



KGHM

POLSKA MIEDŹ S.A.

Copper-bottomed investment

London, April 2013

Wroclaw University
of Economics

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Introduction

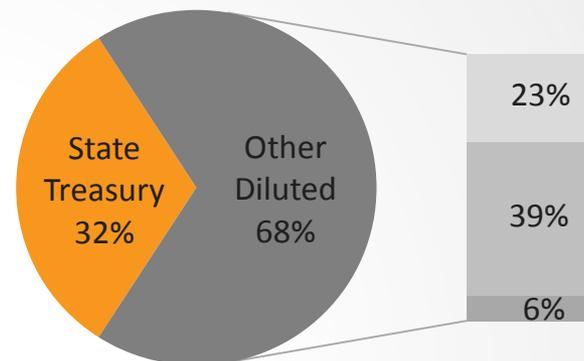
Main features

- 9th copper producer globally
- 1st silver producer globally
- 4th resource base in the world
- High quality products

Market profile

Ticker(Bloomberg)	KGH:PW
52-week price range (PLN)	111.4 – 194.5
2012 dividend yield	24.2%
Market capitalization (USD bn)	12.1
Average daily traded value (USD mn)	40.6
Free float	68%
Share in WIG 20	14.3%
P/E ₂₀₁₂	7.5

Shareholder structure



- State Treasury
- Polish institutional investors
- Foreign institutional investors
- Individual investors

Forthcoming Events

2013 HY report	July 30, 2013
Strategy update	Mid-2013
New projects update	Mid-2013

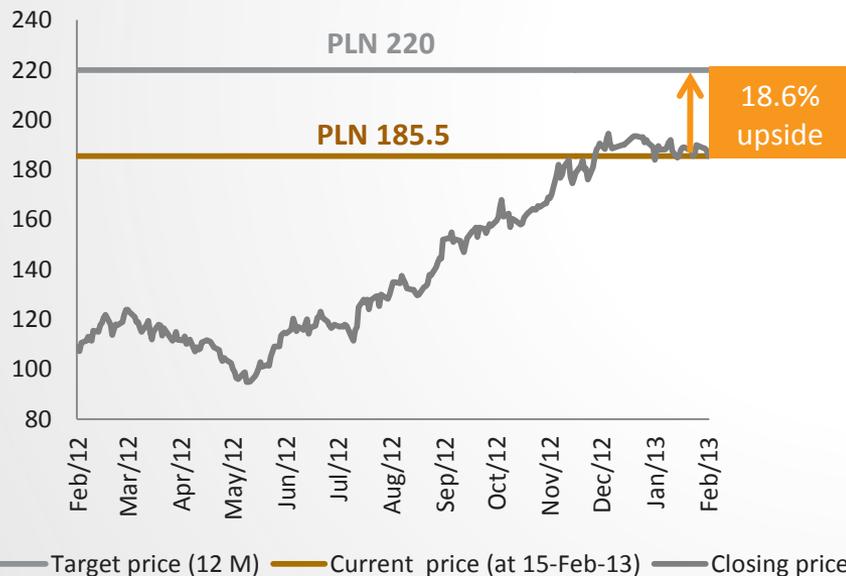
Recommendation

Target price: PLN 220

Upside: 18.6%

Recommendation

BUY



Key drivers

- Robust pipeline of new projects (58% increase in production volume by 2017)
- Increasing operational efficiency (EBITDA margin increase from 35% in 2012 to 45% in 2017)
- Stable market conditions
- Sound financial position (USD 6.4bn Balance sheet headroom)

Holding period return

End of 2013	End of 2014	End of 2015
27%	39%	56%

Company Overview

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Business description



Limited risk of Quadra's acquisition

- Quadra's experience in M&A
- Know-how regarding open pit mines
- Strong financial position of KGHM before acquisition
- Takeover price < NAV
- New projects in business-friendly countries
- Exhaustive due-diligence prior to acquisition
- Positive updates
- Strict monitoring

Company Overview

Industry & Competitors

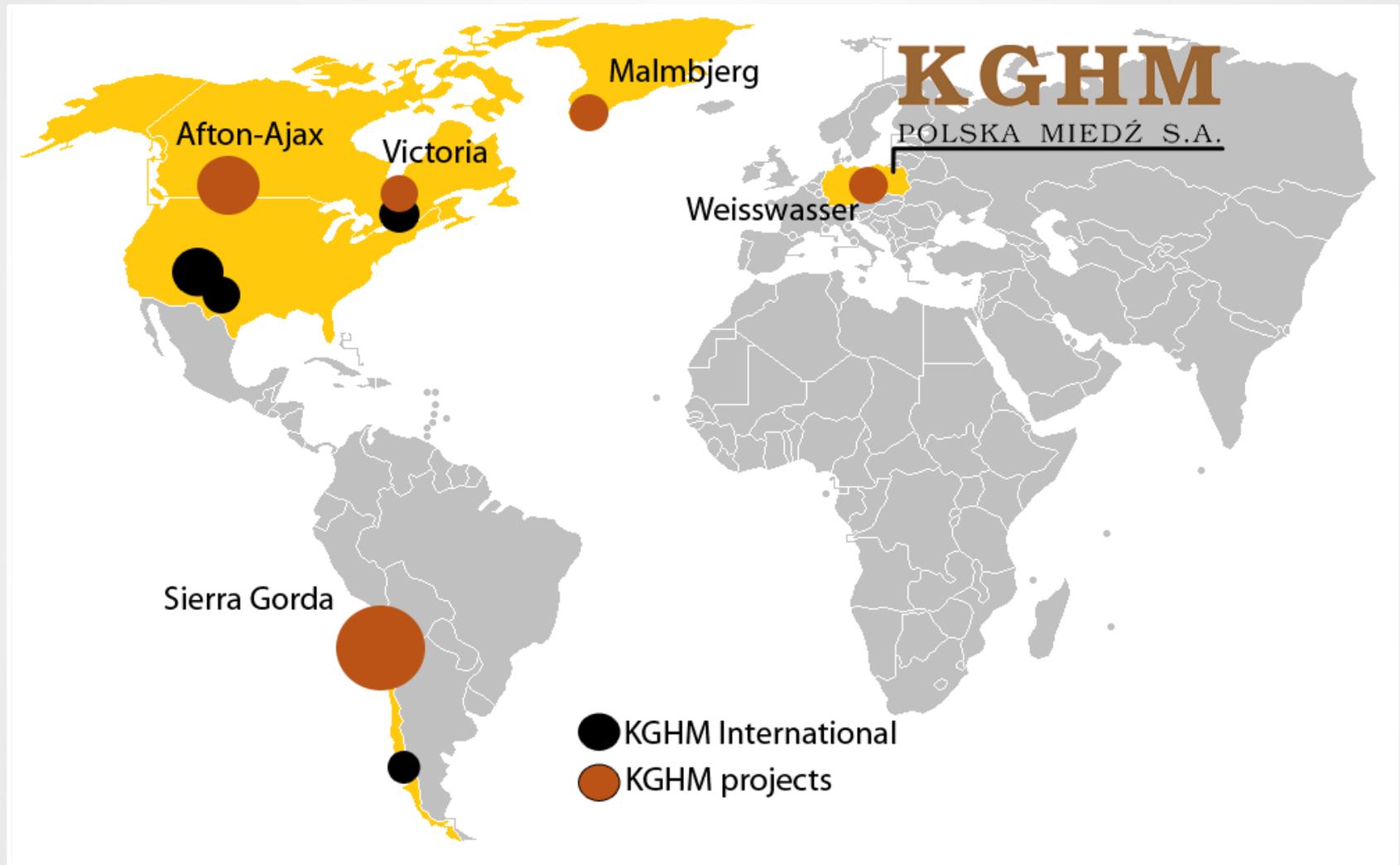
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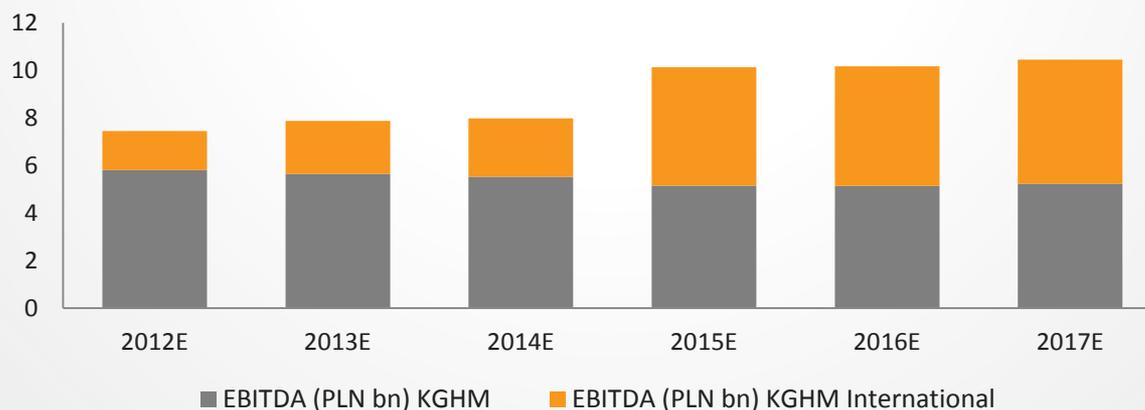
Conclusion

