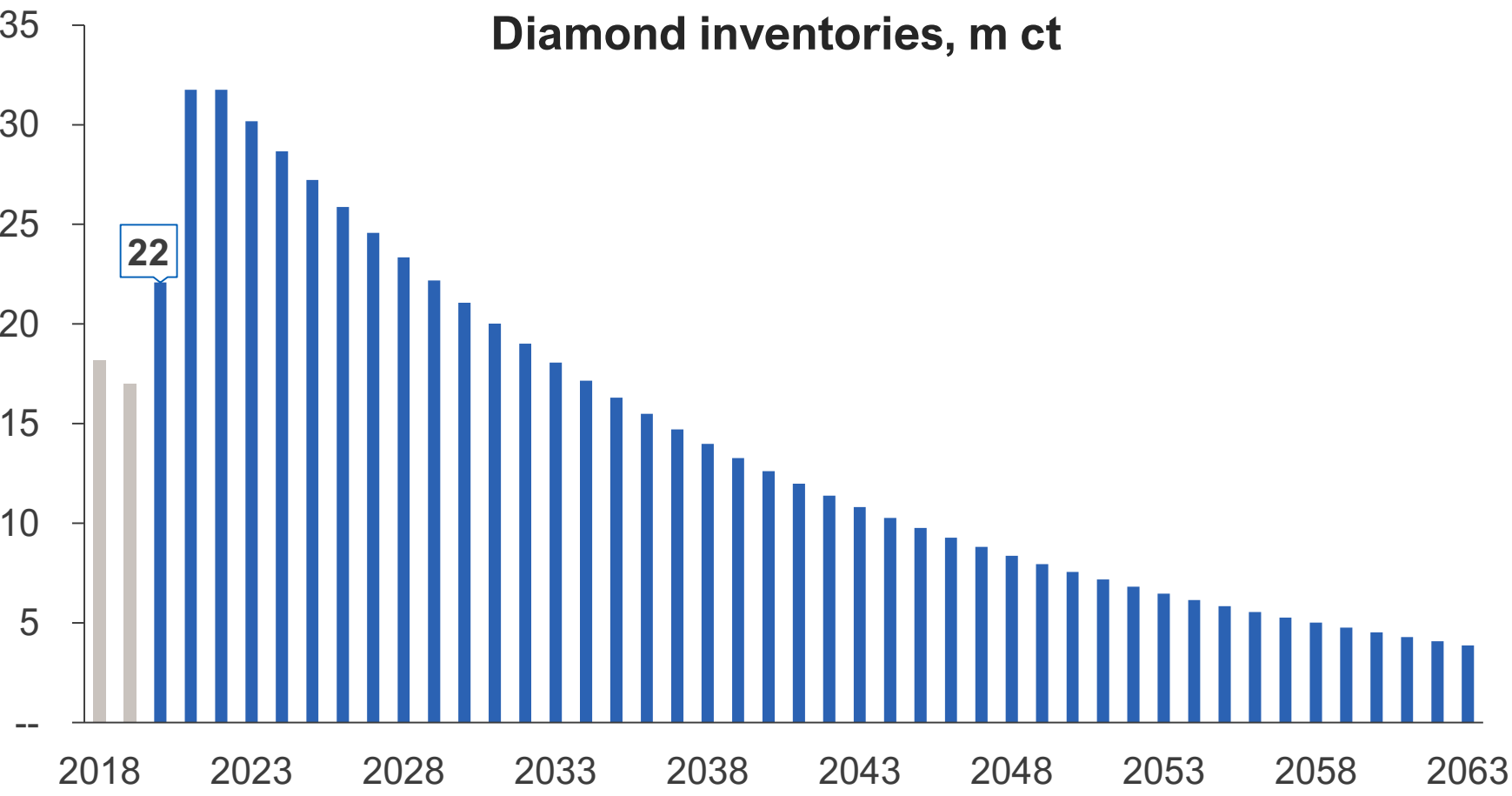
Sources: Company Data, Team Analysis



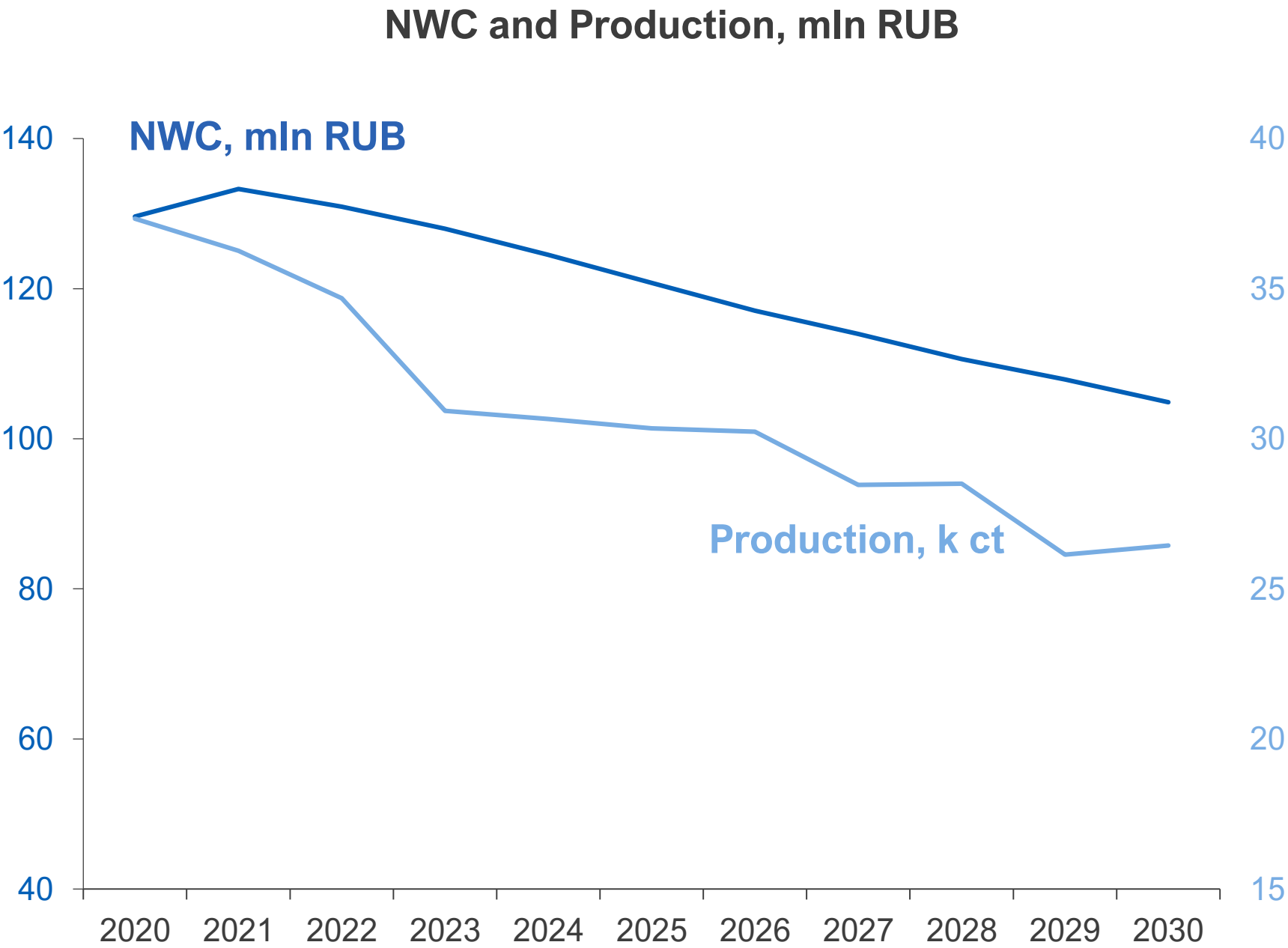
WE ASSUME GRADUAL DECREASE OF INVENTORIES

Accounts receivables and payables are calculated from historical turnover

Turnover	Median
Days Payable Outstanding	89
Days Inventories Outstanding	322
Days Receivable Outstanding	30



