



The European Federation of Investors and Financial Services Users  
Fédération Européenne des Épargnants et Usagers des Services Financiers

The background is a stylized illustration. The top half shows a dark, stormy sky with heavy rain falling diagonally from the left. A bright yellow lightning bolt strikes down from the center. Below the clouds, a sunburst of yellow rays emanates from the right side. The landscape is composed of rolling hills in shades of green and yellow. A winding path leads from the bottom towards the sunburst. In the foreground, two elderly people are walking away from the viewer on the path. The person on the left is wearing a light blue jacket and grey trousers, carrying a black bag. The person on the right is wearing a brown jacket and blue trousers, also carrying a black bag. They are holding a large red umbrella together. The overall mood is one of hope and resilience despite a difficult environment.

## Long-Term and Pension Savings | The Real Return

2021 Edition



# Pension Savings: The Real Return

## 2021 Edition

A Research Report by BETTER FINANCE

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## Acronyms

AIF	Alternative Investment Fund
AMC	Annual Management Charges
AuM	Assets under Management
BE	Belgium
BG	Bulgaria
Bln	Billion
BPETR	'Barclay's Pan-European High Yield Total Return' Index
CAC 40	'Cotation Assistée en Continu 40' Index
CMU	Capital Markets Union
DAX 30	'Deutsche Aktieindex 30' Index
DB	Defined Benefit plan
DC	Defined Contribution plan
DE	Germany
DG	Directorate General of the Commission of the European Union
DK	Denmark
DWP	United Kingdom's Governmental Agency Department for Work and Pensions
EBA	European Banking Authority
EE	Estonia
EEE	Exempt-Exempt-Exempt Regime
EET	Exempt-Exempt-Tax Regime
ETF	Exchange-Traded Fund
EIOPA	European Insurance and Occupational Pensions Authority
ES	Spain
ESAs	European Supervisory Authorities
ESMA	European Securities and Markets Authority
EU	European Union
EURIBOR	Euro InterBank Offered Rate
EX	Executive Summary
FR	France
FSMA	Financial Services and Market Authority (Belgium)
FSUG	Financial Services Users Group - European Commission's Expert Group
FTSE 100	The Financial Times Stock Exchange 100 Index
FW	Foreword
GDP	Gross Domestic Product
HICP	Harmonised Indices of Consumer Prices



IBEX 35	Índice Bursátil Español 35 Index
IKZE	‘Indywidualne konto zabezpieczenia emerytalnego’ – Polish specific Individual pension savings account
IRA	United States specific Individual Retirement Account
IT	Italy
JPM	J&P Morgan Indices
KIID	Key Investor Information Document
LV	Latvia
NAV	Net Asset Value
Mln	Million
MSCI	Morgan Stanley Capital International Indices
NL	Netherlands
OECD	The Organisation for Economic Co-Operation and Development
OFT	United Kingdom’s Office for Fair Trading
PAYG	Pay-As-You-Go Principle
PIP	Italian specific ‘Individual Investment Plan’
PL	Poland
PRIIP(s)	Packaged Retail and Insurance-Based Investment Products
RO	Romania
S&P	Standard & Poor Indexes
SE	Sweden
SK	Slovakia
SME	Small and Medium-sized Enterprise
SPIVA	Standard & Poor Dow Jones’ Indices Research Report on Active Management performances
Scorecard	
TEE	Tax-Exempt-Exempt Regime
TCR/TER	Total Cost Ratio/ Total Expense Ratio
UCITS	Undertakings for the Collective Investment of Transferable Securities
UK	United Kingdom



## Glossary of terms

**Accrued benefits\*** – is the amount of accumulated pension benefits of a pension plan member on the basis of years of service.

**Accumulated assets\*** – is the total value of assets accumulated in a pension fund.

**Active member\*** – is a pension plan member who is making contributions (and/or on behalf of whom contributions are being made) and is accumulating assets.

**AIF(s)** – or Alternative Investment Funds are a form of collective investment funds under E.U. law that do not require authorization as a UCITS fund.<sup>1</sup>

**Annuity\*** – is a form of financial contract mostly sold by life insurance companies that guarantees a fixed or variable payment of income benefit (monthly, quarterly, half-yearly, or yearly) for the life of a person(s) (the annuitant) or for a specified period of time. It is different than a life insurance contract which provides income to the beneficiary after the death of the insured. An annuity may be bought through instalments or as a single lump sum. Benefits may start immediately or at a pre-defined time in the future or at a specific age.

**Annuity rate\*** – is the present value of a series of payments of unit value per period payable to an individual that is calculated based on factors such as the mortality of the annuitant and the possible investment returns.

**Asset allocation\*** – is the act of investing the pension fund's assets following its investment strategy.

**Asset management\*** – is the act of investing the pension fund's assets following its investment strategy.

**Asset manager\*** – is(are) the individual(s) or entity(ies) endowed with the responsibility to physically invest the pension fund assets. Asset managers may also set out the investment strategy for a pension fund.

**Average earnings scheme\*** – is a scheme where the pension benefits earned for a year depend on how much the member's earnings were for the given year.

**Basic state pension\*** – is a non-earning related pension paid by the State to individuals with a minimum number of service years.

**Basis points (bps)** – represent the 100<sup>th</sup> division of 1%.

**Benchmark (financial)** – is a referential index for a type of security. Its aim is to show, customized for a level and geographic or sectorial focus, the general price or performance of the market for a financial instrument.

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<sup>1</sup> See Article 4(1) of Directive 2011/61/EU of the European Parliament and of the Council of 8 June 2011 on Alternative Investment Fund Managers and amending Directives 2003/41/EC and 2009/65/EC and Regulations (EC) No 1060/2009 and (EU) No 1095/2010, OJ L 174, 1.7.2011, p. 1–73.



**Beneficiary\*** – is an individual who is entitled to a benefit (including the plan member and dependants).

**Benefit\*** – is a payment made to a pension fund member (or dependants) after retirement.

**Bonds** – are instruments that recognize a debt. Although they deliver the same utility as bank loans, i.e., enabling the temporary transfer of capital from one person to another, with or without a price (interest) attached, bonds can also be issued by non-financial institutions (States, companies) and by financial non-banking institutions (asset management companies). In essence, bonds are considered more stable (the risk of default is lower) and in theory deliver a lower, but fixed, rate of profit. Nevertheless, Table EX2 of the Executive Summary shows that the aggregated European Bond Index highly overperformed the equity one.

**Closed pension funds\*** – are the funds that support only pension plans that are limited to certain employees. (e.g., those of an employer or group of employers).

**Collective investment schemes** – are financial products characterised by the pooling of funds (money or asset contributions) of investors and investing the total into different assets (securities) and managed by a common asset manager. Under E.U. law collective investment schemes are regulated under 6 different legal forms: UCITS (see below), the most common for individual investors; AIFs (see above), European Venture Capital funds (EuVECA), European Long-Term Investment Funds (ELTIFs), European Social Entrepreneurship Funds (ESEF) or Money Market Funds.<sup>2</sup>

**Contribution\*** – is a payment made to a pension plan by a plan sponsor or a plan member.

**Contribution base\*** – is the reference salary used to calculate the contribution.

**Contribution rate\*** – is the amount (typically expressed as a percentage of the contribution base) that is needed to be paid into the pension fund.

**Contributory pension scheme\*** – is a pension scheme where both the employer and the members have to pay into the scheme.

**Custodian\*** – is the entity responsible, as a minimum, for holding the pension fund assets and for ensuring their safekeeping.

**Deferred member\*** – is a pension plan member that no longer contributes to or accrues benefits from the plan but has not yet begun to receive retirement benefits from that plan.

**Deferred pension\*** – is a pension arrangement in which a portion of an employee's income is paid out at a date after which that income is actually earned.

**Defined benefit (DB) occupational pension plans\*** – are occupational plans other than defined contributions plans. DB plans generally can be classified into one of three main types, "traditional", "mixed" and "hybrid" plans. These are schemes where "the pension payment is defined as a percentage of income and employment career. The employee receives a thus pre-defined pension

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<sup>2</sup> See European Commission, 'Investment Funds' (28 August 2019) [https://ec.europa.eu/info/business-economy-euro/growth-and-investment/investment-funds\\_en](https://ec.europa.eu/info/business-economy-euro/growth-and-investment/investment-funds_en).



and does not bear the risk of longevity and the risk of investment. Defined Benefits schemes may be part of an individual employment contract or collective agreement. Pension contributions are usually paid by the employee and the employer”.<sup>3</sup>

**“Traditional” DB plan\*** – is a DB plan where benefits are linked through a formula to the members' wages or salaries, length of employment, or other factors.

**“Hybrid” DB plan\*** – is a DB plan where benefits depend on a rate of return credited to contributions, where this rate of return is either specified in the plan rules, independently of the actual return on any supporting assets (e.g. fixed, indexed to a market benchmark, tied to salary or profit growth, etc.), or is calculated with reference to the actual return of any supporting assets and a minimum return guarantee specified in the plan rules.

**“Mixed” DB plan\*** – is a DB plans that has two separate DB and DC components, but which are treated as part of the same plan.

**Defined contribution (DC) occupational pension plans\*** – are occupational pension plans under which the plan sponsor pays fixed contributions and has no legal or constructive obligation to pay further contributions to an ongoing plan in the event of unfavourable plan experience. These are schemes where “the pension payment depends on the level of defined pension contributions, the career and the returns on investments. The employee has to bear the risk of longevity and the risk of investment. Pension contributions can be paid by the employee and/or the employer and/or the state”.<sup>4</sup>

**Dependency ratio\*** – are occupational pension plans under which the plan sponsor pays fixed contributions and has no legal or constructive obligation to pay further contributions to an ongoing plan in the event of unfavourable plan experience.

**Early retirement\*** – is a situation when an individual decides to retire earlier later and draw the pension benefits earlier than their normal retirement age.

**Economic dependency ratio\*** – is the division between the number of inactive (dependent) population and the number of active (independent or contributing) population. It ranges from 0% to 100% and it indicates how much of the inactive population's (dependent) consumption is financed from the active population's (independent) contributions.<sup>5</sup> In general, the inactive (dependent) population is represented by children, retired persons and persons living on social benefits.

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<sup>3</sup> Werner Eichhorst, Maarten Gerard, Michael J. Kendzia, Christine Mayrhuber, Connie Nielsen, Gerhard Runstler, Thomas Url, 'Pension Systems in the EU: Contingent Liabilities and Assets in the Public and Private Sector' EP Directorate General for Internal Policies IP/A/ECON/ST/2010-26.

<sup>4</sup> Ibid.

<sup>5</sup> For more detail on the concept, see Elke Loichinger, Bernhard Hammer, Alexia Prskawetz, Michael Freiberger, Joze Sambt, 'Economic Dependency Ratios: Present Situation and Future Scenarios' MS13 Policy Paper on Implications of Population Ageing for Transfer Systems, Working Paper no. 74, 18<sup>th</sup> December 2014, 3.



**EET system\*** – is a form of taxation of pension plans, whereby contributions are exempt, investment income and capital gains of the pension fund are also exempt, and benefits are taxed from personal income taxation.

**Equity** (or stocks/shares) – are titles of participation to a publicly listed company's economic activity. With regards to other categorizations, an equity is also a security, a financial asset or, under E.U. law, a transferable security.<sup>6</sup>

**ETE system\*** – is a form of taxation whereby contributions are exempt, investment income and capital gains of the pension fund are taxed, and benefits are also exempt from personal income taxation.

**ETF(s)** – or Exchange-Traded Funds are investment funds that are sold and bought on the market as an individual security (such as shares, bonds). ETFs are structured financial products, containing a basket of underlying assets, and are increasingly more used due to the very low management fees that they entail.

**Fund member\*** – is an individual who is either an active (working or contributing, and hence actively accumulating assets) or passive (retired, and hence receiving benefits), or deferred (holding deferred benefits) participant in a pension plan.

**Funded pension plans\*** – are occupational or personal pension plans that accumulate dedicated assets to cover the plan's liabilities.

**Funding ratio (funding level) \*** – is the relative value of a scheme's assets and liabilities, usually expressed as a percentage figure.

**Gross rate of return\*** – is the rate of return of an asset or portfolio over a specified time period, prior to discounting any fees of commissions.

**Gross/net replacement rate** – is the ratio between the pre-retirement gross or net income and the amount of pension received by a person after retirement. The calculation methodology may differ from source to source as the average working life monthly gross or net income can be used to calculate it (divided by the amount of pension) or the past 5 year's average gross income etc. (see below **OECD net replacement rate**).

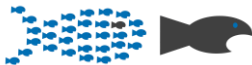
**Group pension funds\*** – are multi-employer pension funds that pool the assets of pension plans established for related employers.

**Hedging and hedge funds** – while hedging is a complex financial technique (most often using derivatives) to protect or reduce exposure to risky financial positions or to financial risks (for instance, currency hedging means reducing exposure to the volatility of a certain currency), a hedge fund is an investment pool that uses complex and varying investment techniques to generate profit.

**Indexation\*** – is the method with which pension benefits are adjusted to take into account changes in the cost of living (e.g., prices and/or earnings).

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<sup>6</sup> Article 4(44) of Directive 2014/65/EU of the European Parliament and of the Council of 15 May 2014 on markets in financial instruments and amending Directive 2002/92/EC and Directive 2011/61/EU, OJ L 173, p. 349–496 (MiFID II).



**Individual pension plans\*** – is a pension fund that comprises the assets of a single member and his/her beneficiaries, usually in the form of an individual account.

**Industry pension funds\*** – are funds that pool the assets of pension plans established for unrelated employers who are involved in the same trade or businesses.

**Mandatory contribution\*** – is the level of contribution the member (or an entity on behalf of the member) is required to pay according to scheme rules.

**Mandatory occupational plans\*** – Participation in these plans is mandatory for employers. Employers are obliged by law to participate in a pension plan. Employers must set up (and make contributions to) occupational pension plans which employees will normally be required to join. Where employers are obliged to offer an occupational pension plan, but the employees' membership is on a voluntary basis, these plans are also considered mandatory.

**Mandatory personal pension plans\*** – are personal plans that individuals must join, or which are eligible to receive mandatory pension contributions. Individuals may be required to make pension contributions to a pension plan of their choice normally within a certain range of choices or to a specific pension plan.

**Mathematical provisions (insurances)** – or *mathematical reserves* or *reserves*, are the value of liquid assets set aside by an insurance company that would be needed to cover all current liabilities (payment obligations), determined using actuarial principles.

**Minimum pension\*** – is the minimum level of pension benefits the plan pays out in all circumstances.

**Mixed indexation\*** – is the method with which pension benefits are adjusted taking into account changes in both wages and prices.