Business description

Specification

- High operational leverage - strong labour unions, underground mines conditions
- Revenues dependent on copper price and USD/PLN exchange rate – effective hedging strategies

Foreign operations contribution to EBITDA



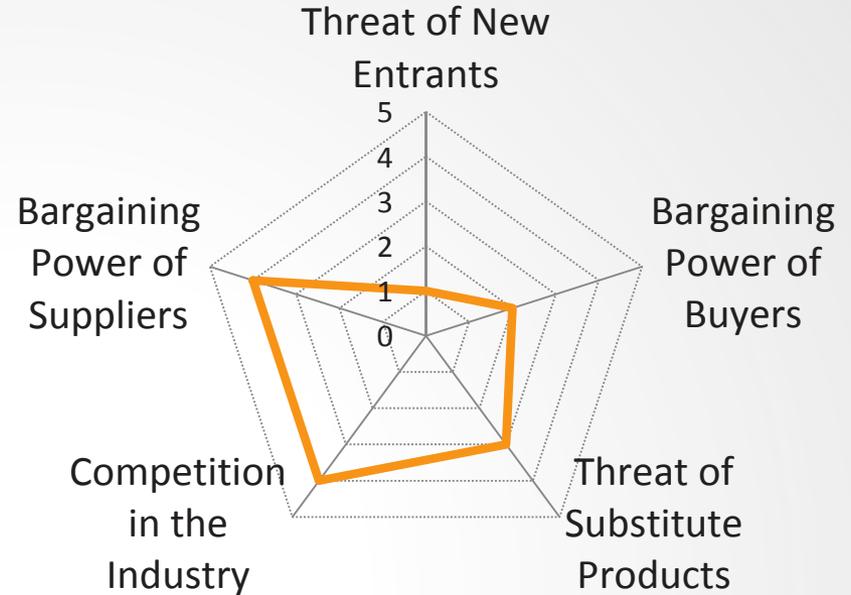


Industry overview & competitive positioning

Industry overview

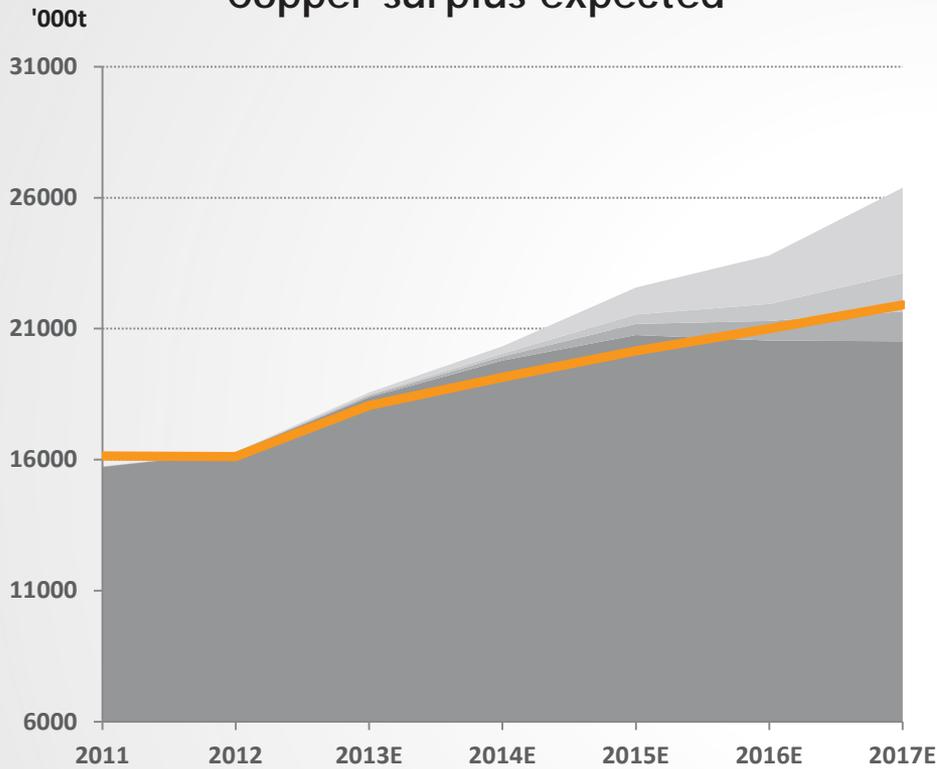
Key copper market characteristics

- High entry barriers
- Low product differentiation
- Lack of copper perfect substitutes
- Individual copper producer as price-taker



Industry overview

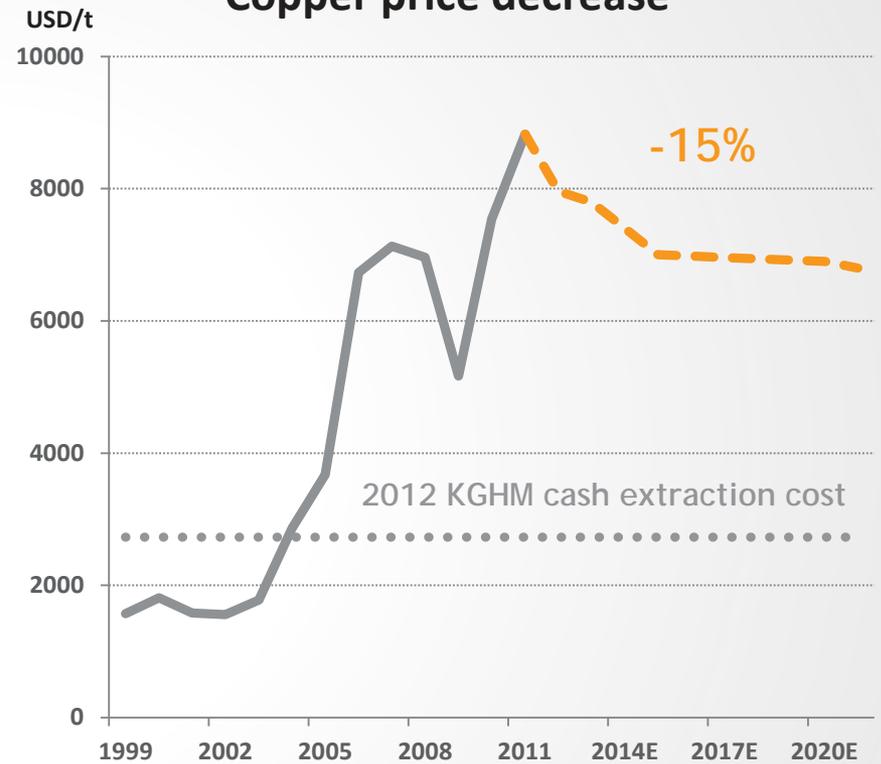
Copper surplus expected



- Base Case Mine Output
- Highly Probable Projects
- Probable Projects
- Possible Projects
- Demand For Mine Output

