

DACH Capital Market Study

June 30, 2021

Analysis of cost of capital parameters and multiples for the capital markets of Germany, Austria and Switzerland







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June 30, 2021

1 Preface & people

DACH Capital Market Study Preface

Dear business partners and friends of ValueTrust,

We are pleased to release our ninth edition of the ValueTrust DACH¹¹ Capital Market Study powered by finexpert and W/ . The study was elaborated by ValueTrust Financial Advisors SE (ValueTrust) in cooperation with finexpert and the Institute of Accounting and Auditing at the WU Vienna W/ With this study, we provide a data compilation of the capital market parameters that enables an enterprise valuation in Germany, Austria and Switzerland. It has the purpose to serve as an assistant and data source as well as to show trends of the analyzed parameters.

In this study, we analyze the relevant parameters to calculate the costs of capital based on the Capital Asset Pricing Model (risk-free rate, market risk premium and beta). Additionally, we determine implied as well as historical market and sector returns. Moreover, this study includes capital structure-adjusted implied sector returns, which serve as an indicator for the unlevered cost of equity. The relevered cost of equity can be calculated by adapting the company specific debt situation to the unlevered cost of equity. This procedure serves as an alternative to the CAPM.

Furthermore, we provide an analysis of empirical (ex-post) costs of equity in the form of **total shareholder returns** which consist of capital gains and dividends. The total shareholder returns can be used as a plausibility check of the implied (ex-ante) returns. Lastly, **trading multiples** frame the end of this study.

We examine the before mentioned parameters for the **German, Austrian** and **Swiss capital market** (in form of the CDAX²), WBI³) and SPI⁴)). These indices have been merged into **twelve** finexpert sector indices (so-called "super sectors") Banking, Insurance, Financial Services, Consumer Service, Consumer Goods, Pharma & Healthcare, Information Technology, Telecommunication, Utilities, Basic Materials, Industrials and Real Estate. Please note that the order of the sectors in the presentations has been adjusted as of this study.

Historical data has been compiled between the reference dates June 30, 2015 and June 30, 2021 and will be updated semi-annually, with the objective that historical, as well as current data, can be consulted at the same time. Hence, we can understand changes in time, which allows to track the performance of all three capital markets. Additionally, further knowledge and information for financial decision making is provided at www.finexpert.info.

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DACH Capital Market Study

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- More than 25 years of experience in corporate valuation and financial advisory
- Previously Partner at KPMG and Managing Director at Duff & Phelps
- Honorary professor for "Practice of transaction-oriented company valuation and value-oriented management" at LMU Munich
- Member of the DVFA Expert Group "Fairness Opinions" and "Best Practice Recommendations Corporate Valuation"
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- More than 15 years of project experience in financial advisory, investment banking and investment management
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- Extensive experience in the valuation of listed and private companies in various industries and in advising on strategic and financial issues





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DACH Capital Market Study Disclaimer

This study presents an empirical analysis which serves the purpose of illustrating the cost of capital of Germany's, Austria's, and Switzerland's capital markets. Nevertheless, the available information and the corresponding exemplifications do not allow a complete presentation of a proper derivation of costs of capital. Furthermore, the market participant must consider that the company specific costs of capital can vary widely due to individual corporate situations.

The listed information is not specified to anyone and, consequently, it cannot be directed to an individual or juristic person. Although we are always endeavored to present information that is reliable, accurate, and current, we cannot guarantee that the data is applicable to valuation in the present as well as in the future. The same applies to our underlying data from the data provider S&P Capital IQ.

We recommend a self-contained, technical, and detailed analysis of the specific situation and we dissuade from acting based on the provided information only.

ValueTrust and its co-authors do not assume any liability for the up-to-datedness, completeness or accuracy of this study or its contents.

Executive summary

Executive Summary (1/2)

Cost of equity per sector according to four different methodologies

Sectors		Implied levered cost of equity 1)	Levered cost of equity (CAPM) ²⁾	1/PE-ratio (1yf)	Total shareholder return (Ø 6y) ³⁾
	Banking	10.0%	6.5%	8.0%	2.8%
= * = *	Insurance	10.2%	9.2%	8.1%	11.0%
稟	Financial Services	6.1%	7.1%	4.5%	24.4%
1000	Consumer Service	5.1%	7.9%	4.5%	27.7%
	Consumer Goods	8.5%	7.9%	4.1%	13.5%
%	Pharma & Healthcare	6.9%	7.8%	3.4%	11.3%

¹⁾ Due to the distortion of earnings forecasts as a consequence of the corona crisis we base our derivation of implied cost of equity on t+2 earnings, explaining the deviation from 1/PE-ratio (1yf).

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²⁾ Based on 2-year sector beta, risk-free rate of 0.35% and market risk premium of 8.2% for the German market.

³⁾ Total shareholder returns can be viewed as historic, realized cost of equity. However, it has to be considered that total shareholder returns vary widely, depending on the relevant time period.

Executive Summary (2/2)

Cost of equity per sector according to four different methodologies

Sectors		Implied levered cost of equity 1)	Levered cost of equity (CAPM) 2)	1/PE-ratio (1yf)	Total shareholder return (Ø 6y) ³⁾
	Information Technology	5.8%	8.2%	3.4%	21.9%
(((v))	Telecommunication	7.4%	6.1%	5.8%	5.8%
	Utilities	6.7%	5.2%	5.5%	16.9%
S	Basic Materials	8.4%	7.9%	6.5%	11.0%
	Industrials	6.5%	8.7%	4.1%	17.0%
	Real Estate	5.4%	5.8%	5.5%	15.3%

¹⁾ Due to the distortion of earnings forecasts as a consequence of the corona crisis we base our derivation of implied cost of equity on t+2 earnings, explaining the deviation from 1/PE-ratio (1yf).

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²⁾ Based on 2-year sector beta, risk-free rate of 0.35% and market risk premium of 8.2% for the German market.

³⁾ Total shareholder returns can be viewed as historic, realized cost of equity. However, it has to be considered that total shareholder returns vary widely, depending on the relevant time period.

Risk-free rate

Risk-Free Rate

Background & approach

The **risk-free** rate is a return available on a security that the market generally regards as free of default risk. It serves as an input parameter for the **CAPM** and to determine the risk-adequate cost of capital.

The risk-free rate is a yield, which is obtained from long-term government bonds of countries with top notch rating. By using interest rate data of different maturities, a yield curve can be estimated for fictitious zero-coupon bonds (spot rates) for a period of up to 30 years. Therefore, the German Central Bank (Deutsche Bundesbank) and the Swiss National Bank (Schweizer Nationalbank) publish — on a daily basis — the parameters needed to determine the yield curve using the Svensson method. Based on the respective yield curve, a uniform risk-free rate is derived under the assumption of present value equivalence to an infinite time horizon.

The **German bonds** are internationally classified as **almost risk-free securities** due to their AAA rating according to S&P. As a result, the **Austrian** Chamber of Public Accountants and Tax Consultants also recommends deriving the risk-free rate from the yield curve using the parameters published by the German Central Bank.¹⁾ Likewise, bonds issued by **Switzerland** enjoy a AAA rating and are also considered risk-free according to the Swiss National Bank.²⁾ Hence, a similar approach as for Germany and Austria is in our view appropriate for Switzerland with Swiss parameters.³⁾

To compute the risk-free rate for a specific reference date, the **Institute** of Public Auditors (Institut der Wirtschaftsprüfer, IDW) in Germany recommends using an average value deduced from the daily yield curves of the past three months (IDW S 1).

On the contrary, the Austrian Expert Opinion (KFS/BW 1) on company valuation recommends to derive the risk-free rate in line with the evaluated company's cash flow profile from the yield curve that is valid for the reference date (reference date principle). Thus, the KFS/BW 1 and its counterpart, the IDW S 1, differ from each other. Consequently, in the following analyses, we depict the yield curve for Germany following IDW S 1 while for Austria we adhere to the recommendations of KFS/BW 1.

For **Switzerland**, there is no generally accepted scheme to determine the risk-free rate. The most widely used risk-free rates in valuation practice are the yield of a **10-year Swiss government bond** as of the reference date as well as the **yield derived from the 3-month average of the daily yield curves** (in accordance with IDW S 1).

Additionally, we illustrate the monthly development of the risk-free rates since June 2015 for all three capital markets.

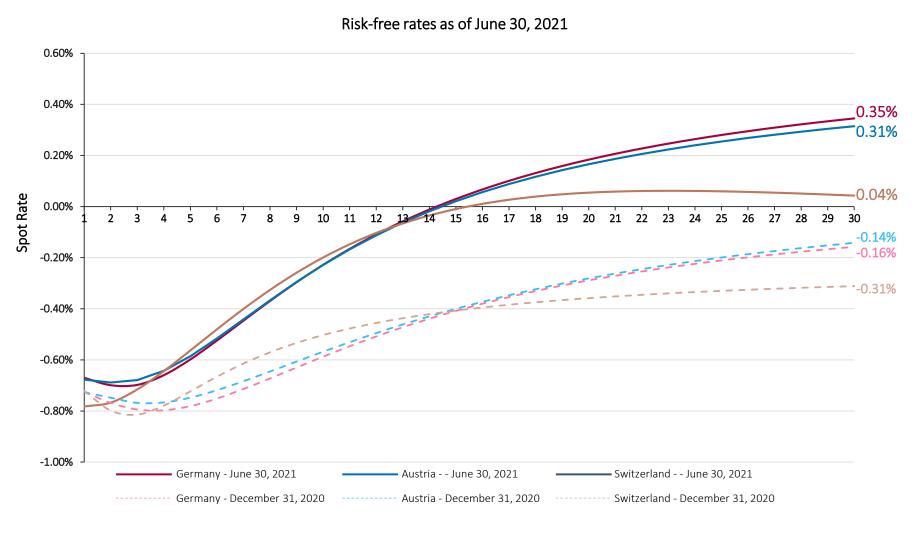
¹⁾ www.bundesbank.de.

²⁾ Swiss National Bank – Zinssätze und Renditen, p.11.

³⁾ ibid., p.13.

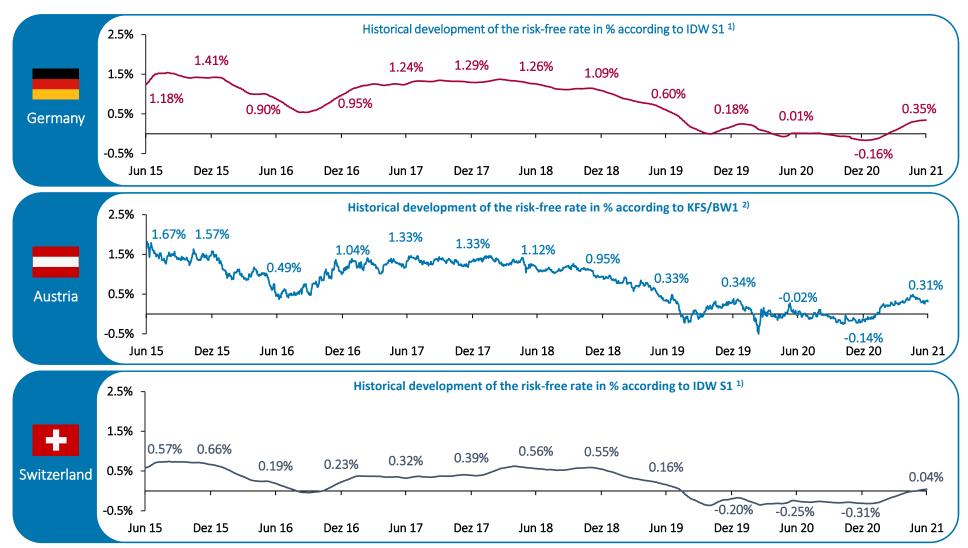
Risk-Free Rate - DACH

Determination according to country specific recommendations Interest rate curve based on long-term bonds (Svensson method)



Risk-Free Rate – DACH

Historical development of the risk-free rate (Svensson method) since June 2015



1) Interest rate as of reference date using 3-month average yield curves in accordance with IDW S 1; 2) Interest rate calculated using the daily yield curve in accordance with KFS/BW 1 (no 3-month average).

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4 Market returns and market risk premium

a. Implied returns (ex-ante analysis)

Implied Market Returns and Market Premium

Background & approach

The future-oriented computation of implied market returns and market risk premiums is based on profit estimates for public companies and return calculations. This approach is called ex-ante analysis and allows to calculate the "implied cost of capital". It is to be distinguished from the ex-post analysis.

Particularly, the **ex-ante method** offers an **alternative** to the **ex-post approach** of calculating the costs of capital by means of the regression analysis through the **CAPM**. The ex-ante analysis method seeks costs of capital which represent the **return expectations of market participants**. Moreover, it is supposed that the estimates of financial analysts reflect the expectations of the capital market.

