OPTIMIZATION OF PENSION COMPANIES IN THE CZECH REPUBLIC

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Abstract

This paper presents pension system in the Czech Republic, analysis public income, and expenditure connected with pension system and existing supplementary pension funds. It shows the return of pension funds and profit of pension companies and new rules connected with activities and profit of pension companies. The main goal of this paper is to know if public expenditure spent on pension insurance in pension funds of pension companies are optimally expended. Description, analysis, and synthesis are the scientific methods used for processing the paper.

Keywords

Pension system; pension companies; pension funds; optimization; public expenditures

JEL Classification: H55, H75, G22

1 Introduction

The Czech Republic ranks to the developed countries with the lengthening of life and number pensions. The future predictions show that this situation will probably not change. This positive situation is connected with negative impacts on public finance. It is obvious that current public incomes assigned for pensions system will not be enough and state pensions will be very low. Even now, it is possible to see the discrepancy between public incomes and public expenditures. From this reason, some of the people try to insure for pensions and they choose many ways.

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They invest finance to properties (e. g. realities, precious metals, pieces of jewelry, the object of art) or they have a lot of children (they take care of their parents) or they choose one of the companies offered voluntary supplementary personal pension (named "third" pillar). Every one of these possibilities is characterized by advantages and disadvantages. In addition to these advantages and disadvantages, there are a lot of unnamed risks, future for many people is unbeknown, and they want to solve that.

The main goal of this paper is to know if public expenditure spent on pension insurance in pension funds of pension companies are optimally expended. Description, analysis, and synthesis are the scientific methods used for processing the paper.

2 Pension System in the Czech Republic

Number of taxpayers for one old-age pensioner

Total incomes from insurance

Pension system in the Czech Republic is divided into two parts. First, mandatory basic pension insurance is funded on a running basis and it is covering employees and the self-employed. The system is characterized as universal and provides for all economically active individuals. The rules of the system are the same for all insured persons and all of industries except power sector, which are e. g. policemen, customs officers, firefighters or soldiers. This first pillar is in the competence of the Ministry of Labor and Social Affairs. The main substantive law regulation, which aims at the entitlement to a pension from the basic pension insurance, methods of determination of pension benefits and conditions of payment, is the Act no. 155/1995 Coll., on pension insurance. This regulation came into effect on 1 January 1996. The contribution rate for the first pillar is 28%. Both, employers and employees contribute to this system (employers pay 21.5% of payroll, employees 6.5% of earnings. The self-employed pay the full height of contribution rate. The relation of earnings and pensions has a strong redistributive character. According to Pension Funds Online, the base on which pensions are assessed is 100% up to CZK 8 400. 30% between CZK 8 400-20 500, and 10% above this sum. Table 1 shows the main information about the first pillar in numbers.

Index	30.09.2015	30.09.2016	30.09.2017
Number of old-age pensioners	2 370 725	2 389 270	2 396 784
Average of pension (in CZK)	11 334	11 441	11 828

2.14

260.88

2.15

276.38

2.19

299.23

Table 1 Summary About First Pillar

Optimization of Pension Companies in the Czech Republic

Total outcomes to pensions	282,91	291,33	303,34
Deficit between incomes and outcomes	-22,03	-14,94	-4,11

Source: Own processing according to Czech Social Security Administration.

It is possible to see, that all indexes are increasing during the watched period except deficit of pension system. The reason for decreasing of the deficit between incomes and outcomes is that the economics is increasing; taxpayers pay for pension insurance more than at the time of economic crisis. Alarming is that today's, we need 2.19 taxpayers for paying pension for one old-age pensioner and this trend does not change. This situation is unsustainable. Unfortunately, it is not political motivation for change.

Second, there is a voluntary complementary additional pension insurance with state contributions marked as the third pillar of the pension system. The third pillar also includes products offered by commercial insurance companies – particularly life insurance. The pension companies are joint stock companies and they have to lead the business under the provisions of the Commercial Code. The third pillar is in the competence of Ministry of Finance. All pension companies have to be licensed by the Ministry of Finance, in agreement with the Ministry of Labour and Social Affairs and the Securities Commission. This system is based on products offered by commercial insurance funds. It is possible to choose pension fund and height of contributions. Pensions granted from this third pillar create only negligible part of incomes of the retired.

The state contributes to pension insurance in the third pillar. The state contribution is depending on the level of employees' contributions. For member contributions between CZK 300-399, the state adds CZK 90 plus 20% of the member contribution above CZK 300. If the pension plan member contributes between CZK 400-499, the state adds CZK 110 plus 20% of the member contribution above CZK 400. The allowance gradually increases with the highest allowance (CZK 230) for members contributing more than CZK 1000. Employers can contribute to your employees.