We assume 5% inventory decrease per annum



Sources: Company Data, Team Analysis

CAPEX

ALROSA CapEx forecast

- Capital-intensive phase is **over**
- CapEx over five years (2020 – 2024) is expected to **be 128 bn RUB**

Key investment projects 2019 – 2024

Infrastructure: RUB 35 bn

- Reconstruction of Mirny Airport
- Gasification of production facilities in Udachny
- Sales Division Facilities
- Gas processing facility by ALROSA-Gaz

Mining capacity: RUB 38 bn

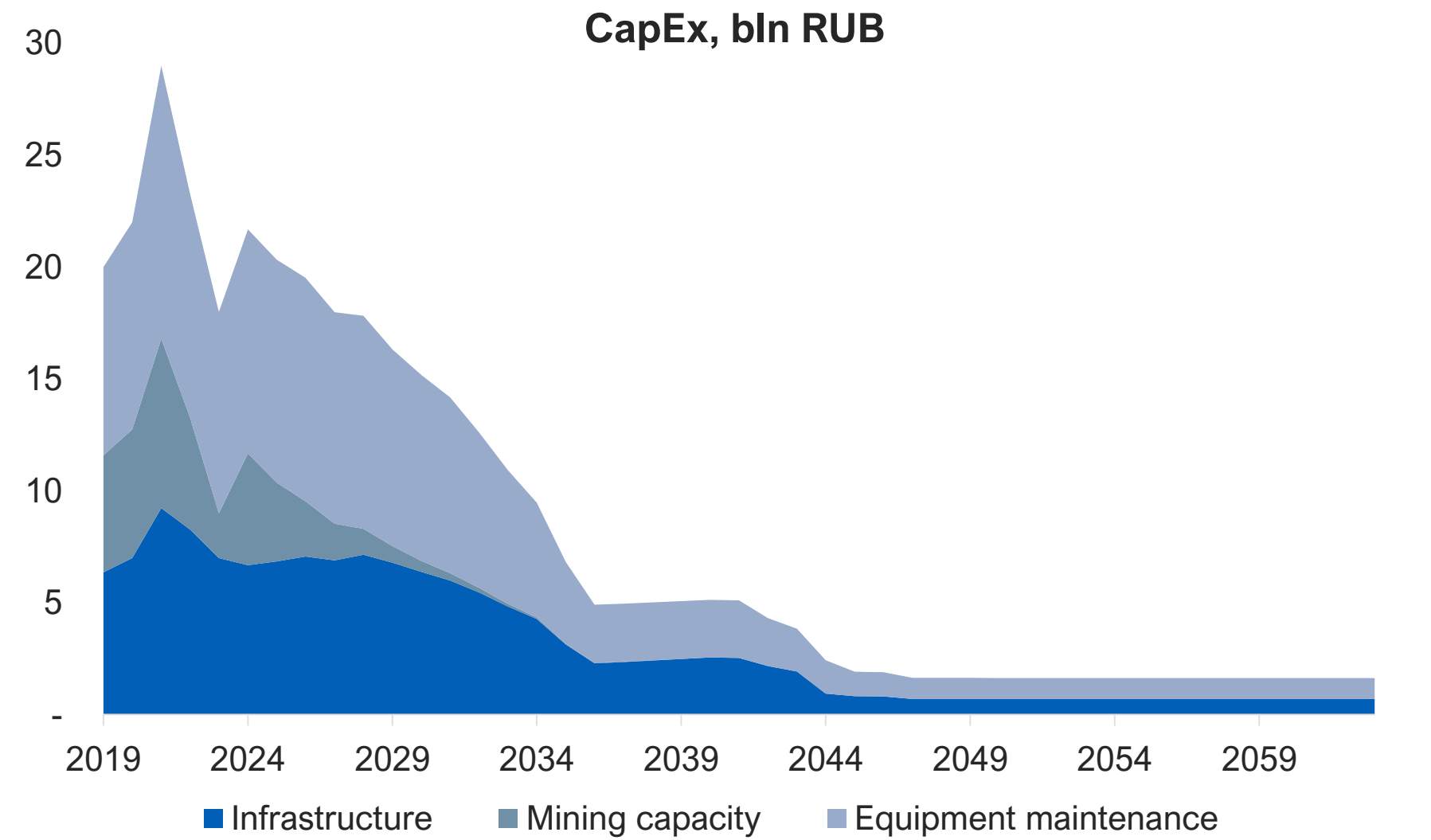
- Completion of Udachny underground mine construction
- Completion of Verkhne-Munskoye diamond deposit development
- Construction of Maiskaya pipe
- Construction of Zaria pipe