The concept of **implied cost of capital** gained in momentum recently. For example, it was recognized by the German *Fachausschuss für Unternehmensbewertung* "FAUB".¹⁾ It is acknowledged that implied cost of capital capture the **current capital market situation** and are thus able to reflect the effects of the current **low interest rate environment**.

Furthermore, recent **court rulings** with regards to appraisal proceedings appreciate the use of **implied cost of capital** as they are **forward-looking**. As of the **reference date**, it offers a more insightful perspective in comparison to the exclusive use of ex-post data.

For the following analysis, we use – simplified to annually – the formula of the Residual Income Valuation Model by *Babbel*:²⁾

$$r_{t} = \frac{NI_{t+2}}{MC_{t}} + \left(1 - \frac{BV_{t}}{MC_{t}}\right) * g$$

With the following parameter definitions:

r_t = Cost of equity at time t

 NI_{t+2} = Expected net income in the following time period t+2

MC_t = Market capitalization at time t
BV_t = Book value of equity at time t

g = Projected growth rate

Through dissolving the models to achieve the cost of capital, we obtain the implied return on equity.³⁾ Since *Babbel's* model does not need any explicit assumptions, except for the growth rate, it turns out to be **robust**. We source all data (i.e. the expected annual net income, the market capitalizations, and the company's book value of equity, etc.) of the analyzed companies from the data supplier S&P Capital IQ. Additionally, we apply the European Central Bank target inflation rate of **2.0% as a typified growth rate**.

Henceforth, we determine the **implied market returns** for the entire DAX, ATX and SMI. We consider these indices as a valid approximation for the total markets.⁴⁾ The results build the starting points for the calculations of the **implied market risk premiums** of the three capital markets. Subtracting the risk-free rate from the implied market returns results in the implied market risk premium.

To determine the appropriate market risk premium for valuation purposes, it is important to take also the analysis of historical returns as well as volatility into account. Especially in times of crisis it can make sense to apply an average market risk premium over several periods instead of a reference date value.

¹⁾ cf. Castedello/Jonas/Schieszl/Lenckner, Die Marktrisikoprämie im Niedrigzinsumfeld – Hintergrund und Erläuterung der Empfehlung des FAUB (WPg, 13/2018, p. 806-825).

²⁾ cf. Babbel, Challenging Stock Prices: Stock prices und implied growth expectations, in: Corporate Finance, N. 9, 2015, p. 316-323, in particular p. 319. We apply t+2 earnings forecasts in our model from 2021 onwards since the t+1 forecasts are significantly distorted by the COVID-19 crisis; this deviates from our approach in the European Capital Market study since there are no t+2 forecasts available, leading to lower implied returns.

³⁾ cf. Reese, 2007, Estimation of the costs of capital for evaluation purposes; Aders/Aschauer/Dollinger, Die implizite Marktrisikoprämie am österreichischen Kapitalmarkt (RWZ, 6/2016, p. 195-202).

⁴⁾ Approx. 75% of the total market capitalization (CDAX, WBI, SPI) is covered.

Implied Market Returns and Market Risk Premium German, Austrian and Swiss market



4 Market returns and market risk premium

b. Historical returns (ex-post analysis)

Historical Market Returns

Background & approach

Besides analyzing the implied market returns through the ex-ante analysis, we also analyze **historical (ex-post) returns**. Once this analysis is performed over a **long-term observation period**, an expected **return potential** of the German, Austrian and Swiss capital markets is assessable. Therefore, the analysis of historical returns can be used for **plausibility checks of the costs of capital**, more specifically **return requirements**, which were evaluated through the CAPM.

To further enable a precise analysis of the historical returns of the German, Austrian and Swiss capital markets, we use the so-called **return triangle**.¹⁾ It helps to present the **annually realized returns** from **different investment periods** in a simple and understandable way. Especially the **different buying and selling points in time** and the different annual holding periods are being illustrated comprehensively. To calculate the **average annual returns** over several years, we use both the **geometric and arithmetic mean**.

In this study, we analyze the so-called **total shareholder returns**, which include the **returns on investments** and the **dividend yields**. For our analysis, it is needful to focus on **total return indices** because they include the price and dividend yields. Since **DAX** is a performance index, we already have an index which includes the price and dividend yields. The ATX and SMI only include the price yields, hence we need their specific total return indices. The relevant total return index for Austria is called the **ATX Total Return** and for Switzerland **SMI Total Return**. The composition of both indices are identical to the ATX and the SMI and compromise 20 companies each.

The observation period amounts to 25 years. Therefore, the earliest data of the DAX and the ATX Total Return is from the end of 1994. However, the data of the SMI Total Return starts from the end of 1995. All ex-post returns are being calculated by using the data as of the reference date June 30.

The following slides illustrate how the two calculation methods (arithmetic and geometric) differ from each other for the period between June 30, 1996 and June 30, 2021:

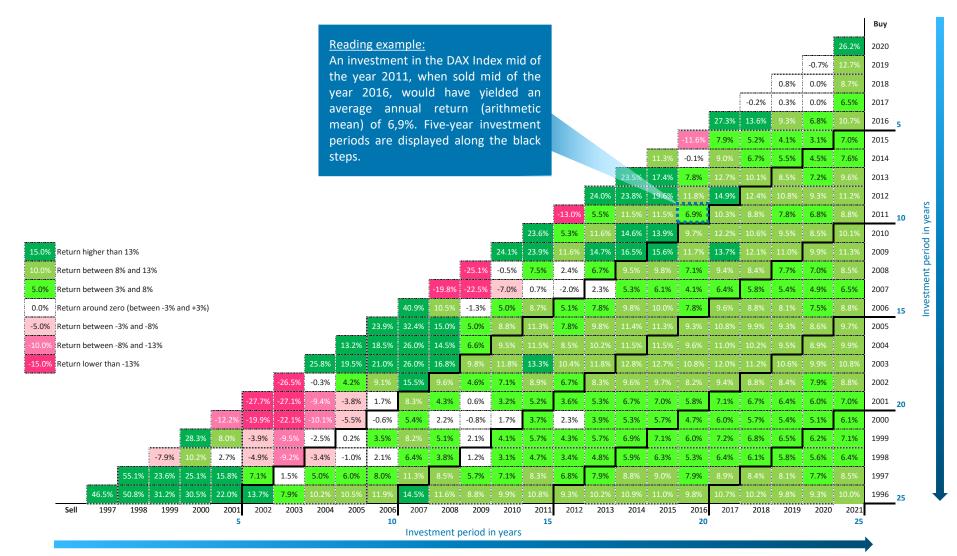
- DAX:
 - the arithmetic mean of the historical market returns is 10.0%
 - the **geometric mean** of the historical market returns is **7.5%**
- ATX:
 - the arithmetic mean of the historical market returns is 10.6%
 - the **geometric mean** of the historical market returns is **7.3%**
- SMI:
 - the arithmetic mean of the historical market returns is 9.0%
 - the geometric mean of the historical market returns is 7.4%

1) The German Stock Institute e.V. (DAI) developed the return triangle for DAX and EURO STOXX.

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Historical Market Returns (Arithmetic Mean) – German Market

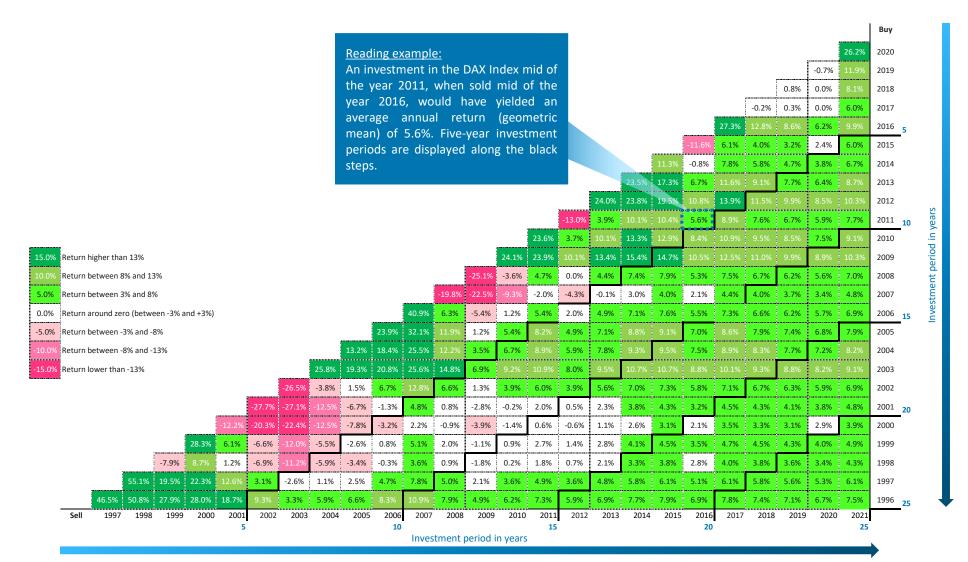
DAX Performance Index Return Triangle



 $Following: https://www.dai.de/files/dai_usercontent/dokumente/renditedreieck/2015-12-31\%20DAX-Rendite-Dreieck\%2050\%20Jahre\%20Web.pdf.$

Historical Market Returns (Geometric Mean) – German Market DAX Performance Index Return Triangle



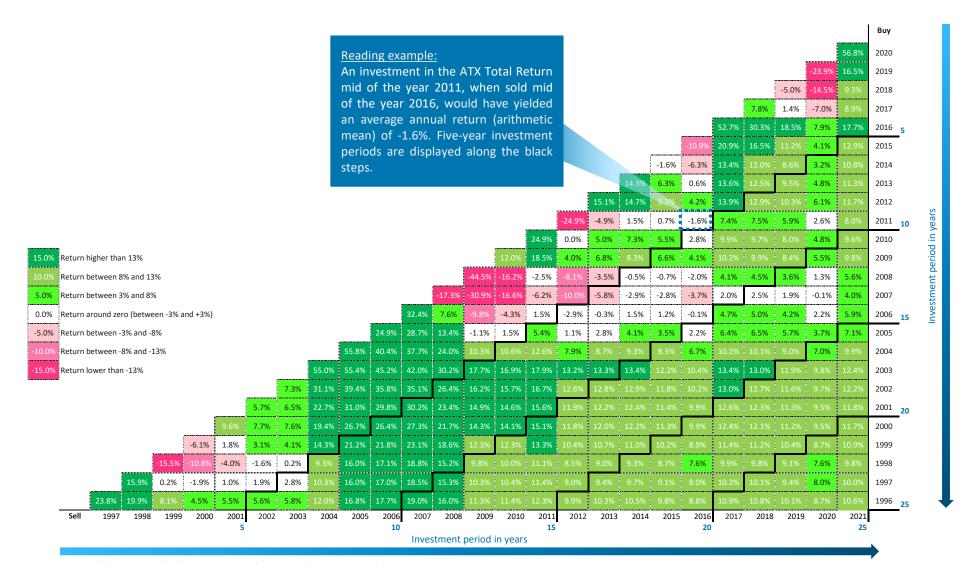


Following: https://www.dai.de/files/dai_usercontent/dokumente/renditedreieck/2015-12-31%20DAX-Rendite-Dreieck%2050%20Jahre%20Web.pdf.

Historical Market Returns (Arithmetic Mean) – Austrian Market ATX Total Return Index Return Triangle



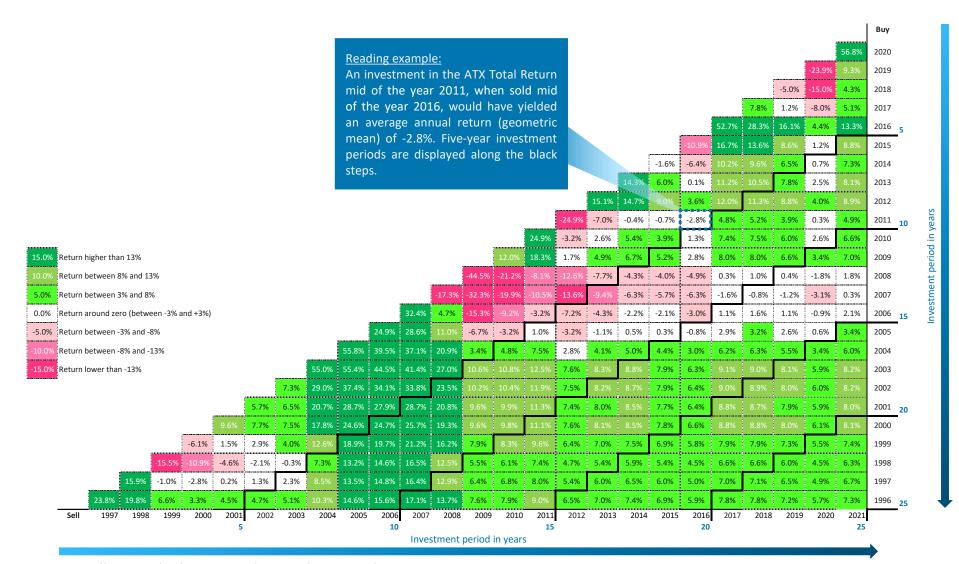
21



 $Following: https://www.dai.de/files/dai_usercontent/dokumente/renditedreieck/2015-12-31\%20DAX-Rendite-Dreieck\%2050\%20Jahre\%20Web.pdf.$

Historical Market Returns (Geometric Mean) – Austrian Market ATX Total Return Index Return Triangle





Following: https://www.dai.de/files/dai_usercontent/dokumente/renditedreieck/2015-12-31%20DAX-Rendite-Dreieck%2050%20Jahre%20Web.pdf.

