

# A look behind the recommendations of Zürcher Kantonalbank's Research

150 JAHRE



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# Preface

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Credibility, integrity and specialist knowledge are the capital on which we financial analysts rely. Independence is another prerequisite for an objective financial analysis in the service of our clients. And in order to be verifiable and therefore credible to you, our clients, transparency with regard to our performance is equally indispensable.

Our brochure is dedicated to this objective. It is intended to provide a brief and concise outline of the philosophy of Zürcher Kantonalbank's Research regarding recommendations. With this publication we also fulfil the requirements of the SBA Directive of 1 July 2003 (revised as of 1 July 2008) on the independence of analysts.

Sven Bucher  
Head of Research  
Zürcher Kantonalbank



# Part 1

## General remarks



# Research

## Independence and integrity

- The ZKB Research acts independently and puts customer needs first. This is ensured by the research process, the people involved and the organisational structure
- Independent of capital market interests
- Analysts are not remunerated on a commission basis
- No proprietary trading of shares, bonds, derivatives, etc. in the companies covered by the relevant analyst. Proprietary trading in Swiss companies is generally only possible for SLI (Swiss Leader Index) shares
- Bond ratings based on presence in the capital market (no mandate as with S&P etc.)
- Continuous performance measurement\* of stock recommendations (this is part of the assessment system for the individual analysts)

\* until 2013 by the independent institution isfa and since then according to the isfa methodology

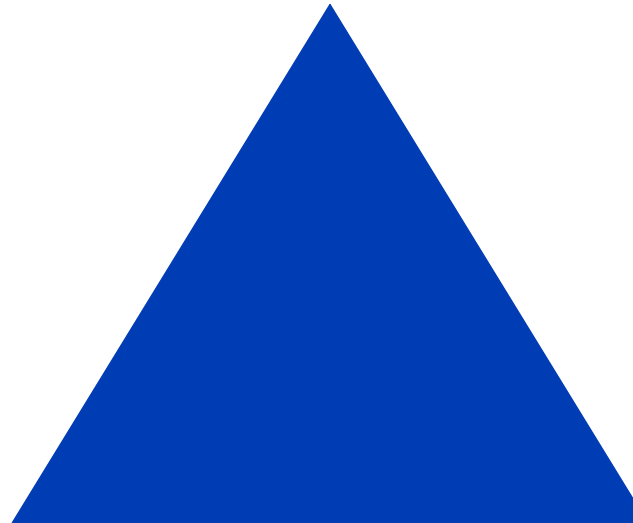
# What is the basis of our recommendations?

## Independence

- Functional, hierarchical and remuneration-related independence of Research from other departments (in accordance with SBA guidelines)

## Fundamentales Research

- Detailed knowledge of the companies/industries covered
- Various valuation methods
- "Recognised" rating models
- Permanent market observation



## Cooperation/synergies

- Close cooperation between equity and bond analysts
- Access to in-house expertise in macro research and investment strategy

# Part II

## Stock recommendations



# Stock A or B?

## In the beginning there is the investment strategy

### Investment strategy

- The investor defines his or her investment strategy
- The investment strategy is based on client needs (e.g. time horizon, asset size, risk capacity) and shapes the asset allocation
  - Asset allocation: Distribution of assets to the major asset classes such as equity, bonds, liquidity or alternative investments (e.g. real estate, hedge funds)
  - The investment strategy determines whether an investor should have e.g. equity and how high the equity quota should be
- The investor should not judge stock recommendations in an isolated manner but within the framework of the chosen strategy
- The stock selection serves to "refine" the strategic or tactical equity quota

# How do our recommendations come about?

## Qualitative decision-making factors



# How do our recommendations come about?

## Quantitative valuation models

### Earnings model

- Economic scenarios (regarding e.g. GDP, inflation, exchange rate assumptions) based on analyses performed by the macroeconomic analysts of Zürcher Kantonalbank
- Sector-specific developments: Supply, demand, competitors, suppliers, legislation/policy, new technologies etc.
- All relevant figures in the income statement, balance sheet and cash flow statement are estimated over a time horizon of at least 5 years
- These figures then serve as input for the valuation models (see below)

### More complex / absolute valuation models

- DCF model: enterprise value = sum of discounted free cash flows
- DDM model: enterprise value = sum of discounted dividends
- SotP: enterprise value = sum of the individual parts of a company

