Q3/23 Technology Sector Report Software

IMAP



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Introduction

Digital Technology Senior-Team



Dr. Carsten LehmannManaging Partner



Nils Keller Partner



Mathias Heymann
Partner



Andreas Widholz Partner

IMAP Technology Deal Statistics

230+ deals in the technology sector since 2015

Ø 27 deals p.a.

>30% cross-border

>60% European targets

\$ 32m avg. deal size in 2022

IMAP's Software Report

We are pleased to release the **IMAP Software Sector Report for Q3 2023**. This sector overview provides insights into the investment activities of private equity investors as well as the valuation and share price development of listed companies as well as sector specific M&A dynamics

- Our assessment of private equity investments in software companies in the DACH region indicates a sustained high level of M&A activity with 21 deals YTD across various horizontal and vertical software subsectors. The report analyzes 174 investments in software companies since 2012. In general, software companies have experienced strong demand in recent years. In particular, specialist investors are pursuing buy-and-build strategies for their platforms and have carried out a large number of transactions in the lower mid-market
- Sub-segments of listed companies in the software sector showed a heterogeneous LTM Sept. 2023 stock performance, with some recording growth and others moving sideways or showing a decline. The varied performance of listed companies is also reflected in valuation levels, influenced by industry-specific trends as well as performance factors such as profitability and growth expectations
- **Transaction-based valuations** on the software market are in line with previous years in 2023, with transaction volumes and the number of transactions returning to 2020 levels

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Introduction to the PE Software Market in German speaking Europe

Very strong investment activity in recent years across all company sizes and sub-sectors

Introduction

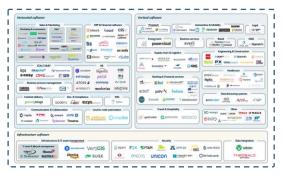
- Our analysis comprises 73 financial investors with investments in 174 software companies across Germany, Austria and Switzerland
- Software companies have experienced high demand since 2020 and we observed more than 130 transactions, with a peak in terms of deal activity in 2021 with 47 transactions
- Between 2020 and 2023, 99 deals were of primary nature (Entrepreneur to PE) and only 34 deals of secondary nature (PE to PE)
- More and more funds tend to focus on technology assets and 18% of investors have acquired more than 3 software companies
- Specialized funds in the lower mid-market such as Bid Equity, Elvaston, LEA Partners, Main Capital and Maguar have built substantial portfolios
- Around 23% (11%) of the analyzed platforms generate annual revenues of more than € 50m (€ 100m)
- Around 26% of the analyzed platforms employ more than 250 people and roughly 5% employ more than 1,000 people

Platforms by Shareholder



- Investors have developed dedicated focuses, seeking opportunities in all kinds of software companies
- While a large number of investors focus on developing only a couple of investments, others continuously enhance their portfolios
- Some of the most active consolidators are investors such as Elvaston, LEA Partners, MAIN Capital, and Bregal Unternehmerkapital

Platforms by Type of Software



- Both horizontal and vertical software is of high interest to investors
- For horizontal software, high M&A activity can be observed in the ERP/SCM space and the HR Tech sub-sector
- Similarly, Healthcare and Financial are types of vertical software that see great interest by PE investors



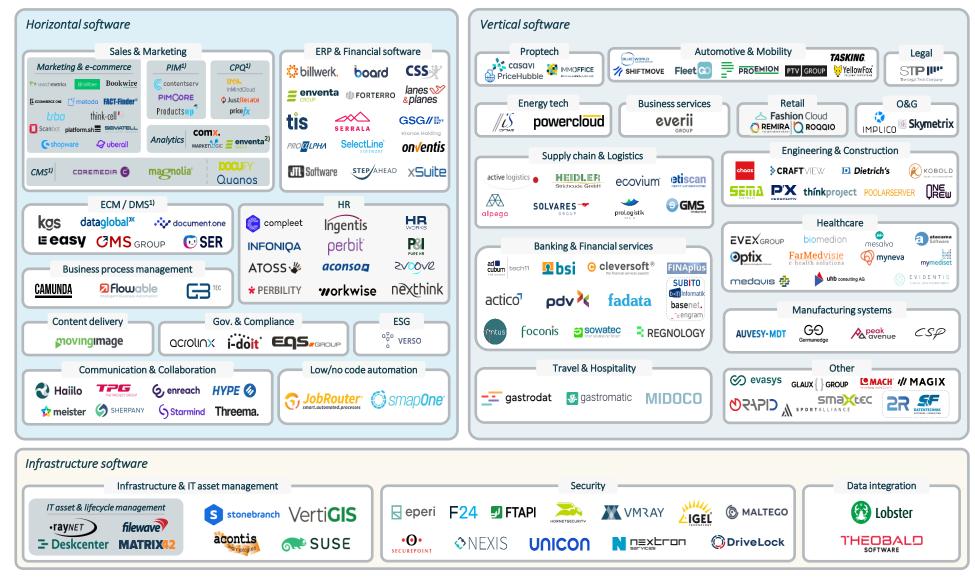
Selection of Financial Investors with DACH-based Software Portfolio Companies