Pension funds are not Authorized to offer more than one pension plan. It is possible to switch pension funds for participants; there are no switching fees. The minimum age for receiving of payments from pension funds is 60, provided a minimum number of contributory years, which is regulated by each pension fund. If the participants want to receive the money from the pension fund earlier, the state matching contributions have to be repaid and there is additional taxation. Participants can choose if they money in the form of regular installments or as a lump sum, more details are on Pension Funds Online.

The number of pension insurance in the third pillar is decreasing during the last three years. The highest number of pension insurance was in 2012 (5 134 862), the reason was in a number of new pension insurance, which was increasing about 146.8% in comparison 2011, see Table 2.

Table 2 Development of Pension Insurance in the Czech Republic

		2011	2012	2013	2014	2015
	Number	4 565 741	5 134 862	4 963 344	4 803 134	4 643 016
Pension insurance	Increase (%)	0.8	12.5	-3.3	-3.2	-3.3
	Number	457 033	1 128 020	77 771	145 841	156 062
New pension insurance	Increase (%)	-7.8	146.8	-93.1	87.5	7
Pension	Number	1 271 934	1 317 563	1 352 461	1 354 485	1 362 283
insurance with employers' contributions	Increase (%)	-1	3.6	2.6	0.1	0.6
State contributions	Volume (mld CZK)	5.602	5.913	6.861	6.847	6.803
to pension insurance	Increase (%)	1.7	5.6	16	-0.2	-0.7
Total members	Volume (mld CZK)	23.426	25.493	33.306	32.897	32.667
contributions	Increase (%)	0.9	8.8	30.6	-1.2	-0.7
State contribution	Volume (CZK)	105	108	117	120	124
(average per month)	Increase (%)	0.4	2.5	8.4	2.8	3
Members´	Volume (CZK)	442	465	570	579	598
(average per month)	Increase (%)	0.5	5.3	22.6	1.7	3.1

Source: Own processing according to Basic indexes of development of pension insurance. Ministry of Finance of the Czech Republic.

Table 2 shows that state contributions to pension insurance are decreasing in the last three years in CZK 6,8 milliard in 2015. The same situation was at a total volume of members' contributions, the highest was in 2013. State contribution per month as well members' contribution per month is increasing during the watched period. State contributions to pension insurance reached more than 6,8 milliard in 2015. State contribution per month reaches 20,7% of members' contribution per month.

It is possible to see, that the state contributions to members of the third pillar to the third pillar with a lot of money.

According to Association of Pension Companies in the Czech Republic, current average members' contribution per month was 614 CZK at the end of September 2017. A number of participants in the third pillar are 4,47 mil. and the total volume of contributions in the third pillar is 405,5 milliards CZK.

Pension insurance system in the Czech Republic absents the second pillar. The second pillar is usual in the EU member states. The second pillar was possible to use between 2013 and 2016. The main reason for scrapping the second pillar was lack of interest of persons. Only 83 000 persons signed up. The main steps for scrapping the second pillar was realized in 2016. Incomes to this pillar were flowed from two sources, from gross wages, and from the first pillar. Participants have to send 2% from gross wages and employers have to send 3% of the 28% first pillar social contribution. Increasing of payment from gross wages was unpopular. The monies in the second pillar were transferred to the first pillar. Members of the second pillar had the choice of receiving their money into private bank accounts or reinvest the money into existing third pillar companies.

3 Commercial Companies Offered Pension Insurance

Pension insurance offers pension companies according to the Act no. 42/1994 Coll., on State-Contributory Supplementary Pension Insurance. Pension companies have the possibility of gathering and controlling the money of participants in the pension fund or more pension funds according to Act no. 427/2011 Coll., on Supplementary Pension Savings.

According to Ministry of Finance, total 49 commercial insurance companies offered their services on the market in the Czech Republic during 1995 and 2017. Today, eight commercial insurance companies can offer commercial pension insurance in the Czech Republic. The rest of commercial insurance companies were fused, are in bankruptcy or liquidation or are marked as defunct companies. Table 3 shows the biggest companies according to the number of clients. It involves only clients, which make a contract in the period November 2013 – September 2017. Total number of participants during this period is 711 thousand.

Table 3 Pension Companies according to Number of Clients

Pension company	Number of clients	
Česká spořitelna – penzijní společnost	223 627	

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Penzijní společnost České pojišťovny	163 830
ČSOB penzijní společnost	110 586
KB penzijní společnost	110 064
Allianz penzijní společnost	35 861

Source: Tůma, O. Doplňkové penzijní spoření. Jak si letos vede nové penzijko.