Historical Market Returns (Arithmetic Mean) – Swiss Market SMI Total Return Index Return Triangle

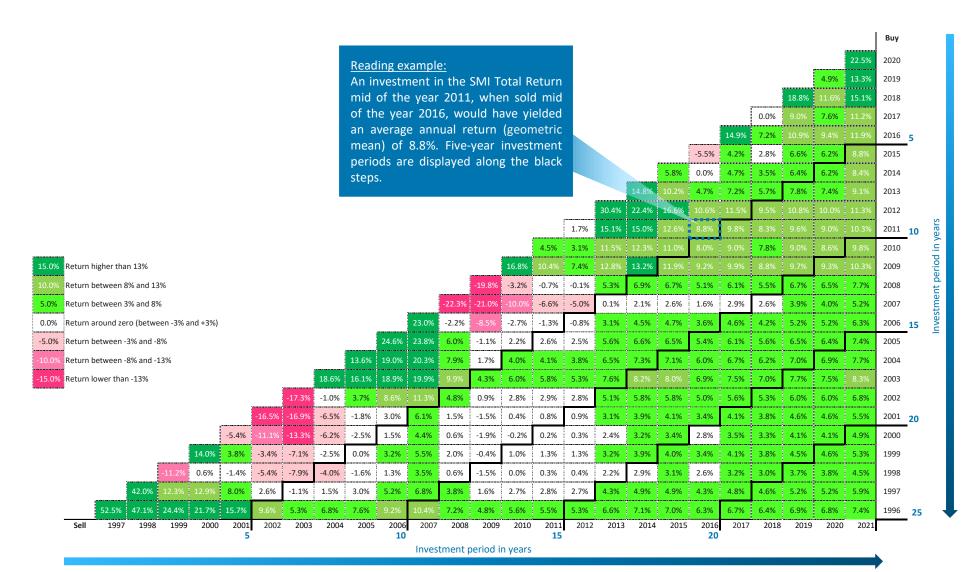




 $Following: https://www.dai.de/files/dai_usercontent/dokumente/renditedreieck/2015-12-31\%20DAX-Rendite-Dreieck\%2050\%20Jahre\%20Web.pdf.$

Historical Market Returns (Geometric Mean) – Swiss Market SMI Total Return Index Return Triangle





 $Following: https://www.dai.de/files/dai_usercontent/dokumente/renditedreieck/2015-12-31\%20DAX-Rendite-Dreieck\%2050\%20Jahre\%20Web.pdf.$

Sector classification of the DACH region

based on finexpert sector indices

finexpert Sector Indices of the DACH Region

Methodology & approach

The finexpert sector indices aim to cover the whole capital market of the DACH region. Therefore, this capital market study contains all equities of the German Composite DAX Index (CDAX), Vienna Stock Exchange Index (WBI) and Swiss Performance Index (SPI). These three indices contain all shares listed on the Official and Semi-Official Market.

The **664 public companies**, which are listed in the mentioned indices as of June 30, 2021, build the base for the **sector classification** and the **subsequent analyses**:

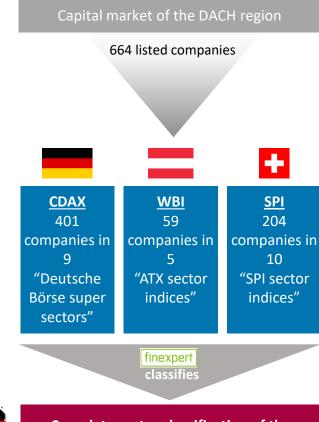
- The German DAX Sector All Index¹) includes 401 companies listed in the Prime Standard and General Standard and is classified into nine "Deutsche Börse super sectors".
- The Austrian ATX only has sector five indices, ValueTrust assigns the remaining companies of the WBI to the classified sector indices.
- The Swiss SPI contains ten sector indices that comprise 204 companies.

Eventually, finexpert merged all three market indices and the respective sector index classification into twelve finexpert sector indices, so-called "super sectors."

The **twelve sector indices** for this study are defined as follows:

- Banking
- Insurance
- Financial Services
- Consumer Service
- Consumer Goods
- Pharma & Healthcare

- Information Technology
- Telecommunication
- Utilities
- Basic Materials
- Industrials
- Real Estate





Complete sector classification of the DACH region in 12 sector indices

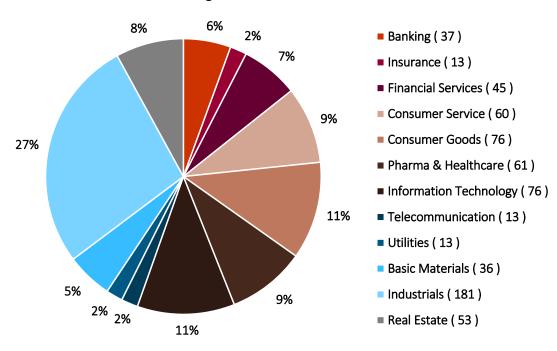
1) The DAX Sector All Index contains all equities listed in the Prime and General Standard as well as in the Scale segment of the Frankfurt stock exchange.

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finexpert Sector Indices of the DACH Region as of June 30, 2021

Sector distribution and number of companies

Sector classification of the DACH Region



The chart shows the percentage distribution of the 664 listed companies in the twelve "super sectors" (the absolute number of companies is displayed in parentheses).

The twelve defined sectors can be classified in three different dimensions.

- nine different sectors represent a proportion of less than 10%,
- two represent a share between 10% and 20%,
- and one represents a portion of more than 20%.

Companies within the Industrials, Information Technology and Consumer Goods sectors, hence, represent nearly 50% of the entire market.

1) Including asset managers, leasing firms and distribution companies for financial products.

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6 Betas

Betas

Background & approach

Beta is used in the **CAPM** and is also known as the beta coefficient or beta factor. Beta is a measure of **systematic risk** of a security of a specific company (**company beta**) or a specific sector (**sector beta**) in comparison to the market. A beta of less than 1 means that the security is theoretically less **volatile** than the market. A beta of greater than 1 indicates that the security's price is more volatile than the market.

Beta factors are estimated based on historical returns of securities in comparison to an approximate market portfolio. Since the company valuation is forward-looking, it has to be examined whether or what potential risk factors prevailing in the past do also apply for the future. By valuing non-listed companies or companies without meaningful share price performance, it is common to use a beta factor from a group of comparable companies ("peer group beta"), a suitable sector ("sector beta") or one single listed company in the capital market with a similar business model and a similar risk profile ("pure play beta"). Within this capital market study we have used sector betas which are computed as arithmetic means of the statistically significant beta factors of all companies of a particular sector.

The estimation of beta factors is usually accomplished through a **linear regression analysis**. We use the CDAX, WBI, and SPI as country specific reference indices.

Furthermore, it is important to set a time period for which the data is collected (benchmark period) and whether daily, weekly or monthly returns (return interval) are analyzed. In practice, it is common to use observation periods of two years with the regression of weekly returns or a five-year observation period with the regression of monthly returns. Both alternatives are displayed in our study.

In the CAPM, company specific **risk premiums** include not only **business** risk, but also financial **risk**. The beta factor for levered companies ("levered beta") is usually higher compared to a company with an identical business model but without debt (due to financial risk). Hence, **changes in the capital structure** require an **adjustment of the betas** and therefore of the company specific risk premiums.

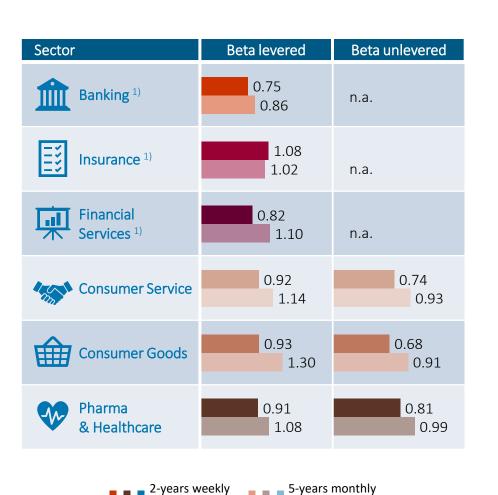
In order to calculate the **unlevered beta**, adjustment formulas have been developed. We prefer to use the **adjustment formula by Harris/Pringle** which assumes a value-based financing policy, stock-flow adjustments without time delay, uncertain tax shields and a so-called **debt beta**. We calculate the debt beta based on the respective company's rating or the average sector rating (if a company's rating is not available) through the application of the **credit spread** derived from the expected cost of debt. We do not adjust the credit spread for unsystematic risks. The capital market data, in particular historical market prices, is provided by the data supplier S&P Capital IQ.

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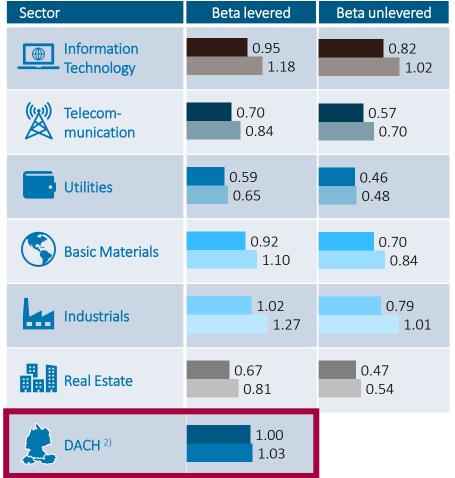
June 30, 2021

Betas

Sector specific levered and unlevered betas as of June 30, 2021 (arithmetic mean)



(darker fill)



¹⁾ We refrained from adjustments of the companies' specific debt (unlevered) because indebtedness is part of the companies' operational activities and economic risk. Bank specific regulations about the minimum capital within financial institutions let us assume that the indebtedness degree is widely comparable. For that reason, it is possible to renounce the adaptation of levered betas.

(transparent fill)

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²⁾ For all DACH companies, the market value-weighted mean of the levered beta was calculated. This value deviates slightly from 1 due to the exclusion of statistically insignificant betas.

7 Sector returns

a. Implied returns (ex-ante analysis)

Implied Sector Returns

Background & approach

Besides the future-oriented calculation of **implied market returns** (cf. slide 16 et seq.), we calculate **implied returns for sectors**. That offers an **alternative** and simplification to the **ex-post analysis** of the company's costs of capital via the **CAPM**. Using this approach, the calculation of sector betas via regression analyses is not necessary.

The implied sector returns shown on the following slides can be used as an indicator for the sector specific levered costs of equity. Those already consider a sector specific leverage. Because of this, another simplification is to renounce making adjustments with regards to the capital structure risk.

Comparable to the calculation of the implied market returns, the following return calculations are based on the Residual Income Valuation Model by *Babbel*.¹⁾ The required data (i.e. net income, market capitalization, and book values of equity) are sourced from the data provider S&P Capital IQ. Regarding the profit growth, we assume a growth rate of 2.0%.

We unlever the implied returns with the following adjusting equation for the costs of equity²⁾ to take the specific leverage into account:³⁾

$$k_E^L = k_E^U + (k_E^U - R_f) * \frac{D}{E}$$

with:

 k_E^L = Levered cost of equity

 k_E^U = Unlevered cost of equity

 R_f = Risk-free rate

 $\frac{D}{E}$ = Debt 4) -to-equity ratio

The **implied unlevered sector returns** serve as an indicator for an **aggregated** and **unlevered cost of equity** for **specific sectors**. The process of relevering a company's cost of capital to reflect a company specific debt situation (cf. calculation example on the next slide) can be worked out without using the CAPM.

¹⁾ cf. Babbel, Challenging Stock Prices: Share prices and implied growth expectations (Corporate Finance, n. 9, 2015, p. 316-323, especially p. 319); cf. Aders/Aschauer/Dollinger, Die implizite Marktrisikoprämie am österreichischen Kapitalmarkt (RWZ, 6/2016, p. 195-202).

²⁾ In situations in which the debt betas in the market are distorted, we would have to adjust these betas to avoid unsystematic risks. For simplification reasons, we deviate from our typical analysis strategy to achieve the enterprise value (Debt beta > 0) and assume that the costs of debt are at the level of the risk-free rate. This process is designed by the so-called Practitioners formula (uncertain tax shields, debt beta = 0), cf. Pratt/Grabowski, Cost of Capital, 5th ed., 2014, p. 253.