Activity of Private Equity investors remains high in the software space, developing leading buy-and-build platforms



Ecosystem of Private Equity Software Portfolio Companies by Sub-Sector

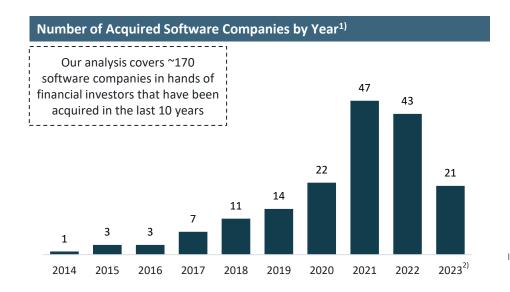
Our analysis covers 78 horizontal, 74 vertical, and 22 infrastructure software companies

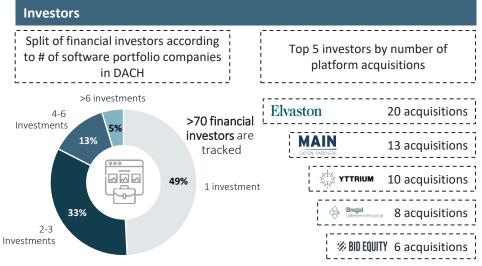


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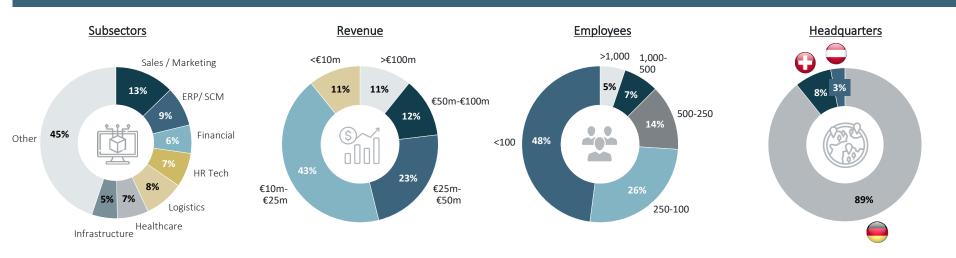
Analysis of the Investment Dynamics in the Software Landscape in DACH

Strong acquisition activity accelerated by the COVID-19 pandemic with a peak in 2021





Software Platforms



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Introduction and Executive Summary on the Software Market

Overview of the software market

Executive Summary

Analysis on M&A activity in 2023 compared to the historic development in Germany and Europe:

- Following a substantial surge in M&A activity between H1 21 and H2 22, the H1 23 level, both in terms of deal count and deal value, has reverted to levels observed before 2021 in Germany and Europe
- In Germany, 81 transactions with a deal value of EUR 3.9bn were closed in H1 23, with the deal value remaining relatively stable and the deal count decreasing more sharply compared to the prior period
- In Europe (excl. Germany), 428 transactions with a deal value of EUR 14.7bn were closed in H1 23, with deal value and deal count decreasing significantly compared to the prior period
- Q3 23 transaction-based valuations in Europe are in line with previous years at 14.8x EV/EBITDA and 3.8x EV/Revenue

Stock performance and valuation analyses of selected segments of publicly listed software companies (segmentation details on the right)