**Money market instruments** – are short-term financial products or positions (contracts) that are characterized by the very high liquidity rate, such as deposits, short-term loans, repo-agreements and so on.

**MTF** – multilateral trading facility, is the term used by the revised Markets in Financial Instruments Directive (MiFID II) to designate securities exchanges that are not a regulated market (such as the London Stock Exchange, for example).

**Multi-employer pension funds\*** – are funds that pool the assets of pension plans established by various plan sponsors. There are three types of multi-employer pension funds:

- a) for related employers i.e., companies that are financially connected or owned by a single holding group (group pension funds);
- b) for unrelated employers who are involved in the same trade or business (industry pension funds);
- c) for unrelated employers that may be in different trades or businesses (collective pension funds).



**Money-Weighted Returns (MWR)** - also referred to as the internal rate of return, is a measurement of performance that takes into account cash flows (contributions) when calculating returns.

**NAV** – Net Asset Value, or the amount to which the market capitalisation of a financial product (for this report, pension funds’ or insurance funds’ holdings) or a share/unit of it arises at a given point. In general, the Net Asset Value is calculated per unit or share of a collective investment scheme using the daily closing market prices for each type of security in the portfolio.

**Net rate of return\*** – is the rate of return of an asset or portfolio over a specified time period, after discounting any fees of commissions.

**Normal retirement age\*** – is the age from which the individual is eligible for pension benefits.

**Non-contributory pension scheme\*** – is a pension scheme where the members do not have to pay into scheme.

**Occupational pension plans\*** – access to such plans is linked to an employment or professional relationship between the plan member and the entity that establishes the plan (the plan sponsor). Occupational plans may be established by employers or groups of thereof (e.g., industry associations) and labour or professional associations, jointly or separately. The plan may be administrated directly by the plan sponsor or by an independent entity (a pension fund or a financial institution acting as pension provider). In the latter case, the plan sponsor may still have oversight responsibilities over the operation of the plan.

**Eurostat aggregate replacement rate for pensions** refers to median individual pension income of population aged 65-74 relative to median individual earnings from work of population aged 50-59, excluding other social benefits.

**Old-age dependency ratio** - defined as the ratio between the total number of elderly persons when they are generally economically inactive (aged 65 and above) and the number of persons of working age.<sup>7</sup> It is a sub-indicator of the economic dependency ratio and focuses on a country’s public (state) pension system’s reliance on the economically active population’s pensions (or social security) contributions. It is a useful indicator to show whether a public (Pillar I) pension scheme is under pressure (when the ratio is high, or the number of retirees and the number of workers tend to be proportionate) or relaxed (when the ratio is low, or the number of retirees and the number of workers tend to be disproportionate). For example, a low old-age dependency ratio is 20%, meaning that 5 working people contribute for one retiree’s pension.

**Open pension funds\*** – are funds that support at least one plan with no restriction on membership.

**Pension assets\*** – are all forms of investment with a value associated to a pension plan.

**Pension fund administrator\*** – is(are) the individual(s) ultimately responsible for the operation and oversight of the pension fund.

**Pension fund governance\*** – is the operation and oversight of a pension fund. The governing body is responsible for administration, but may employ other specialists, such as actuaries, custodians,

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<sup>7</sup> See Eurostat definition: <http://ec.europa.eu/eurostat/web/products-datasets/product?code=tsdde511>.



consultants, asset managers and advisers to carry out specific operational tasks or to advise the plan administration or governing body.

**Pension fund managing company\*** – is a type of administrator in the form of a company whose exclusive activity is the administration of pension funds.

**Pension funds\*** – the pool of assets forming an independent legal entity that are bought with the contributions to a pension plan for the exclusive purpose of financing pension plan benefits. The plan/fund members have a legal or beneficial right or some other contractual claim against the assets of the pension fund. Pension funds take the form of either a special purpose entity with legal personality (such as a trust, foundation, or corporate entity) or a legally separated fund without legal personality managed by a dedicated provider (pension fund management company) or other financial institution on behalf of the plan/fund members.

**Pension insurance contracts\*** – are insurance contracts that specify pension plans contributions to an insurance undertaking in exchange for which the pension plan benefits will be paid when the members reach a specified retirement age or on earlier exit of members from the plan. Most countries limit the integration of pension plans only into pension funds, as the financial vehicle of the pension plan. Other countries also consider the pension insurance contract as the financial vehicle for pension plans.

**Pension plan\*** – is a legally binding contract having an explicit retirement objective (or – in order to satisfy tax-related conditions or contract provisions – the benefits cannot be paid at all or without a significant penalty unless the beneficiary is older than a legally defined retirement age). This contract may be part of a broader employment contract, it may be set forth in the plan rules or documents, or it may be required by law. In addition to having an explicit retirement objective, pension plans may offer additional benefits, such as disability, sickness, and survivors' benefits.

**Pension plan sponsor\*** – is an institution (e.g., company, industry/employment association) that designs, negotiates, and normally helps to administer an occupational pension plan for its employees or members.

**Pension regulator\*** – is a governmental authority with competence over the regulation of pension systems.

**Pension supervisor\*** – is a governmental authority with competence over the supervision of pension systems.

**Personal pension plans\*** - Access to these plans does not have to be linked to an employment relationship. The plans are established and administered directly by a pension fund or a financial institution acting as pension provider without any intervention of employers. Individuals independently purchase and select material aspects of the arrangements. The employer may nonetheless make contributions to personal pension plans. Some personal plans may have restricted membership.

**Private pension funds\*** – is a pension fund that is regulated under private sector law.



**Private pension plans\*** – is a pension plan administered by an institution other than general government. Private pension plans may be administered directly by a private sector employer acting as the plan sponsor, a private pension fund or a private sector provider. Private pension plans may complement or substitute for public pension plans. In some countries, these may include plans for public sector workers.

**Public pension plans\*** – are pensions funds that are regulated under public sector law.

**Public pension plans\*** – are the social security and similar statutory programmes administered by the general government (that is central, state, and local governments, as well as other public sector bodies such as social security institutions). Public pension plans have been traditionally PAYG financed, but some OECD countries have partial funding of public pension liabilities or have replaced these plans by private pension plans.

**Rate of return\*** – is the income earned by holding an asset over a specified period.

**REIT(s)** or Real Estate Investment Trust(s) is the most common acronym and terminology used to designate special purpose investment vehicles (in short, companies) set up to invest and commercialise immovable goods (real estate) or derived assets. Although the term comes from the U.S. legislation, in the E.U. there are many forms of REITs, depending on the country since the REIT regime is not harmonised at E.U. level.

**Replacement ratio\*** – is the ratio of an individual's (or a given population's) (average) pension in a given time period and the (average) income in a given time period.

**Service period\*** – is the length of time an individual has earned rights to a pension benefit.

**Single employer pension funds\*** – are funds that pool the assets of pension plans established by a single sponsor.

**Summary Risk Reward Indicator** - a measurement developed by the European Securities and Markets Authority (former CESR) to be included in the Key Investor Information Document (KIID) for UCITS (undertakings for collective investment in transferable securities) to reflect the risk profile of a certain fund.

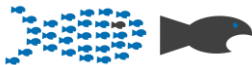
**Supervisory board\*** – is(are) the individual(s) responsible for monitoring the governing body of a pension entity.

**System dependency ratio\*** – typically defined as the ratio of those receiving pension benefits to those accruing pension rights.

**TEE system\*** – is a form of taxation of pension plans whereby contributions are taxed, investment income and capital gains of the pension fund are exempt, and benefits are also exempt from personal income taxation.

**Time-Weighted Returns (TWR)** - is the standard method of calculating returns (and performance) of an investment and simply represents the growth/decrease in value without incorporating the distorting effects of cash inflows and outflows (for pensions, that means contributions and

**Trust\*** – is a legal scheme, whereby named people (termed trustees) hold property on behalf of other people (termed beneficiaries).



**Trustee\*** – is a legal scheme, whereby named people (termed trustees) hold property on behalf of other people (termed beneficiaries).

**UCITS** – or Undertakings for Collective Investment in Transferable Securities, is the legal form under E.U. law for mutual investment funds that are open to pool and invest funds from any individual or institutional investor, and are subject to specific authorisation criteria, investment limits and rules. The advantage of UCITS is the general principle of home-state authorisation and mutual recognition that applies to this kind of financial products, meaning that a UCITS fund established and authorised in one E.U. Member State can be freely distributed in any other Member State without any further formalities (also called *E.U. fund passporting*).

**Unfunded pension plans\*** – are plans that are financed directly from contributions from the plan sponsor or provider and/or the plan participant. Unfunded pension plans are said to be paid on a current disbursement method (also known as the pay as you go, PAYG, method). Unfunded plans may still have associated reserves to cover immediate expenses or smooth contributions within given time periods. Most OECD countries do not allow unfunded private pension plans.

**Unprotected pension plan\*** – is a plan (personal pension plan or occupational defined contribution pension plan) where the pension plan/fund itself or the pension provider does not offer any investment return or benefit guarantees or promises covering the whole plan/fund.

**Voluntary contribution** – is an extra contribution paid in addition to the mandatory contribution a member can pay to the pension fund in order to increase the future pension benefits.

**Voluntary occupational pension plans** - The establishment of these plans is voluntary for employers (including those in which there is automatic enrolment as part of an employment contract or where the law requires employees to join plans set up on a voluntary basis by their employers). In some countries, employers can on a voluntary basis establish occupational plans that provide benefits that replace at least partly those of the social security system. These plans are classified as voluntary, even though employers must continue sponsoring these plans in order to be exempted (at least partly) from social security contributions.

**Voluntary personal pension plans\*** – Participation in these plans is voluntary for individuals. By law individuals are not obliged to participate in a pension plan. They are not required to make pension contributions to a pension plan. Voluntary personal plans include those plans that individuals must join if they choose to replace part of their social security benefits with those from personal pension plans.

**Wage indexation\*** – is the method with which pension benefits are adjusted taking into account changes in wages.

**Waiting period\*** – is the length of time an individual must be employed by a particular employer before joining the employer's pension scheme.

**Winding-up\*** – is the termination of a pension scheme by either providing (deferred) annuities for all members or by moving all its assets and liabilities into another scheme.



**World Bank multi-pillar model** – is the recommended design, developed by the World Bank in 1994, for States that had pension systems inadequately equipped to (currently and forthcoming) sustain a post-retirement income stream for future pensioners and alleviate the old-age poverty risk. Simpler, it is a set of guidelines for States to either enact, reform or gather legislation regulating the state pension and other forms of retirement provisions in a form that would allow an increased workers' participation, enhance efficiency for pension savings products and a better allocation of resources under the principle of solidarity between generations.

The standard design of a robust pension system would rely on five pillars:

- a) the non-contributory scheme (pillar 0), through which persons who do not have an income or do not earn enough would have insured a minimum pension when reaching the standard retirement age;
- b) the public mandatory, Pay-As-You-Go (PAYG) scheme (**Pillar I**), gathering and redistributing pension contributions from the working population to the retirees, while accumulating pension rights (entitlements) for the future retirees;
- c) the mandatory funded and (recommended) privately managed scheme (**Pillar II**), where workers' contributions are directed to their own accumulation accounts in privately managed investment products;
- d) the voluntary privately managed retirement products (**Pillar III**), composed of pension savings products to which subscription is universal, contributions and investments are deregulated and tax-incentivised;
- e) the non-financial alternative aid scheme (pillar IV), through which the state can offer different forms of retirement support – such as housing or family support. Albeit the abovementioned, the report focuses on the “*main pillars*”, i.e., Pillar I, II and III, since they are the most significant (and present everywhere) in the countries that have adopted the multi-pillar model.

Definitions with “\*” are taken from OECD’s Pensions Glossary - <http://www.oecd.org/daf/fin/private-pensions/38356329.pdf>.



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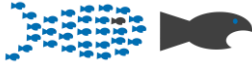
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# Pension Savings: The Real Return

2021 Edition

## *Executive Summary*

*With the two of three worst financial meltdowns of the past hundred years occurring in the past 12 years, can our societies rely on financial markets to deliver decent retirement outcomes for millions around the world?"<sup>8</sup>*

**Despite improvements, real returns of pension savings still struggle to deliver value for money**

### ***How much did pension savers earn on average?***

The main question this report seeks to answer is: How much was the pension saver left with, on average, after charges and inflation were deducted from his benefits at the end of different periods, compared to the amounts he saved? The aggregate summary return tables show – for occupational/collective (“Pillar II”) and voluntary/individual (“Pillar III”) pension products - the annual average rate of return on investments in each country based on 5 periods: 1, 3, 7, 10 years and since the start of the available reporting period (differs case by case). These standardised periods eliminate inception and market timing biases, allowing to “purely” compare performances between different pension schemes.

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<sup>8</sup> Amin Rajan (Crate Research), ‘Coronavirus Crisis Inflicts a Double Blow to Pensions’ (FT.com, 15 April 2020) available at: <https://www.ft.com/content/bd878891-4f20-46c3-ab23-939162a85d9c>.



Aggregate summary return table			Pillar II						
	1 year		3 years		7 years		10 years		max. available *
	2020	2019	2018-2020	2017-2019	2014-2020	2013-2019	2011-2020	2010-2019	
Austria	1,41%*	8,01%	1,23%	1,78%	2,35%	2,53%	1,79%	2,01%	1,48%
Belgium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Bulgaria	1,41%	2,71%	-1,06%	-0,24%	2,06%	2,59%	1,96%	1,74%	-1,35%
Croatia	-0,29%	8,06%	2,81%	4,68%	4,99%	5,77%	4,10%	4,91%	3,28%
Denmark	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Estonia	4,64%	7,97%	2,10%	0,57%	2,13%	1,65%	1,31%	1,24%	0,67%
France	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Germany	n.a.	3,02%	n.a.	1,77%	n.a.	2,54%	n.a.	2,40%	2,28%
Italy	3,30%	7,30%	1,85%	1,76%	2,81%	3,33%	2,66%	2,57%	0,84%
Latvia	1,94%	8,43%	1,12%	0,77%	1,54%	1,62%	1,45%	1,83%	-0,07%
Lithuania	5,19%	14,92%	4,72%	3,04%	4,07%	4,15%	3,52%	3,65%	1,72%
Netherlands	6,23%	13,00%	5,01%	4,26%	5,79%	5,10%	5,26%	5,42%	2,89%
Poland	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Romania	2,59%	5,05%	1,81%	0,61%	2,68%	3,64%	2,95%	3,33%	2,41%
Slovakia	0,45%	5,37%	0,70%	-0,27%	1,50%	1,57%	0,79%	0,74%	-0,03%
Spain	2,10%	7,89%	1,74%	2,14%	2,80%	4,28%	2,94%	2,60%	0,79%
Sweden	6,45%	24,08%	8,23%	9,03%	n.a.	n.a.	n.a.	n.a.	8,32%
UK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

Source: BETTER FINANCE own composition; see methodological explanation box below

Voluntary pension products vary in market share based on the jurisdiction: in some cases, insurance-based products are more prevalent, whereas in some countries pension funds are preferred. The table below shows the average real net returns for supplementary pensions by standardised holding periods.