Source: Wood Mackenzie

Copper price decrease



Source: World Bank Commodity Price Forecast

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Industry overview

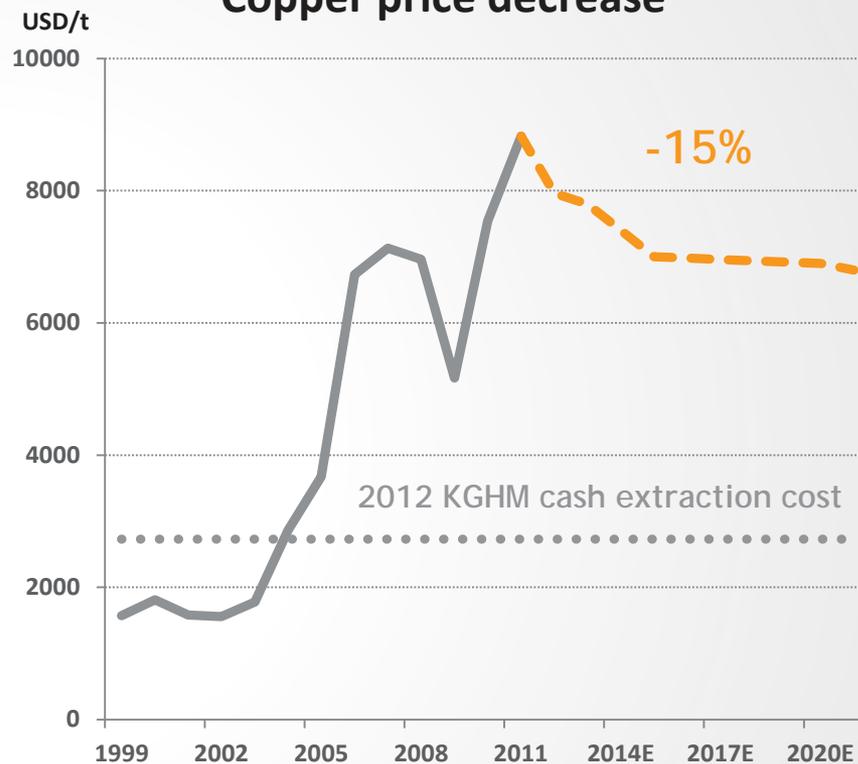
QE positive effects on copper and silver prices

	QE1*	QE2**
Copper	108%	20%
Silver	64%	81%

*(11/2008-03/2010)

** (08/2010-06/2011)

Copper price decrease



Source: World Bank Commodity Price Forecast

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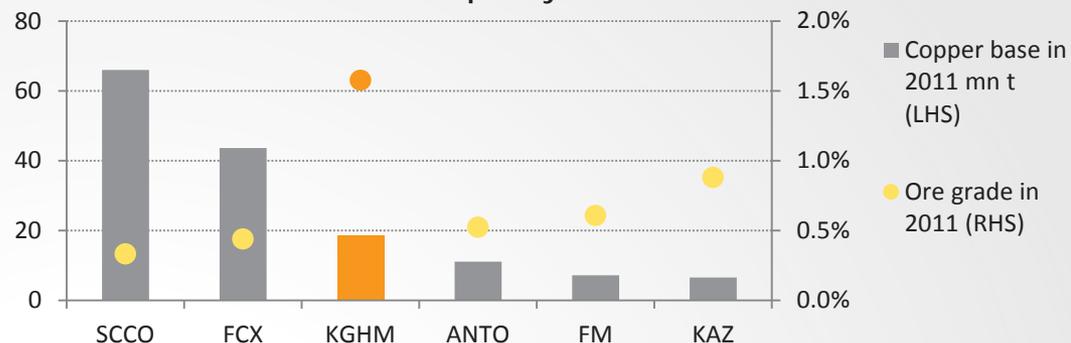
KGHM vs. Competitors

Resource base **after**
Quadra acquisition (mn t)

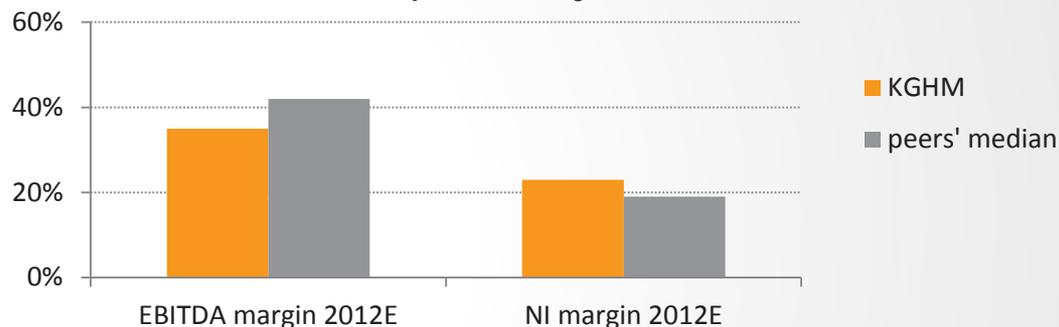
1	Codelco	93.2
2	Southern Copper	58.2
3	Freeport McMoRan	55.8
4	KGHM	37.5
5	BHP Billiton	35.2
6	Anglo American	31.6
7	Xstrata	18.1
8	Rio Tinto	17.0
9	RAO Norilsk	9.1
10	Antofagasta	8.9