### Simple/relative valuation and comparison key figures

- Price-earnings ratio (P/E ratio), price-cash flow ratio (P/CV ratio)
- Price/book value ratio (P/B ratio)
- PEG ratio (price-to-earnings growth ratio)
- EV/EBITDA ratio (enterprise value in relation to earnings before interest, taxes, depreciation and amortisation)

## Relative valuation methods

Statistical "multiples"	Simple multiples	<ul style="list-style-type: none"><li>– P/E, P/CF, P/B etc.</li><li>– EV/EBITDA</li><li>– EV/sales</li></ul>
	Growth multiples	<ul style="list-style-type: none"><li>– PEG (P/E/EPSt5Y), PCFg</li></ul>
Comparison of these figures with the peer group, in a historical context or to the overall market		

# Methods of stock/enterprise valuation

## Absolute valuation methods

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Dynamic  
(Time value of money)

**DCF** →

Enterprise value =  
sum of discounted FCF

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**DDM** →

Enterprise value =  
sum of discounted dividends

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Absolute value corresponds with discounted cash flows

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**SotP** →

Enterprise value =  
sum of the individual parts (SotP)

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# Zürcher Kantonalbank Research

## Relative recommendations as standard

- We analysts at Zürcher Kantonalbank are convinced that we can generate added value compared to a passive approach. Our track record confirms this.
- Our approach: Relative recommendations versus a benchmark (in Switzerland: SPI). The expected relative performance is the anticipated total return over the next 12 months, which is made up of the share price performance (price gain or loss) plus distributions (e.g. dividends).
- **Market Perform:** Over the next twelve months, the share should perform roughly in line with the market/benchmark
- **Underperform:** Over the next twelve months, the share will likely perform less strongly than the market/benchmark
- **Outperform:** Over the next twelve months, the share is expected to perform better than the market/benchmark

# Zürcher Kantonalbank Research

## Relative recommendations as standard

How much out- or underperformance?

- The over- or underperformance we expect from a share with an according rating cannot be quantified uniformly as it depends on the risk level of the stock.
- The riskier a stock, the more outperformance it must deliver (and vice versa).
- On average: +/- 5% expected outperformance or underperformance corresponds to a "Market Perform" rating.

A large number of factors can influence the price performance and cause the development to deviate from the forecast.

- Exchange rate fluctuations, changes in management, economic factors, regulatory changes, competitive situation, technical problems with products, changes in demand, problems with input materials/commodities, operational incidents, M&A etc.
- This list is not exhaustive.

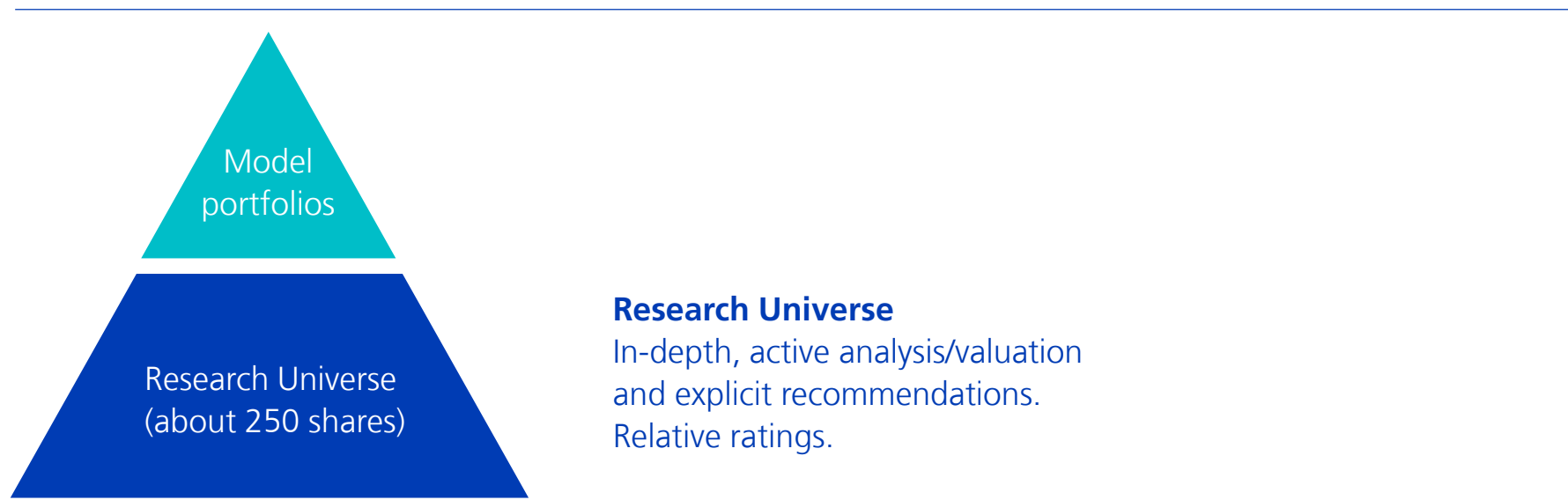
Accordingly, the rating and the relative upside potential may change at any time if new information becomes available.