³⁾ We assume that the cash and cash equivalents are used entirely for operational purposes. Consequently, we do not deduct excess cash from the debt.

^{4) &}quot;Debt" is defined as all interest-bearing liabilities. The debt illustration of the companies in the Banking, Insurance and Financial Services sector only serves an informational purpose. We will not implement an adjustment to these companies' specific debt (unlevered) because their indebtedness is part of their operational activities and economic risk.

Implied Sector Returns

Exemplary calculation to adjust for the company specific capital structure

Calculation example:

As of the reference date June 30, 2021, we observe a sector specific, unlevered cost of equity of **5.5%** (market-value weighted mean) of an exemplary company X, which operates in the German Basic Materials sector. The following assumptions have been made:

- The debt-to-equity ratio of the exemplary company X: 40%
- The risk-free rate: **0.35%** (cf. slide 12)

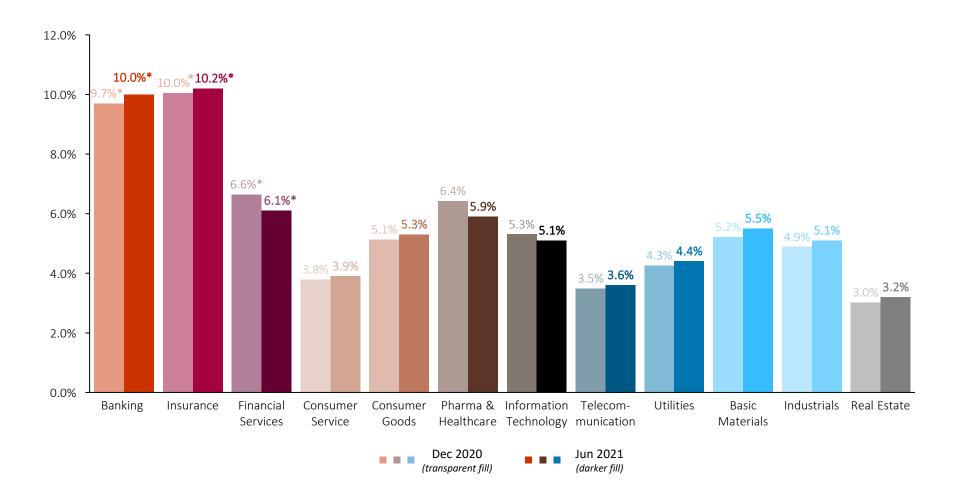
Based on these numbers, we calculate the relevered costs of equity of company X with the adjustment formula:

$$\mathbf{k}_{E}^{L} = 5.5\% + (5.5\% - 0.35\%) * 40\% = 7.6\%$$

Thus, **7.6%** is the company's relevered cost of equity. In comparison, the levered cost of equity of the Basic Materials sector is **8.4%**, reflecting the sectors' higher average leverage.

Implied Sector Returns (unlevered)*

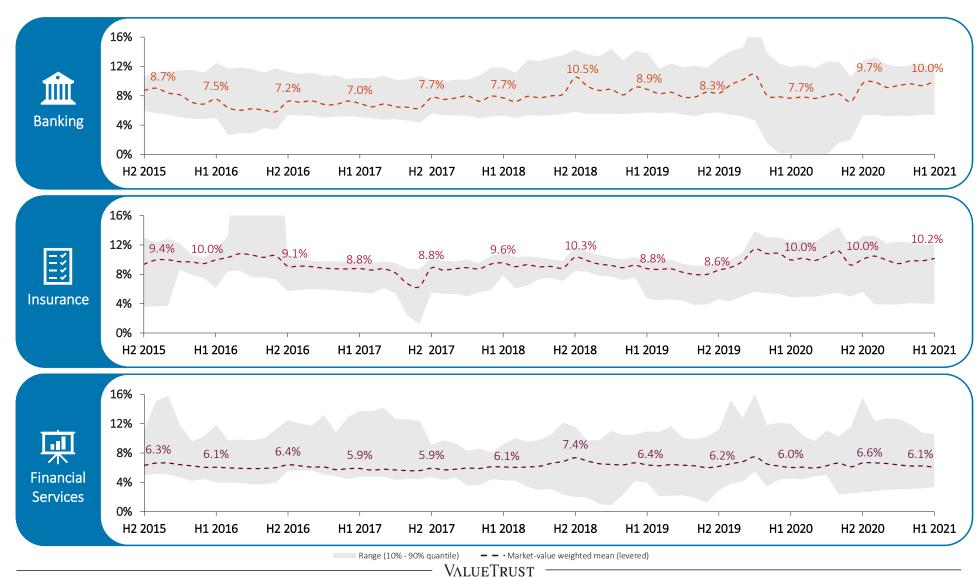
Overview as of June 30, 2021 vs. December 31, 2020



^{*} The returns for the sectors Banking, Insurance and Financial Services are levered sector returns. For all other sectors unlevered returns are displayed.

Implied Sector Returns

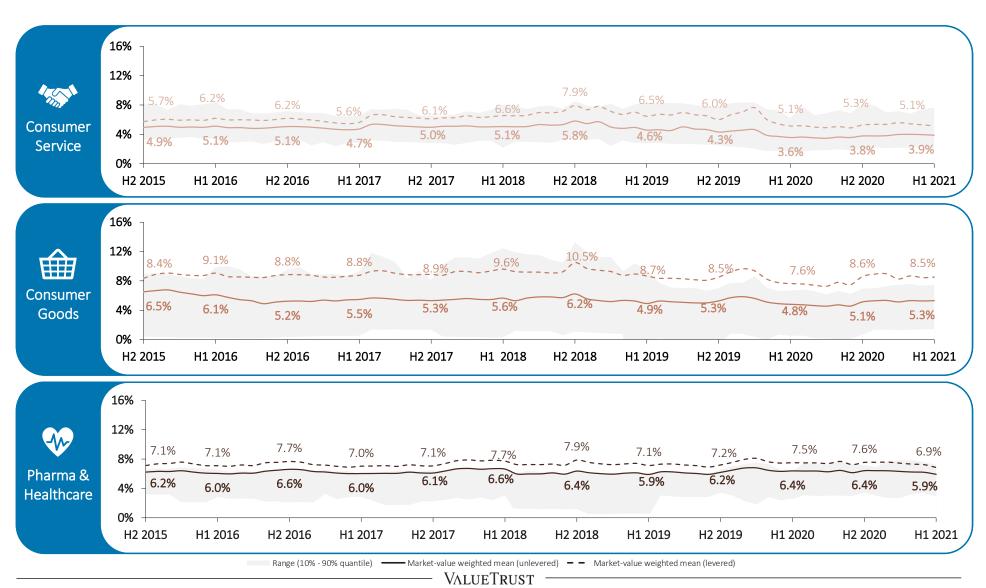
Banking, Insurance and Financial Services



June 30, 2021 35

Implied Sector Returns

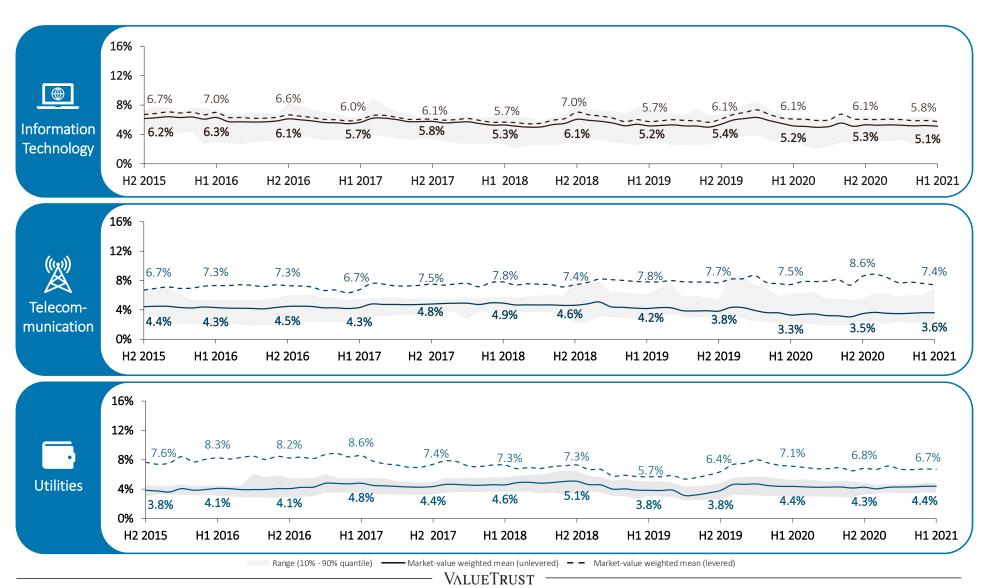
Consumer Service, Consumer Goods and Pharma & Healthcare



June 30, 2021

Implied Sector Returns

Information Technology, Telecommunication and Utilities



June 30, 2021

Implied Sector Returns

Basic Materials, Industrials and Real Estate



June 30, 2021 38

7 Sector returns

b. Historical returns (ex-post analysis)

Historical Sector Returns

Background & approach

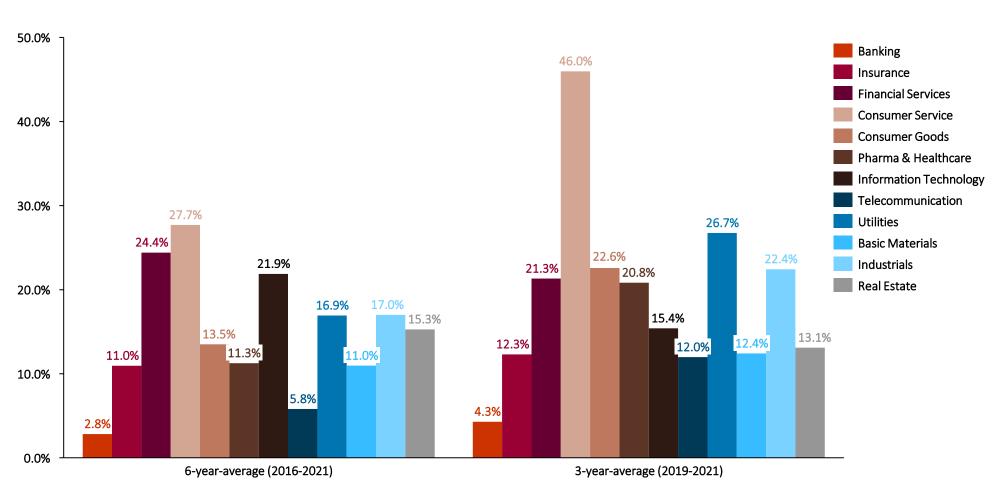
In addition to the determination of historical market returns, we calculate historical sector returns. This option creates an alternative approach, like the implied sector returns, to the ex-post analysis of the determination of costs of capital based on regression analyses following the CAPM.

Our analysis contains so-called **total shareholder returns** analogous to the return triangles for the German, Austrian and Swiss total return indices. This means, we consider the **share price development** as well as the **dividend yield**, whereas the share price development generally represents the main component of the total shareholder return.

We calculate the **annual total shareholder returns as of June 30**, for every DAX Sector All Index, WBI, and SPI listed company. Afterwards, we aggregate those returns market-value weighted **to sector returns**. Our calculations comprise the time period between 2016 and 2021. Since annual total shareholder returns tend to fluctuate to a great extent, their explanatory power is limited. Therefore, we do not only calculate the 1-year market-value weighted means, but furthermore calculate the 3-year (2019-2021) and the 6-year (2016-2021) averages.

Historical Sector Returns

Annual total shareholder returns as of June 30, 2021



S Trading multiples

Background & approach

Besides absolute valuation models (earnings value, DCF), the **multiples approach** offers a practical way for an enterprise value estimation. The multiples method estimates a company's value **relative** to another company's value. Following this approach, the enterprise value results from the product of a reference value (revenue or earnings values are frequently used) of the company with the respective multiples of **similar companies**.

Within this capital market study, we analyze multiples for the "super - sectors" as well as multiples for the DACH market consisting of the German, Austrian and Swiss capital markets (DAX Sector All Index, ATX and SPI). We will look at the following multiples:

- Revenue-Multiples ("EV1)/Revenue")
- EBIT-Multiples ("EV¹⁾/EBIT")
- Price-to-Earnings-Multiples ("P/E")
- Price-to-Book Value-Multiples ("EqV²⁾/BV")

Multiples are presented for the reference dates June 30, 2021, and December 31, 2020. The reference values are based on one-year forecasts of analysts (so called forward multiples, in the following "1yf"). Solely the Price-to-Book-Value-Multiples are calculated with book values as of the reference dates. We present median values.