Number 1 in pension companies is Česká spořitelna – penzijní společnost with 223 627 participants. It is 31% of the total number of participants. Penzijní společnost České pojišťovny places on the second position with 23%. ČSOB penzijní společnost and KB penzijní společnost are both more than 15%. The market rate of the rest pension companies (according to a number of clients in the presented period) is small.

Pension companies offer different types of pension funds. Conservative types of pension funds buy especially bonds, dynamic or increasing types of pension funds buy more stock. Profit and risk of the first type of pension funds are low, profit and risk of the second type of pension fund are higher. Preference of pension funds can be known according to the size of assets of pension companies. Table 4 shows the biggest 5 pension funds.

Table 4 Biggest Pension Funds according to Assets

Pension company	Assets (milliards CZK)
Česká spořitelna: Conservative fund	6,063
Česká pojišťovna: Saving fund	5,058
Česká spořitelna: Balanced fund	2,603
ČSOB: Conservative fund	2,285
KB: Conservative fund	2,029

Source: Tůma, O. Doplňkové penzijní spoření. Jak si letos vede nové penzijko.

Table 4 shows that conservative funds and saving fund reach the most size of assets. It is paradox because people want to have enough money in old age, but they prefer conservative funds with the low level of returns. The only small portion of participants prefers dynamic funds with high returns.

The high size of assets involves pension funds of Česká spořitelna. Conservative fund and balanced fund place on the first and third position. It is obvious that pension company Česká spořitelna is the most dynamic in comparison with the other pension companies. Pension company Česká spořitelna has the most part of new clients and two of its pension funds have the high size of assets. One of the pension funds of Česká pojišťovna places on the second position. It is the same position as at previous table evaluating the number of clients. Conservative fund of ČSOB is on

the fourth position. The total range of ČSOB (according to a number of clients and size of assets) is the third position. The fourth position belongs to pension companies Komerční banka.

Current pension companies offered pension insurance in the Czech Republic with the funds are shown in Table 5. This Table shows the performance of pension fund in 2016 and performance from the beginning of pension fund.

Table 5 Performance of Pension Companies

Pension company	Pension fund	2016 (%)	Total* (%)	Pension company	Pension fund	2016 (%)	Total* (%)
	Conservative fund	-0.04	3.98	Česká spořitelna penzijní	Conservative fund	-0.05	2.25
Allianz penzijní společnost	Balanced fund	2.21	9.5		Balanced fund	5.17	9.69
	Dynamic fund	1.51	11.5	společnost	Dynamic fund	7.42	14
	Conservative fund	0.02	3.8		Conservative fund	-0.15	1.91
AXA penzijní společnost	Obligation fund	0.43	4.38	KB Penzijní společnost	Saving fund	0.45	0.81
	Balanced fund	4.48	12.3		Balanced fund	-0.84	5.4
	Conservative fund	0.09	2.7		Dynamic fund	0.87	10.8
Conseq penzijní společnost	Obligation fund	1.94	11.1	NN Penzijní společnost	Conservative fund	0.21	1.02
·	Joint-stock fund	10.81	49.2		Balanced fund	2.44	1.93
	Conservative fund	0	5.05		Inreasing fund	9.35	-3.3
	Guaranteed fund	-0.47	3.17	Penzijní společnost České pojišťovny	Conservative fund	-0.1	4.2
ČSOB Penzijní společnost	Balanced fund	3.11	11.6		Saving fund	0.8	7.5
	Dynamic fund	Dvnamic fund 5.36 1	17.9		Balanced fund	3.5	10.4
	Synamic fund	0.00	17.5		Dynamic fund	6.4	11.8

^{*} Total performance since the beginning of the pension fund

Source: Tůma, O., Velké srovnání výsledků fondů doplňkového penzijního spoření za rok 2016.

These pension funds showed the most performance in 2016: Joint-stock fund of Conseq penzijní společnost (10.81%), Increasing fund of NN penzijní společnost (9.35%) and Dynamic fund of Česká spořitelna penzijní společnost (7.42%). The situation in 2017 showed only small changes, pension fund on the first position moved to the second position and the pension fund on the second position moved to the first position. According to the results in September 2017, the first position belongs to Increasing fund of NN penzijní společnost. It shows performance at 12.5%. The second position belongs to Joint-stock fund of Conseq penzijní společnost with 9.5%. Dynamic fund of Česká spořitelna penzijní společnosti is again on the third position with 9.05%. Detailed information is available in Tůma, O. Doplňkové penzijní spoření. Jak si letos vede nové penzijko.