Equipment maintenance: RUB 55 bn

Sources: Company Data, Team Analysis

Forecasting method

2019 – 2024	2025 – 2063
Alrosa forecast	<ul style="list-style-type: none"> In line with production In line with USD change



STRONG BALANCE SHEET

HIGHLIGHTS

Conservative long-term financial targets in line with investment grade criteria

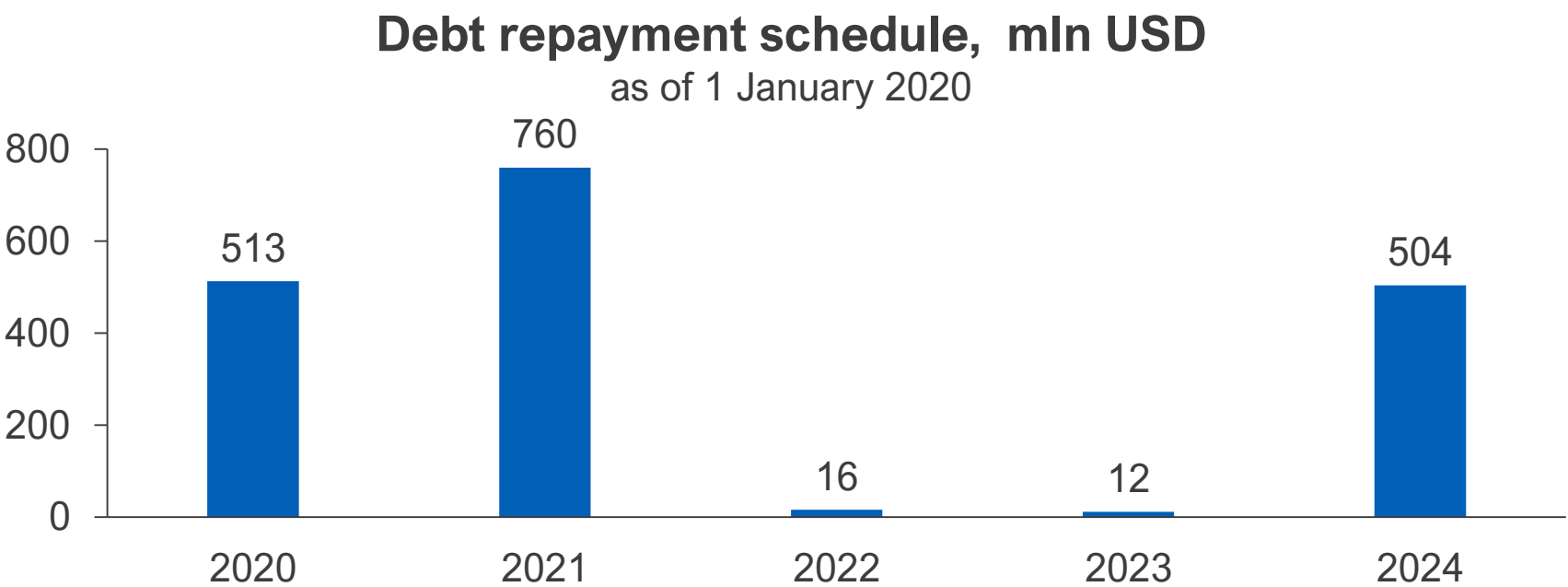
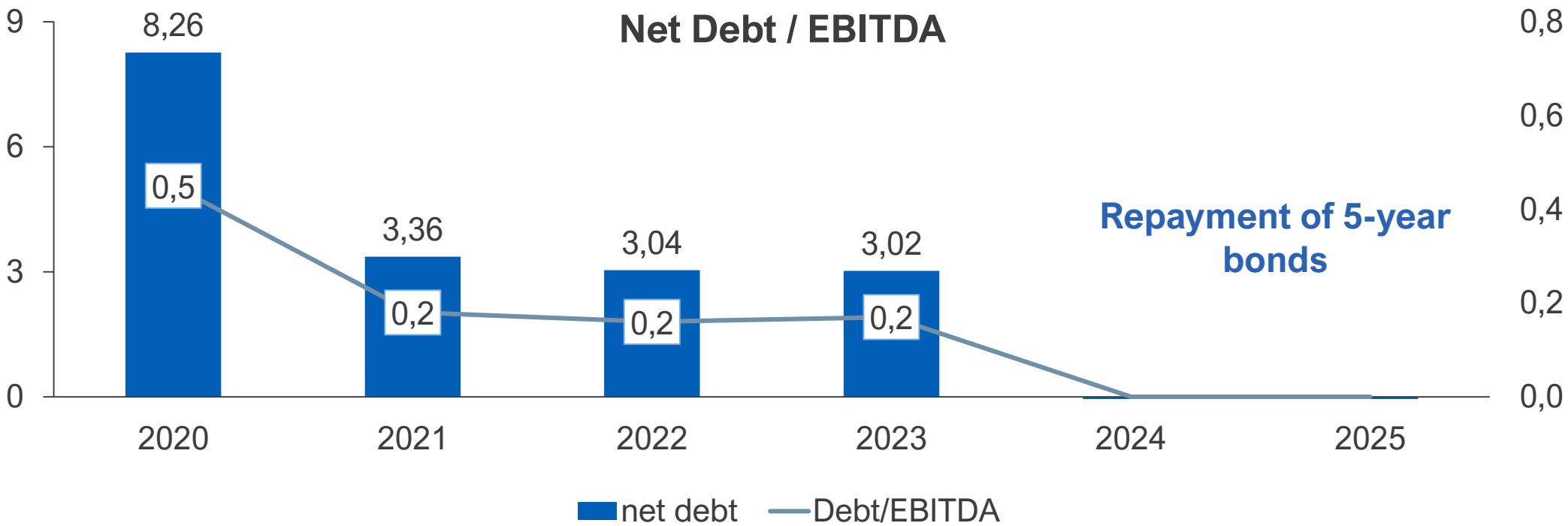
- Target Net Debt / EBITDA range: 0.5-1.0x
- Minimum liquidity reserves of over 35 bn RUB
- Solid track record with fixed income investors