- During the last 12 months, the two segments with the best stock performance were ERP & SCM (+50%) and Data Analytics & BI (+44%)
- In Q3 23 Engineering & Construction is trading at the highest EV/Revenue multiple (8.9x) and is the most profitable sub-segment with a median EBITDA margin of 36% followed by HR (7.5x) which shows the highest revenue growth (21%) among all segments
- Realizing one of the highest sector EBITDA-margins (28%), ERP & SCM reports the highest EV/EBITDA multiple (38.1x), followed by Data Analytics & BI (37.7x)
- Between 2022A and 2024E, the Rule of 40 analysis of 99 SaaS companies indicates a clear shift in focus from growth to profitability

Segmentation of Publicly Listed Software Companies

This industry report categorizes the software landscape of listed companies into the following sub-segments:



Sales & Marketing: Companies providing application software for managing relationships with existing and potential customers as well as marketing solutions



ERP & SCM: Companies offering application software that supports all processes such as procurement, production, sales or plant management within organizations



Communication & Collaboration: Companies providing application software that enables the exchange of messages in text, audio and / or video formats as well as digital collaboration



HR: Companies providing application software that supports HR functions of organizations, such as recruitment, payroll, and workforce management



Security: Companies offering application software for digital security, backup and recovery as well as solutions for critical situations



Vertical: Companies providing application software addressing the needs of business within a specific vertical industry or market



Data Analytics & BI: Companies providing application software that allows for the analysis and understanding of historical and current data



Engineering & Construction: Companies offering application software that empowers its users to design, analyze, and simulate complex systems while being more productive

Deal Dashboard

Software M&A Market

Top 3 German Transactions in 2023⁵⁾

SILVERLAKE Acquired a majority stake in **S** software[∞] for € 2.3bn







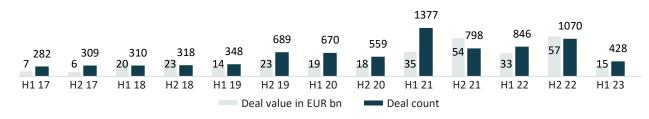
Top 3 European Transactions in 2023⁵⁾



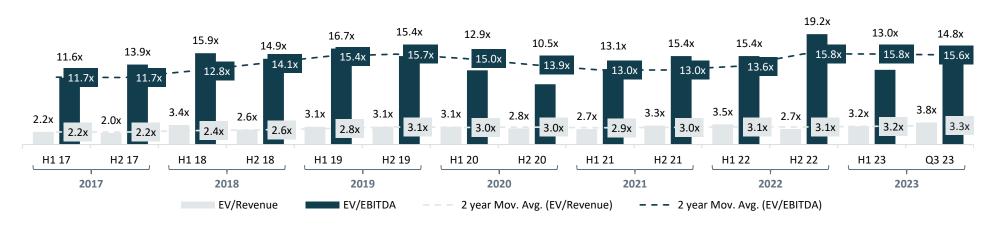




Development of Published European M&A Deal Count & Value^{1), 3), 4)}



Median of Published EV Multiples in Europe between 2017 and Q3 2023^{2), 3), 4)}



Software Universe

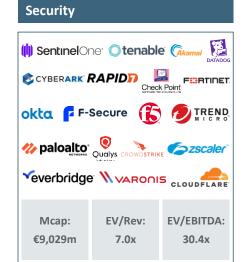
Overview of selected public software players by segment

