Source: Company data

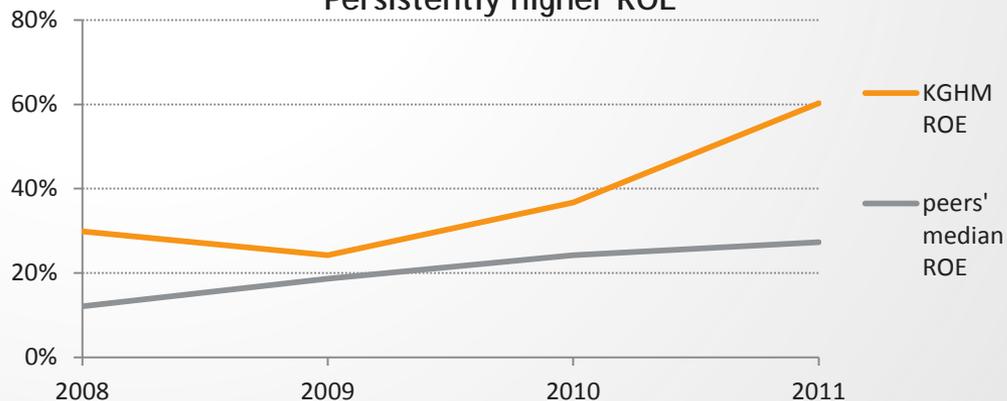
KGHM best quality of ore



In line profitability



Persistently higher ROE

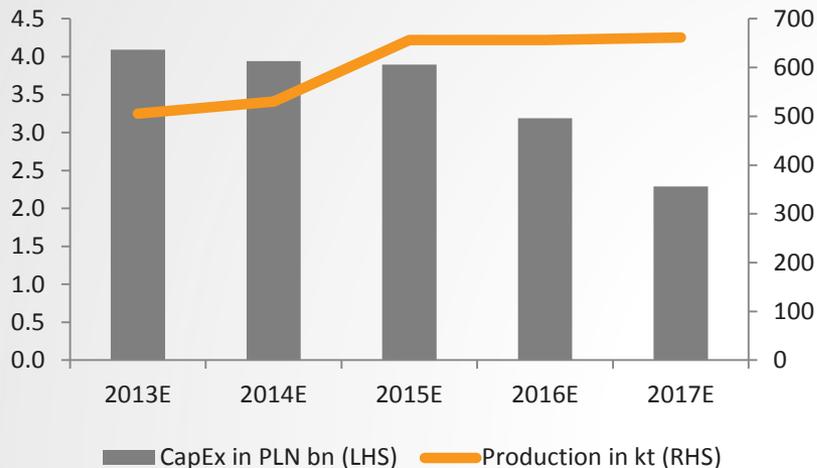




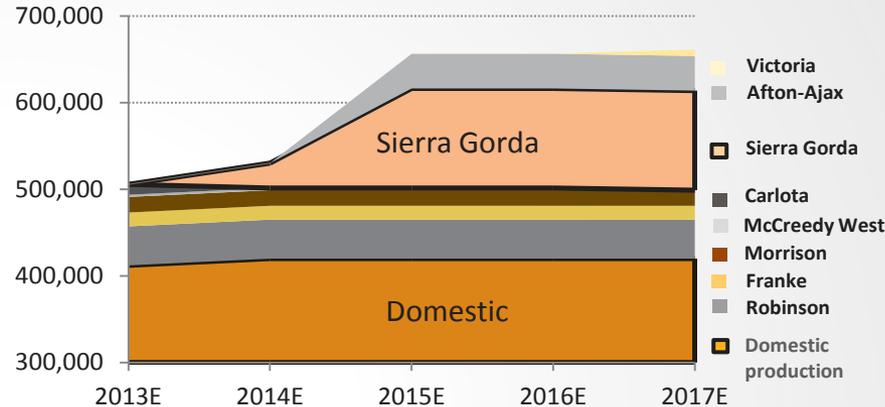
Financial Analysis

International expansion improves financial position

CapEx vs. production

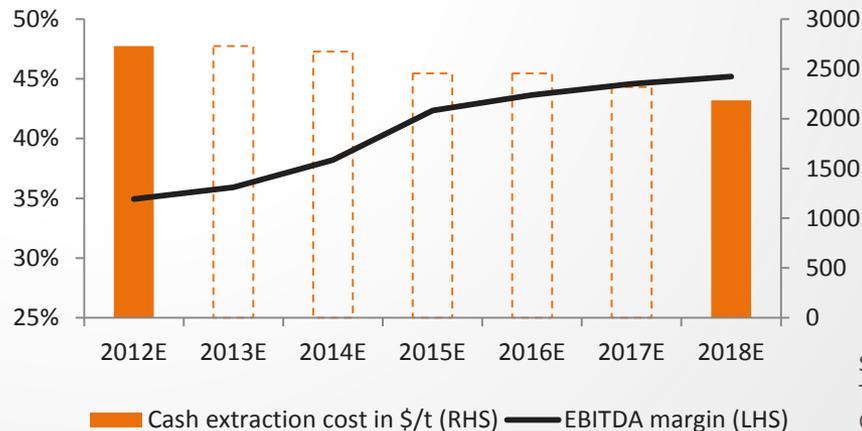


Detailed copper production in t



- CapEx will translate into production
- KGHM will significantly increase its pipeline
- Falling cash extraction cost will improve EBITDA margin

Cash extraction cost vs. EBITDA



Source:
Team estimates,
Company data

USD/PLN rate = 3.30

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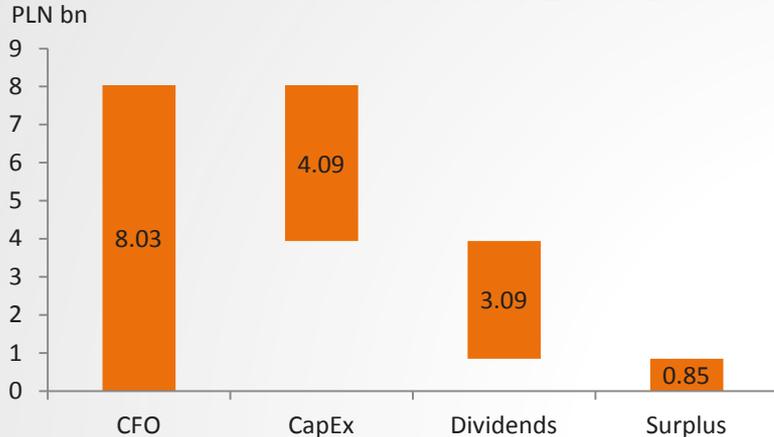
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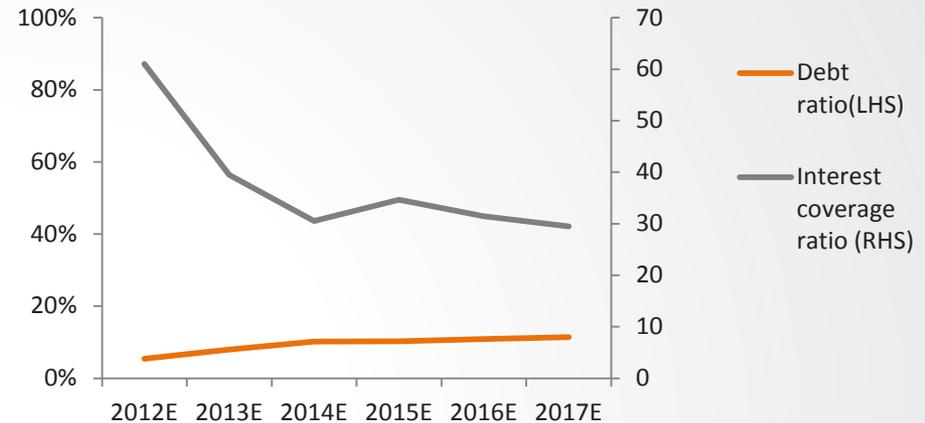
Conclusion