- Data for 2020 is estimated. So are the previous 2019 figures, which are now consolidated.
- Returns for Bulgaria are time-weighted, and the dataflow is updated compared to the last edition.
- In Germany AOPP is used as a proxy for pillar II returns.
- For Romania, returns are calculated in EUR and differ from previous editions. See Romanian country case explanations.
- For Spain, pillar II returns have been recalculated based on the weighted average between employer-sponsored and associate plans.



Aggregate summary return table			Pillar III						
	1 year		3 years		7 years		10 years		whole reporting period*
	2020	2019	2018-2020	2017-2019	2014-2020	2013-2019	2011-2020	2010-2019	
Austria	1.82%*	1,2%	1,34%	1,01%	1,70%	1,73%	1,50%	1,51%	2,05%
Belgium	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Bulgaria	1,91%	3%	-0,92%	0,08%	2,57%	3,28%	2,65%	2,48%	0,17%
Croatia	-1,41%	8,57%	2,13%	3,58%	4,57%	5,07%	3,75%	4,58%	3,59%
Denmark	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Estonia	4,51%	13,84%	2,37%	1,64%	3,19%	3,03%	2,04%	2,45%	1,54%
France*	1,30%	2,83%	0,44%	0,46%	1,23%	3,55%	1,23%	2,81%	1,36%
Germany*	2,68%	0,67%	1,30%	0,68%	1,62%	1,53%	1,64%	1,58%	1,51%
Italy	0,03%	6,40%	1,18%	1,22%	2,58%	2,84%	2,49%	1,99%	1,85%
Latvia	2,14%	8,66%	0,82%	0,59%	1,75%	1,94%	1,58%	n.a.	1,58%
Lithuania	4,83%	8,72%	2,29%	1,22%	2,85%	2,93%	1,98%	2,48%	1,05%
Netherlands	1,83%	0,40%	1,39%	1,40%	1,14%	0,97%	0,27%	-0,08%	0,13%
Poland	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Romania	0,99%	3,99%	0,35%	-0,41%	1,53%	2,69%	1,91%	2,06%	-0,85%
Slovakia	1,30%	5,68%	0,00%	0,22%	1,00%	0,98%	0,44%	0,37%	0,60%
Spain	0,80%	8,11%	0,86%	1,24%	1,83%	3,25%	2,00%	2,15%	0,32%
Sweden	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
UK	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.

*Source: BETTER FINANCE own composition; \*whole reporting period differs between countries; for DE, pillar III can be proxied through both Riester and Rurup pensions, the authors chose Riester for the purposes of this graph (Acquisition charges are included and spread over 5 years); for BG, VPF is proxied for pillar III returns and the returns are time-weighted; for FR, pillar III comprises life insurance, corporate savings plans, public employee pension schemes; for AT, the returns for 2020 are estimated, so were the 2019 figures which are now consolidated;*

Unfortunately, due to unavailability of data breakdowns, for some country cases (UK, Netherlands, Belgium, Denmark, Poland, Sweden) we were not able to calculate the annual real average returns by Pillar. Nevertheless, the results by retirement provision vehicle are available in Graphs 18 and Table 20 in the *General Report*.

*Note: For a few pension systems analysed in the report, the data available on retirement provision vehicles clearly distinguishes between Pillar II and Pillar III (such as Romania or Slovakia). In other countries, where pension savings products may be used for both Pillars, the categorisation is more difficult since return data is not separated as such. However, for reasons of simplicity and comparability, the authors of the report have put in all the necessary efforts to correctly assign each product according to the pillar it is, or should be, used for.*



## Taxation

### ***What happens to investment returns after charges and inflation are deducted?***

Charges, investment strategies and inflation influence earnings, but the actual sum the pension saver will be able to withdraw and spend at retirement will depend on the taxation regime. In other words, when and how much do savers lose of their pensions due to taxes?

The actual taxation rates (in %) are highlighted in Table GR10 and in the *Taxes* sub-section of each individual country case. However, the purpose of the “pillar”-system is to stimulate pension savings by giving tax incentives (exemptions, lower taxes, deductibility, subsidises etc).

The table below shows whether the three pension saving steps (contribution – *what you pay for your pension*; returns – *what your investments earn*; and pay-outs – *what you will withdraw*) are **exempt (E)** or **taxed (T)** in each country under review.

Taxation of pension savings						
	Contributions		Returns		Pay-outs	
	Pillar II	Pillar III	Pillar II	Pillar III	Pillar II	Pillar III
Austria	E	E	E	E	T	T
Belgium	E	E	E	E	T	T
Bulgaria	E	E	E	E	E	E
Croatia	E	E	E	E	T	T
Denmark*	T	T	T	T	T	T
Estonia	E	E	E	E	T	T
France	E	E/T	T	T	T	T
Germany	T	T	E	T	T	T
Italy	E	E	T	T	T	T
Latvia	E	E	E	E	T	T
Lithuania	E	E	E	E	E	E
Netherlands	E	E	E	E	T	T
Poland	T	E/T	E	E	E	E/T
Romania	E	E	E	E	T	T
Slovakia*	E/T	E	E	E	E	T
Spain*	E	E	E	E	T	T
Sweden	E	E	T	T	T	T
UK	E	E	E	E	T	T

\*There are rules and exceptions based on the type of pension vehicle. For details, see the relevant country case; Source: BETTER FINANCE own composition

## Pension plan types: defined contribution on top

### ***Who bears the risk of adequate pensions at retirement?***

Originally, the level of pension (*benefit*) would be pre-defined by the provider of the pension plan, usually based on a formula that used some standard variables for each saver (income/salary,



inflation, etc). As such, the pension plan provider bears the risk of obtaining the necessary resources (money) to pay out this **defined benefit** pension to the saver at retirement age.

Nowadays, most private pension plans (Pillar II and III) use a **defined contribution** rule. This means that the saver only knows how much he can pay for his future pension, but the actual amount and income level at retirement will depend on external factors and will be subject to capital market fluctuations, just as any other investment. In other words, the risk of obtaining an adequate pension at retirement depends on the investment decisions made by the saver, where the provider is only obliged to pay-out the **real net returns**, before tax, earned during the investment period.

Pension scheme type ( <i>who bears the risk?</i> )				
	Provider (defined benefit)		Saver (defined contribution)	
	Pillar II	Pillar III	Pillar II	Pillar III
Austria	X		X	X
Belgium	X	X	X	X
Bulgaria			X	X
Croatia	X			X
Denmark	X	X	X	X
Estonia			X	X
France	X		X	X
Germany	X		X	X
Italy			X	X
Latvia			X	X
Lithuania			X	X
Netherlands	X		X	X
Poland			X	X
Romania			X	X
Slovakia			X	X
Spain	X		X	X
Sweden	X		X	X
UK	X		X	X

Source: BETTER FINANCE own composition

For more details on how this information unfolds, what factors influence pension savings and how governments tax pension earnings, read the following chapter or the individual country case corresponding to your domicile.



# Pension Savings: The Real Return

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## *EU Policy Updates*

The High-Level Forum on the Future of the Capital Markets Union<sup>9</sup> made three important recommendations<sup>10</sup> for the European Commission to pursue in the area of pensions, to which BETTER FINANCE contributed and fully supported:

- establishing ***national pension dashboards***, which are systems of indicators for EU Member States “to monitor the state of play in Member States and, where applicable, the progress achieved by Member States with regard to pension sustainability and pension adequacy”;
- establishing ***individual pension tracking systems***, which would be platforms where EU citizens can see all their pensions data (State pension and private pension vehicles) with the purpose of providing “an overview and an estimate of the future retirement income from different sources”;
- supporting EU Member States in establishing ***auto-enrolment in occupational pension schemes***, which would mean that workers would by default contribute to a pension plan, with the possibility to opt-out (stop contributions) at no cost.

The European Commission (EC) and European Insurance and Occupational Pensions Authority (EIOPA) followed-up on these proposals and have started work towards their implementation. The EC formally initiated the process by mandating EIOPA to gather evidence, data, and technical recommendations on the first two actions while also commissioning a study from a consortium of consultants on best practices in auto-enrolment systems. Consequently, EIOPA published two public consultations requesting:

- [technical advice on the development of pension dashboards and the collection of pensions data](#), which is meant to gather input from stakeholders on where and how to aggregate the necessary information – and what indicators to use – to set up and update the pension dashboards;
- [technical advice on pension tracking services](#), which is meant to collect views from stakeholders on what types of investment products will be aggregated in the tracking service, what and how the estimations of the retirement pot will be made, etc.

BETTER FINANCE, together with the experts that collaborate with the writing of this report, will leverage the long-term experience accumulated through the efforts of publishing this report since 2013 and will provide EIOPA with technical advice on both topics.

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<sup>9</sup> A group of experts from EU public authorities, industry, and consumer associations established by the European Commission between November 2019 and May 2020 to brainstorm and make recommendations to improve the regulation and supervision of EU capital markets and create better conditions to invest for EU citizens; see [https://ec.europa.eu/info/publications/cmu-high-level-forum\\_en](https://ec.europa.eu/info/publications/cmu-high-level-forum_en).

<sup>10</sup> See the Final Report here:

[https://ec.europa.eu/info/sites/default/files/business\\_economy\\_euro/growth\\_and\\_investment/documents/200610-cmu-high-level-forum-final-report\\_en.pdf](https://ec.europa.eu/info/sites/default/files/business_economy_euro/growth_and_investment/documents/200610-cmu-high-level-forum-final-report_en.pdf), Recommendation 11, page 85.



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## *Value for Money for Long-term and Pension Savings*

For too many editions in a row (since 2013), BETTER FINANCE's annual report on the real returns of long-term and pension savings finds, in many EU jurisdictions, poorly performing retirement saving vehicles (whether pension funds, products, or life-insurances used for pension provision) once fees and inflation are deducted. With a few notable exceptions, such as occupational pension funds in the Netherlands or the AP7 Safa fund in Sweden, the majority of products barely cover for inflation and only a handful come close to a simple, broad capital markets benchmark (50% equity and 50% bonds). Unfortunately, there is also a share – quite high – of products that deliver negative returns, which means that, in hindsight, keeping savings “under the mattress” would have been a more profitable solution.

Considering the impact on economic output generated by the global health pandemic, the strains on public pension systems, the current low interest rate environment, and the shift from defined-benefit to defined-contribution pensions, addressing the pensions time-bomb is long overdue.<sup>11</sup>

While there is no silver bullet to rectify poor pension returns, BETTER FINANCE formulates a set of proposals to define *value for money* for retirement provision investments.

BETTER FINANCE already initiated the debate on *value for money* for retail investment products in November 2019, when it released the joint BETTER FINANCE-CFA Institute report on *Sustainable Value for Money*.<sup>12</sup> The report, gathering the views of investment professionals and retail investors, found, among others, that the duty of care (*to act in the best interests of clients*) should be mandatory for finance professionals and that consumers should be presented with simple and standardised information on cost and past performance.

Moreover, an earlier (2016) report by the CFA Institute found that retail investors have high expectations for finance professionals to generate similar or better returns than those of the benchmark, and that the charges and fees paid must reflect the value of the relationship, but with a level of satisfaction much lower in both regards.<sup>13</sup>

In 2021, the European Insurance and Occupational Pensions Authority (EIOPA) launched a public consultation aimed at gathering stakeholders' views on the proposed framework to assess value for

<sup>11</sup> See BETTER FINANCE's Press Release of 29 November 2017 “BETTER FINANCE Applauds EU Proposal for a Pan-European Personal Pension (PEPP) to Defuse the Ticking Pensions Time Bomb”, available at: [https://betterfinance.eu/wp-content/uploads/publications/PR-PEPP\\_INITIATIVE\\_19072017\\_01.pdf](https://betterfinance.eu/wp-content/uploads/publications/PR-PEPP_INITIATIVE_19072017_01.pdf).

<sup>12</sup> BETTER FINANCE-CFA Institute Report, *Sustainable Value for Money* (2019), p. 6, available at: [https://betterfinance.eu/wp-content/uploads/BETTER-FINANCE-CFA-Institute-Report-on-SUSTAINABLE-VALUE-FOR-MONEY-201119\\_correct.pdf](https://betterfinance.eu/wp-content/uploads/BETTER-FINANCE-CFA-Institute-Report-on-SUSTAINABLE-VALUE-FOR-MONEY-201119_correct.pdf).

<sup>13</sup> CFA Institute, *From Trust to Loyalty: A Global Survey of What Investors Want*, (2016), p. 14., available at: <https://www.cfainstitute.org/-/media/documents/survey/from-trust-to-loyalty.ashx>.



money for unit-linked insurance-based investment products.<sup>14</sup> According to EIOPA, value for money would mean that *“the costs and charges are proportionate to the benefits (i.e., investment performance, guarantees, coverage and services) to the identified target market and reasonable taking into account the expenses born by providers and in comparison to other comparable retail solutions on the market”*.<sup>15</sup> EIOPA’s definition sets a very important milestone as it builds the concept of value for money (VfM) around cost and performance but, very important, not in a vacuum: what retail investors pay for their investments must be comparably better compensated through returns and other product features than other options on the market. On this occasion, BETTER FINANCE put forward several proposals to improve on EIOPA’s definition, namely:

- while comparability with *“other solutions on the market”* is a step in the right direction, in many cases the entire peer-group of a product may be poorly performing – as is already the case – which may still leave investors with undesirable outcomes; thus, BETTER FINANCE proposed to replace *“other solutions on the market”* with the market index benchmark, i.e., the underlying investments;
- a product’s purpose (objective and investment policy) must be aligned with the concept of value for money;
- the products’ costs must be reviewed regularly.

At the same time, inspiration can also be drawn from the practice of the UK Financial Conduct Authority (FCA), which spearheaded (and continues to) retail investor protection in Europe. To begin with, the UK was the first country in Europe to ban commissions, kickbacks, retrocessions (collectively, *“inducements”*) for retail investment services and products. Besides creating a conflict of interests, inducements also increase the cost of investing, which further erodes net returns.<sup>16</sup>

Second, the UK FCA issued a handbook (guidance) for fund managers on how to evaluate and report to clients the value their investment services deliver for the money they are paid. The guidance highlights that fund managers should assess the value of services in light of costs (in general and comparing classes of units), comparable market rates, the quality of the service (also in comparison

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<sup>14</sup> The framework takes the form of a supervisory convergence mechanism under the tools of EIOPA and it would be ultimately addressed to national insurance supervisors when evaluation the provision of insurance-based investment products to retail investors.