We present historical multiples since June 30, 2015 in the appendix and will update the applied multiples semi-annually at the predefined reference date (as of December 31 and as of June 30).

For the purpose of **simplification**, we exclude negative multiples and multiples in the highest quantile (95%). The multiples in the lowest quantile (5%) build the lower limit.

To calculate the multiples, we source the data (i.e. Market Cap., Revenue, EBIT, etc.) from the data provider S&P Capital IQ. Based on the availability of data, especially in terms of forecasts, the number of companies underlying each specific multiple varies.

Additionally, we present a **ranking table** of the sector multiples. In a first step, the sector multiples are sorted from highest to lowest for each analyzed multiple. The resulting score in the ranking is displayed in the table and visualized by a color code that assigns a **red color** to the **highest rank** and a dark **green color** to the **lowest rank**. Thus, a red colored high rank indicates a high valuation level, whereas a green colored low rank suggests a low valuation level. In a second step, we aggregate the rankings and calculate an average of all single rankings for each sector multiple. This is shown in the right column of the ranking table. This **average ranking** indicates the overall **relative valuation levels** of the sectors when using multiples.

1) Enterprise Value.

2) Equity Value.

VALUETRUST

June 30, 2021

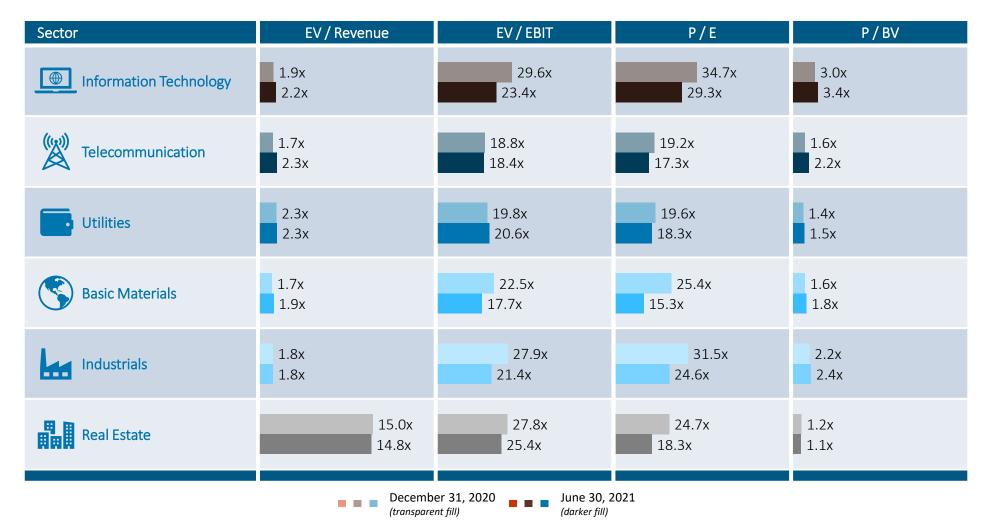
Sector multiples – Median (1/2) 1yf as of June 30, 2021 and December 31, 2020



Note: For companies in the Banking, Insurance and Financial Services sectors, Revenue- and EBIT-Multiples are not meaningful and thus are not reported.

June 30, 2021 4

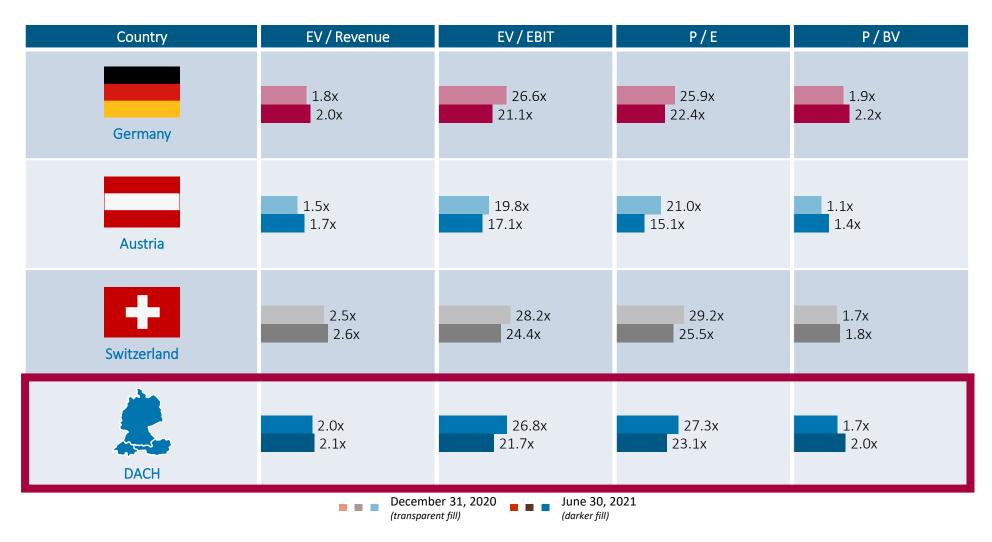
Sector multiples – Median (2/2) 1yf as of June 30, 2021 and December 31, 2020



Note: The change in forward multiples compared to the previous DACH Capital Market Study (December 31, 2020) is partially attributable to the change to 2022 analyst forecasts as of June 2021.

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Country multiples – Median 1yf as of June 30, 2021 and December 31, 2020



VALUETRUST

Sector multiples ranking based on median 1yf as of June 30, 2021 and December 31, 2020

	EV / Revenue 1yf		EV / EBIT 1yf		P / E 1yf		P/BV		Ø
	H2 2020	H1 2021	H2 2020	H1 2021	H2 2020	H1 2021	H2 2020	H1 2021	Ranking
Banking	n.a.	n.a.	n.a.	n.a.	12	11	12	12	11.8
Insurance	n.a.	n.a.	n.a.	n.a.	9	12	11	11	10.8
Financial Services	n.a.	n.a.	n.a.	n.a.	5	6	9	9	7.3
Consumer Service	4	7	6	4	8	5	3	4	5.1
Consumer Goods	9	9	5	7	6	4	7	6	6.6
Pharma & Healthcare	2	2	1	2	1	1	1	1	1.4
Information Technology	5	5	2	3	2	2	2	2	2.9
Telecommunication	7	4	9	8	11	9	6	5	7.4
Utilities Utilities	3	3	8	6	10	7	8	8	6.6
S Basic Materials	8	6	7	9	4	10	5	7	7.0
Industrials	6	8	3	5	3	3	4	3	4.4
Real Estate	1	1	4	1	7	8	10	10	5.3

The Banking and Insurance sectors tion levels of all sectors.

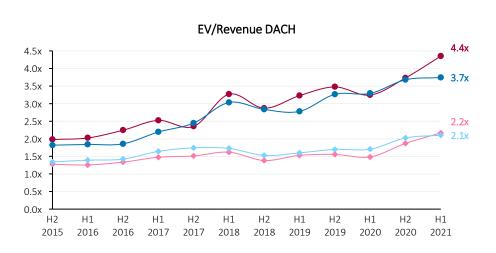
The Pharma Healthcare sector shows the highest multiples average, followed by the Information Technology sector.

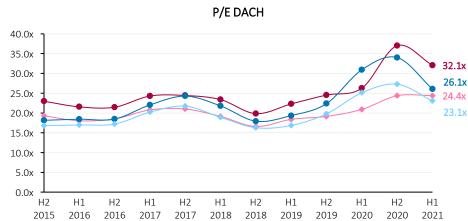
Note: Multiples are ranked from highest to lowest values: 1 – highest (red), 9/12 – lowest (dark green) ValueTrust

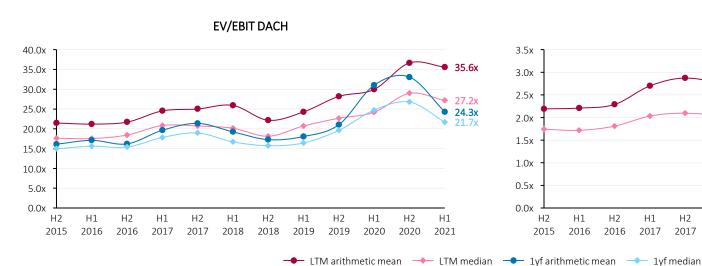
June 30, 2021

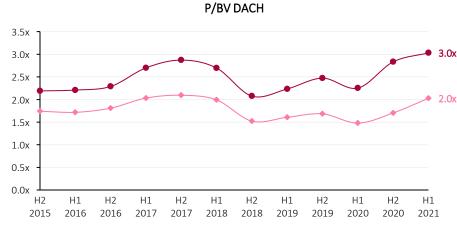
Historical development of trading multiples since 2015

DACH – Revenue-, EBIT-, P/E- and P/BV-Multiples

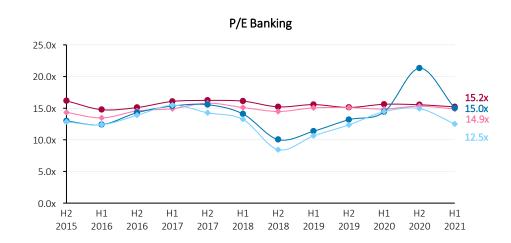


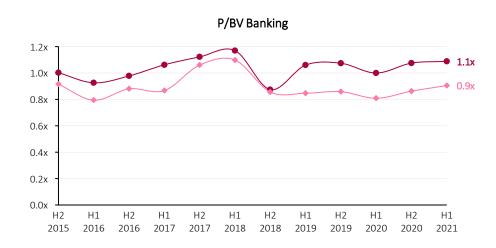




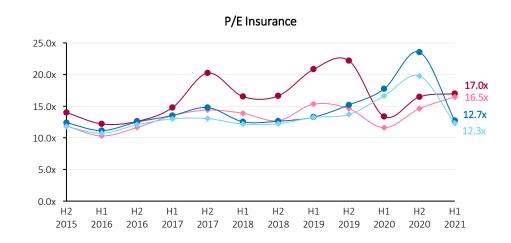


Banking – Revenue-, EBIT-, P/E- and P/BV-Multiples



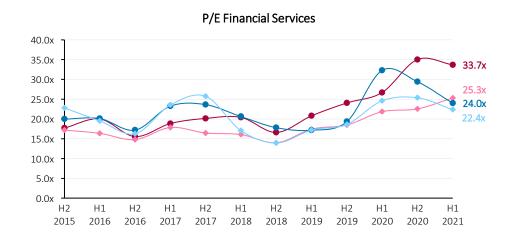


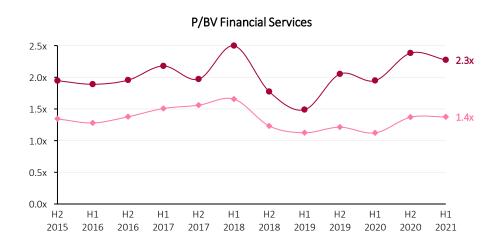
Insurance – Revenue-, EBIT-, P/E- and P/BV-Multiples



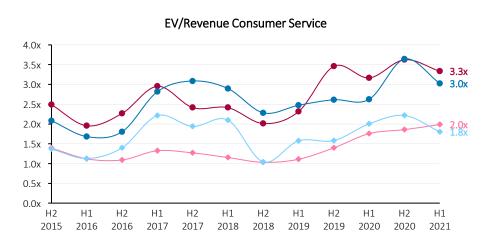
P/BV Insurance 1.4x 1.2x 1.1x 1.0x 0.8x 0.6x 0.4x 0.2x 0.0x H2 Н1 H2 Н1 Н1 H2 Н1 H2 Н1 Н1 H2 2015 2016 2016 2017 2017 2018 2018 2019 2019 2020 2020 2021

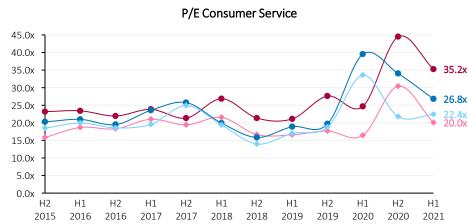
Financial Services – Revenue-, EBIT-, P/E- and P/BV-Multiples