High debt capacity for possible further expansion

CFO breakdown 2013E

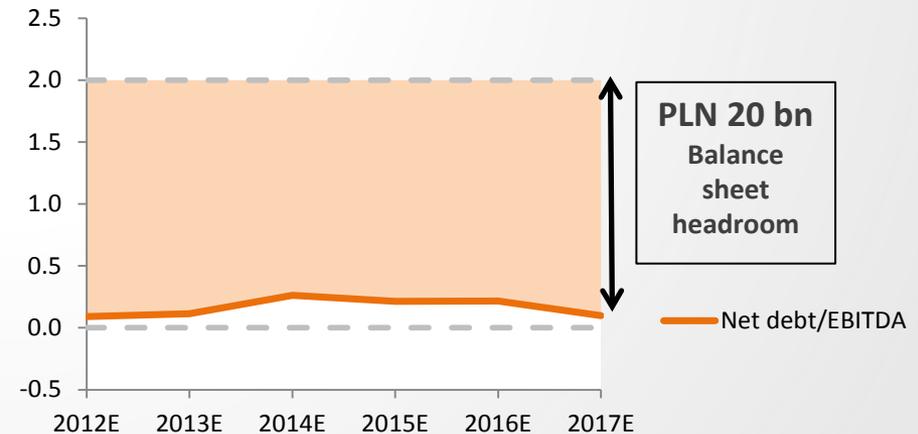


Debt ratio and interest coverage



- CFOs will cover expenditures and high dividends
- The least indebted mining company among its peers
- Net debt/EBITDA at low levels
- **Possible easy access to debt in case of new big projects/acquisitions**

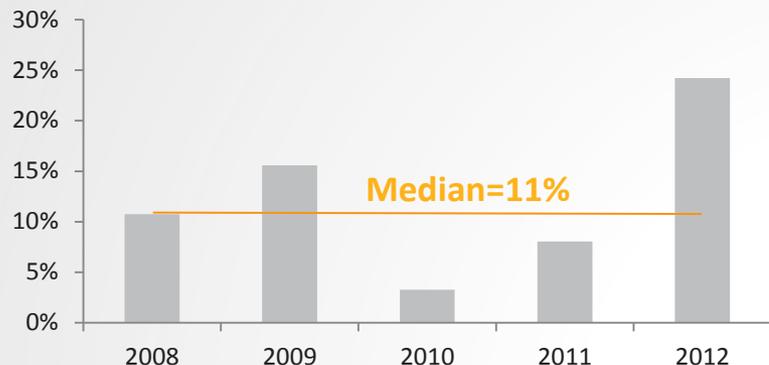
Net debt/EBITDA and balance sheet headroom



USD/PLN rate = 3.30

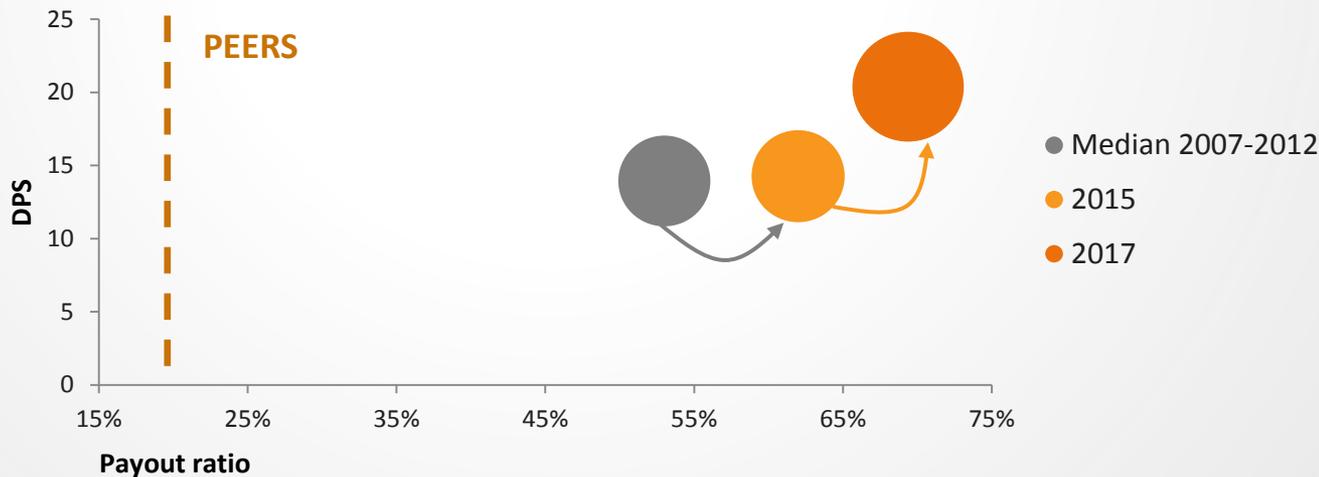
Attractive dividend policy, unique in copper sector

Dividend yields in period 2008-2012



- Estimated median dividend per share in period 2013E-2017E at level of PLN 16.91
- Estimated median payout ratio in period 2013E-2017E at level of 62%

Dividends per share and payout ratios of KGHM



Valuation

Multipliers pricing

Peer group selection criteria

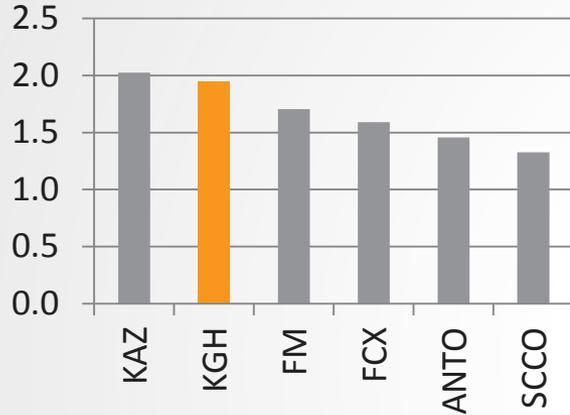
- At least 75% of revenues derived from copper sales
- Total revenues of at least USD 5bn
- Copper sold produced primarily from own resources



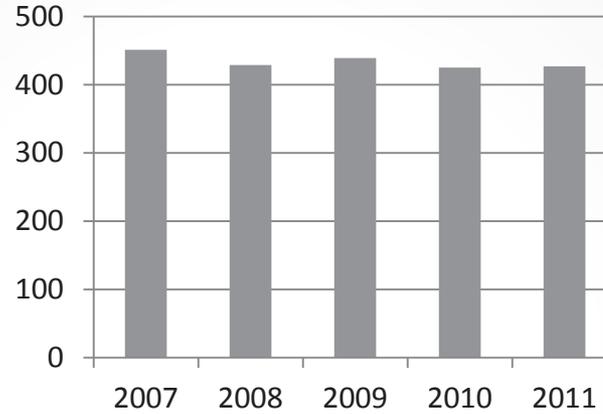
Multipliers	P/E		EV/EBITDA	
Forward years	2013	2014	2013	2014
Multipliers' values	13.6	10.9	6.0	5.1
Weights for years	50%	50%	50%	50%
Weights for multipliers	50%		50%	
PLN 247.5				