<sup>15</sup> See the EIOPA Consultation Paper on Addressing Value for Money risk in the European unit-linked market, available at: [https://www.eiopa.europa.eu/document-library/consultation/consultation-framework-address-value-money-risk-european-unit-linked\\_en](https://www.eiopa.europa.eu/document-library/consultation/consultation-framework-address-value-money-risk-european-unit-linked_en).

<sup>16</sup> See the BETTER FINANCE Report on the Correlation between Cost and Performance in eu Equity Retail Funds, where we analysed active funds' ability to outperform the market and the impact of fees on mutual fund performance, finding that *“the more you pay, the less you get”* - <https://betterfinance.eu/wp-content/uploads/BETTER1.pdf>. See also the ESMA Annual Statistical Report Cost and Performance (latest the 2021 edition), highlighting that passive equity funds and UCITS ETFs (which are much cheaper) overperform the more expensive actively managed ones – [https://www.esma.europa.eu/sites/default/files/library/esma\\_50-165-1710\\_asr\\_performance\\_and\\_costs\\_of\\_eu\\_retail\\_investment\\_products.pdf](https://www.esma.europa.eu/sites/default/files/library/esma_50-165-1710_asr_performance_and_costs_of_eu_retail_investment_products.pdf); see also the ESMA Annual Statistical Report on Cost and Performance of 2020, highlighting that more expensive, actively managed funds impact returns and underperform not only their passive and index-tracking peers, but also the benchmark - to passive and ETFs UCITS, ultimately impacting performance" - [https://www.esma.europa.eu/sites/default/files/library/esma50-165-1106-asr-performance\\_and\\_costs.pdf](https://www.esma.europa.eu/sites/default/files/library/esma50-165-1106-asr-performance_and_costs.pdf).



with other services), and performance. The performance must be “*considered over an appropriate timescale having regard to the scheme’s investment objectives, policy and strategy*”.<sup>17</sup>

Recently, the FCA furthered their efforts in driving value for money in retail investment products by issuing a policy statement on *assessing value for money in workplace pension schemes and pathway investments*.<sup>18</sup> The FCA highlights that managers<sup>19</sup> of occupational pension funds must take into account three key elements in assessing whether they deliver value for money or not:

- costs and charges,
- investment performance, and
- the quality of services,

in comparison “*with other similar propositions on the market*”.

At the same time, one must also factor in *pension adequacy* when analysing the returns of retirement provision vehicles. Although there is no unified understanding of pension adequacy, a few sources can give an adequate starting point.

The European Commission builds the concept of pension adequacy (from public pensions) on three pillars: eliminating the risk of poverty in old age, smooth transition from work income to retirement income and the length of retirement.<sup>20</sup> By smooth transition, the European Commission refers to a pensions’ ability to replace the working-life income in such a way as to limit the financial impact brought about by this transition. In simpler words, an adequate pension must ensure, at the very least, that pensioners are not in a far worse position than when they were earning work income.

The European Commission also correctly noted that adequacy is achieved if individuals “*can spend a reasonable share of their lives in retirement*”.<sup>21</sup>

Other authors define pension adequacy as allowing individuals “*to maintain, to a reasonable degree, their standard of living after retirement*”.<sup>22</sup> A World Bank report on adequate pension systems focused, besides the smooth transition between work-life and retirement and poverty in old age, also on smoothing consumption. In short, smoothing consumption over the lifetime of

<sup>17</sup> See the Collective Investment Schemes sourcebook (COLL) rules that require fund managers to carry out a Value Assessment (AoV) at least annually, to report publicly on the conclusions of the AoV, and to appoint independent directors on AFM Boards - <https://www.handbook.fca.org.uk/handbook/COLL.pdf>.

<sup>18</sup> UK Financial Conduct Authority, *Assessing Value for Money in Workplace Pension Schemes and Pathway Investments: Requirements for IGCs and GAAs* (October 2021) Policy Statement PS21/12, available at: <https://www.fca.org.uk/publication/policy/ps21-12.pdf>.

<sup>19</sup> Independent Governance Committee (IGC) or Governance Advisory Arrangement (GAA).

<sup>20</sup> European Commission Pension Adequacy Report 2021 (Vol. I), p. 22.

<sup>21</sup> Ibid.

<sup>22</sup> Margherita Borella, Elsa Fornero, *Adequacy of Pension Systems in Europe: An Analysis Based on Comprehensive Replacement Rates* (April 2009), ENEPRI Research Report no. 68, AMI WP 9, available at: <https://www.ceps.eu/download/publication/?id=6260&pdf=1837.pdf>.



workers means that achieving an adequate level of pensions should not necessitate exaggerated savings during working life.<sup>23</sup>

Therefore, it can be argued that pension adequacy:

- should not be achieved by “saving more and more”;
- should not be achieved by extending the work life (starting work earlier and retiring later);
- is achieved if the working income is replaced by a pension that is sufficient to ensure a smooth transition, or maintain the same lifestyle, from work-life to retirement.

Although pension adequacy is mostly aimed at statutory (public) pension systems, we believe that the growing importance of private pension savings in pension provision requires the application of the same “adequacy” standards.

Drawing inspiration from the above practices, but also from the knowledge and empirical findings of 9 editions of this report, BETTER FINANCE formulates the following definition for *Value for Money* in long-term and pension saving products.

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## Value for Money through design, objective, and governance

A long-term and pension savings product delivers value for money for individual, non-professional savers when:

- The investment objective is clearly defined by the provider in the key disclosures;
- Simple and clear full cost and performance disclosure is made publicly available and is comparable to those of other investment products with similar goals;
- the costs borne by savers are commensurate with the investment objective (e.g., if “active” level fees are charged, then the product must overperform the relevant investment universe over the recommended holding period) and commensurate with other comparable retail solutions on the market (e.g., sometimes index products on offer are ten times more expensive than the equivalent ETF solution);
- there are at least two independent members in the governing body of the product representing investors (can be the fund itself if it has legal personality or the product manufacturer) like in the UK (asset manager level) and in the US (fund level);
- the product’s cost and performance must be evaluated, periodically, against the investment objectives of the provider (for example for an active fund charging active level fees, it will be its benchmark or the performance of its investment universe);

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<sup>23</sup> Robert Holzman, Richard Hinz, *Old Age Income in the 21<sup>st</sup> Century* (2005) World Bank, available at: <https://openknowledge.worldbank.org/bitstream/handle/10986/7336/32672.pdf?sequence=1&isAllowed=y>.



The services provided in relation to the distribution and management of a product that delivers Value for Money should encompass the following:

- the management or governing body should report annually and in a simple and concise manner on how the product delivered Value for Money for its beneficiaries;

#### SUPERVISION

- supervisory authorities should conduct annual assessments of Value for Money reporting;
- EU supervisory authorities (EIOPA) should use their product intervention powers which should also cover value for money issues.



# Pension Savings: The Real Return

2021 Edition

## *General Report*

### I. INTRODUCTION

In June 2013, BETTER FINANCE published a research report entitled "[Private Pensions: The Real Return](#)"<sup>24</sup> which evaluated the return of private pension products after charges, after inflation ("real" returns) and – where possible – after taxation, in Denmark, France and Spain.

In September 2014, BETTER FINANCE published the second edition of the "[Pension Savings: The Real Return](#)"<sup>25</sup> report, which included data updates for the three initial countries covered and new in-depth evaluations of pension savings for five new countries: Belgium, Germany, Italy, Poland and the United Kingdom.

The following editions added 10 more countries to the report and updated the figures for those already included. This year's edition (the ninth in a row) expands the geographic scope once again to include Croatia.

#### **The actual performance of this market is unknown to clients and to public supervisors**

This report was built to respond to one of the big problems for the pensions market in the EU: lack of data on real net performances. Since a comprehensive approach to provide this indispensable information to savers is not yet provided by public authorities or other independent bodies, this report aims to improve transparency and comparability on the real returns of long-term and pension savings in Europe. This is in line with the European Commission's current "Action" to improve the transparency of performance and fees in this area (as part of its Capital Markets Union - CMU - Action Plan) and it corresponds with the current tasks the ESAs are undertaking in the area of personal pension products with respect to past performance and cost comparison.

Indeed, apart from the OECD's (the Organisation for Economic Co-operation and Development) report on pensions and EIOPA's (European Insurance and Occupational Pension's Authority) reports on cost and performance, which covers a part of the private pensions market, the contributors to this research report could not find any other more complete or more recent published

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<sup>24</sup> Link for the print version available here:

[http://www.betterfinance.eu/fileadmin/user\\_upload/documents/Research\\_Reports/en/Pension\\_Study\\_EN\\_website.pdf](http://www.betterfinance.eu/fileadmin/user_upload/documents/Research_Reports/en/Pension_Study_EN_website.pdf).

<sup>25</sup> Link for the print version available here: [http://www.oee.fr/files/betterfinance\\_pensions\\_report\\_2014.pdf](http://www.oee.fr/files/betterfinance_pensions_report_2014.pdf).



comprehensive series of net real pension savings returns for such a wide coverage of EU countries and the UK.

The data reported by the OECD<sup>26</sup> are unfortunately quite incomplete:

- At the time of writing, the most recent OECD publication on *pension funds*' returns, "Pension Funds in Figures 2021", provides only 1-year preliminary data (for 2020) on the real returns of *pension funds* in selected OECD and non-OECD countries;<sup>27</sup>
- The OECD "Pension Markets in Focus 2020" covers 15-year returns maximum (until 2019) only for *pension funds*.<sup>28</sup>
- Although the OECD reports 5-year returns for 23 EU countries, it drops to 16 for 10-year horizons and to 11 for 15-year horizons, ending in 2019;
- A part of occupational pension products, and most - if not all - individual pension products are missing as well, as OECD performance data include only "pension funds" stricto sensu, and exclude all "*pension insurance contracts and funds managed as part of financial institutions (often banks or investment companies), such as the Individual Retirement Accounts (IRAs) in the United States*";
- It is questionable that the OECD was able to capture all expenses borne by pension savers - entry fees for example - because the OECD relies mostly on reporting by national authorities and, typically, this is not something covered by them;
- Finally, OECD figures are all before taxes, except for Italy.

EIOPA's Annual Report on Cost and Performance of 2021 covers only 57% of the unit-linked insurances market and 62% of the profit-participation one, and the personal pensions (insurance-based) part covers only a few (210) products from 14 jurisdictions in the EU. Moreover, and unfortunately, the cost data in EIOPA's report is the Reduction-in-Yield from the PRIIPs KID and only covers the previous 5 years.

In comparison, the present report documents a principal component of, and reason for, the generalised level of distrust of EU citizens in capital markets, namely the frequent poor performance of private pension products, once inflation, charges and (when possible) taxes are deducted from nominal returns, when compared to the relevant capital market benchmarks.

Totalling 17 EU Member States under review (Austria, Belgium, Bulgaria, Croatia, Denmark, Estonia, France, Germany, Italy, Latvia, Lithuania, Poland, Romania, Slovakia, Spain Sweden and The Netherlands), the BETTER FINANCE research now covers 87% of the EU27 population.<sup>29</sup> It also

<sup>26</sup> Namely the OECD "Pension Markets in Focus 2017" (1, 5 and 10 year data), and the subsequent editions (2018, 2019, 2020), available at: <https://www.oecd.org/pensions/private-pensions/pensionmarketsinfocus.htm>.

<sup>27</sup> <https://www.oecd.org/daf/fin/private-pensions/Pension-Funds-in-Figures-2021.pdf>.

<sup>28</sup> <https://www.oecd.org/daf/fin/private-pensions/Pension-Markets-in-Focus-2020.pdf>.

<sup>29</sup> As of January 1<sup>st</sup>, 2020 – Eurostat, [demo\_gind] <http://appsso.eurostat.ec.europa.eu/nui/show.do>.



extends the period of time covered in order to now measure performance over the 21-year period ranging from 2000 to 2020, in as far as data was available.

It is the ambition and challenge of this research initiated by BETTER FINANCE and its partners to collect, analyse and report on the actual past performance of **all** long-term and pension savings products.

The net real return<sup>30</sup> of pension saving products should be:

- the long-term return (at least covering two full economic and stock market cycles, since even long-term returns are very sensitive to entry and exit dates);
- net of all fees, commissions and charges borne directly or indirectly by the customer;
- net of inflation (since for long-term products only the real return matters; that is the right approach taken by OECD as mentioned above);
- when possible, net of taxes borne by the customer (in the USA it has been mandatory for decades to disclose the past performance of mutual funds after tax in the summary of the prospectus).

We have chosen a period starting from 31 December 1999 because pension savings returns should be measured over a long-term horizon, and because it includes two market upturns (2003-2006 and 2009-2019) and two downturns (post dot com bubble of 2001-2003 and the 2008 financial crisis).

### Information on the returns of long term and pension savings is deteriorating

This report shows that it is not an impossible, albeit a very challenging, task for an independent expert centre such as BETTER FINANCE to collect the data necessary for this report since quite a lot of data are simply not available at an aggregate and country level, especially for earlier years. The complexity of the taxation of pension savings in EU countries makes it also extremely difficult to compute after tax returns.

Once more, for 2020 (2021 edition), we find that **the availability and quality of information** on long-term and pension savings returns is actually not improving but on the contrary **deteriorating**:

- **Insufficient information**: for example the Belgian insurance trade organisation Assuralia no longer reports on the returns of insurance-regulated « Branch 21 » occupational and personal pension products since 2014, and the national supervisor FSMA does not do it either; in Bulgaria, the **necessary data** for Professional Pension Funds (pillar II and III) is no

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<sup>30</sup> A limitation of the present report is that it does not take into account real estate as an asset for retirement. The proportion of households owning their residences varies greatly from one country to another. For example, it is especially low in Germany, where a majority of households rent their residences and where home loan and savings contracts have consequently been introduced as the most recent state-subsidised pension savings scheme. For the time being, returns on pension savings are all the more important since a majority of retirees cannot rely on their residential property to ensure a decent minimum standard of life. However, residential property is not necessarily the best asset for retirement: indeed, it is an illiquid asset, and it often does not fit the needs of the elderly in the absence of a broad use of reverse mortgages. The house might become too large or unsuitable in case of dependency. In that case, financial assets might be preferable, on the condition that they provide a good performance.



longer available since 2018; in the UK, the survey conducted by the Department for Statistics has been discontinued and information on the British pension funds stopped at 2017;

- **Late information**: at the time of printing, still a lot of 2020 return data have not been released by the national trade organisations or other providers. OECD has published preliminary data for December 2020, but on a limited number of jurisdictions and only for pension funds; however, considering that, in many countries, pension funds are not the most popular vehicle, this constitutes a large information gap.
- **Unchecked information**: the principal source remains the national trade organisations, their methodology is most often not disclosed, return data do not seem to be checked or audited by any independent party, and sometimes they are only based on sample surveys covering just a portion of the products.