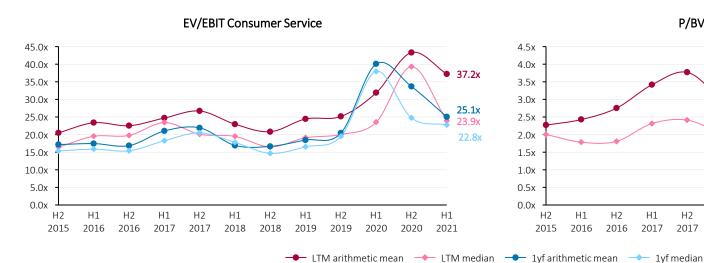


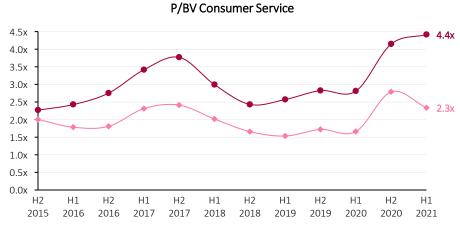


Consumer Service – Revenue-, EBIT-, P/E- and P/BV-Multiples

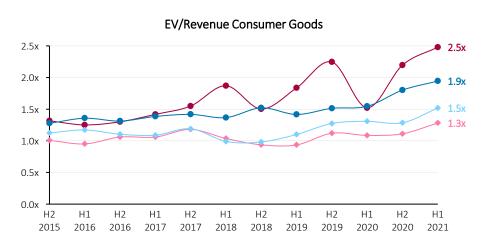


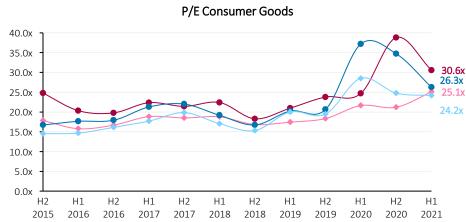


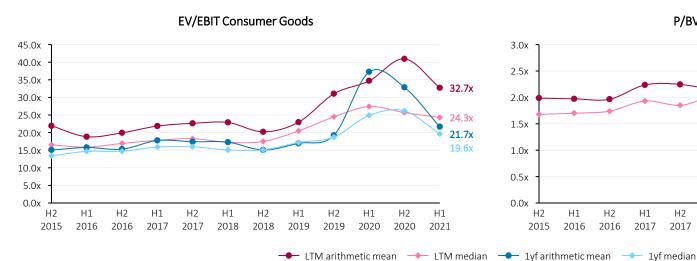


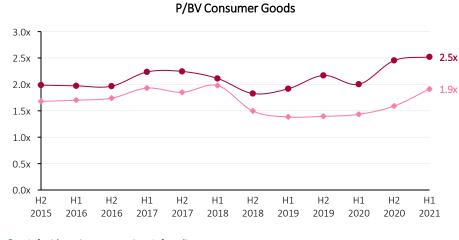


Consumer Goods – Revenue-, EBIT-, P/E- and P/BV-Multiples

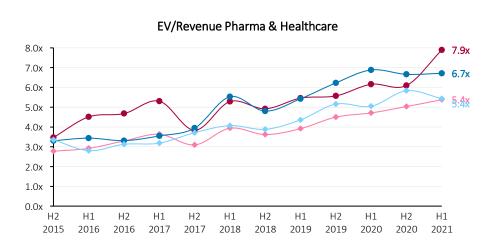


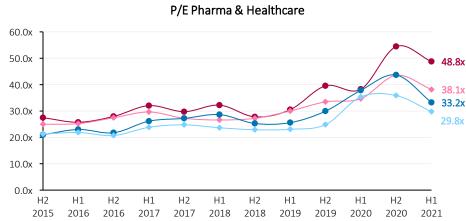


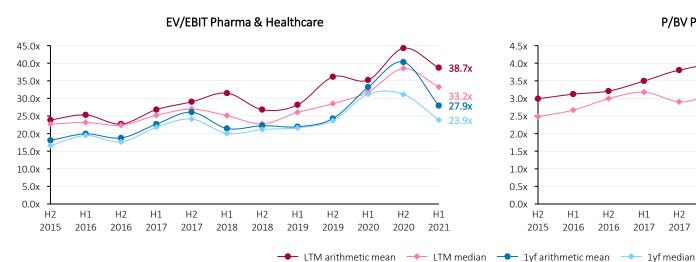


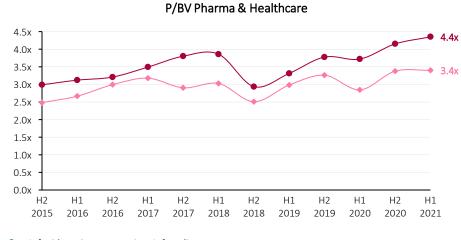


Pharma & Healthcare – Revenue-, EBIT-, P/E- and P/BV-Multiples



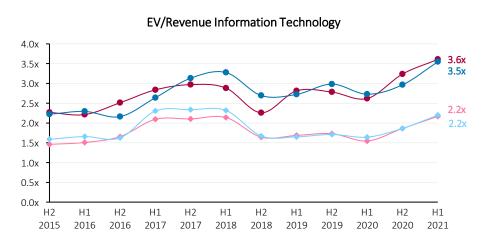


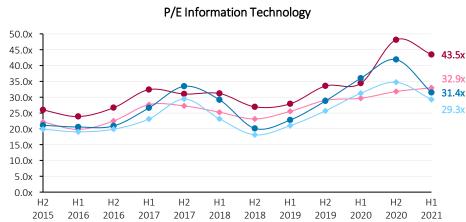


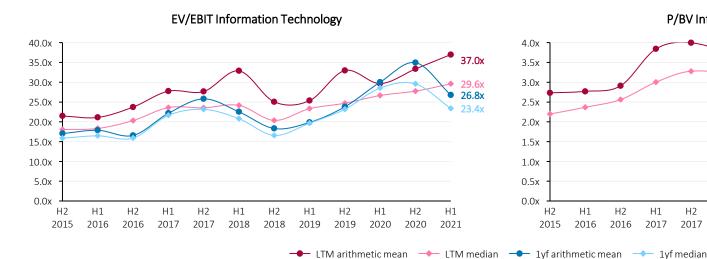


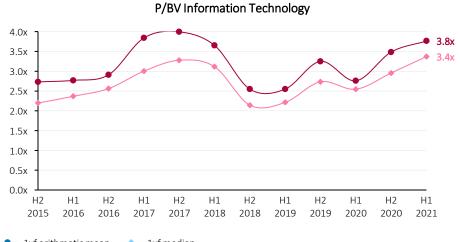
June 30, 2021

Information Technology – Revenue-, EBIT-, P/E- and P/BV-Multiples



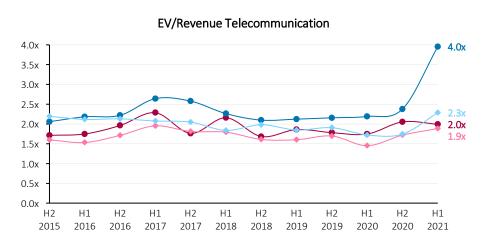


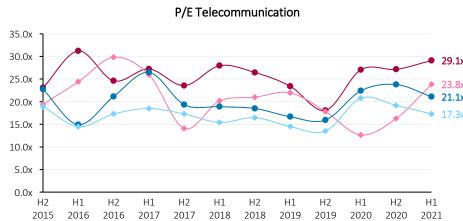


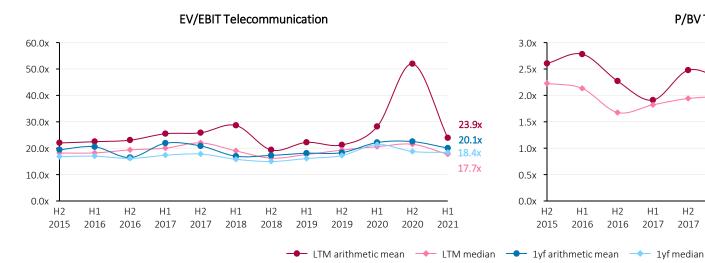


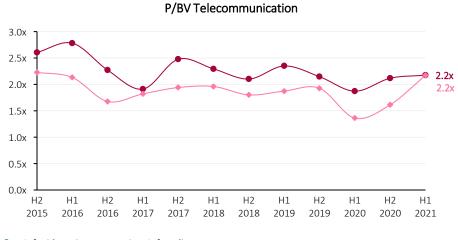
VALUETRUST — 56

Telecommunication – Revenue-, EBIT-, P/E- and P/BV-Multiples

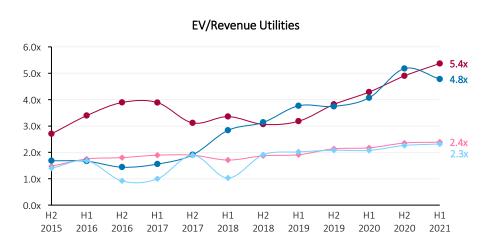


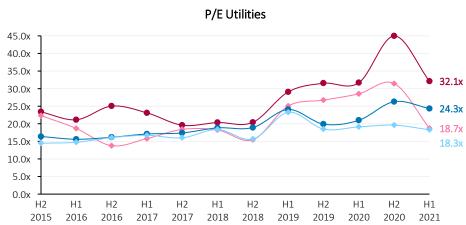


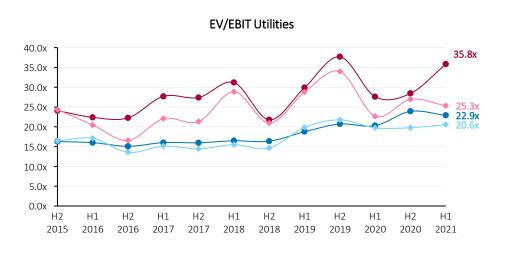


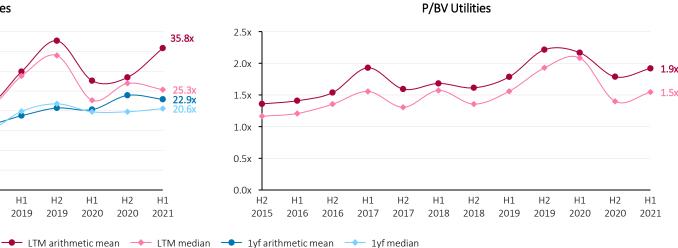


Utilities – Revenue-, EBIT-, P/E- and P/BV-Multiples

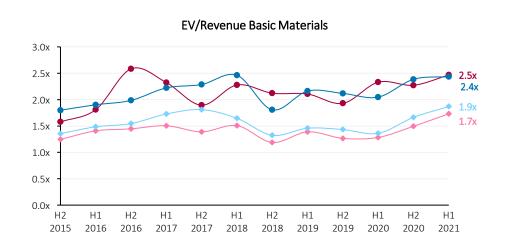


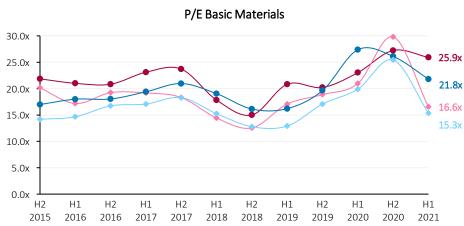


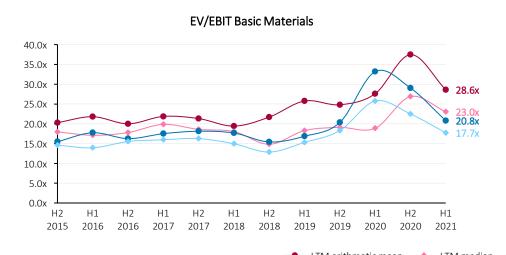


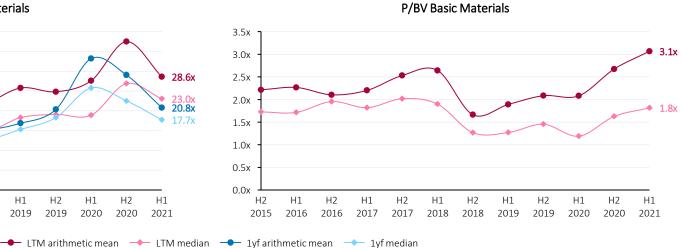


Basic Materials – Revenue-, EBIT-, P/E- and P/BV-Multiples

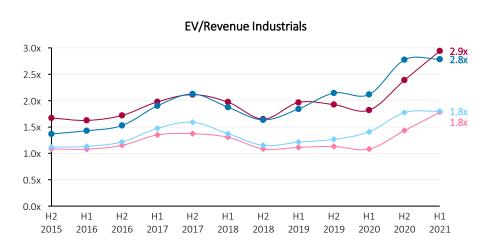


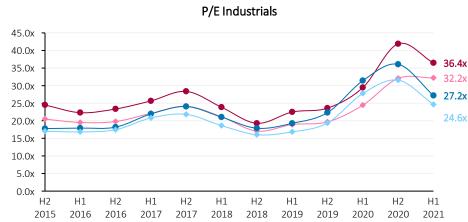


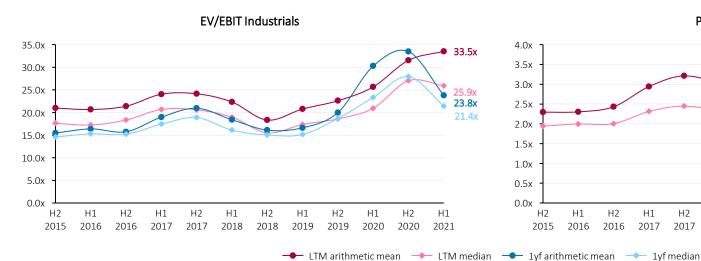


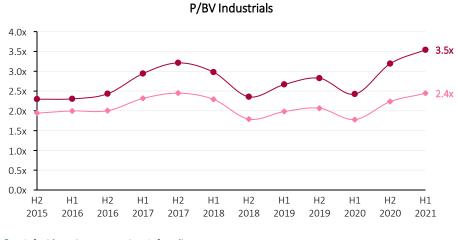


Industrials – Revenue-, EBIT-, P/E- and P/BV-Multiples

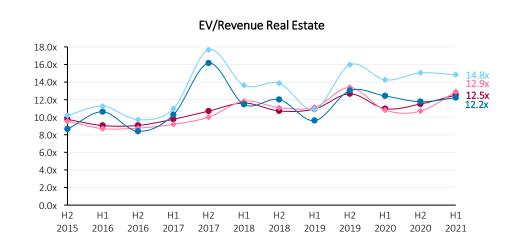


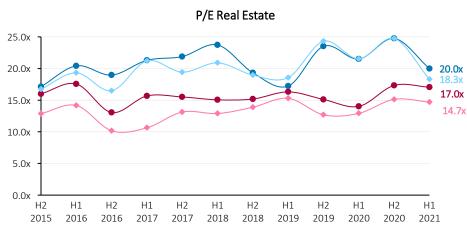


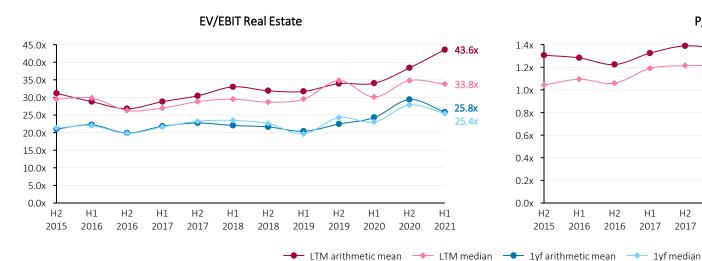


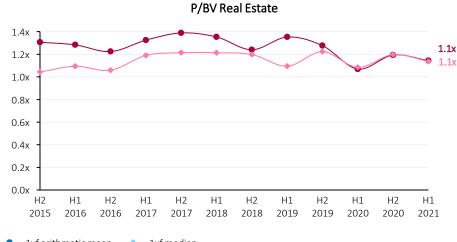


Real Estate – Revenue-, EBIT-, P/E- and P/BV-Multiples









Composition of the sectors of DAX Sector All Index, WBI and SPI as of June 30, 2021

ZUGER KANTONALBANK AG

Composition of each | finexpert | sector as of June 30, 2021

Banking

Germany

AAREAL BANK AG

COMMERZBANK AG

DEUTSCHE BANK AG

DT.PFANDBRIEFBK AG

PROCREDIT HOLDING AG

WUESTENROT & WUERTTEMBERG AG

Austria

BANK FUER TIROL UND VBG AG

BAWAG AG

BKS BANK AG

BKS BANK AG

ERSTE GROUP BANK AG

OBERBANK AG

OBERBANK AG UMTAUSCH

RAIFFEISEN BANK INTERNATATIONAL AG

Switzerland

BANK LINTH LLB AG

BASELLAND, KANTONALBANK AG

BASLER KANTONALBANK SA

BC DE GENEVE SA

BC DU JURA SA

BC VAUDOISE SA

BERNER KANTONALBANK AG

CEMBRA MONEY BANK AG

CREDIT SUISSE GROUP AG

EFG INTERNATIONAL AG

GLARNER KANTONALBANK AG

GRAUB KANTONALBANK AG

HYPOTHEKARBANK LENZBURG AG

JULIUS BAER EUROPE AG

LUZERNER KANTONALBANK AG

SCHWEIZERISCHE NATIONALBANK AG

ST GALLER KANTONALBANK GA

THURGAUER KANTONALBANK AG

UBS GROUP AG

VALIANT BANK AG

VONTOBEL EUROPE AG

WALLISER KANTONALBANK AG

Insurance

Germany

ALLIANZ SE

DFV DEUTSCHE FAMILIENVERSICHERUNG AG

HANNOVER RUECK SE

MUENCHNER RUECK AG

TALANX AG

Austria

UNIQA INSURANCE GROUP AG

VIENNA INSURANCE GROUP AG

Switzerland

BALOISE HOLDING AG

HELVETIA HOLDING AG SWISS LIFE HOLDING AG

SWISS RE AG

VAUDOISE VERSICHERUNGEN HOLDING SA

ZURICH INSURANCE AG

Financial Services (1/2)

Germany

ALBIS LEASING AG

BROCKHAUS CAPITAL MGMT

CAPSENIXX AG

CREDITSHELF AG

DEUTSCHE BETEILIGUNGS AG

DEUTSCHE BOERSE AG

DEUTSCHE CANNABIS AG

DF DEUTSCHE FORFAIT AG

DWS GROUP GMBH & CO KGAA

ERWE IMMOBILIEN AG

ERWE IMMOBILIEN AG

FINTECH GROUP AG

FORIS AG

FRITZ NOLS AG

GRENKE AG

HEIDELBERGER BETEILIGUNGSHOLDING AG

HESSE NEWMAN CAPITAL AG

HYPOPORT AG

KAP BETEILIGUNGS-AG

LINUS DIGITAL FINANCE AG

MAIER & PARTNER AG

MLP AG

OVB HOLDING AG

PEARL GOLD AG

PONGS & ZAHN AG

SIXT LEASING SE