These pension funds showed the highest total performance (since the beginning of pension fund): Joint-stock fund of Conseq penzijní společnost (49.16%), Dynamic fund of ČSOB Penzijní společnost (17.92%) and Dynamic fund of Česká spořitelna penzijní společnost (13.95%). The situation did not change in 2017. According to the result in September 2017, Join-stock fund of Conseq penzijní společnost reached the first position with 62.29%. Dynamic fund of ČSOB Penzijní společnost had performance on 25.11%. Dynamic fund of Česká spořitelna penzijní společnost increased total performance on 21.81%.

Opposite, pension funds with the low level of performance in 2016 were: Balanced fund of KB penzijní společnost with loss 0.84%, Guaranteed fund of ČSOB penzijní společnost with loss 0.47% and Conservative fund of KB penzijní společnost with loss 0.15. There are next three pension funds with losses. It means that 22% of pension funds showed the loss in 2016. Only 74% of pension funds showed returns because Conservative fund of ČSOB penzijní společnost showed 0. The situation was not improved in 2017. The worst performance showed guaranteed fund of ČSOB penzijní společnost with loss 1.01%, Conservative fund of Allianz penzijní společnost with loss 0.99% and Balanced fund of Allianz penzijní společnost and Conservative fund of NN penzijní společnost, both with loss 0.8%. Unfortunately, 55.5% of pension funds showed losses in 2017 (till 30 September). The main reason is that returns of government bonds are very low (0.25% at 10-Year bonds in September 2017). The highest interests of 10-Year bonds were 0.62% in 2016, see Slapnička.

Interests of conservative types of pension funds should be higher than the inflation. Inflation was 0.7% in 2016 and 2.5% in 2017 in the Czech Republic.

These pension funds showed the lowest performance (since the beginning of pension fund) in 2016: Increasing fund of NN penzijní společnost with loss 3.26, Saving fund of KB penzijní společnost with profit 0,81 and Conservative fund of

KB penzijní společnost with profit 1.91. In 2017, pension funds with the lowest level of performance are the same as pension funds in 2016. Saving fund of KB penzijní společnost with profit 0.23% placed in the first position. Conservative fund of KB penzijní společnost with profit 1.21% was in the second position. Conservative fund of NN penzijní společnost with profit 1.42% ranged on the third position. Detailed information is available in Tůma, O. Doplňkové penzijní spoření. Jak si letos vede nové penzijko.

One reason for the low profit is that interest rates were very low, however, there is still question if the pension funds could not have better profit. Profit of pension funds influences profit of pension companies. On the first view, all pension companies reached the profit in 2016. Allianz penzijní společnost had the highest profit – more than 744 thousand CZK. The second position ranked Penzijní společnost České pojišťovny. These two companies reached about 64% of total profits of this industry, see Table 6.

Table 6 Profit After Taxes at Pension Companies

Profit after taxes (in thousand CZK)	2016	2015	2014
Allianz penzijní společnost	744 988	809 447	1 041 879
AXA penzijní společnost	113 293	-29 081	-97 258
Conseq penzijní společnost	12 646	-2 339	-3 239
ČSOB penzijní společnost	143 406	82 202	34 199
Česká spořitelna penzijní společnost	139 802	52 393	44 805
KB penzijní společnost	234 400	175 569	134 974
NN penzijní společnost	86 794	121 277	81 744
Penzijní společnost České pojišťovny	651 898	355 903	367 183

Source: Annual reports of pension companies.

The highest profit on the market reached Allianz penzijní společnost. It is interesting, that Allianz did not rank among pension companies with high number of clients and their pension funds reach the lowest profit, but it is on the second position in total profit. Penzijní společnost České pojišťovny places on the first position. It can be marked as balanced company. It has high number of clients, high size of assets and financial results of its pension funds are not so bad. In comparison with the profit in previous year, the worse profit was showed by Allianz penzijní společnost and NN penzijní společnost. Profit of the other pension companies is increased.

How is it possible that in many cases, pension funds reach loss or low level of profit and the total profit of pension companies is increasing? Since 2016, the fee for administration money in pension funds for closed contracts before 2013 has

been increased in 0,8% (in 2015 was the fee for administration 0,6%). The reward from the profit of pension funds for contracts before 2013 has been decreased from 15% to 10% since 2016 see § 60 Act no. 427/2001 Coll. about on Supplementary Pension Savings. Generally, this situation is better for pension companies because the interest rate is still low. According to the Association of pension companies in the Czech Republic, increasing fee for administration brings more than 650 million. CZK to all pension companies for a one year. Lower rewards from the profit of pension funds create about 277 million. CZK for all pension companies for a one year. According to Hovorka, the results is increasing returns about 375 million. CZK in a year. The situation is changed for the closed contract in 2013 and after. The fee for administration increased from 0.8% to 1% except for conservative funds. Rewards from a profit of pension funds increased from 10% to 15%.