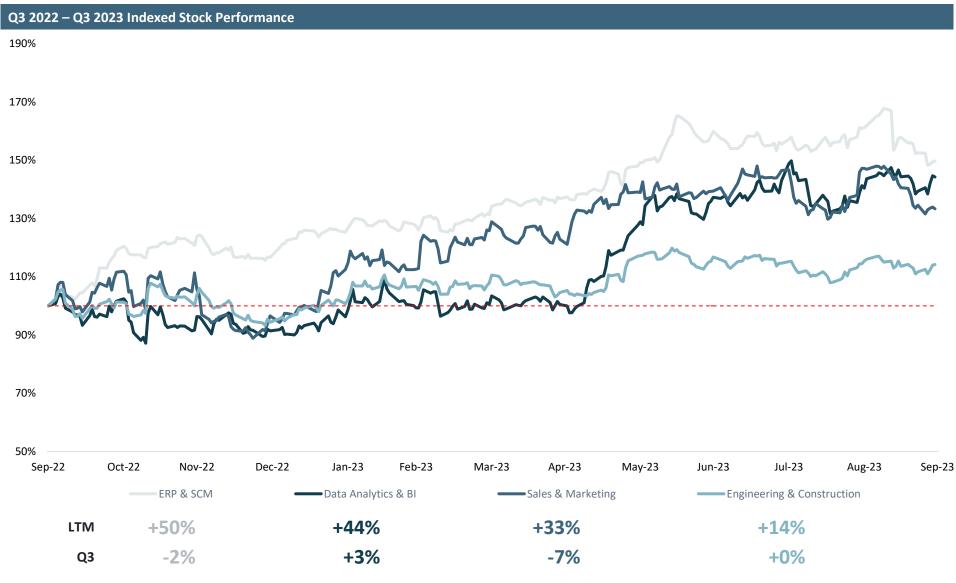
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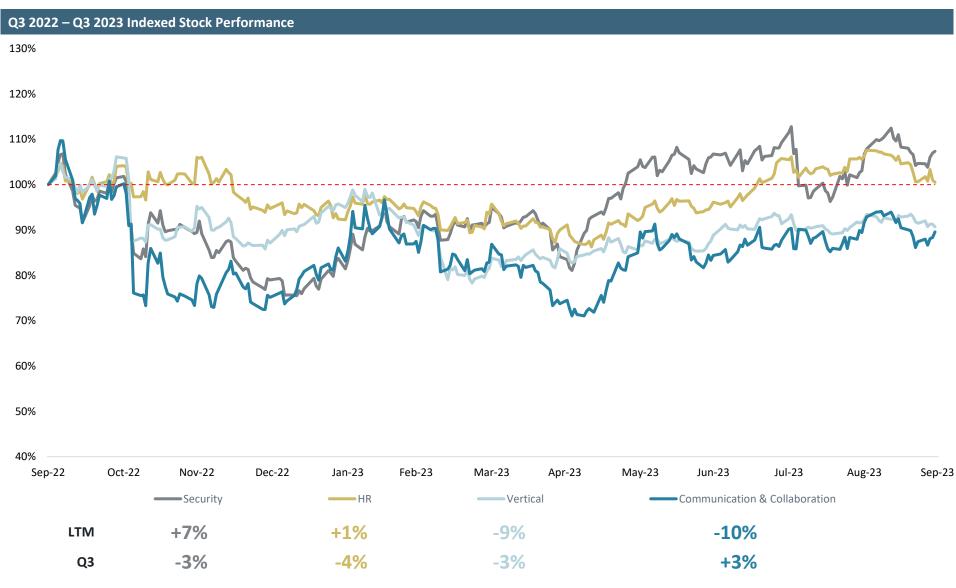
Stock Performance – Top 4 Segments

Segmented, indexed stock performance¹⁾



Stock Performance – Bottom 4 Segments

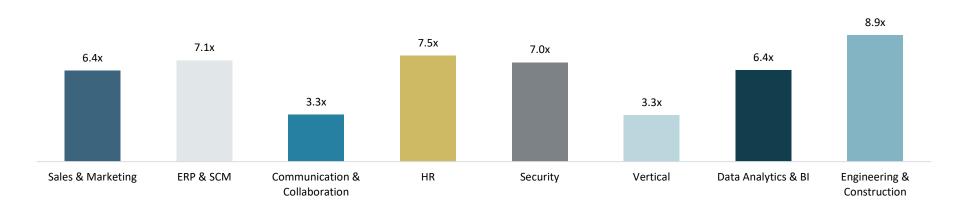
Segmented, indexed stock performance¹⁾



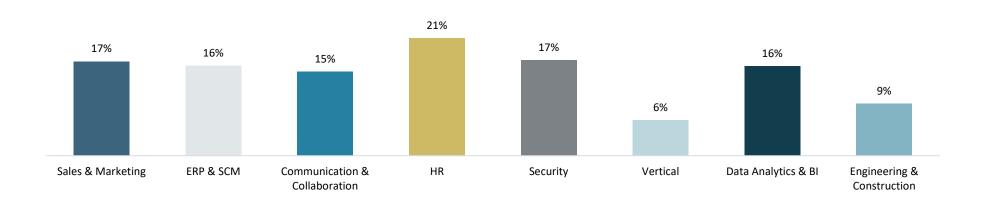
Software Valuation (I/IV)