# What recommendation lists does the ZKB Research maintain?

## Systematic consolidation of expertise

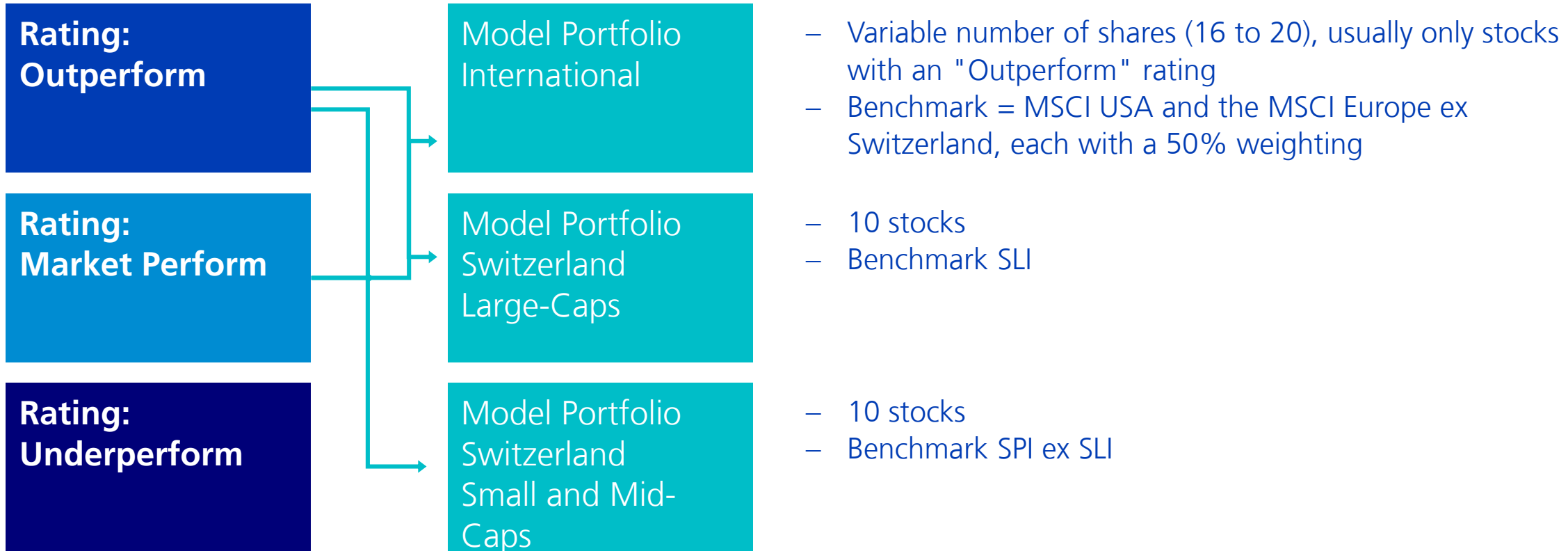
Switzerland: about 130 large, small and mid-caps