SPOBAG

VALUE MANAGEMENT & RESEARCH AG

WCM BETEILIGUNGS- UND GRUNDBESITZ-AG

WEBAC HOLDING AG

Austria

ADDIKO BANK AG

BURGENLAND HOLDING AG

UNTERNEHMENS INVEST AG

WIENER PRIVATBANK SE

Switzerland

BELLEVUE GROUP AG

COMPAGNIE FINANCIERE TRADITION SA

VALUETRUST

June 30, 2021

Composition of each | finexpert | sector as of June 30, 2021

YOUR FAMILY ENTERTAINMENT AG

HIGHLIGHT EVENT & ENTERTAINMENT AG

JUNGFRAUBAHN HOLDING AG

MOBILEZONE HOLDING AG

OREL FUESSLI HOLDING AG

VILLARS HOLDING SA

ZUR ROSE GROUP AG

TRAVEL24.COM AG

UNITED LABELS AG

WILD BUNCH AG

WINDELN.DE SE

ZEAL NETWORK SE

ASMALLWORLD AG

7ALANDO SE

ZOOPLUS AG

Switzerland

APG SGA AG

DUFRY AG

TX GROUP

VALORA AG

GALENICA AG

WESTWING GROUP AG

WESTWING GROUP AG

Financial Services (2/2)

GLOBAL ASSET MGMT AG

LEONTEQ AG

ONE SWISS BANK SA

PARTNERS GROUP HOLDING AG

PRIVATE EQUITY HOLDING AG

SPCE PRIVATE EQUITY AG

SWISSQUOTE GROUP HOLDING LTD

VALARTIS GROUP AG

VZ HOLDING AG

Consumer Service

Germany

ABOUT YOU HOLDING AG

ARTNET AG

AUTO1 GROUP SE

BASTEI LUEBBE AG

BEATE UHSE AG

BET-AT-HOME.COM AG

BIJOU BRIGITTE AG

CECONOMY AG

CECONOMY AG

CTS EVENTIM AG & CO. KGAA

DELIVERY HERO AG

DELTICOM AG

ELANIX BIOTECHNIK AG

ELUMEO SE

FIELMANN AG

HAWESKO HOLDING AG

HELLOFRESH SE

HOME24 SE

HORNBACH BAUMARKT AG

HORNBACH HOLDING AG & CO. KGAA

INTERTAINMENT AG

KLASSIK RADIO AG

LOTTO24 AG

LUDWIG BECK AG

METRO AG

NEXR TECHNOLOGIES SE

ODEON FILM AG

PHICOMM AG

PROSIEBENSAT.1 MEDIA SE

READCREST CAPITAL AG

SCOUT24 AG

SLEEPZ AG

SNOWBIRD AG

SPLENDID MEDIEN AG

SPORTTOTAL AG

STROEER SE & CO. KGAA

TAKKT AG

TELE COLUMBUS AG

Consumer Goods (1/2)

Germany

A.S.CREATION TAPETEN AG

ADIDAS AG

ADLER MODEMAERKTE AG

AHLERS AG

AKASOL AG

BAWAG AG

BAYERISCHE MOTOREN WERKE AG

BEIERSDORF AG

BERENTZEN-GROUP AG

BERTRANDT AG

BORUSSIA DORTMUND GMBH & CO. KGAA

CEWE STIFTUNG & CO.KGAA

CONTINENTAL AG

DAIMLER AG

DIERIG HOLDING AG

EINHELL GERMANY AG

ELRINGKLINGER AG

GERRY WEBER INTERNATIONAL AG

GRAMMER AG

HELLA KGAA HUECK & CO.

HENKEL AG & CO. KGAA

HUGO BOSS AG

IFA HOTEL & TOURISTIK AG

KNAUS AG

LEIFHEIT AG

LEONI AG

MING LE SPORTS AG

MUEHL PRODUKT & SERVICE AG

PFERDEWETTEN.DE AG

PORSCHE AUTOMOBIL HLD. SE

PROGRESS-WERK OBERKIRCH AG

PUMA SE

ROY ASSET HOLDING SE

SAF-HOLLAND SE

SCHAEFFLER AG

SCHLOSS WACHENHEIM AG

STO SE & CO. KGAA

STS GROUP AG

Composition of each | finexpert | sector as of June 30, 2021

Consumer Goods (2/2)

SUEDZUCKER AG

TC UNTERHALTUNGSELEKTRONIK AG

VALENS HOLDING AG

VERALLIA DTLD AG

VILLEROY & BOCH AG

VOLKSWAGEN AG

WASGAU PRODUNKTIONS & HANDELS AG

WESTAG & GETALIT AG

Austria

AGRANA BETEILIGUNGS-AG

DO & CO AG

GURKTALER AG

JOSEF MANNER & COMP. AG

LINZ TEXTIL HOLDING AG

OTTAKRINGER GETRAENKE AG

PIERER MOBILITY AG

POLYTEC HOLDING AG

STADLAUER MALZFABRIK AG

WOLFORD AG

Switzerland

AIRESIS SA

ARYZTA AG

AUTONEUM AG

BARRY CALLEBAUT AG

BELL AG

BLACKSTONE RESOURCES LTD

CALIDA HOLDING AG

EMMI AG

GM SA

HOCHDORF HOLDING AG

LALIQUE GROUP SE

LECLANCHE SA

LINDT & SPRUENGLI AG

METALL ZUG AG

NESTLE SA

ORIOR AG

RICHEMONT SA

STADLER RAIL AG

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SWATCH GROUP SA

V-ZUG

Pharma & Healthcare

Germany

4 SC AG

AAP IMPLANTATE AG

BB BIOTECH AG

BIOFRONTERA AG

BIOTEST AG.

CARL ZEISS MEDITEC AG

CO.DON AG

DERMAPHARM HOLDING SE

DRAEGERWERK AG & CO. KGAA

ECKERT & ZIEGLER AG

EPIGENOMICS AG

EVOTEC AG

FRESENIUS MEDICAL CARE AG & CO. KGAA

FRESENIUS SE & CO.KGAA

GERATHERM MEDICAL AG

GERRESHEIMER AG

HEIDELBERG PHARMA AG

MATERNUS-KLINK AG

MEDICLIN AG

MEDIGENE AG

MEDIOS AG

MERCK AG & CO. KGAA

MORPHOSYS AG

PAION AG

PHARMASGP HOLDING SE

RHOEN-KLINIKUM AG

SARTORIUS AG

SIEMENS HEALTHINEERS AG

STRATEC SE

SYGNIS AG

SYNLAB AG

VITA 34 AG

Austria

MARINOMED BIOTECH AG

Switzerland

ACHIKO AG

ADDEX AG

AEVIS HOLDING SA

ALCON INC.