Median segment valuation metrics in 2023E

EV/Revenue 2023E



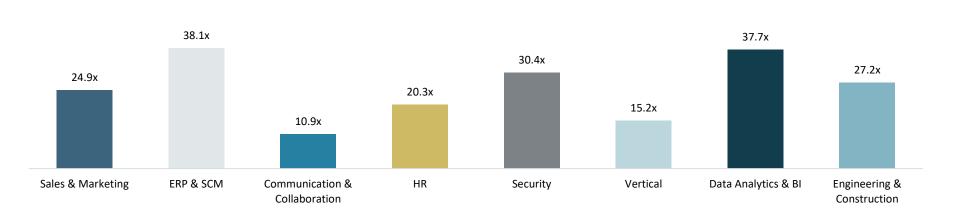
Revenue Growth 2023E



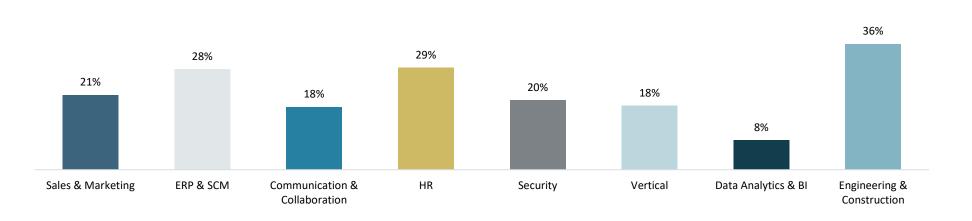
Software Valuation (II/IV)

Median segment valuation metrics in 2023E

EV/EBITDA 2023E



EBITDA-margin 2023E

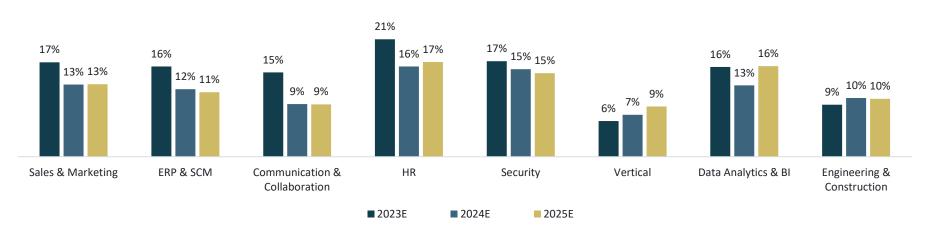


Software Valuation (III/IV)

Development of the median segment valuation metrics between 2023E and 2025E

EV/Revenue 2023E-2025E 8.9x 7.5x 7.8x 7.1x 6.7x 6.4x 7.0x 6.9x 6.4x 6.4x 5.6x 5.8x 5.6x 5.5x 5.0x 4.9x 4.8x 3.3x 3.4x 3.4x 3.3x 3.1x 3.0x Sales & Marketing Communication & HR Security Engineering & **ERP & SCM** Vertical Data Analytics & BI Collaboration Construction ■ 2023E ■ 2025E ■ 2024E

Revenue Growth 2023E-2025E



Software Valuation (IV/IV)

Development of the median segment valuation metrics between 2023E and 2025E

EV/EBITDA 2023E-2025E 39.9x 37.7x_ 38.1x 30.4x 27.8x 27.2x 24.9x 24.9x 23.3x 23.4x 20.3x 20.0x 19.5x 18.0x 17.0x 16.8x 15.2x 10.9x 14.9x 12.3x 10.5x 11x 10.5x **ERP & SCM** Engineering & Sales & Marketing Communication & HR Security Vertical Data Analytics & BI Collaboration Construction ■ 2023E ■ 2025E ■ 2024E