The European Supervisory Authorities (ESAs) have a legal duty to collect, analyse and report data on “consumer trends” in their respective fields (Article 9(1) of the European Regulations establishing the three ESAs).

Moreover, savvy retail savers and EU public authorities must rely on private databases (and divergent methodologies) to learn about some of the costs and performances of “retail” saving products. This is because the PRIIPs Key Information Document (KID) eliminated pre-contractual disclosure of past performance and actual costs for UCITS and requires return and cost estimations instead for all “retail” investment products, including pension products. This severe setback in transparency and comparability is completely inconsistent with the CMU initiative. Four high-level initiatives have struggled to repair this situation, without success: the NextCMU Report, the High-Level Forum Final Report, the ECON CMU Report and the ESAs’ draft RTS on PRIIPs Level 2. BETTER FINANCE continues to deplore the content of the PRIIPs KID.

## How to achieve pension adequacy?

Public pension authorities typically stress two requisites for pension savings to achieve “pension adequacy”:

- a) the need to start saving as early as possible;
- b) the need to save a significant portion of one’s income before retirement activity income: *“to support a reasonable level of income in retirement, 10% - 15% of an average annual salary needs to be saved”*.<sup>31</sup>

BETTER FINANCE continues to disagree: saving earlier and more is not enough. A third and even more important factor is the need to deliver positive and decent long-term **real net** return (i.e., net of inflation and fees).

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<sup>31</sup> World Economic Forum White Paper: ‘We’ll live to 100 – How can we afford it?’ May 2017



A simple example will illustrate why saving “*more and for longer periods*” is not sufficient, and too often even detrimental.

Assuming no inflation, saving 10% of activity income for 30 years (as recommended by Public Authorities, 25-year life expectancy at retirement, gross of fees and taxes) the table below shows that **unless long-term net returns are significantly positive** (in the upper single digits), **saving early and significantly will not provide a decent pension**.

Annual net return	Replacement income
negative 1%	10%
Zero	12%
2%	17%
8%	49%

© BETTER FINANCE, 2018

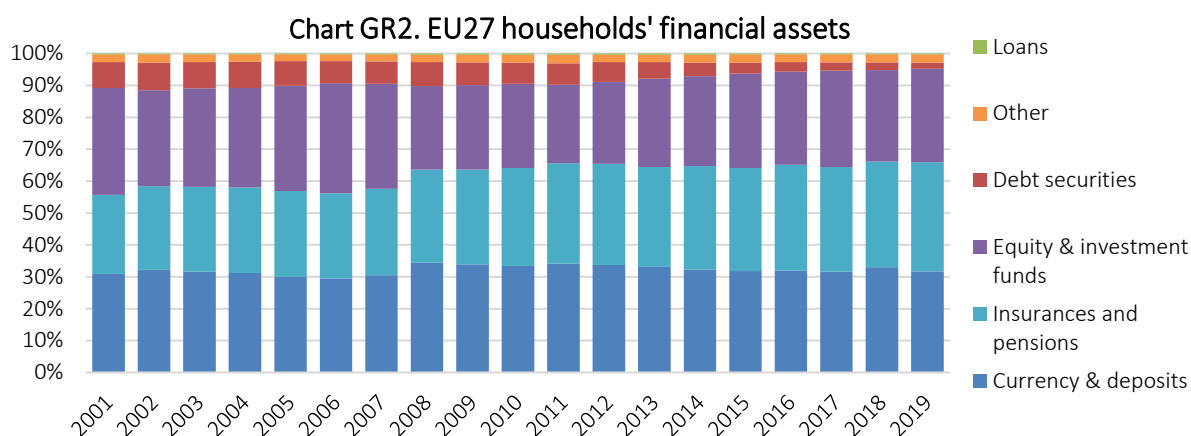
To achieve *pension adequacy*, retirement benefits altogether (State and private pensions) should amount to at least 70%-80% of late working life gross salary.

Nevertheless, this is harder and harder to achieve due to ageing populations, higher pension contributions, longer life expectancy, higher discounting rates etc.

There has been a shift from the full reliance on the public scheme of redistribution (tax-funded defined-benefit) to a more capital markets reliant system, where the main pension income stream should come from private pension products. Pension performances are subject to inflation and to tax, which eat into the retirement pot.

### Most pension products recently improved but underperformed

Our findings clearly confirm that capital market performances have unfortunately very little to do with the performances of the actual savings products distributed to EU citizens. This is particularly true for long-term and pension savings. The main reason is the fact that most EU citizens do not invest the majority of their savings directly into capital market products (such as equities and bonds), but into “packaged products” (such as investment funds, life insurance contracts and pension products).



*Source: BETTER FINANCE based on Eurostat data; 2020 data not yet available*

Our research findings show that most long-term and pension savings products did not, on average, return anything close to those of capital markets, and in too many cases even destroying the real value for European pension savers (i.e., provided a negative return after inflation).

### Performance: capital markets are not a proxy for retail investments

One could then argue that insurance and pension products have similar returns to a mixed portfolio of equities and bonds, since those are indeed the main underlying investment components of insurance and pension “packaged” products. However, this is not true since the share of packaged products and debt instruments are dominant in most pension portfolios. Realities such as fees and commissions, portfolio turnover rates, manager’s risks, etc., invalidate this approach.

Table GR4 and Graph GR5 below show two striking – but unfortunately not uncommon – real examples of this largely ignored reality: capital market performance is not a valid proxy for retail investment performance and the main reasons for this are the fees and commissions charged directly or indirectly to retail customers. The European Commission itself publicly stressed this fact (see footnote 2 above).

**Table GR4. Real case of a Belgian life insurance (branch 23)**

#### Capital markets vs. Belgian individual pension insurance 2000-2020 performance

##### Capital markets (benchmark index\*) performance

Nominal performance	275%
Real performance (before tax)	186%

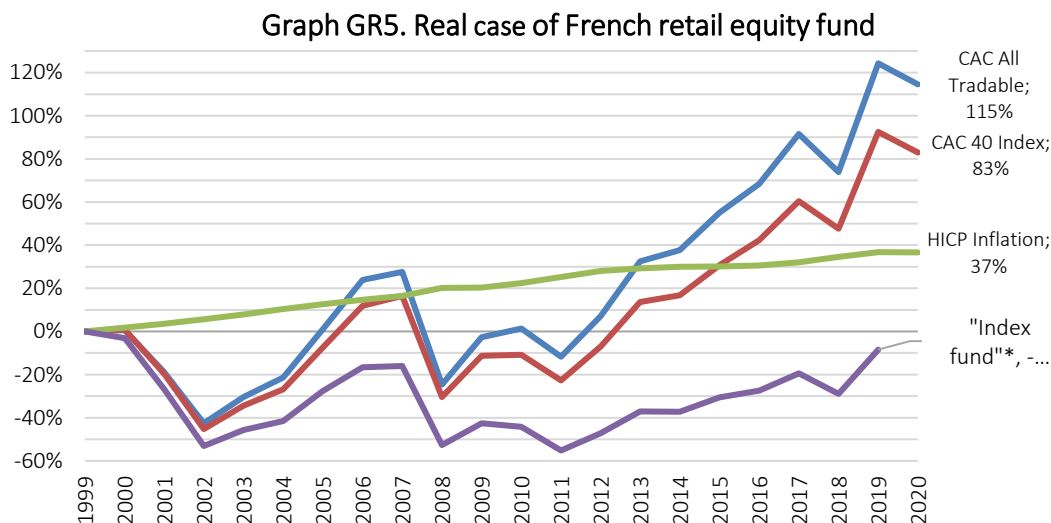
##### Pension insurance performance (same benchmark)

Nominal performance	82%
Real performance (before tax)	23%

*Source: BETTER FINANCE own computations based on Morningstar public website; \*Benchmark is composed of 50% bonds (LP06TREU) and 50% Barclay's Pan-European Aggregate Bond Index + 50% FTSE WORLD TGR*



The real case of Graph GR5 illustrates a unit-linked life insurance product (Pillar III), in Belgium. The pension product's nominal return amounted to less than a third of its corresponding capital market benchmark's return.



*Source: BETTER FINANCE research, fund manager; \* 2000-2003 simulated*

The real case above illustrates an investment fund domiciled in France, a so-called retail CAC 40 “index” fund<sup>32</sup>. The fund actually underperformed the relevant equity index by 101.4 p.p. after 20 years of existence (loss of -8.4% instead of a +83% profit), with the performance gap fully attributable to fees. The fund has also massively destroyed the real value of its clients’ savings, as inflation has been almost twice as high as its nominal performance. It is quite surprising that with such a huge return gap vis-à-vis its benchmark, this fund is still allowed to portray itself as an “index-tracking” one, and that no warning is to be found on the Key Information Document (KIID) of the fund. Unfortunately, the index fund has been sold to another manager and the 2020 performance is no longer relevant.

## European Pension returns outlook

The overall mid-term outlook for the adequacy of European pension savings in 2021 is worrying when one analyses it for each of these main return drivers:

- It is unlikely that the European bond markets will come any closer to the extraordinary returns of the last 20 years (as we are already seeing stagnation or even signs of a downward trend), due to the continuous fall of interest rates, currently at rock-bottom levels; moreover, the global health crisis has already destroyed the record 2019 capital market returns;

<sup>32</sup> Wrapped in an insurance contract as suggested by the distributor.



- b) The negative impact of this foreseeable trend in bond returns on pensions' returns will be reinforced by a higher proportion of bonds being taken up in pension products' portfolios in recent years; this is all the more relevant in light of the monetary policy response to the health-generated recession.
- c) The transparency of cost disclosures is not improving.
- d) While it seemed unlikely that inflation – just like interest rates – would turn into deflation, and the consequences of the “non-conventional” monetary policies of central banks on possible market “bubbles” are still uncharted, currently inflation (with its known devastating impact on the purchasing power of pension income) is surging, hitting record high after record high.
- e) Taxes on long-term and pension savings do not show any significant downward trend either.

## The pan-European Personal Pension (PEPP) product

In an attempt to revitalise voluntary pension savings, the EU engaged in a project to create an EU quality label for personal retirement products, mainly to enable cross-border workers to save simply and efficiently for retirement. Named the pan-European Personal Pension product (PEPP), it is designed as a voluntary/personal pension product (pillar III), and should be:

- portable, allowing the PEPP saver to move across Europe and either continue contributing to his PEPP or switch to a new national sub-account without fees;
- simple, transparent and cost-efficient, embedding proper long-term risk-mitigation techniques; and
- benefiting of tax-incentives in a harmonised manner.

The last two objectives have not been attained – yet. First, taxation is still the sovereign competence of EU Member States and found strong opposition from national Governments, although the Commission and European Parliament have asked or recommended it.<sup>33</sup>

Second, EIOPA allowed insurance-based investment products (IBIPs) manufacturers to charge the cost of guarantees separately from the “all inclusive” 1% cap for the basic PEPP.<sup>34</sup> What is more, is that the capital protection is a “scam” enshrined by EU law. The fact that EU savers would be informed that their capital (meaning accumulated contributions) would be protected, but only after the deduction of fees and without taking into account inflation, is highly misleading.<sup>35</sup>

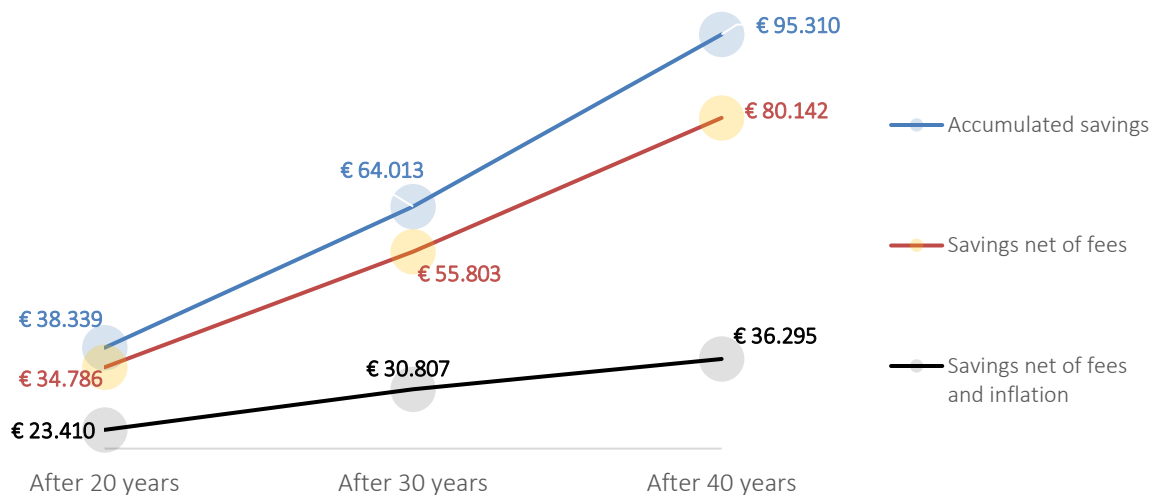
<sup>33</sup> Most recently, the European Parliament's Economic and Monetary Affairs' (ECON) own initiative report on the Further Development of the Capital Markets Union (CMU) does contain a resolution to incentivise and harmonise PEPP tax treatments across the EU; however, at the time of writing, the resolution was not yet final.

<sup>34</sup> See EIOPA Final Regulatory Technical Standards (RTS) supplementing Regulation (EU) 2019/1238 on the PEPP: [https://www.eiopa.europa.eu/sites/default/files/publications/eiopa-20-500\\_pepp\\_draft\\_rtss.pdf](https://www.eiopa.europa.eu/sites/default/files/publications/eiopa-20-500_pepp_draft_rtss.pdf).

<sup>35</sup> See BETTER FINANCE YouTube Video on the “PEPP Capital Protection SCAM”.



