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Do large pension funds achieve better results?

RETURNS

LUKAS RIESEN AND ADRIAN IMHOF

Smaller pension funds do not necessarily have lower returns, according to PPCmetrics

KEY POINTS

Not all large pension funds earn higher returns than their smaller counterparts

The size of a pension fund has only a small influence on effective asset-management costs

Despite an overall fall of 2.86% in 2018, funds paid an average interest accrual of 1.39% for active members

question frequently discussed in the Swiss pension fund market is whether smaller pension funds are less efficient than larger ones at managing their investments. Here we discuss the following questions:

- Can larger pension funds, on average, show better absolute returns?
- What is the relationship between asset management costs and asset
- What is the relationship between the effective interest rate on savings and the absolute return achieved?

We use data from our most recent analysis of pension fund annual reports. The study is based on the audited annual reports of about 290 pension funds with total assets of over CHF648bn (€593bn) and over 3.4m members. The scope and quality of the data allow comprehensive empirical analyses.

1. The level of pension assets had no influence on the absolute return during the period under review. Return is a term used to describe the overall result of an investment, measured as the actual yield as a percentage of the capital employed. It is based on distributions (interest, dividends, etc) and on changes in value (total return). In the case of the net return, the fees for managing the assets are also deducted. Net returns are used in the following analysis.

The analysis is based on the observation period 2017-18. While in 2017 most investment strategies of Swiss pension funds generally generated clearly positive returns, in 2018 the returns of most pension funds were negative. In both years, different asset classes were successful. Since 1985, Pictet has been calculating the Pictet BVG indices, which track the performance of mixed mandates with a reference currency of CHF.

The Pictet BVG 25 index (with a 25% equity component) generated a positive absolute return of 5.90% in 2017 and a negative absolute return of 2.22% in 2018. Higher investment risks paid off in 2017, while more conservative implementation was

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more successful on average in 2018. On average, the BVG 25 generated an absolute annual return of 1.76% over the two-year period.

Figure 1 shows the absolute annual return of the last two years on the vertical axis and the average pension assets of the corresponding pension funds on the horizontal axis. The relation between the level of pension assets and the absolute return of the pension funds shown is not statistically significant and only a minimum share of 0.05% of the variation in the absolute returns is explained by the size of the pension fund. The regression line is almost horizontal. In the last two years, asset size has therefore not had a significant impact on the absolute results of the pension funds.

Figure 2 confirms this finding. The average absolute return of the pension funds within the asset categories shown was between 2.27% and 2.48% annually in 2017 and 2018. An exception are funds with assets of between CHF500m and CHF1bn, where the average investment return was 3.07% annually.

The higher figure is mainly attributable to one pension fund with an average absolute return of more than 9% annually and thus a clear outlier within the peer group. If this extreme value is not taken into account, then the mean value drops from 3.07% annually to 2.69% annually and would thus still be higher than in the other four asset categories presented.

This means the analysis cannot confirm the hypothesis that large pension funds have a performance advantage over small ones in the period 2017 and 2018.

2. There are only minor cost differences between small and large funds in terms of assets.

In 2018, these averaged 44bps (median: 40bps) for transparent investments for all pension funds (figure 3). The median and average increased slightly compared to the previous year (2017 average: 43bps; median: 38bps). The average costs remain approximately constant up to a maximum asset size of CHF5bn. Costs for larger assets between CHF5bn and CHF10bn are slightly lower. The costs are highest on average for funds with assets in

excess of CHF10bn.

This result may seem surprising at first glance, since asset management costs are generally degressive - proportionate reduction of costs with increasing assets. One possible explanation for this result is that larger pension funds tend to invest more in alternative investments, which are usually associated with higher costs. If a higher net return can be achieved, this is in the interest of the members. However, as stated. no correlation between the absolute net return and the size of a pension fund can be established for the period 2017-18.

In addition to asset size and the proportion of alternative investments, the mandate type (active versus passive) and the use of collective investments also have a significant influence on asset management costs.

3. Positive but insignificant correlation between absolute return and effective interest rate.

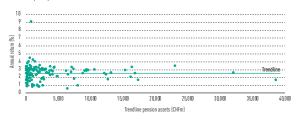
and effective interest rate.
For 2018, the average absolute return was a negative 2.86%. Nevertheless, the average fund still accrued positive interest on the pension capital of active members. The 'effective interest rate' corresponds to the interest rate at which the savings of the active policyholder was paid, according to the annual report.
Figure 4 shows the percentage rate of accrual on the vertical axis and the absolute return of the corresponding pension funds on the horizontal axis.

The regression line shows a slightly positive slope. With each additional percentage point of return achieved, the interest rate rises by 0.04%, whereby a hypothetical pension fund with an absolute return of 0% granted an average interest rate of 1.5% in 2018. This means, for example, that a pension fund with an absolute return of -5% in 2018 chose an average interest rate of about 1.3% for active policyholders.

However, the slightly positive relation is not statistically significant. Only about 1% of the variation in the effective interest rate is explained by the absolute return in 2018. Other variables, such as current risk-bearing capacity, seem to explain a more significant proportion of the variation. Many pension funds, and a significantly larger proportion

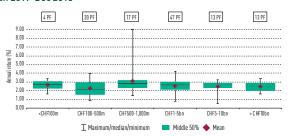
PPCmetrics study data

1. Trendline pension assets versus annual return (%)



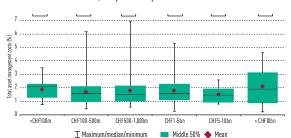
2. Overall annual return based on middle 50% pension assets (%)

Jan 2017-Dec 2018



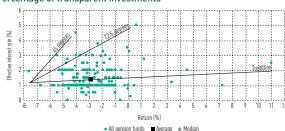
3. Total asset management costs by AUM (%)

As at 31 December 2018, all pension plans



4. total return according to annual reports versus effective interest rate (%)

Percentage of transparent investments



Source for all and ©: PPCmetrics



Adrian Imhof

compared to the previous year, chose the BVG minimum interest rate of 1%, regardless of the absolute return in 2018.

A higher return in 2018 does not necessarily mean a higher interest rate for members. Even when returns were similar, there are high fluctuations in the effective interest rate. Figure 4 also includes a few pension funds – 14 out of 240 (or 5.8%) – that have stated that their interest rates are below the legal



Lukas Riesen

minimum rate of 1%. These are mainly underfunded pension funds, which have defined a lower interest rate as a restructuring measure.

In summary, it can be stated that, despite an average absolute return of negative 2.86% in 2018, Swiss pension funds paid an average interest of 1.39% on the savings of active policyholders, which was even higher than the prescribed 1% minimum.

In conclusion, the study

results do not confirm that pension funds with low pension assets have higher costs or lower returns than large pension funds. One possible reason is that smaller pension funds often use simpler investment structures to keep their costs low, while large pension funds often invest in more complex and expensive investment vehicles.

In the most recent market phase (1 January 2017 to 31 December 2018) this did not result in any disadvantage for small pension funds in terms of the absolute return achieved.

Finally, the interest rate of active policyholders currently appears to be driven by other parameters than the reported absolute return.

We assume that higher priority will be given to adjusting the technical provision parameters to the latest interest rate developments.

Lukas Riesen, CFA, is partner and head of ALM and actuarial consulting at PPCmetrics and Adrian Imhof, CFA, is senior investment consultant We publish more than 40 articles on various topics per year.



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