Investment grade credit rating

- S&P – BBB- (Stable)
- Fitch – BBB- (Stable)
- Moody’s – Baa2 (Stable)

New opportunities

- New class of investors
- Low cost financing
- Stable dividend payments



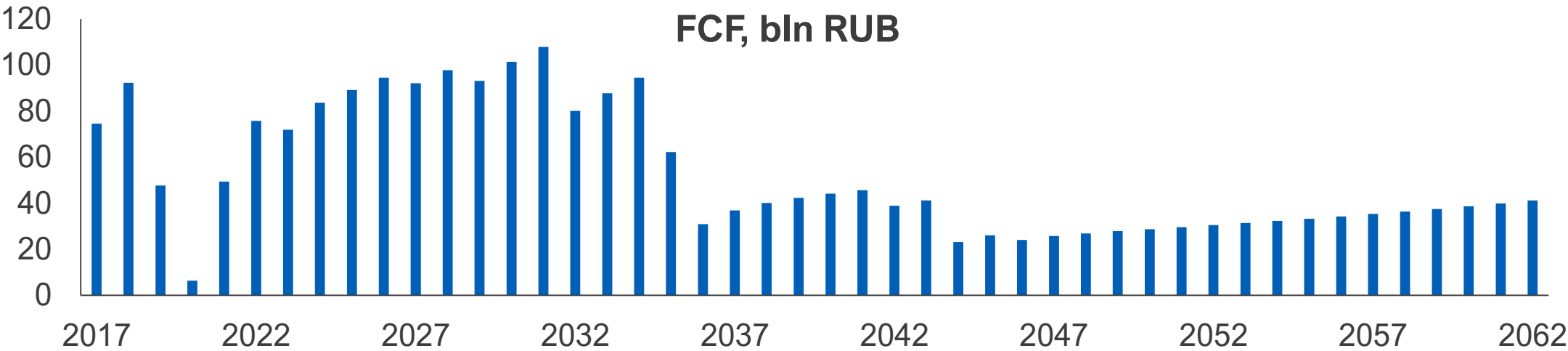
Sources: Company Data, Team Analysis

KEY FINANCIALS

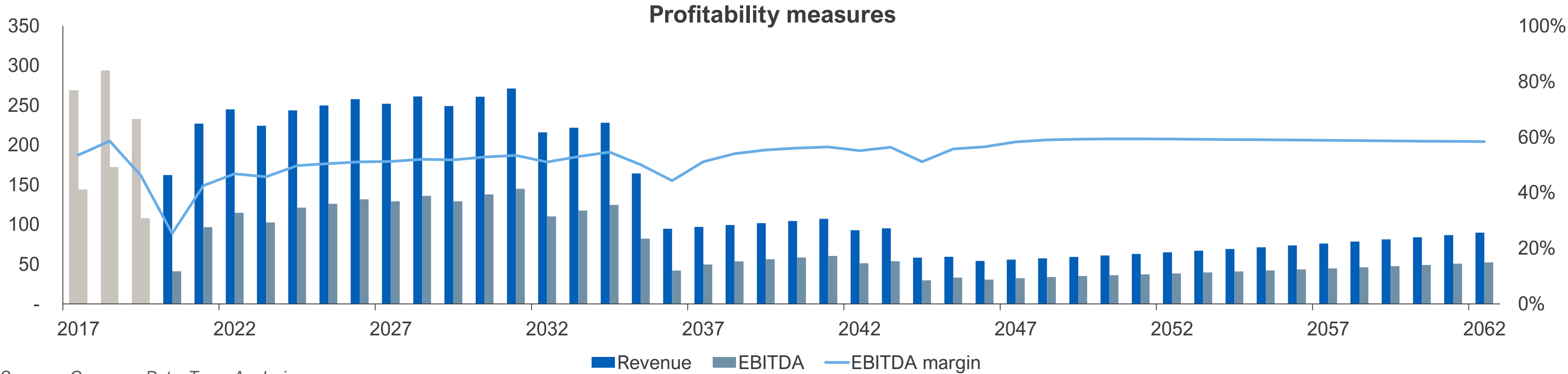
HIGHLIGHTS

Company demonstrates stable – above 45% margins
(best-in-class)
Positive long-term cash flow

STRONG FREE CASH FLOW GENERATION



PROFITABILITY



Sources: Company Data, Team Analysis

VALUATION SUMMARY AND MARKET APPROACH

WACC calculation

Cost of equity		Cost of Debt	
Risk-free rate	2,2%	Pre-tax Cost of debt	5,08%
ERP	5,2%	Tax rate	20,00%
Unlevered Beta	1,02	After-tax cost of debt	4,06%
Target D/E	29,8%		
Levered Beta	1,26		
Country risk premium	4,0%		
Size premium	-0,4%		
Cost of Equity	14,82%		