EBITDA-margin 2023E-2025E

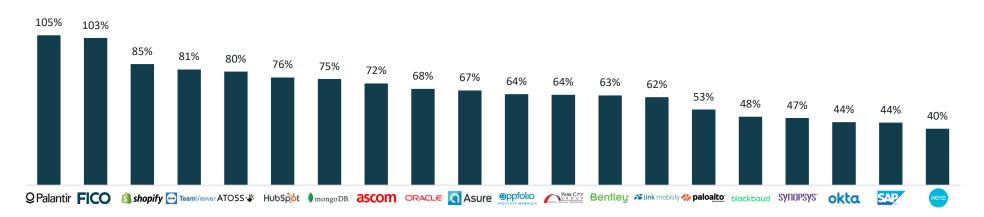


Top and Bottom Performers

Top and bottom public companies by LTM share price performance

Top 20 Performers

Share price development LTM



Bottom 20 Performers

-59%

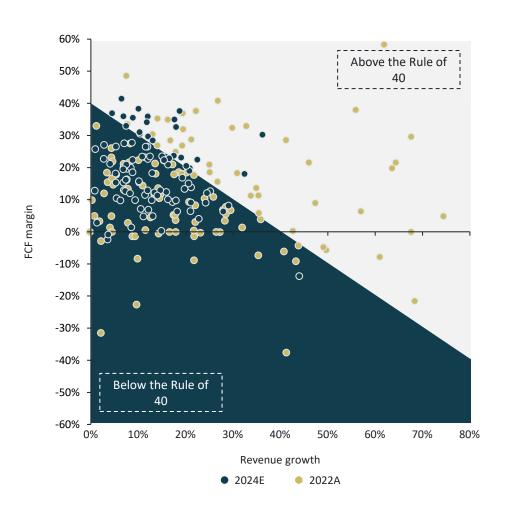


IMAP Source: CIQ as of 30/09/2023 Q3 2023 **20**

The Rule of 40: Introduction

Companies above the Rule of 40 achieve significantly higher valuations

Overview "Rule of 40"1)



Trade-off between Growth and Profit

- The Rule of 40 is a method for valuing software and in particular SaaS companies, measuring the trade-off between growth and profitability
- Companies with a combined sales growth and free cash-flow margin of over 40% are considered as being efficient in its growth and profitability development (efficiency score)
- Companies exceeding the Rule of 40 are likely to achieve higher valuations, as they are in a favorable position to attain long-term growth and profitability
- 99 SaaS companies were analyzed for 2024E and 2022A

Results

- The development from 2022A to 2024E shows a substantial shift in focus from growth to profitability
- While a lot of companies managed to achieve or maintain profitability, the majority lost substantial growth momentum on the way
- Out of 99 analyzed SaaS companies 21 satisfy the rule of 40 for 2024E compared to 34 for 2022A and 78 (2024E) lie below the rule of 40 compared to 65 (2022A)

Category	No. Of companies ²⁾	Market Cap (€bn)³)	Rev. Growth 23E-24E ³⁾	FCF Margin 24E ³⁾	EV/Rev. 24E ³⁾
Above the rule of 40	21 (34)	24.4	12.1%	32.6%	10.4x
Below the rule of 40	78 (65)	3.7	11.1%	14.4%	3.9x

The Rule of 40

Companies face a tense financing market and increase efforts to reach or maintain profitability

Rule of 40¹⁾ 60% Above the Rule of Below the Rule of 50% 40 and profitable 40 and profitable 40% 30% 20% 10% FCF margin 0% -10% 0 -20% -30% -40% Below the Rule of Above the Rule of -50% 40 and unprofitable 40 and unprofitable -60% 10% 20% 30% 40% 50% 60% 70% 80% Revenue growth 2024E 2022A

Selected Constituents and Results

- 99 SaaS companies were analyzed on their satisfaction of the Rule of 40 for 2022A and 2024E
- Reflecting the shift of focus towards profitability, from 2022A to 2024E the number of companies positioned in the golden, black, and grey zones decreased and in turn the number of companies in the blue zone increased substantially







Facing slowed revenue growth, companies fall into the black zone or move to the blue zone reaching profitability Fast growing (young) companies with negative profitability