Graph GR7. Nominal, net and real capital protection



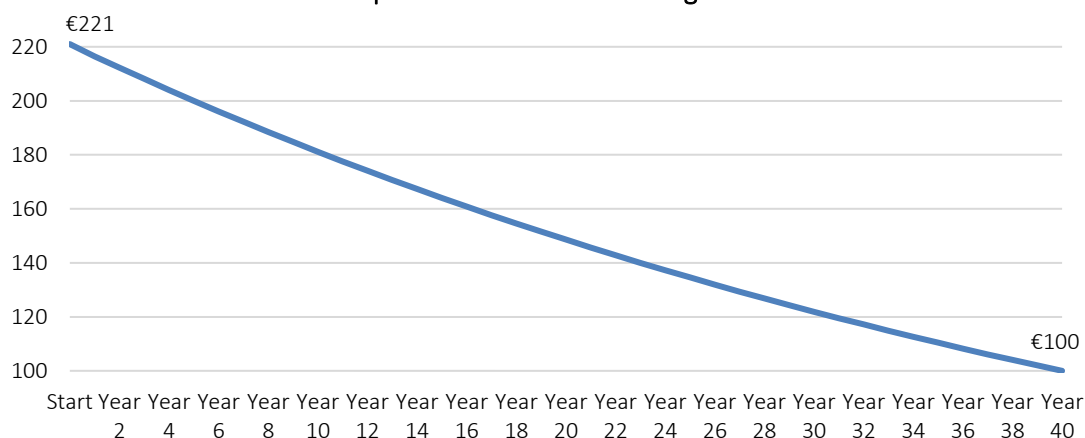
Source: BETTER FINANCE PEPP Level 2 position paper

Pension products have the longest investment horizon, usually until retirement age, which should imply 35 to 40 years of investments. The cumulative effect of inflation, assuming a modest inflation rate, over 40 years would decrease the value of savings by 56%.

What is a “nominal rate” of return?	What is a “real rate” of return?
<p>A <i>nominal</i> value and rate represent the actual amount of money (or mathematical result) of an investment. <i>Nominal returns</i> or profits in <i>nominal terms</i> designate the current entitlement from an investment at a certain point in time.</p> <p>E.g.: A €100 investment that increase by a quarter will have a nominal value of €125 (nominal profit of €25) or a nominal rate of return of 25%.</p> <p>In finance, rates are mostly expressed in <i>nominal</i> and, usually, <i>gross</i> terms. This shows the pure profit generated by an investment before fees, commissions, taxes are deducted and before inflation is adjusted for.</p> <p>Nominal returns can be recalculated into <i>real returns</i> (see right-hand side) by <b>adjusting for inflation</b>.</p>	<p>The <b>real</b> rate is a nominal rate adjusted by <b>inflation</b>. The real return is a “down to earth” indicator because it factors in the practicality (<i>reality</i>) of actually using the money:</p> <ul style="list-style-type: none"> <li>• If inflation has been positive, then the <i>real value</i> of money will be smaller than the <i>nominal value</i>.</li> <li>• If inflation has been negative, then the <i>real value</i> of money will be higher than the <i>nominal one</i>.</li> </ul> <p>This is because inflation (or deflation) shows how many goods or services one can buy with the same amount of money at different points in time. Economists call it the <i>purchasing power</i> and it calculates whether the same €10 bill earned in 2010 (for instance) can be exchanged for less, the same, or more of the same goods in 2020 (for instance).</p>



Graph GR8. Real value of savings



*Source: BETTER FINANCE PEPP Level 2 position paper*

BETTER FINANCE highlights and warns about the “money illusion” and how detrimental it is to consider pension savings in nominal terms rather than in **real** terms, i.e., adjusting for inflation.

## II. COUNTRY PROFILES

This second part onward analyses each country profile available in this study. Tables GR9 (A and B) include some key indicators of the pension systems in the countries under review in this research report. These indicators, explained below, are representative of the sustainability of a pension system, or otherwise the pressure on State (public) pensions. Our aim is to highlight the importance of additional private pension savings for pension adequacy.

### **What is old-age dependency ratio?**

It is defined as the ratio between the total number of elderly persons when they are generally economically inactive (aged 65 and above) and the number of persons of working age:

- when the ratio is low (e.g., Slovakia with 25% or 1 pensioner to 4 workers), it means that the pressure on the state pension is low;
- when the ratio is high (e.g., Italy with 37% or 1 pensioner to less than 3 workers), it means that the burden on PAYG schemes is high, and it can be alleviated through private pension sources.

### **What is population ageing trend?**

An ageing population means that the number of retirees increases relative to the number of workers. This indicator refers to public (PAYG) pensions.

The effect is that the same pension contributions need to pay for a higher number of pensioners, which can make it difficult for the state pension to ensure an adequate level of retirement income stream.

### **What is the projected old-age dependency ratio?**

It shows how the number of pensioners to working people will evolve in time.

If the old-age dependency ratio is now, on average, 1-to-3, by 2050 this level will be for most countries in this Report above 50%. In other words, every state pension will depend on the level of contributions of almost two working-age individuals.



### What is the net equity of households?

It represents the value of technical (mathematical) provisions insurance and pension fund providers hold to pay future pension liabilities (entitlements of savers). This indicator is expressed both in nominal terms (in € billion) and as a percentage of the GDP for 2019. Therefore:

- a high value-to-GDP rate of *net equity of households* reflects well established privately funded systems, indicating a lower dependency on state pensions;
- a low value-to-GDP shows either that the private system is relatively new (as in Romania or Bulgaria) or that households do not contribute too much to pension funds and life insurances, relying more on state pensions.

### What is the aggregate replacement ratio for pensions?

It represents the ratio between to median individual pension income of population aged 65-74 relative to median individual earnings from work of population aged 50-59, excluding other social benefits.

**Note:** In the previous editions of this report, the indicator used was *net pension replacement rate* – aggregated by the OECD – which was discontinued in 2019. Thus, the research team replaced it with the *aggregate replacement ratio for pensions* computed by Eurostat.

**Table GR9(A). EUROPEAN UNION (EU27) at the end of 2019, except otherwise provided**

Net equity of households in pension funds reserves (in € bln)	4,232	Net equity of households in pension funds reserves as % of GDP	30.30%
Net equity of households in life insurance reserves (in € bln)	5,226	Net equity of households in life insurance reserves as % of GDP	37.40%
Active population (mil.), 2020	214.4	Old-Age dependency ratio, old (% of working population)	32.40%
Population ageing trend (2020-2050)	61%	Projected old-age dependency ratio by 2050	52%
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			57%

*Source: for both parts, BETTER FINANCE own composition based on OECD, WorldBank, Eurostat data*

**Table GR9(B). Country Profiles (end 2019, except otherwise provided)**

Austria			
Net equity of households in pension funds reserves (in € bln)	60	Net equity of households in pension funds reserves as % of GDP	15.10 %
Net equity of households in life insurance reserves (in € bln)	83	Net equity of households in life insurance reserves as % of GDP	20.90 %
Active population (mil.), 2020	4.6	Old-Age dependency ratio, old (% of working population), 2020	28.93 %
Population ageing trend (2020-2050)	63%	Projected old-age dependency ratio by 2050	47.20 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			61%
Belgium			
Net equity of households in pension funds reserves (in € bn), 2020	120	Net equity of households in pension funds reserves as % of GDP, 2020	27%



Net equity of households in life insurance reserves (in € bn), 2020	204	Net equity of households in life insurance reserves as % of GDP, 2020	45.20 %
Active population (mil.) 2020	5.1	Old-Age dependency ratio, old (% of working population), 2020	30.22 %
Population ageing trend (2020-2050)	48%	Projected old-age dependency ratio by 2050	44.80 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			46%
<b>Bulgaria</b>			
Net equity of households in pension funds reserves (in € bn)	8	Net equity of households in pension funds reserves as % of GDP	13.20 %
Net equity of households in life insurance reserves (in € bn)	1	Net equity of households in life insurance reserves as % of GDP	1.30 %
Active population (mil.), 2020	3.2	Old-Age dependency ratio, old (% of working population), 2020	33.62 %
Population ageing trend (2020-2050)	64%	Projected old-age dependency ratio by 2050	55.00 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			34%
<b>Croatia</b>			
Net equity of households in pension funds reserves (in € bn)	15	Net equity of households in pension funds reserves as % of GDP	27.70 %
Net equity of households in life insurance reserves (in € bn)	3	Net equity of households in life insurance reserves as % of GDP	4.70 %
Active population (mil.), 2020	1.8	Old-Age dependency ratio, old (% of working population), 2020	33.10 %
Population ageing trend (2020-2050)	59%	Projected old-age dependency ratio by 2050	52.50 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			39%
<b>Denmark</b>			
Net equity of households in pension funds reserves (in € bn)	212	Net equity of households in pension funds reserves as % of GDP	68.00 %
Net equity of households in life insurance reserves (in € bn)	293	Net equity of households in life insurance reserves as % of GDP	93.90 %
Active population (mil.), 2020	3.0	Old-Age dependency ratio, old (% of working population), 2020	31.73 %
Population ageing trend (2020-2050)	37%	Projected old-age dependency ratio by 2050	43.40 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			45%
<b>Estonia</b>			
Net equity of households in pension funds reserves (in € bn)	5	Net equity of households in pension funds reserves as % of GDP	16.80 %



Net equity of households in life insurance reserves (in € bn)	1	Net equity of households in life insurance reserves as % of GDP	2%
Active population (mil.), 2020	0.7	Old-Age dependency ratio, old (% of working population), 2020	32.27 %
Population ageing trend (2020-2050)	52%	Projected old-age dependency ratio by 2050	49.10 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			43%
<b>France</b>			
Net equity of households in pension funds reserves (in € bn)	0	Net equity of households in pension funds reserves as % of GDP	0%
Net equity of households in life insurance reserves (in € bn)	2,084	Net equity of households in life insurance reserves as % of GDP	85.90 %
Active population (mil.), 2020	30.0	Age dependency ratio, old (% of working-age population), 2020	33.69 %
Population ageing trend (2020-2050)	46%	Projected old-age dependency ratio by 2050	49%
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			65%
<b>Germany</b>			
Net equity of households in pension funds reserves (in € bn)	911	Net equity of households in pension funds reserves as % of GDP	26%
Net equity of households in life insurance reserves (in € bn)	1,069	Net equity of households in life insurance reserves as % of GDP	31.00 %
Active population (mil.), 2020	43.4	Old-Age dependency ratio, old (% of working population), 2020	33.70 %
Population ageing trend (2020-2050)	43%	Projected old-age dependency ratio by 2050	48.30 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			44%
<b>Italy</b>			
Net equity of households in pension funds reserves (in € bn)	238	Net equity of households in pension funds reserves as % of GDP	13.30 %
Net equity of households in life insurance reserves (in € bn)	808	Net equity of households in life insurance reserves as % of GDP	45%
Active population (mil.), 2020	25.1	Old-Age dependency ratio, old (% of working population), 2020	36.57 %
Population ageing trend (2020-2050)	68.15 %	Projected old-age dependency ratio by 2050	62%
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			73%
<b>Latvia</b>			
Net equity of households in pension funds reserves (in € bn)	5	Net equity of households in pension funds reserves as % of GDP	16.00 %



Net equity of households in life insurance reserves (in € bn)	1	Net equity of households in life insurance reserves as % of GDP	2.40 %
Active population (mil.), 2020	0.98	Old-Age dependency ratio, old (% of working population), 2020	32.90 %
Population ageing trend (2020-2050)	72%	Projected old-age dependency ratio by 2050	56.70 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			38%
<b>Lithuania</b>			
Net equity of households in pension funds reserves (in € bn)	4	Net equity of households in pension funds reserves as % of GDP	8.30 %
Net equity of households in life insurance reserves (in € bn)	1	Net equity of households in life insurance reserves as % of GDP	2%
Active population (mil.), 2020	1.5	Old-Age dependency ratio, old (% of working population), 2020	32.26 %
Population ageing trend (2020-2050)	75%	Projected old-age dependency ratio by 2050	56.50 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			43%
<b>Netherlands</b>			
Net equity of households in pension funds reserves (in € bn)	1,725	Net equity of households in pension funds reserves as % of GDP*	212.9 0%
Net equity of households in life insurance reserves (in € bn)	170	Net equity of households in life insurance reserves as % of GDP*	21.00 %
Active population (mil.), 2020	9.4	Old-Age dependency ratio, old (% of working population), 2020	31%
Population ageing trend (2020-2050)	44%	Projected old-age dependency ratio by 2050	45%
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			51%
<b>Poland</b>			
Net equity of households in pension funds reserves (in € bn), 2020	40	Net equity of households in pension funds reserves as % of GDP, 2020	7.80 %
Net equity of households in life insurance reserves (in € bn), 2020	15	Net equity of households in life insurance reserves as % of GDP, 2020	3.00 %
Active population (mil.), 2020	18.2	Old-Age dependency ratio, old (% of working population), 2020	28.37 %
Population ageing trend (2020-2050)	84%	Projected old-age dependency ratio by 2050	52.20 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			60%
<b>Romania</b>			
Net equity of households in pension funds reserves (in € bn), 2020	16	Net equity of households in pension funds reserves as % of GDP, 2020	7.40 %



Net equity of households in life insurance reserves (in € bn), 2020	2	Net equity of households in life insurance reserves as % of GDP, 2020	0.90 %
Active population (mil.), 2020	9.0	Old-Age dependency ratio, old (% of working population), 2020	29.47 %
Population ageing trend (2020-2050)	85%	Projected old-age dependency ratio by 2050	54.50 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			41%
<b>Slovakia</b>			
Net equity of households in pension funds reserves (in € bn), 2020	13	Net equity of households in pension funds reserves as % of GDP, 2020	14%
Net equity of households in life insurance reserves (in € bn), 2020	5	Net equity of households in life insurance reserves as % of, 2020	5%
Active population (mil.), 2020	2.7	Old-Age dependency ratio, old (% of working population), 2020	24.65 %
Population ageing trend (2020-2050)	109%	Projected old-age dependency ratio by 2050	51.40 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			53%
<b>Spain</b>			
Net equity of households in pension funds reserves (in € bn), 2020	176	Net equity of households in pension funds reserves as % of GDP, 2020	16%
Net equity of households in life insurance reserves (in € bn), 2020	200	Net equity of households in life insurance reserves as % of GDP, 2020	18%
Active population (mil.), 2020	22.8	Old-Age dependency ratio, old (% of working population), 2020	30.44 %
Population ageing trend (2020-2050)	95%	Projected old-age dependency ratio by 2050	59.50 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2019			70%
<b>Sweden</b>			
Net equity of households in pension funds reserves (in € bn), 2020	531	Net equity of households in pension funds reserves as % of GDP, 2020	107.1 0%
Net equity of households in life insurance reserves (in € bn), 2020	116	Net equity of households in life insurance reserves as % of GDP, 2020	24%
Active population (mil.), 2020	5.5	Old-Age dependency ratio, old (% of working population), 2020	32.76 %
Population ageing trend (2020-2050)	19.04 %	Projected old-age dependency ratio by 2050	39.00 %
Aggregate replacement ratio for pensions (excl. social benefits), total, 2020			55%



United Kingdom				
Net equity of households in pension funds reserves (in € bn)	3,571	Net equity of households in pension funds reserves as % of GDP*	137.2	0%
Net equity of households in life insurance reserves (in € bn)	830	Net equity of households in life insurance reserves as % of GDP*	31.90	%
Active population (mil.), 2020	34.7	Old-Age dependency ratio, old (% of working population), 2020	29.30	%
Population ageing trend (2020-2050)	-	Projected old-age dependency ratio by 2050	-	
Aggregate replacement ratio for pensions (excl. social benefits), total, 2018				55%

*Source: Eurostat; OECD; World Bank; own composition*

Table GR10. Funding level of private pension systems				
Pension Funds' assets (2020)			All retirement vehicles' assets (2020)	
	% of GDP	in € mil	% of GDP	in € mil
Austria	7%	24,969	n.a.	
Belgium	9%	41,959	37%	169,071
Bulgaria	15%	8,900	15%	8,900
Croatia	35%	16,959	35%	16,959
Denmark	58%	182,588	239%	436,290
Estonia	20%	5,302	20%	5,302
France	3%	58,500	11%	254,241
Germany	8%	269,582	n.a.	
Italy	10%	161,658	13%	209,158
Latvia	2%	610	19%	5,707
Lithuania	10%	4,663	10%	4,663
Netherlands	210%	1,679,386	n.a.	
Poland	6%	32,420	6%	32,420
Romania	7%	16,041	7%	16,041
Slovak Republic	14%	13,195	14%	13,195
Spain	10%	117,359	14%	161,373
Sweden	4%	19,719	95%	468,546
United Kingdom	119%	2,641,370	n.a.	