BACHEM HOLDING AG

BASILEA PHARMACEUTICA AG

COLTENE HOLDING AG

DOTTIKON ES HOLDING AG

EVOLVA HOLDING SA

IDORSIA LTD

IVF HARTMANN AG

KUROS BIOSCIENCES AG

LONZA GROUP AG

MEDARTIS HOLDING AG

MOLECULAR PARTNERS AG

NOVARTIS AG

OBSEVA SA

POLYPEPTIDE GROUP AG

POLYPHOR AG

RELIEF THERAPEUTICS HOLDING AG

ROCHE AG

SANTHERA PHARM, HOLDING AG

SIEGFRIED HOLDING AG

SONOVA HOLDING AG

STRAUMANN HOLDING AG

TECAN GROUP AG

VIFOR PHARMA AG

YPSOMED HOLDING AG

VALUETRUST

Composition of each | finexpert | sector as of June 30, 2021

WISEKEY INTERNATIONAL HOLDING AG

Information Technology

Germany

ADESSO AG

ADVA OPTICAL NETWORKING SE

AIXTRON SE

ALL FOR ONE STEEB AG

ALLGEIER SE

ATOSS SOFTWARE AG

B & S BANKSYSTEME AG

BECHTLE AG CANCOM SE

CENIT AG

CHERRY AG

COMPUGROUP MEDICAL SE

DATA MODUL AG

EASY SOFTWARE AG

ELMOS SEMICONDUCTOR AG

EUROMICRON AG FIRST SENSOR AG

FORTEC ELEKTRONIK AG

GFT TECHNOLOGIES SE

GIGASET AG

GK SOFTWARE SE

HOLIDAYCHECK GROUP AG

INFINEON TECHNIK AG

INIT INNOVATION SE

INTERSHOP COMMUNICATIONS AG

INTICA SYSTEMS AG

INVISION AG

IVU TRAFFIC TECHNOLOGIE AG

KPS AG

MEVIS MEDICAL SOLUTIONS AG

MYHAMMER HOLDING AG

NAGARRO SE

NEMETSCHEK SE

NEW WORK SE

NEXUS AG

NORCOM INFORMATION TECHNOLOGY AG

OHB SE

PANAMAX AG

PARAGON AG

PSI AG

Q.BEYOND AG REALTECH AG

RIB SOFTWARE AG

SAP SE

SCHWEIZER ELECTRONIC AG

SECUNET SECURITY AG

SERVICEW ARE AG

SILTRONIC AG

SNP AG

SOFTWARE AG

STEMMER IMAGING AG

SUESS MICROTEC AG

SYZYGY AG

TEAMVIEWER AG

TELES AG

TISCON AG

UNITED INTERNET AG

USU SOFTWARE AG

VIVANCO GRUPPE AG

WIRECARD AG

Austria

AT&S AUSTRIA TECH. & SYSTEMTECH. AG

FREQUENTIS AG

KAPSCH TRAFFICCOM AG

MASCHINENFABRIK HEID AG

RATH AG

Switzerland

ALSO HOLDING AG

AMS AG

ASCOM HOLDING AG

CREALOGIX HOLDING AG

HUBER+SUHNER AG

KUDELSKI SA

LOGITECH INTERNATIONAL SA

SOFTWAREONE HOLDING AG

TEMENOS GROUP AG

U-BLOX HOLDING AG

Telecommunication

Germany

1+1 AG O.N.

11 88 0 SOLUTIONS AG

3U HOLDING AG

DEUTSCHE TELEKOM AG

ECOTEL COMMUNICATION AG

FRFFNFT AG

LS TELCOM AG

NFON AG

TELEFONICA DEUTSCHLAND HOLDING AG

VANTAGE TOWERS AG

YOC AG

Austria

TELEKOM AUSTRIA AG

Switzerland

SWISSCOM AG

VALUETRUST

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Composition of each | finexpert | sector as of June 30, 2021

Utilities

Germany

E.ON SE

ENBW ENERGIE B./W. AG

ENCAVIS AG

GELSENWASSER AG

MAINOVA AG

MVV ENERGIE AG

RWE AG

UNIPER SE

Austria

EVN AG

VERBUND AG

Switzerland

BKW ENERGIE AG

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EDISUN POWER EUROPE AG

ROMANDE ENERGIE HOLDING SA

Basic Materials

Germany

ALTECH ADVANCED MATERIALS AG

ALZCHEM GROUP AG

AURUBIS AG

B.R.A.I.N. AG BASF SE **BAYER AG**

COVESTRO AG

DECHENG TECHNOLOGY AG

EISEN- & HUETTENWERKE AG

EVONIK INDUSTRIES AG FUCHS PETROLUB SE

H & R GMBH & CO KGAA

K & S AG

KHD HUMBOLDT WEDAG AG

LANXESS AG

SALZGITTER AG

SGL CARBON SE

SIMONA AG

SURTECO SE

SYMRISE AG

WACKER CHEMIE AG

Austria

AMAG AUSTRIA METALL AG

LENZING AG

OMV AG

PORR AG

SCHOELLER-BLECKMANN AG

STRABAG SE

VOESTALPINE AG

WIENERBERGER AG

Switzerland

CLARIANT AG

CPH CHEMIE & PAPIER HOLDING AG

EMS-CHEMIE AG

GIVAUDAN SA

GURIT HOLDING AG

SCHMOLZ & BICKENBACH AG

ZWAHLEN & MAYR SA

Industrials (1/2)

Germany

7C SOLARPARKEN AG

A.I.S. AG

ALBA SE

AMADEUS FIRE AG

AUMANN AG

AVES ONE AG

BASLER AG

BAUER AG

BAYWA AG

BILFINGER SE

BRENNTAG AG

COM.CHARG.SOL.AG

CROPENERGIES AG

DEUTSCHE POST AG

DEUTZ AG

DMG MORI AG

DR. HOENLE AG

DUERR AG

ENAPTER AG

ENERGIEKONTOR AG

FRANCOTYP-POSTALIA HOLDING AG

FRAPORT AG

FRIEDRICH VORWERK GROUP SE

FRIWO AG

GEA GROUP AG

GESCO AG

HAMBURGER HAFEN & LOGISTIK AG

HANSEYACHTS AG

HAPAG-LLOYD AG

HEIDELBERG.DRUCKMASCHINEN AG

HEIDELBERGCEMENT AG

HENSOLDT AG

HGFARS AG

HOCHTIEF AG

INDUS HOLDING AG **INFAS HLDG AG**

ITN NANOVATION AG

JENOPTIK AG

JOST WERKE AG JUNGHEINRICH AG

KATEK SE

KHD HUMBOLDT WEDAG AG

KION GROUP AG

KLOECKNER & CO: SE

KNORR-BREMSE AG

KOENIG & BAUER AG

KROMI LOGISTIK AG

KRONES AG

KSB AG

KUKA AG

KWS SAAT SE

LPKF LASER & ELECTRONICS AG

LUFTHANSA AG

MAN SE

MANZ AG

MASCHINENFABRIK BERTHOLD HERMLE AG

MASTERFI FX AG

MAX AUTOMATION AG

MBB SE

MEDION AG

MS INDUSTRIE AG

MTU AERO ENGINES AG

MUELLER-DIE LILA LOGISTIK AG

NESCHEN AG

NORDEX SE

NORDWEST HANDEL AG

NORMA GROUP SE

ORBIS AG OSRAM LICHT AG

PFEIFFER VACUUM TECHNOLOGY AG

PHILIPP HOLZMANN AG

PITTLER MASCHINENFABRIK AG PNE WIND AG

PVA TEPLA AG R. STAHL AG

RATIONAL AG RHEINMETALL AG

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Composition of each | finexpert | sector as of June 30, 2021

Industrials (2/2)

RINGMETALL AG

SCHALTBAU HOLDING AG

SCHUMAG AG

SFC ENERGY AG

SIEMENS AG

SIEMENS ENERGY AG

SINGULUS TECHNOLOGIES AG

SINO-GERMAN UNITED AG

SIXT SE

SLM SOLUTIONS GROUP AG

SMA SOLAR TECHNOLOGY AG

SOFTING AG

SOLAR-FABRIK AG

TECHNOTRANS AG

THYSSENKRUPP AG

TRATON SE

TUFF GROUP AG

UTD POWER TECHNOLOGY AG

UZIN UTZ AG

VA-Q-TEC AG

VARTA AG

VERBIO VEREINIGTE BIOENERGIE AG

VISCOM AG

VOLTABOX AG

VOSSLOH AG

WACKER NEUSON SE

WALTER BAU-AG

WASHTEC AG

7HONGDE WASTE TECHNOLOGY AG

Austria

ANDRITZ AG

CLEEN ENERGY AG

FACC AG

FLUGHAFEN WIEN AG

FRAUENTHAL HOLDING AG

MAYR-MELNHOF KARTON AG

OESTERREICHISCHE POST AG

PALFINGER AG

ROSENBAUER INTERNATIONAL AG

SEMPERIT AG HOLDING SW UMWELTTECHNIK AG

ZUMTOBEL GROUP AG

Switzerland

ABB LTD

ADECCO GROUP AG

ADVALTECH HOLDING AG

ALUFLEXPACK AG

ARBONIA AG

BELIMO AUTOMATION AG

BOBST GROUP SA

BOSSARD HOLDING AG

BUCHER INDUSTRIES AG

BURCKHARDT AG

BURKHALTER HOLDING AG

BVZ HOLDING AG

BYSTRONIC AG

CICOR MANAGEMENT AG

COMET HOLDING AG

DAETWYLER HOLDING AG

DKSH HOLDING AG

DORMAKABA HOLDING AG

ELMA ELECTRONIC AG

FEINTOOL INTERNATIONAL HOLDING AG

FISCHER AG

FLUGHAFEN ZUERICH AG

FORBO HOLDING AG

GAVAZZI HOLDING AG

GEBERIT AG

IMPLENIA AG

INFICON HOLDING AG

INTERROLL HOLDING AG

KARDEX AG

KLINGELNBERG LTD

KOMAX HOLDING AG

KUEHNE & NAGEL INTERNATIONAL AG

LAFARGEHOLCIM AG

LANDIS+GYR GROUP AG

LEM HOLDING AG

MCH GROUP AG

MEDACTA GROUP SA

MEIER TOBLER AG

MEYER BURGER AG

MIKRON SA

MONTANA AEROSPACE AG

OC OERLIKON CORPORATION AG

PERFECT SA

PERROT DUVAL HOLDING SA

PHOENIX AG

POENINA HOLDING AG

RIETER MASCHINENFABRIK AG

SCHAFFNER AG

SCHINDLER AUFZUEGE AG

SCHLATTER HOLDING AG

SCHWEITER TECHNOLOGIES AG

SENSIRION HOLDING AG

SFS GROUP AG

SGS SA

SIG COMBIBLOC GROUP AG

SIKA AG

STARRAG GROUP HOLDING AG

SULZER AG

TORNOS HOLDING AG

VAT GROUP AG

VETROPACK HOLDING AG

VON ROLL HOLDING AG

ZEHNDER GROUP AG

Real Estate (1/2)

Germany

A.A.A. AG

ACCENTRO REAL ESTATE AG

ADLER REAL ESTATE AG

ALSTRIA OFFICE REIT-AG

DEMIRE DEUTSCHE MITTELSTAND REAL ESTATE AG

DEUTSCHE FUROSHOP AG

DEUTSCHE INDUSTRIE REIT-AG

DEUTSCHE KONSUM REIT-AG

DEUTSCHE REAL ESTATE AG

DEUTSCHE WOHNEN AG

DIC ASSET AG

EYEMAXX REAL ESTATE AG

FAIR VALUE REIT-AG

FCR IMMOBILIEN AG

GATEWAY REAL ESTATE AG

GSW IMMOBILIEN AG

GWB IMMOBILIEN AG

HAMBORNER REIT AG

INSTONE REAL ESTATE GROUP N.V.

LEG IMMOBILIEN AG

PATRIZIA IMMOBILIEN AG

TAG IMMOBILIEN AG

TLG IMMOBILIEN AG

TTL AG UNIPROF REAL ESTATE HOLDING AG

VONOVIA SE

YMOS AG

Austria

ATRIUM EUROPEAN REAL ESTATE LTD

CA IMMOBILIEN ANLAGEN AG

IMMOFINANZ AG

S IMMO AG

UBM DEVELOPMENT AG

WARIMPEX FINANZ- UND BETEILIGUNGS AG

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Switzerland

ALLREAL HOLDING AG

ARUNDEL AG

CI COM SA

VALUETRUST

June 30, 2021

Composition of each finexpert sector as of June 30, 2021

Real Estate (2/2)

FUNDAMENTA REAL ESTATE AG HIAG IMMOBILIEN HOLDING AG INA INVEST HOLDING AG INTERSHOP HOLDING AG **INVESTIS HOLDING SA** MOBIMO HOLDING AG **NOVAVEST REAL ESTATE AG** ORASCOM DEVELOPMENT HOLDING AG PEACH PROPERTY GROUP AG PLAZZA AG **PSP SWISS PROPERTY AG** SWISS FINANCE & PROPERTY GROUP AG SWISS PRIME SITE AG **VARIA US PROPERTIES AG** WARTECK INVEST AG **ZUEBLIN IMMOBILIEN HOLDING AG**

ZUG ESTATES HOLDING AG

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