Multipliers pricing

Peer group beta
- higher KGHM's systematic risk

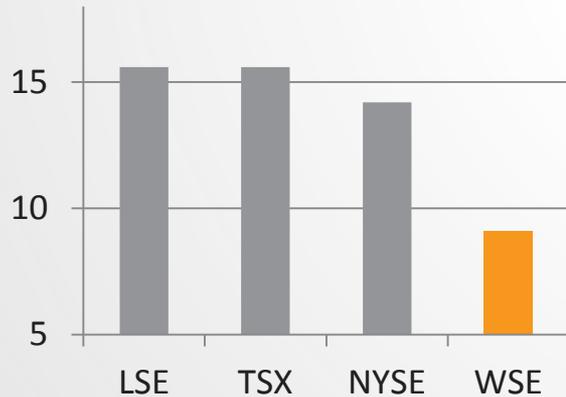


Mined copper production (kt)
- no organic growth in the past



-50%
Historical
discount

P/E on selected exchanges



Impact of the State Treasury



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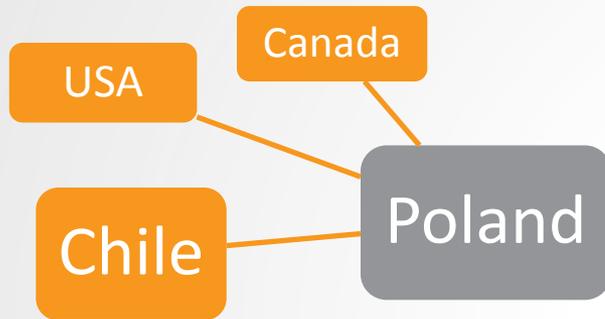
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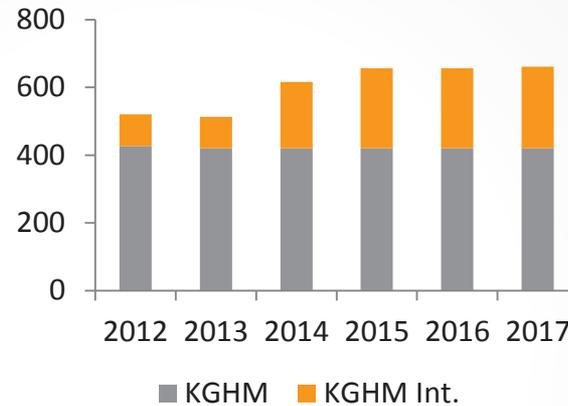
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Multipliers pricing

Diversification

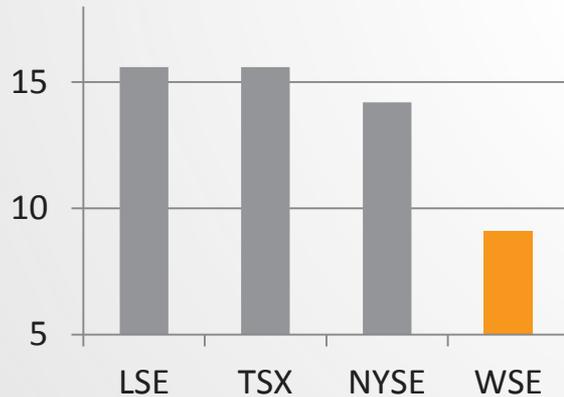


Growth in production (kt)



-50%
Historical
discount

P/E on selected exchanges



Impact of the State Treasury



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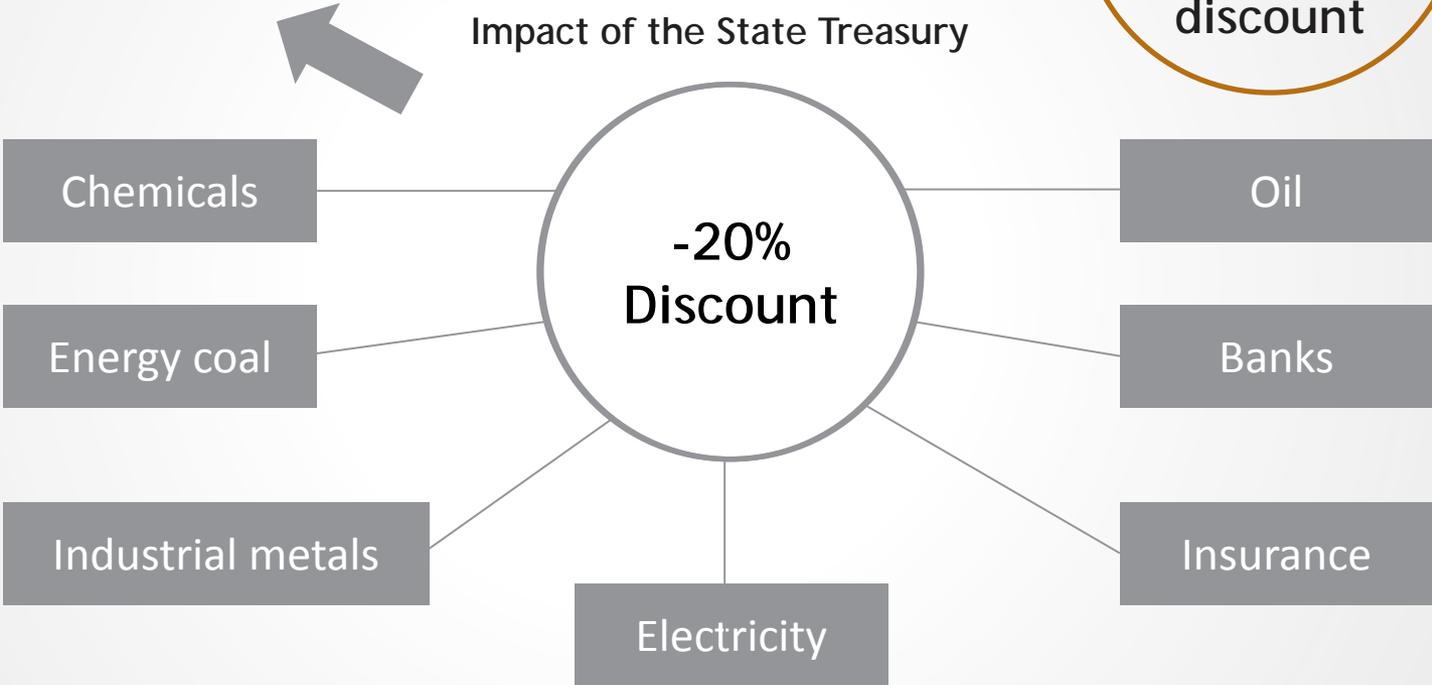
Multipliers pricing

International competitors



-50%
Historical discount

Impact of the State Treasury



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Multipliers pricing

-50%
Historical discount

Multipliers	P/E		EV/EBITDA	
Applied discount	20%	20%	20%	20%
Adjusted multipliers	10.25	10.8	4.0	4.1
Weights for years	50%	50%	50%	50%
Weights for multipliers	50%		50%	
Final price	PLN 192.1			

DCF assumptions

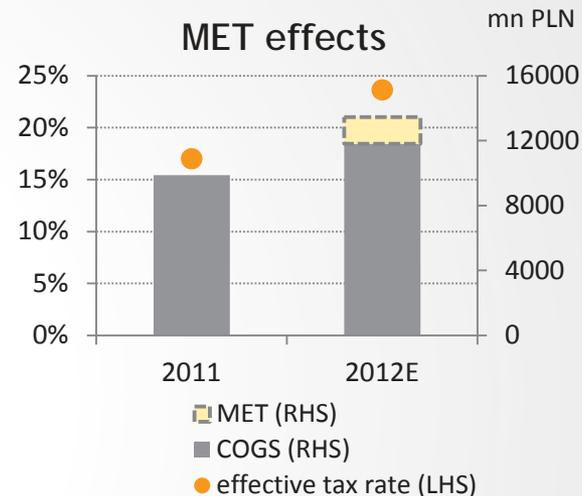
- Decrease in the main revenue drivers: copper and silver prices – according to World Bank forecasts

	2012E	2013E	2014E	2015E	2016E	2017E
Cu price USD/t	7 962	7 800	7 400	7 000	6 900	6 800
Ag price USD/troz	31.14	31	29.5	28	27.68	26.5
USD/PLN	3.30	3.23	3.14	3.10	3.06	3.05