*Source: OECD, 2021*



In some countries the level of accumulated assets in pension funds is almost the same as that of the total value of pension vehicles (such as in Italy, Bulgaria or Romania), in others we see that the total amount of funded retirement products is up to four times higher than the amount for pension funds (Denmark – 219% of GDP).

### III. RETURN ATTRIBUTION

#### Pension returns drivers

This report seeks to explain the (often poor) performance of pension vehicles, especially when compared to capital market returns. The underperformance (compared to a benchmark) of most pension vehicles can be explained by several return *drivers*:

- **inflation**, which over a full contribution period (40 years) at a modest rate can erode even more than 50% of nominal returns,
- pension portfolios' **asset allocation** and **performance**,
- the **asset managers' skills** in terms of picking securities and market timing,
- the **investment charges** deducted by asset managers and other financial intermediaries, to a great extent from net real returns of private pensions,
- ultimately by the **tax** burden.

These return drivers are analysed separately in the following sections.

#### Inflation

As explained in the previous section, inflation is a measurement for the *purchasing power of money* over time: positive inflation rate means that the **real value** of our money decreases over time; negative inflation rate means that the **real value** of our money increases.

For several of the countries analysed in this research report, inflation rates were significant and consequently had a severe impact on returns in real terms over the periods in review. One has to keep in mind that even for those countries with moderate inflation, the compound effect over long periods, as applicable to the case of retirement savings, can lead to considerable losses in purchasing power.



Table GR11(A). Inflation in Eurozone Member States (in %)

Year	AUSTRIA	BELGIUM	ESTONIA	FRANCE	GERMANY	ITALY	LATVIA	LITHUANIA	NETHERLANDS	SLOVAKIA	SPAIN
2000	1.8%	3.0%	5.0%	1.8%	2.2%	2.7%	1.7%	1.7%	2.9%	8.4%	4.0%
2001	1.8%	1.9%	4.2%	1.5%	1.4%	2.3%	3.2%	2.0%	5.1%	6.7%	2.5%
2002	1.7%	1.3%	2.7%	2.2%	1.1%	3.0%	1.5%	-0.9%	3.2%	3.2%	4.0%
2003	1.3%	1.6%	1.2%	2.4%	1.1%	2.5%	3.6%	-1.3%	1.6%	9.4%	2.7%
2004	2.5%	2.0%	4.8%	2.2%	2.3%	2.3%	7.3%	2.8%	1.3%	5.9%	3.3%
2005	1.5%	2.8%	3.7%	1.8%	2.1%	2.0%	7.1%	3.0%	2.0%	3.8%	3.7%
2006	1.6%	2.1%	5.1%	1.7%	1.4%	2.1%	6.7%	4.6%	1.7%	3.7%	2.7%
2007	3.5%	3.1%	9.7%	2.8%	3.1%	2.8%	14.0%	8.2%	1.6%	2.5%	4.3%
2008	1.5%	2.7%	7.5%	1.2%	1.1%	2.4%	10.4%	8.5%	1.7%	3.5%	1.4%
2009	1.1%	0.3%	-1.9%	1.0%	0.9%	1.1%	-1.4%	1.2%	0.7%	0.0%	0.9%
2010	2.2%	3.4%	5.4%	2.0%	1.8%	2.1%	2.4%	3.6%	1.8%	1.3%	2.9%
2011	3.4%	3.2%	4.1%	2.7%	2.2%	3.7%	3.9%	3.5%	2.5%	4.6%	2.3%
2012	2.9%	2.1%	3.6%	1.5%	2.1%	2.6%	1.6%	2.9%	3.4%	3.4%	3.0%
2013	2.0%	1.2%	2.0%	0.8%	1.2%	0.6%	-0.4%	0.5%	1.4%	0.4%	0.3%
2014	0.8%	-0.4%	0.1%	0.1%	0.1%	0.0%	0.3%	-0.1%	-0.1%	-0.1%	-1.1%
2015	1.1%	1.5%	-0.2%	0.3%	0.2%	0.1%	0.4%	-0.2%	0.5%	-0.5%	-0.1%
2016	1.6%	2.2%	2.4%	0.8%	1.6%	0.5%	2.1%	2.0%	0.7%	0.2%	1.4%
2017	2.3%	2.1%	3.8%	1.2%	1.5%	1.0%	2.2%	3.8%	1.2%	2.0%	1.2%
2018	1.7%	2.2%	3.3%	1.9%	1.7%	1.2%	2.5%	1.8%	1.8%	1.9%	1.2%
2019	1.8%	0.9%	1.8%	1.6%	1.5%	0.5%	2.1%	2.7%	2.8%	3.2%	0.8%
2020	1.0%	0.4%	-0.9%	0.03%	-0.7%	-0.3%	-0.5%	-0.1%	0.9%	1.8%	-0.6%
AVG	1.9%	1.9%	3.2%	1.5%	1.4%	1.7%	3.3%	2.4%	1.8%	3.1%	1.9%

*Source: BETTER FINANCE own composition based on Eurostat data*



**Table GR11(B). Inflation in non-Eurozone Member States (in %)**

Year	BULGARIA	CROATIA	DENMARK	POLAND	ROMANIA	SWEDEN	UK
2000	11.3%	5.9%	2.4%	8.4%	40.7%	1.3%	0.8%
2001	4.8%	2.4%	2.0%	3.5%	30.3%	3.2%	1.1%
2002	3.8%	2.8%	2.6%	0.8%	17.8%	1.7%	1.6%
2003	5.6%	2.2%	1.2%	1.7%	14.2%	1.8%	1.3%
2004	4.0%	2.0%	1.0%	4.3%	9.3%	0.9%	1.6%
2005	7.4%	4.0%	2.3%	0.8%	8.7%	1.2%	1.9%
2006	6.1%	2.1%	1.6%	1.4%	4.9%	1.5%	3.0%
2007	11.6%	5.4%	2.4%	4.3%	6.7%	2.5%	2.1%
2008	7.2%	2.8%	2.5%	3.3%	6.4%	2.1%	3.0%
2009	1.6%	1.8%	1.1%	3.9%	4.7%	2.8%	2.9%
2010	4.4%	1.7%	2.8%	2.9%	7.9%	2.1%	3.6%
2011	2.0%	2.1%	2.4%	4.6%	3.2%	0.4%	4.3%
2012	2.8%	4.4%	1.9%	2.1%	4.6%	1.0%	2.6%
2013	-0.9%	0.5%	0.5%	0.6%	1.3%	0.4%	2.0%
2014	-2.0%	-0.1%	0.1%	-0.7%	1.0%	0.3%	0.5%
2015	-0.9%	-0.3%	0.3%	-0.4%	-0.7%	0.7%	0.2%
2016	-0.5%	0.7%	0.3%	0.9%	-0.1%	1.7%	1.6%
2017	1.8%	1.3%	0.8%	1.7%	2.6%	1.7%	2.9%
2018	2.3%	1.0%	0.7%	0.9%	3.0%	2.2%	2.1%
2019	3.1%	1.3%	0.8%	3.0%	4.0%	1.7%	1.3%
2020	0.02%	-0.3%	0.4%	3.4%	1.8%	0.6%	-
AVG	3.5%	2.1%	1.4%	2.4%	7.8%	1.5%	-

*Source: BETTER FINANCE own composition based on Eurostat data*

**Table GR11(C). EU27 inflation**

2000	2001	2002	2003	2004	2005
4.0%	3.0%	2.5%	2.2%	2.6%	2.4%
2006	2007	2008	2009	2010	2011
2.1%	3.4%	2.0%	1.3%	2.5%	2.8%
2012	2013	2014	2015	2016	2017
2.3%	0.8%	-0.2%	0.2%	1.1%	1.4%
2018	2019	2020	AVG		
1.6%	1.6%	0.2%	1.9%		

*Source: Eurostat HICP monthly index (2015=100, prc\_hicp\_aind), annual averages (AAVG) are calculated by BETTER FINANCE.*



### Why is inflation calculated per country/region?

Inflation is a relative term and depends on the "area" where one lives.

e.g.: €10 earned in 2010 will be worth more in 2020 in Germany than in Austria.

In 2020, we can observe deflation (negative inflation) in several countries, which means that the purchasing power of the currency increased over the course of the year. This is the case for Estonia, Germany, Italy, Latvia, Lithuania, Spain, and Croatia. With a few exceptions, the other countries in scope have recorded very low inflation rates. This can be attributed to decreasing prices of consumer goods and services, but also to lower economic output and pressure on the labour market. From a central bank's point of view, deflation can be alarming as it reveals an undesired state of the economy. At the same time, deflation slightly increases real returns. In real terms, a 5% nominal return in 2020 actually means 5.53% given a deflation of -0.5%.

Aiming to maintain inflation rates below, but close to, 2%, the European Central Bank undertook considerable monetary policy efforts to bring the rates back to the desired levels.

**Table GR12. Public sector deficit and debt (in %)**

	Public Sector Deficit as a % of GDP						Public Debt as a % of GDP					
	2015	2016	2017	2018	2019	2020	2015	2016	2017	2018	2019	2020
EU	-1.9	-1.4	-0.8	-0.4	-0.5	-6.9	84.8	84.0	81.5	79.5	77.5	90.7
Austria	-1.0	-1.5	-0.8	0.2	0.6	-8.9	84.9	82.8	78.5	74	70.5	83.9
Belgium	-2.4	-2.4	-0.7	-0.8	-1.9	-9.4	105.2	105.0	102.0	99.8	98.1	114.1
Bulgaria	-1.7	0.2	1.2	2.0	2.1	-3.4	26.0	29.3	25.3	22.3	20.2	25
Croatia	-3.5	-0.9	0.8	0.2	0.3	-7.4	84.3	80.8	77.6	74.3	72.8	88.7
Denmark	-1.2	0.1	1.8	0.7	3.8	-1.1	39.8	37.2	35.9	34	33.3	42.2
Estonia	0.1	-0.4	-0.7	-0.6	0.1	-4.9	10.0	9.9	9.1	8.2	8.4	18.2
France	-3.6	-3.6	-3.0	-2.3	-3.1	-9.2	95.6	98.0	98.3	98	97.6	115.7
Germany	1.0	1.2	1.4	1.8	1.5	-4.2	72.3	69.3	65.1	61.8	59.7	69.8
Italy	-2.6	-2.4	-2.4	-2.2	-1.6	-9.5	135.3	134.8	134.1	134.4	134.6	155.8
Latvia	-1.4	0.2	-0.8	-0.8	-0.6	-4.5	37.1	40.4	39.0	37.1	37	43.5
Lithuania	-0.3	0.2	0.5	0.6	0.5	-7.4	42.5	39.7	39.1	33.7	35.9	47.3
Netherlands	-2.1	0.0	1.3	1.4	1.8	-4.3	64.7	61.9	56.9	52.4	48.7	54.5
Poland	-2.6	-2.4	-1.5	-0.2	-0.7	-7	51.3	54.2	50.6	48.8	45.6	57.5
Romania	-0.6	-2.6	-2.6	-2.9	-4.4	-9.2	37.8	37.3	35.1	34.7	35.3	47.3
Slovakia	-2.7	-2.6	-1.0	-1.0	-1.3	-6.2	51.9	52.4	51.5	49.6	48.2	60.6
Spain	-5.2	-4.3	-3.0	-2.5	-2.9	-11	99.3	99.2	98.6	97.4	95.5	120
Sweden	0.0	1.0	1.4	0.8	0.6	-3.1	43.7	42.3	40.7	38.9	35	39.9
UK	-4.6	-3.3	-2.5	-2.2	-2.1	-	86.9	86.8	86.2	85.7	85.4	-

*Source: Eurostat: (1) Public Sector Deficit as a % of GDP; (2) Public Debt as a % GDP*

In 2020, public spending on healthcare and economic support (due to the COVID-lockdowns) have put strains on state coffers. All countries analysed have recorded deficits, ranging from 1.1% of GDP (Denmark) to 11% of GDP (Spain). As such, public debt has increased everywhere: at EU27 level,



public debt increased by 13.2 p.p., and in the countries analysed the public debt increase ranges between 4.8 p.p. (Bulgaria) to 24.5 p.p. (Spain).

We recall the two criteria concerning public deficit and debt deriving from the Maastricht Treaty, i.e., EU countries should not exceed:

- “-3% ratio of the planned or actual government deficit to gross domestic product at market prices”,<sup>36</sup>
- “60% for the ratio of government debt to gross domestic product at market prices”.<sup>37</sup>

In this light, more than half of the countries analysed are still under the 60% threshold and 16 out of the 17 have exceeded the 3% deficit threshold. Data for the UK is no longer available from Eurostat, so it was excluded from the analysis.

## Asset Allocation

There are striking differences between the asset allocation of pension funds across countries and products.

Equities dominate only in Poland and Lithuania, being the only two jurisdictions where pension funds are more than 50% invested in shares. Bonds are the main portfolio component in 8 out of 10 countries, and at least 40% in another 6 countries. In the UK, Germany, Spain and Slovakia at least a third of the capital is invested in collective investment scheme units or other instruments; cash and deposits are marginally used, mostly for short-term liquidity purposes.