International: large caps and usually industry leaders



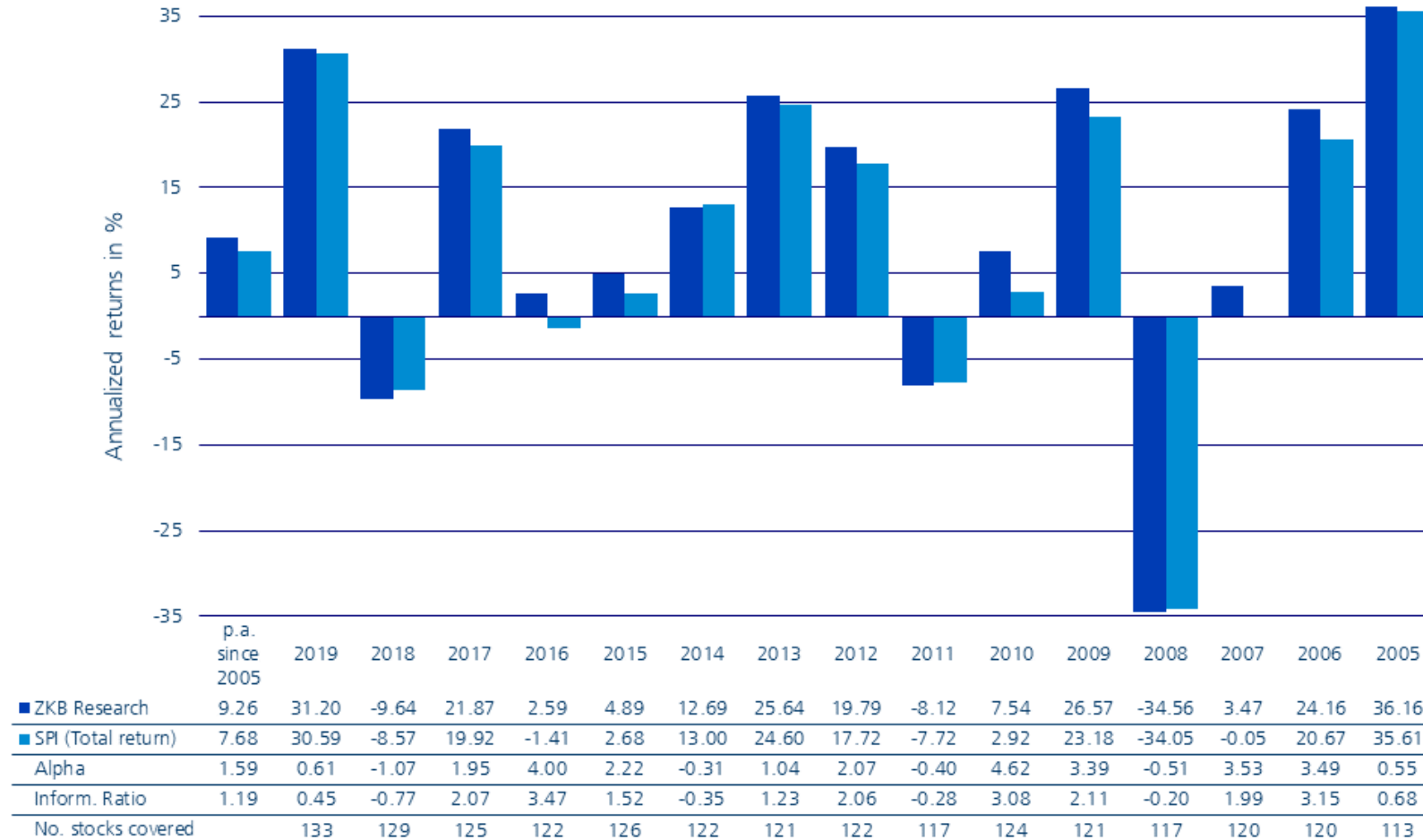
# From ratings to sample portfolios

## Sample portfolios – an additional recommended list with a limited number of stocks



# Stock recommendations with added value

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Source: Zürcher Kantonalbank / ISfA until 2013