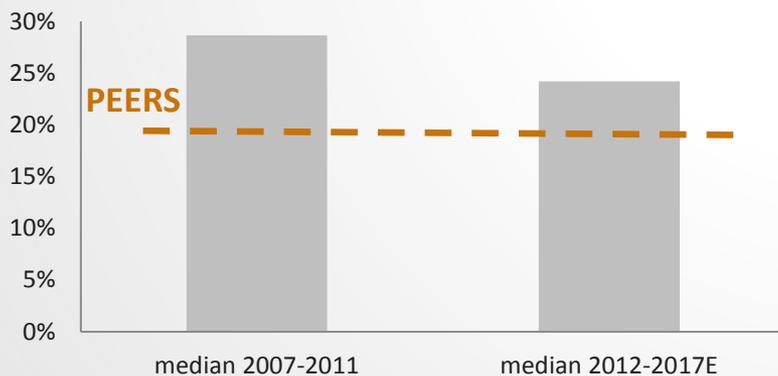
Source:

World Bank Commodity Price Forecast, exchange rate EMIS database (based on a analysts' consensus)

- Introduction of Mineral Extraction Tax (MET) in 2012 increases COGS and effective tax rate



KGHM net income margin



Changing WACC

	2012	residual value
Risk free rate	3.44%	3.44%
Beta	1.9	1.4
Market risk premium	5%	5%
Country risk premium	1.5%	1.5%
Cost of debt	6.2%	6.2%
WACC	15.3%	11.5%

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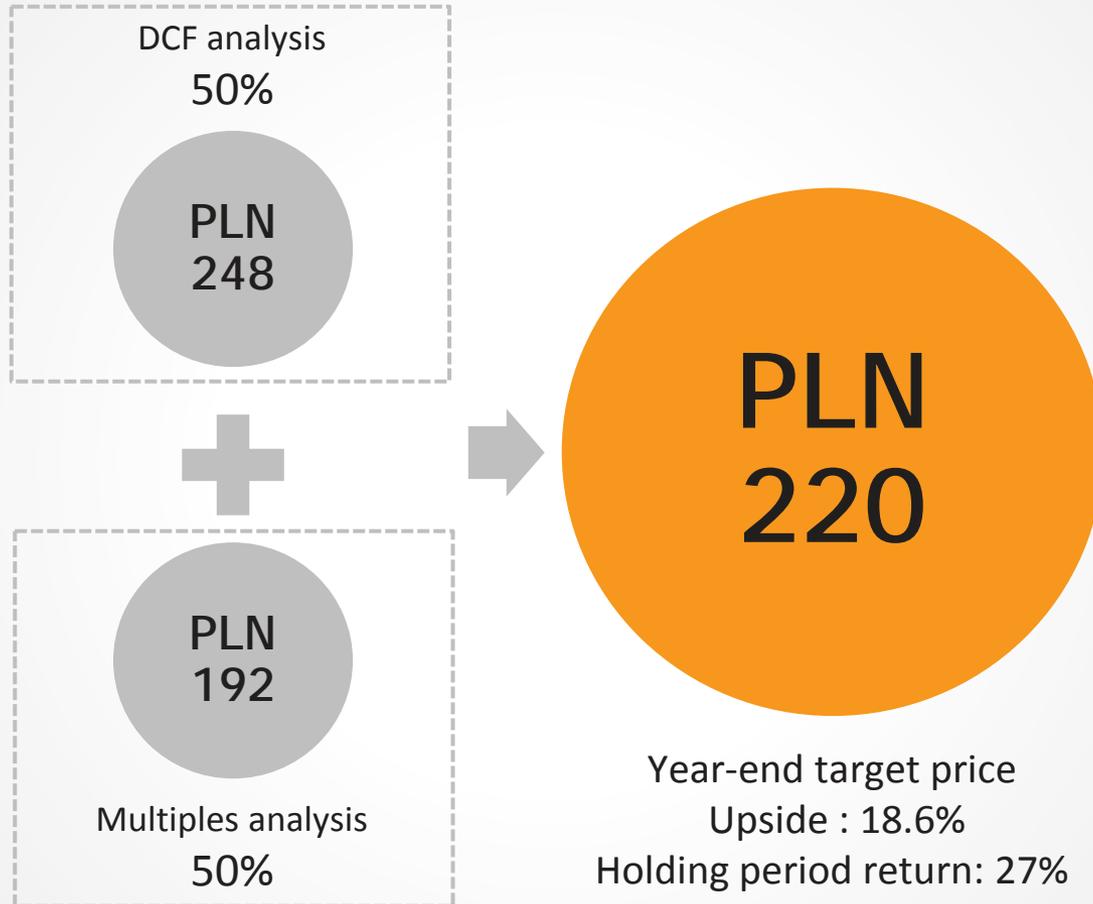
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Target price



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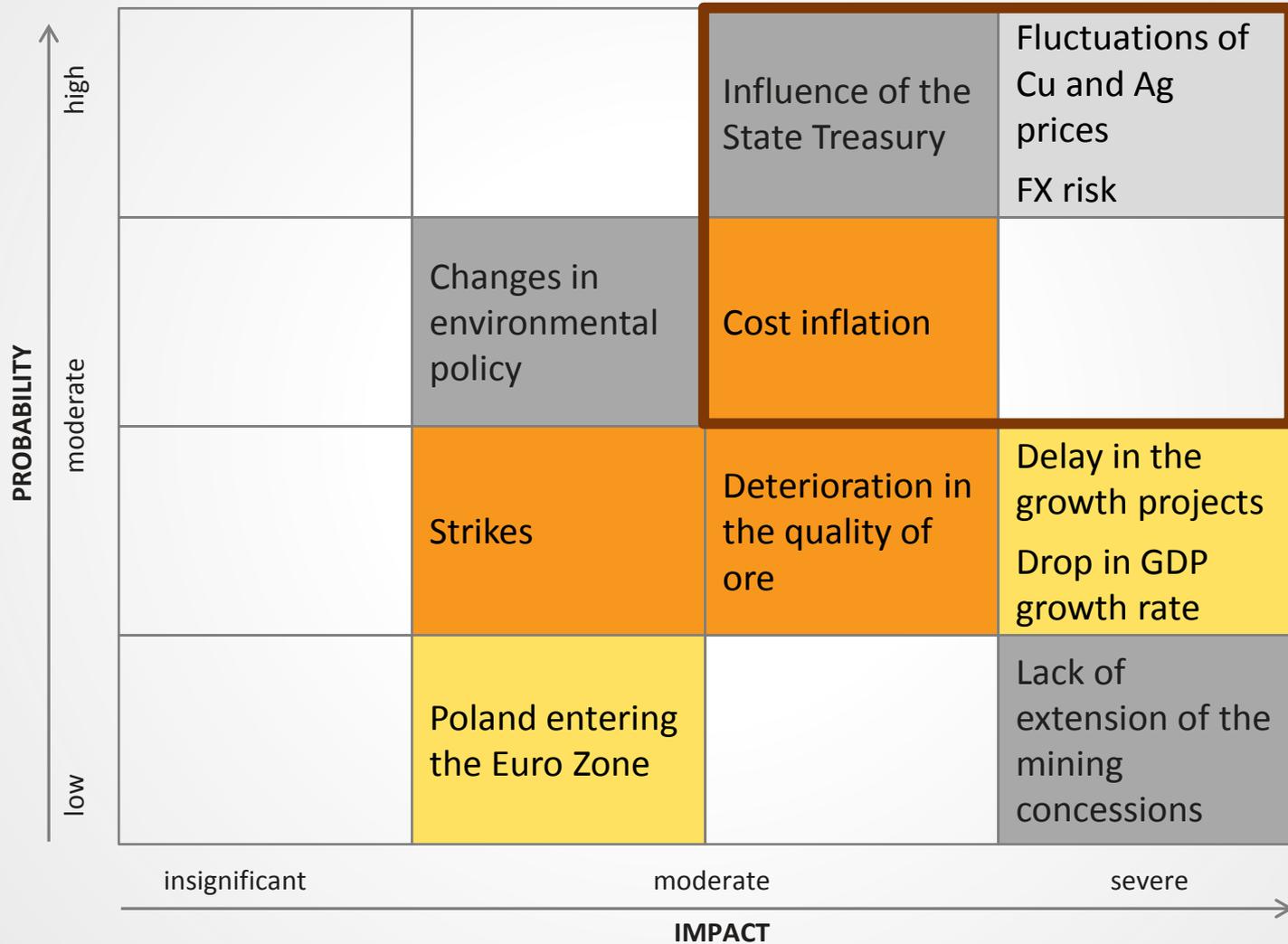
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Risk Analysis