Pension companies promised that this change will be better for their clients as well because pension companies will buy "more expensive" investments with the high rate of return. Change of the rules is shown at changing the portfolio of investments in pension funds in 2016 (Slapnička, 2017):

- Increasing of term deposits and current accounts (from 17.61% to 23.48%).
- Decreasing of investments to bonds OECD and MFI (from 15.21% to 13.33%).
- Increasing of investments to bonds the other countries (from 12.27% to 16.55%).
- Increasing stock (from 8.77% to 12.16%).
- Increasing investments to unit trust (from 1.22% to 1.76%).

According to the results in 2016 and 2017 (preliminary results), this change in returns of pension funds was not shown.

Owners of these eight pension companies are mostly foreign companies. Profits of the pension companies are often transferred to their parent companies. For example, profits of all pension funds offered by KB Penzijní společnost were very low in 2016. However, the company KB Penzijní společnost reached the high level of profit (234,4 mil. CZK) in 2016. The similar situation was at Allianz penzijní společnost. This company reached total profit 744,988 million CZK in 2016.

Both named pension companies are subsidiary companies of foreign parent companies. This activity leads to redistribution of incomes between poor and rich people. Pension funds are buying government bonds of the Czech Republic, see Table 7.

Table 7 Government bonds according to the holder (on 30 November 2017)

	Holder	CZK	in%
11000	Non-financial companies	13 790 710 030	0.86
12000	Financial companies	732 271 590 000	45.76
12200	An institution receiving deposits except for the central bank	341 882 080 000	21.37
12203	A foreign institution receiving deposits except for the central bank	311 514 820 000	19.47
12800	Insurance companies	122 675 320 000	7.67
12803	Foreign insurance companies	121 797 510 000	7.61
12900	Pension funds	228 190 490 000	14.26
12903	Foreign pension funds	228 151 240 000	14.26
13000	Agency of government	34 228 787 180	2.14
14000	Households	29 582 079 479	1.85
15000	Non-profit institutions	1 478 182 340	0.09
20000	Non-residents	586 376 784 847	36.65
	Total government bonds	1 600 116 483 876	100
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12903	Foreign pension funds	228 151 240 000	14.26
13000	Agency of government	34 228 787 180	2.14
14000	Households	29 582 079 479	1.85
15000	Non-profit institutions	1 478 182 340	0.09
20000	Non-residents	586 376 784 847	36.65
	Total government bonds	1 600 116 483 876	100

Source: Bonds according to the holder. Ministry of Finance.

Table 7 shows that financial companies (especially foreign banks and foreign pension companies) are the main holders of bonds. The second group creates non-residents. These subjects gain profits from holding the bonds. By contrast, every

citizen has to pay interests connected with bonds through increasing state incomes (that means taxes).

4 Conclusions

State prefer only pension insurance at the pension companies. The other possibilities of insurance for old-age are not supported with state contributions. The number of pension companies shows that the number is enough for creating of competition and enough for the stability of every company on the market. Pension companies gain money by the participants of pension insurance and money, which the state send to participants of pension insurance for increasing of your motivation to save. Pension companies can increase their profit through the money from the state. State contributions per pension are still increasing and create more than 6,8 milliard CZK per a year. According to the analysis of pension companies, the most part of these is owned by foreign owners and returns are transferred to the foreign countries. Pension companies invest especially in the bonds that contribute to redistribution incomes in the society. The pension companies have these advantages in comparison with companies doing different business:

- Pension companies can buy some bonds or stock, which are offered, only in big volume. Foreign capital increases the profit of own capital. That is the principle of the financial arm.
- More money allows negotiating better conditions of contracts or investments for pension companies.
- Pension companies receive money by participants of pension insurance and state regularly once per month. Pension companies do not often have embarrassments with gaining the payments in comparison with the companies doing different business.
- Participants in pension insurance close the contract for a long period. Table
 2 shows that the number of pension insurance is still high, it is possible to
 deduce that contracts are not often canceled.
- The state determines the level of state contributions for pension insurance and level of the fee for administration money in pension funds. Increasing of administration fee and decreasing rewards for returns of pension funds can be the reason for low motivation for increasing of profit of pension funds.

All these comments show that pension companies should have a high level of financial stability and profitability. The most participants choose the conservative type of pension funds. Returns of this pension funds are low for this reason. It

is a question if the monies will be enough for paying pensions in the future and balanced with current expenditures.

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