# The Research Universe in the spotlight

## Principles of coverage

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# Part III

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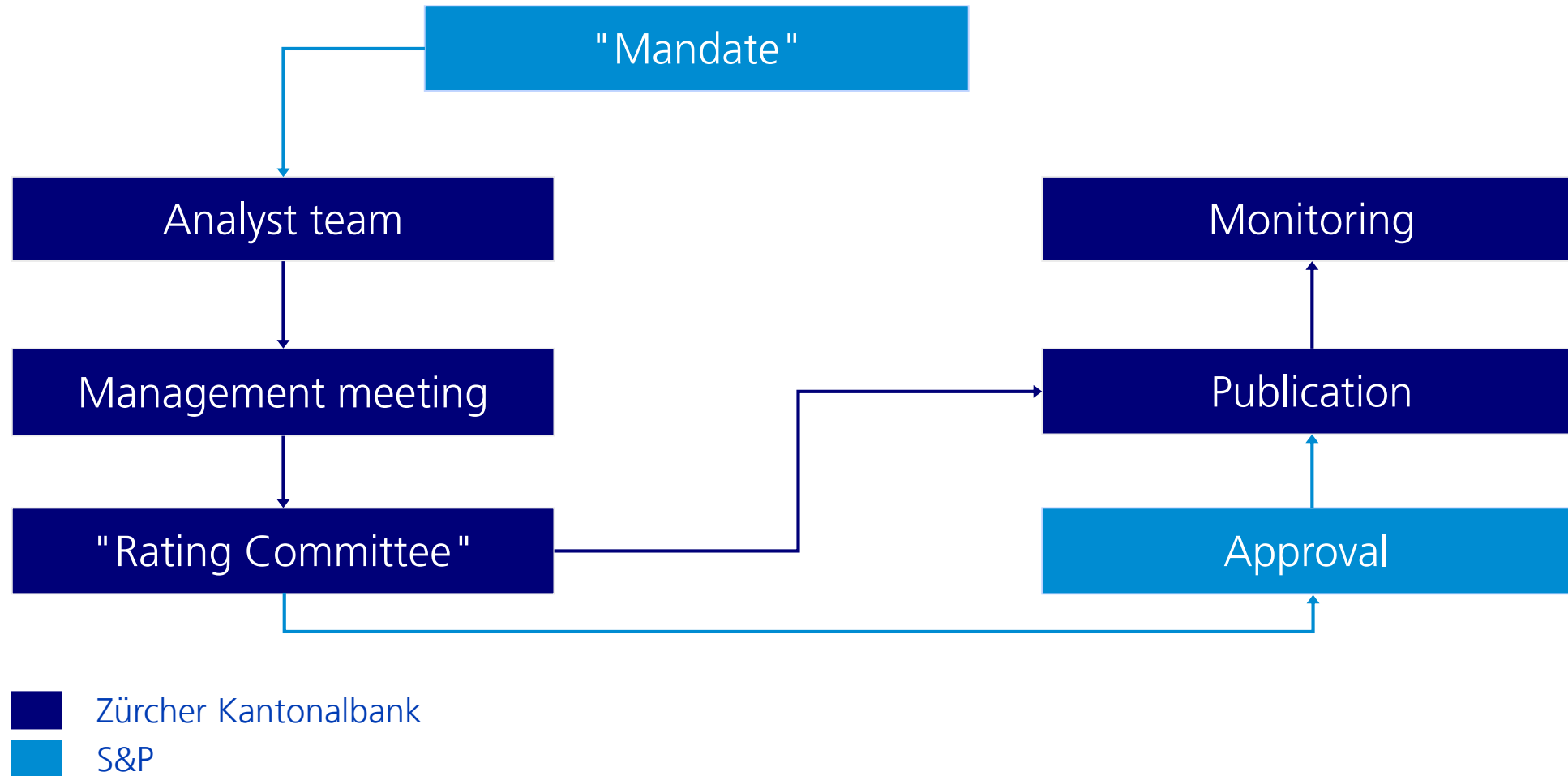
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Bond ratings



# Bond research

## Rating process of Zürcher Kantonalbank



Source: Own illustration; credit assessments (ratings) of Zürcher Kantonalbank may not be sent to recipients in the EEA

# Bond research

## Rating process – criteria

### Different rating models

#### Private-law companies = issuers under private law

Criteria:

1. Business risk (qualitative factors)
2. Financial risk (quantitative factors)

#### Regional public authorities = public-law debtors

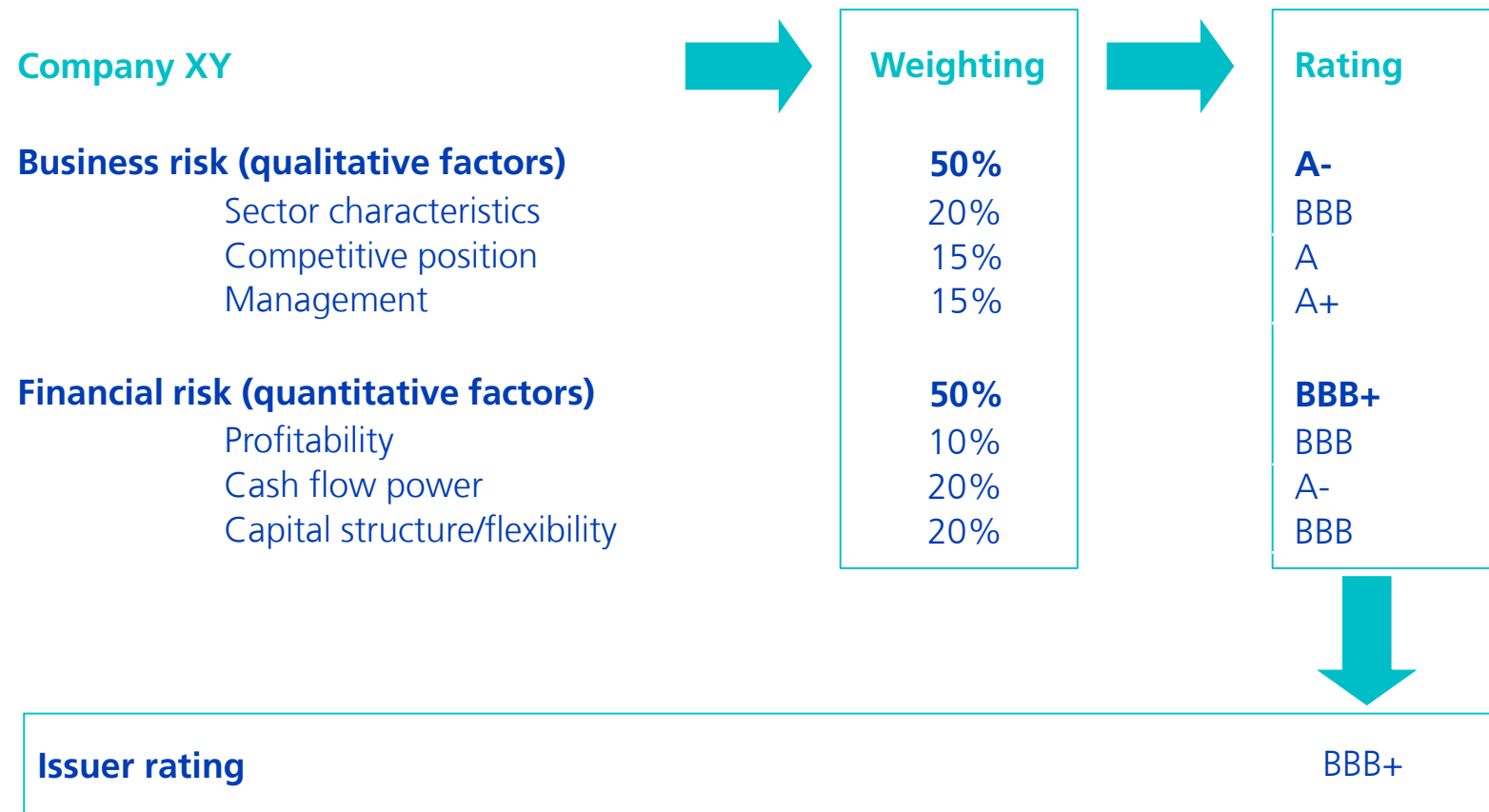
Criteria:

1. Economic strength
2. Current account statement
3. Legacy liabilities

# Rating process: issuers under private law

## Industrial company (fictitious example)

### Subratings and their weightings



# Rating process: industrial company (fictitious)

## Valuation of business risks

Sector characteristics	Weighting 20%	Degree of fulfilment 62%	Rating BBB
Competitive situation	4.0%	50%	BB+
Resistance to business cycles	4.0%	50%	BB+
Growth opportunities	4.0%	65%	BBB
Technological vulnerability	4.0%	65%	BBB
Government regulations	4.0%	80%	A
<b>Competitive position</b>	<b>15%</b>	<b>77%</b>	<b>A</b>
Market share	3.8%	85%	A+
Technology	3.8%	85%	A+
Diversification - geographic	3.8%	70%	BBB+
Diversification - products	3.8%	69%	BBB+
<b>Management</b>	<b>15%</b>	<b>83%</b>	<b>A+</b>
Corporate strategy	3%	86%	AA-
Industry experience	3%	86%	AA-
Credibility	3%	80%	A
Consistency	3%	80%	A
Risk tolerance	3%	85%	A+
<b>Total business risk</b>	<b>50%</b>	<b>73%</b>	<b>A-</b>