Grey zone

Category	No. Of companies ²⁾	Market Cap (€bn)³)	Rev. Growth 23E-24E3)	FCF Margin 24E ³⁾	EV/Rev. 24E ³⁾
Golden zone	21 (31)	24.4	12.1%	32.6%	10.4x
Blue zone	75 (52)	3.8	11.4%	15.1%	4.0x
Black zone	3 (14)	0.3	3.6%	-2.4%	1.3x
Grey zone	0 (3)	-	-	-	-

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IMAP is a Leading Mid-Cap M&A Firm Specialized in Privately Owned Companies

Strong track record of c. 220 transactions p.a. with transaction values ranging from c. € 20m – 300m



Leading global M&A organization with more than 60 Offices in 41 Countries, thereof 3 in Germany



450+ Advisors, 50 thereof in Germany

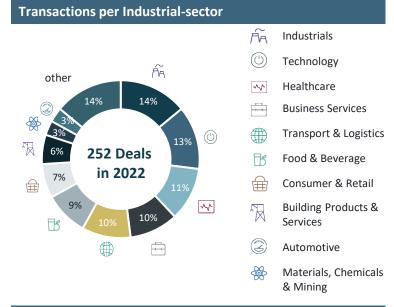


Ø 220 Transactions p.a., **25 thereof in Germany**

c. 80% Sell-side advisory



Transactionvolume p.a.
> € 15bn
Value per
Transaction
between
€ 20m-300m





Successful in the
German market since
1997 - managed by
partners with
long-term
experience, who are
responsible only

to the client



Primarily active for entrepreneurs and founders

- Family-owned SMEs
- Private Equity
- Corporate groups



International sector-focused teams connected via global IT platform



Consistently among the **Top 10 M&A** advisory firms in various industry rankings

Our Corporate Values:

Execution



Informality



Dedication

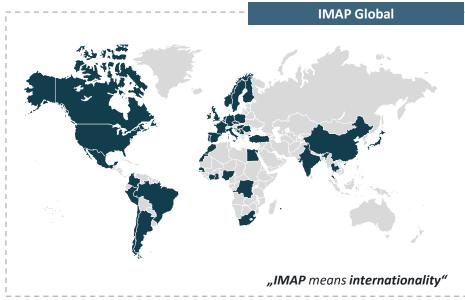


Talent



IMAP Global

IMAP combines global sector-expertise with direct access to main investors in all relevant markets



International sector- and project teams

- Resources and knowledge pool for all sector specific projects and access to all relevant databases
- Access to all relevant national and international investor groups by combining local knowledge with international reach
- Standardized, IMAP-wide working routines for market development and project execution
- Globally rotating IMAP conferences & symposia close and regular exchange among IMAP experts

252

M&A Transactions (in 2022)

€26bn+

Transactionvolume (in 2022)

26%

Cross-Border Transactions 450+

M&A Professionals

49

Countries

60+

Offices around the globe

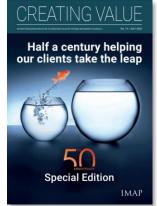
Insights













IMAP Deal Statistics

IMAP technology deal statistics and German digital technology deals

German Digital Technology Deals since 2018 (selection)



Advisor to SDX









IMAP Technology Deal Statistics

>30% cross-border >60% European targets **\$ 32m avg. deal size** in 2022

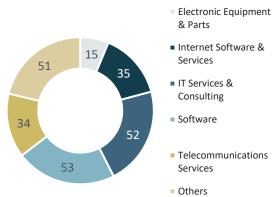
Deal Split by Technology Subsector since '15



















1) IMAP team members involved

IMAP

IMAP Digital Technology Deals

Selected IMAP international deals since 2019



Advisor to S&F



Advisor to GenoData



orangelogic



Connexires





ManageYOURID









Advisor to InHouse



Advisor to Geniem



Advisor to Vitec



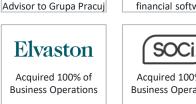




















CARLYLE

Acquired Majority









CYMBRIA



Advisor to On Point











Acquired 100% of **Business Operations**



Advisor to Vitec



Acquired Majority Control



Advisor to Adelis



Advisor to Brandify

Acquired 100% of **Business Operations**



Advisor to Lagash SAU



Acquired 100% of **Business Operations**



Advisor to WinBooks



Advisor to Vitec

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