WACC

77% x 14.82%

+

23% x 4.06%

= 12%

Equity

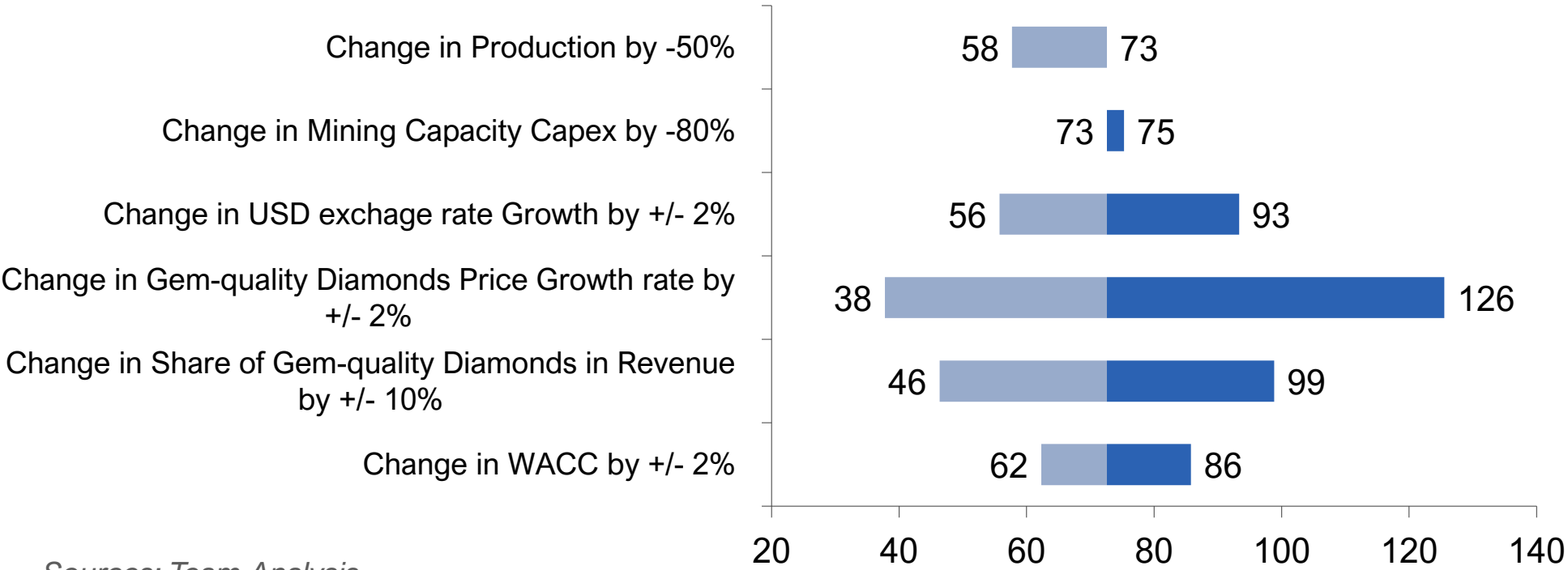
Debt

Comparable companies are on average priced higher, than ALROSA

	Avg	Median
EV/EBITDA	8,22	7,56
EV/SALES	1,87	1,85
EV/EBITDA (Alrosa)	5,26	5,21

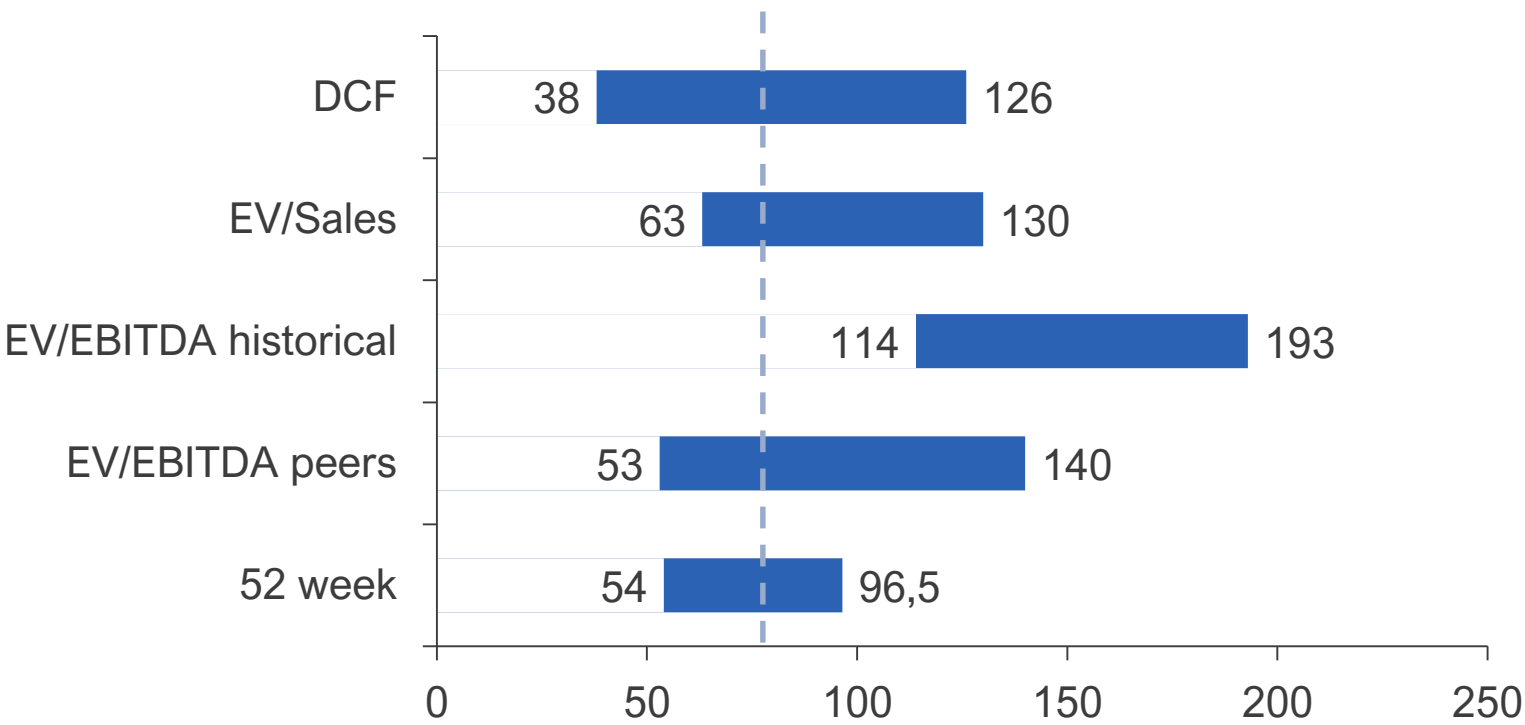
DCF model gives us estimate, which is in line with industry multiples

The effect of changes in parameters on the Share Price, RUB



Sources: Team Analysis

Closing price as of 22.04.2020, RUB



INVESTMENT OPPORTUNITIES

22.04.2020	2020 – 2025	Exit on 22.04.2025
Acquiring 5% Alrosa Price per share = 63 RUB per share (23 071) mln RUB	5-year sum of Disc Dividends Cost of Equity = 14,8% 7 650 mln RUB	Exit at EV / EBITDA = 6.02 Disc 5% Share = 25 865 mln RUB
		NPV = 10 444 mln RUB IRR = 17.8%
22.04.2020	2020 – 2025	Exit on 22.04.2025
Acquiring 5% Polyus Price per share = 162 USD per share (1088) mln USD	5-year sum of Disc Dividends Cost of Equity = 10,7% 265 mln USD	Exit at EV / EBITDA = 8 Disc 5% Share = 1516 mln USD
		NPV = 693 mln USD IRR = 16.2%

Sources: Company Data, Team Analysis

BUY RECOMMENDATION WITH THE TARGET PRICE OF 72.59 RUB

5 REASONS TO BUY

- 1. Solid business with high-quality assets
- 2. Ahead of competitors by production, margin and reserves
- 3. Strong cash generation capacity due to highly-marginal product
- 4. Liquid and stable for Russian stock market
- 5. Great credit quality, with low Net Debt level
- 6. Sustainable and clean miner



62.65 RUB

As of April 22

72.59 RUB

Target price