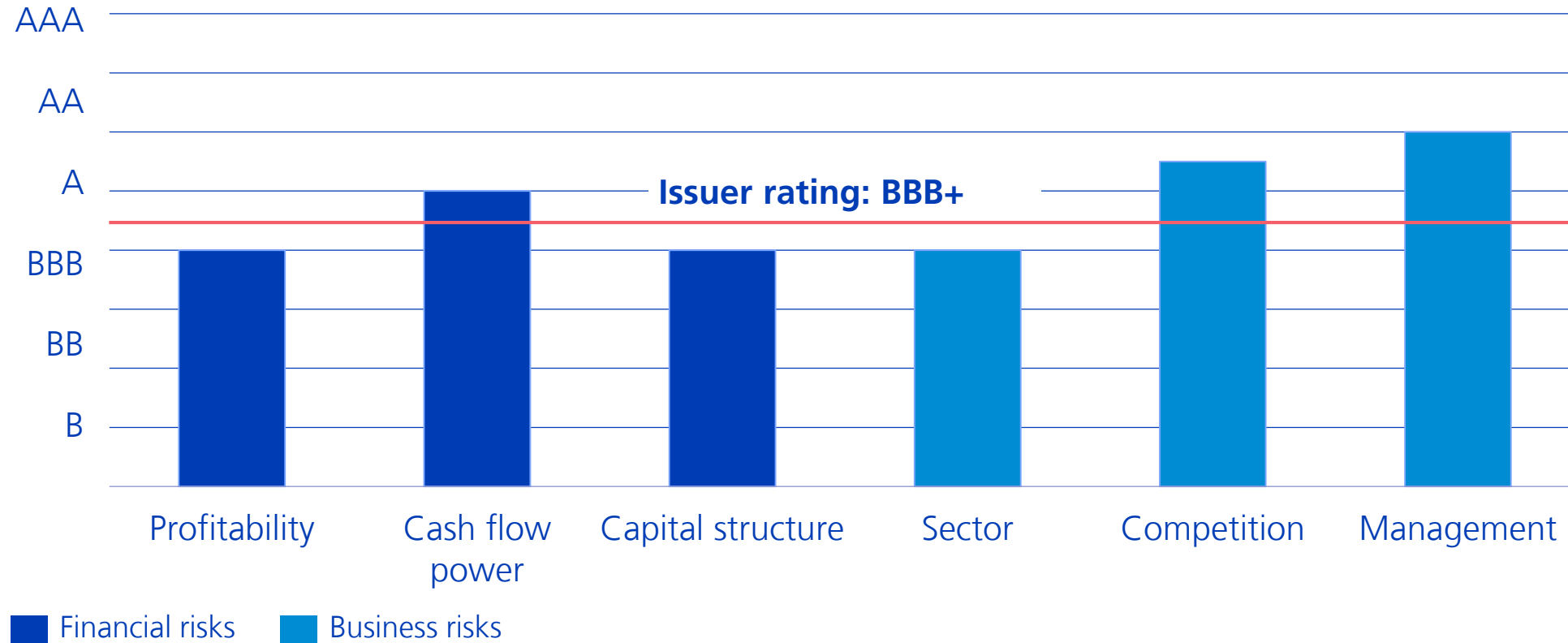
# Rating process: industrial company (fictitious)