Main risks

Market	Economic
Operational	Political



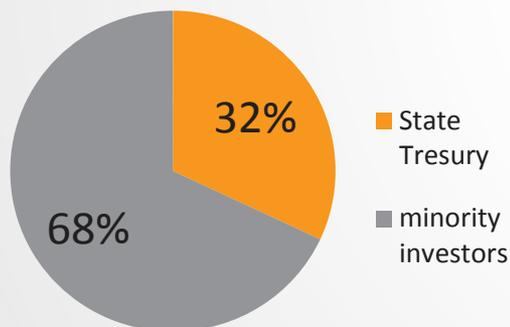
Main risks

State Treasury - influence on strategic decisions

- acquisitions
 - limiting new acquisitions due to savings for high dividends
- investments
 - shale gas, energy sector, atomic power plant – risky and highly capital consuming
- high dividend payout
 - putting pressure on high dividends (as they can be a way to decrease fiscal deficit)



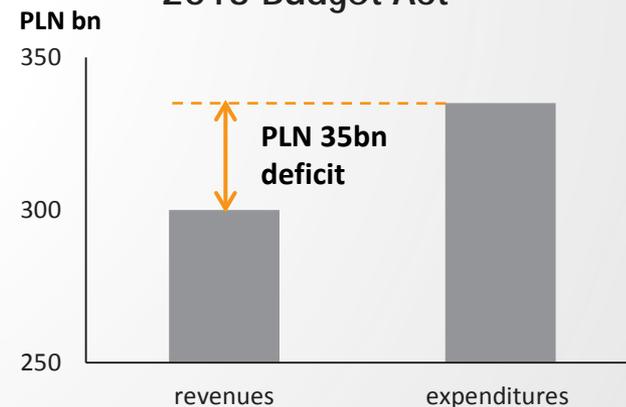
Shareholders structure



Dividend statistics

average dividend payout ratio	60%
2009-2017E	
average dividend per share	PLN 16
2009-2017E	

Polish Fiscal Deficit based on 2013 Budget Act



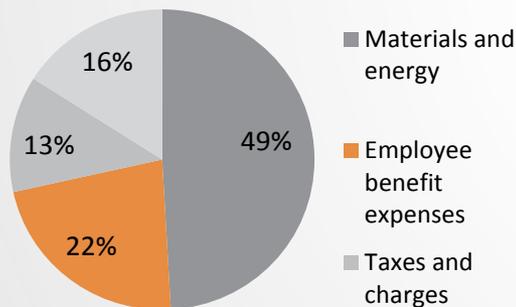
Main risks

Reducing the impact of possible increase in energy, labour and extraction costs

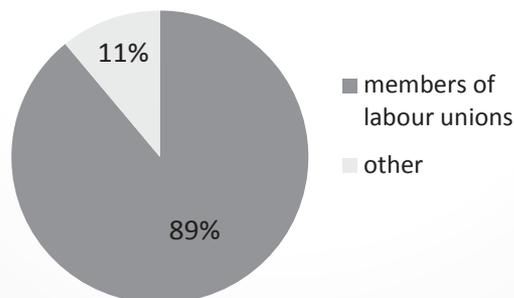
- investments in energy sector (joint venture with Tauron)
- maintaining good relations with labour unions
- development of new cost-efficient technologies
- decreasing the average Group extraction cash cost (C1) after acquisition of Quadra



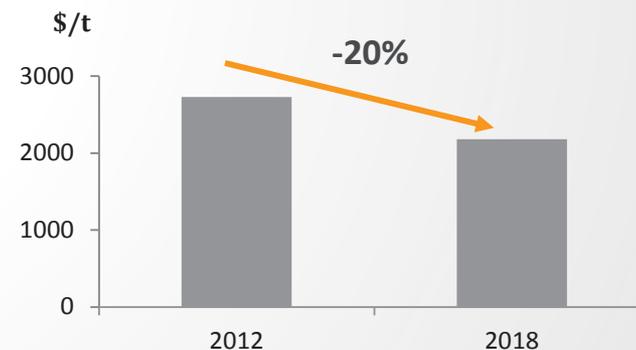
2012 Q3 expenses by nature



Employees in labour unions



C1 extraction cash cost

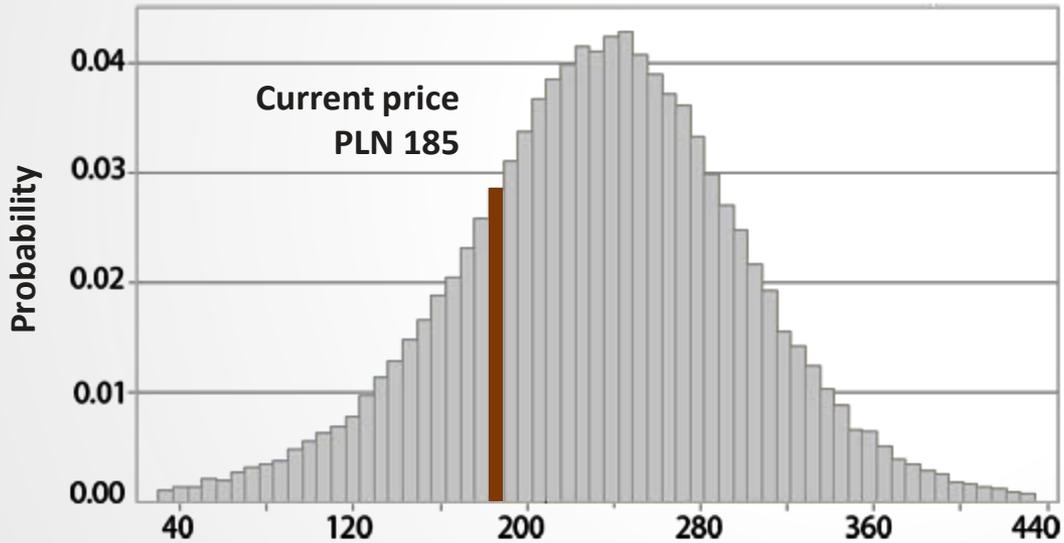


Monte Carlo simulation

The main revenue drivers

- Copper & silver prices
- USD/PLN exchange rate

Influence of the State Treasury	Fluctuations of Cu and Ag prices
	FX risk
Costs inflation	



Monte Carlo summarizing statistics

Mean	233.15
10 th percentile	PLN 146.41
90 th percentile	PLN 319.81
Upside potential	75%



Conclusion

Conclusion



12 M Target price	Upside potential	3Y HPR
PLN 220	18.6%	56%

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Thank you for your attention!