## Evaluation of financial risks

	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	Weighting	Deg. fulfilment	Rating
Profitability														10%	60%	BBB
EBIT margin (in %)	4.1	2.3	-2.9	5.3	6.8	8.1	7.2	3.0	-6.9	5.2	6.6	6.1	6.4	3.0%	60%	BBB
EBITDA margin (in %)	9.3	8.0	8.7	10.7	10.9	11.7	10.8	8.7	3.6	9.5	10.4	9.7	10.2	3.0%	60%	BBB
ROA (EBIT/total eq., in %)	4.4	2.6	-3.2	5.9	8.2	10.2	9.6	4.1	-7.0	6.3	8.0	7.6	7.6	2.0%	60%	BBB
ROE (net profit/EqC, in %)	6.2	-1.8	-14.8	9.6	13.9	17.3	15.5	3.8	-19.2	9.6	13.7	9.9	11.5	2.0%	60%	BBB
<b>Cash flow power</b>														<b>20%</b>	<b>66%</b>	<b>BBB+</b>
Operating cash flow (in mn)	489	383	413	584	75	444	516	197	242	243	250	229	374	10%	66%	BBB+
Free cash flow (in mn)	-7	306	272	432	-100	298	185	-197	94	150	103	19	224	10%	66%	BBB+
<b>Capital structure/flexibility</b>														<b>20%</b>	<b>69%</b>	<b>BBB+</b>
Current ratio (in %)	165	150	169	158	192	198	186	177	145	188	182	189	208	4%	66%	BBB+
EqC ratio (in %)	29	34	31	32	39	45	45	43	40	40	42	44	43	4%	71%	A-
Gearing	1.1	1.0	1.0	0.7	0.5	0.2	0.3	0.4	0.4	0.3	0.2	0.2	0.2	4%	71%	A-
Net Debt/EBITDA	3.2	3.9	3.4	1.9	1.5	0.7	1.0	1.4	4.5	1.0	0.8	0.9	0.6	4%	66%	BBB+
Inter. cover. (EBITDA/net.int.)	5.2	3.8	3.9	7.0	8.4	14.4	12.1	10.5	3.0	8.4	10.4	10.3	11.1	4%	71%	A-
<b>Further key figures</b>																
Sales (in mn)	3848	3417	3257	3540	3692	4048	4497	4465	2906	3447	3511	3602	3500			
Net profit (in mn)	65	-20	-147	94	155	229	232	56	-238	108	168	127	147			
Net debt (in mn)	1134	1077	962	725	606	324	499	546	472	321	294	302	204			
<b>Total financial risk</b>														<b>50%</b>	<b>66%</b>	<b>BBB+</b>

# Rating process: industrial company (fictitious)

## Overview of rating factors

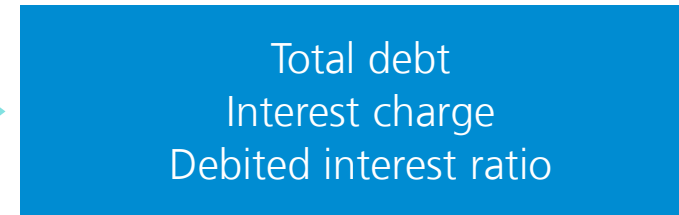


## Three valuation dimensions

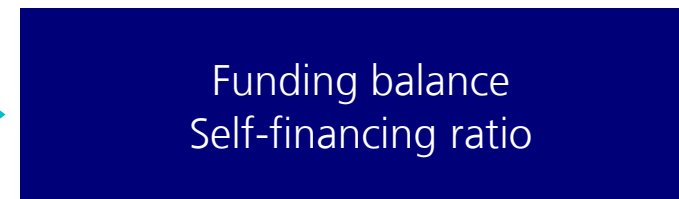
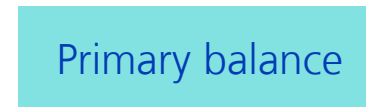
### 1. Economic strength



### 3. Legacy liabilities



### 2. Current account statement



# Inclusion of ratings from other rating agencies

- Ratings for Swiss issuers (primary analysis) are based on our own analyses.
- Ratings for foreign issuers (secondary analysis) are based on information from Standard & Poor's and Moody's, with the ZKB Bond Research team carrying out further analyses on a case-by-case basis.
- Rating changes (ZKB's, Standard & Poor's and Moody's) are commented on continuously by ZKB's bond research department.

**We are happy to help you with any questions you may have**

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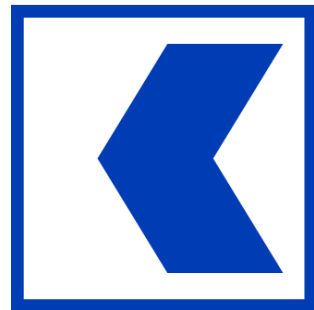
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