The average portfolio composition remained almost constant, with a slight shift from liquidity and bonds to collective investment schemes (11% in 2015 to 15% in 2020) across the jurisdictions analysed in this report.

The decrease in government bond interest rates since 1999 have had a positive impact on outstanding assets, especially in countries where this asset class dominates, but it reduces the capacity to provide a good remuneration on new investment flows. The downside, starting in 2019, is that yields for sovereign bonds have started to turn negative.

In this edition we also continue to observe striking differences between pension funds’ asset allocations across European countries as shown by the following table.<sup>38</sup>

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<sup>36</sup> Article 1 of the Protocol No. 12 on the excessive deficit procedure of the Treaty on European Union, OJ C 115, 9.5.2008, p. 279–280.

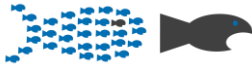
<sup>37</sup> Ibid.

<sup>38</sup> We could not find any available data for France.



Table GR13(A). Pension funds' asset allocation, [2020, in % of total assets]

Country	Year	Cash and deposits	Bills and bonds	Equities	Other
Austria	2005	3%	53%	37%	4%
	2016	9%	46%	33%	12%
	2017	7%	44%	35%	13%
	2018	8%	45%	33%	14%
	2019	7%	43%	34%	16%
	2020	2%	32%	29%	37%
Belgium	2005	2%	6%	9%	78%
	2010	7%	43%	38%	13%
	2015	4%	44%	42%	10%
	2016	N/A	N/A	N/A	N/A
	2017	5%	45%	43%	7%
	2018	6%	47%	41%	5%
	2019	2%	40%	42%	15%
	2020	3%	46%	38%	13%
Bulgaria	2015	12%	65%	19%	4%
	2016	16%	63%	17%	4%
	2017	6%	61%	17%	16%
	2018	9%	57%	17%	17%
	2019	8%	66%	12%	14%
	2020	8%	61%	12%	19%
Croatia	2015	3%	73%	24%	0%
	2016	5%	72%	22%	1%
	2017	4%	73%	22%	0%
	2018	6%	72%	21%	1%
	2019	2%	72%	25%	1%
	2020	4%	69%	26%	1%
Denmark	2005	1%	50%	26%	21%
	2010	3%	42%	5%	50%
	2015	0%	63%	18%	19%
	2016	0%	62%	17%	21%
	2017	1%	59%	19%	21%
	2018	0%	59%	21%	19%
	2019	0%	59%	21%	19%
	2020	0%	52%	21%	27%
Estonia	2010	9%	17%	4%	69%
	2015	20%	48%	31%	0%
	2016	23%	43%	34%	0%
	2017	4%	59%	36%	0%
	2018	3%	62%	34%	1%
	2019	4%	56%	40%	0%
	2020	3%	48%	49%	0%
France	2020	2%	68%	12%	18%



Germany	2005	3%	31%	35%	2%
	2010	2%	46%	5%	46%
	2015	4%	54%	5%	38%
	2016	4%	51%	6%	39%
	2017	4%	50%	6%	40%
	2018	4%	49%	5%	41%
	2019	4%	47%	6%	43%
	2020	3%	46%	7%	44%
Italy	2005	5%	37%	10%	17%
	2010	6%	47%	11%	36%
	2015	4%	50%	20%	27%
	2016	4%	49%	20%	26%
	2017	6%	45%	21%	28%
	2018	6%	45%	19%	30%
	2019	6%	45%	21%	28%
	2020	6%	44%	23%	28%
Latvia	2015	19%	46%	35%	1%
	2016	12%	61%	23%	4%
	2017	10%	57%	29%	4%
	2018	6%	42%	51%	1%
	2019	8%	59%	31%	2%
	2020	10%	56%	31%	3%
Lithuania	2015	9%	51%	38%	2%
	2016	9%	46%	41%	1%
	2017	5%	46%	46%	2%
	2018	7%	47%	44%	2%
	2019	2%	20%	75%	3%
	2020	2%	21%	74%	3%
NL*	2005	2%	41%	46%	4%
	2010	4%	56%	20%	20%
	2015	3%	46%	38%	13%
	2016	2%	45%	39%	14%
	2017	3%	48%	46%	2%
	2018	3%	51%	44%	2%
	2019	3%	50%	46%	0%
	2020	3%	52%	45%	0%
Poland	2005	4%	63%	32%	0%
	2010	3%	59%	36%	1%
	2015	7%	10%	82%	0%
	2016	7%	9%	83%	1%
	2017	6%	9%	85%	0%
	2018	6%	9%	85%	0%
	2019	7%	10%	82%	0%
	2020	4%	11%	85%	0%



Romania	2010	7%	80%	12%	0%
	2015	5%	73%	22%	0%
	2016	7%	71%	22%	0%
	2017	9%	68%	23%	0%
	2018	8%	72%	20%	0%
	2019	4%	71%	25%	0%
	2020	1%	74%	25%	0%
Slovakia	2005	78%	11%	7%	4%
	2010	27%	71%	1%	0%
	2015	17%	78%	2%	2%
	2016	12%	80%	3%	5%
	2017	12%	58%	2%	28%
	2018	11%	58%	2%	28%
	2019	11%	57%	3%	30%
Spain	2020	5%	59%	3%	33%
	2005	5%	58%	19%	18%
	2010	19%	58%	12%	11%
	2015	17%	62%	11%	9%
	2016	15%	64%	14%	7%
	2017	11%	47%	13%	28%
	2018	10%	48%	13%	29%
Sweden	2019	8%	44%	14%	33%
	2020	9%	44%	14%	34%
	2005	1%	58%	34%	7%
	2010	N/A	N/A	N/A	N/A
	2015	2%	67%	18%	13%
	2016	N/A	N/A	N/A	N/A
	2017	N/A	N/A	N/A	N/A
UK	2018	N/A	N/A	N/A	N/A
	2019	2%	45%	24%	29%
	2020	2%	42%	26%	30%
	2005	3%	19%	39%	27%
	2010	N/A	N/A	N/A	N/A
	2015	2%	34%	20%	43%
	2016	4%	43%	22%	31%
AVG 2020	2017	2%	28%	13%	57%
	2018	2%	30%	9%	59%
	2019	2%	30%	9%	59%
	2020	2%	45%	26%	27%
AVG 2020		4%	48%	30%	18%

Sources: OECD Pension Funds in Figures Preliminary Data 2021;



The asset allocation data in this table include both direct investments in cash and deposits, bills and bonds (both sovereign and corporate), equities and indirect investments through collective investment schemes (investment funds such as UCITS<sup>39</sup> or AIF<sup>40</sup>) and other assets, such as loans, land and buildings, real estate investment trusts (REITS), hedge funds, derivatives, commodities and precious metals, insurance contracts, money market instruments, private equity funds and other structured (unallocated) products. Data for the asset allocation in collective investment schemes is not available for all jurisdictions and all years.

On average in 2020 as well, most pension funds employed a conservative/defensive investment strategy, investing more than half (51%) of the capital in debt securities (bills and bonds). Equities are the second largest position with an average of 28%.

However, there are significant deviations from the average:

- In countries such as Germany, Spain or Slovakia, the equity allocation is of small significance (7%, 14%, and 3%);
- In countries such as Poland and Lithuania, most assets are invested in equity (74% and 85%).

Table GR13(B). Evolution of average asset allocation in pension funds				
	Cash & Deposits	Bills & bonds	Equity	Other (incl. CIS)
2015	8%	54%	27%	11%
2016	9%	54%	26%	11%
2017	6%	50%	29%	15%
2018	6%	50%	29%	16%
2019	5%	48%	30%	17%
2020	4%	48%	30%	18%
2015-2020	6%	51%	28%	15%

*Source: own computations based on Table GR13(A).*

So far, we were not able to obtain information on ESG-factored investments to correspond to the current reporting standards.

## Asset performance

Concerning the recent **positive capital markets returns (1999 – 2020)**, equity markets managed to rebound well above the February 2020 level by the time of writing this report. Since the beginning of the 21<sup>st</sup> century, capital market returns have been positive (moderately for equities while strongly for bonds):

<sup>39</sup> “UCITS” stands for Undertakings for Collective Investment in Transferable Securities, which is the most common legal form mutual funds in the EU take, in particular because of the *passporting rights*.

<sup>40</sup> “AIFs” stand for Alternative Investment Funds, which are all the non-UCITS funds.



- Over the last 20 years, on a nominal basis (before taking inflation into account), world stock markets have grown in value (in €) by 151%,<sup>41</sup> where the US stock market has grown by 176%<sup>42</sup> and the European ones by 74% in the last 21 years;<sup>43</sup>
- On a real basis (net of inflation), European stock markets (MSCI Europe NR) returned to positive cumulated performances by 2013, and once again reached significant levels by 2017 (+32%) and reached +17.4% in 2019.

## Equity markets

Equity returns are more volatile in the short-term and hence need to be observed with a long-term perspective in mind. The real return calculations in this report date back to 31/12/1999 at the earliest, so we take a look at how equity markets performed over that same period. Overall, the 21<sup>st</sup> century began with one of the most severe bear markets in history and faced, in conjunction with the downward cycle of 2007-2008, two longer-lasting upward cycles from 2003-2006 and 2009-2019. Data in the table below is calculated based on gross performances (*nominal return*), then adjusted by inflation (*real return*).

Country	Period	Nominal Return	Real return
Austria	(2000-2020)	3.2%	1.25%
Belgium	(2000-2020)	0.44%	-1.60%
Bulgaria	(2006-2020)	-9.10%	-3.61%
Croatia	(2003-2020)	5.24%	2.75%
Denmark	(2000-2020)	10.78%	9.20%
Estonia	(2000-2020)	11.95%	7.90%
Europe (EU27)	(2000-2020)	0.25%	-1.74%
France	(2000-2020)	-0.30%	-1.85%
Germany	(2000-2020)	3.29%	1.84%
Italy	(2000-2020)	-3.05%	-4.89%
Latvia	(2001-2020)	10.45%	6.12%
Lithuania	(2001-2020)	12.0%	8.6%
Netherlands	(2000-2020)	-0.34%	-2.4%
Poland	(2000-2020)	5.16%	2.5%
Romania	(2000-2020)	10.58%	1.06%
Slovakia	(2000-2020)	7.40%	4.42%
Spain	(2000-2020)	-0.91%	-2.96%
Sweden	(2000-2020)	1.43%	-0.20%

*Sources:* MSCI, Yahoo! Finance; Investing.com; NASDAQ Baltic; Bucharest Stock Exchange; GPW

Since not all equity indexes have the same coverage or data availability, it is difficult to perfectly compare the performances of the national equity markets. Most of the equity indices recorded negative nominal returns in 2020, ranging between -14.67% to -3.19%; the rest delivered positive

<sup>41</sup> As measured by the MSCI All Country World Index (ACWI) Net Returns denominated in €.

<sup>42</sup> As measured by the MSCI USA Net Returns Index, calculated in €.

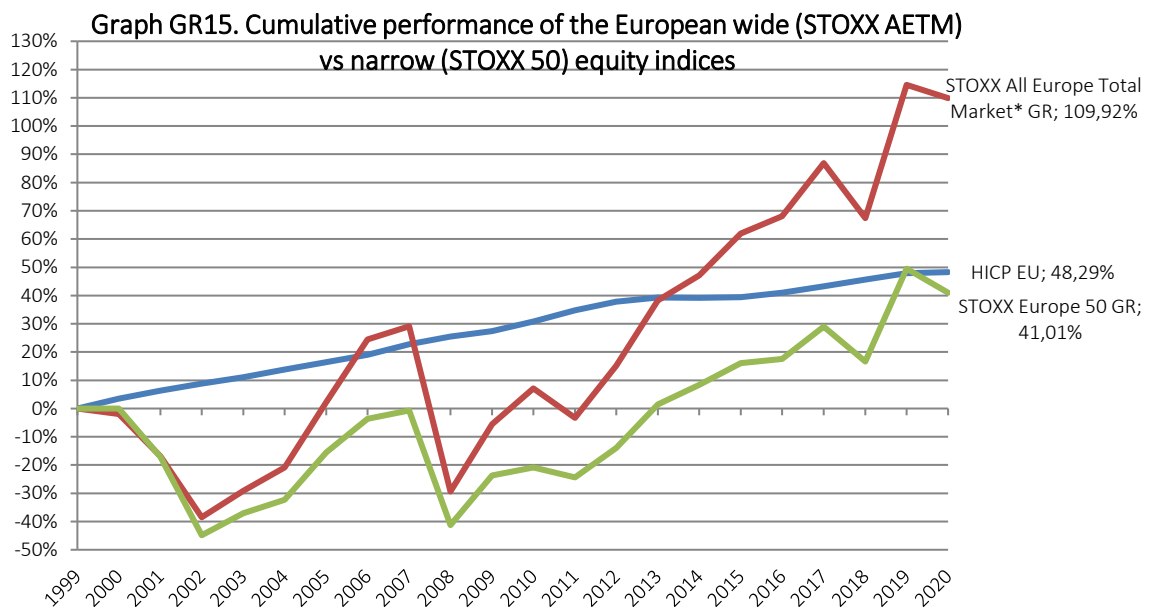
<sup>43</sup> As measured by the MSCI Europe Net Returns Index, denominated in €.



nominal returns ranging between 0.03% and 32.44%. In real net terms, due to predominant deflation, 2020 returns improved slightly. On average, the real returns for the equity markets listed in Table GR14 above are 2.34 p.p. lower than the nominal returns over their respective time periods.

When looking at the cumulated results at European level, as well as in the individual countries where we developed this analysis (see French, German and Spanish country cases), broad stock market indices performed much better than the better known and much narrower large cap or “blue chip” indices (Stoxx Europe 50, DAX 30, IBEX 35, CAC 40).

The following graph shows a comparison of the broad STOXX All Europe Total Market index which includes 1,793 European stocks (as of 2 September 2020)<sup>44</sup> and the much narrower Stoxx Europe 50.



*Source: BETTER FINANCE; Eurostat; STOXX*

At European level, the difference at the end of our 21-year period is an astonishing 69% in favour of the broader stock market index in nominal terms. And whereas the performance of the narrow index (29% nominal) was heavily outmatched by inflation (39%) over the last 18 years, the broader European stock market recorded a positive real performance with a cumulated gain of 34%.

<sup>44</sup> <https://www.stoxx.com/index-details?symbol=TE1P>. There was no data available for year of 2000. The performance of the narrower MSCI Europe TR (Net) index (435 components as of 02 September 2020) for that year was taken as a proxy instead.



## Government bond markets

As already mentioned above, it is important to note that a decrease in interest rates translates into an increase in the mark-to-market value of bonds which had a positive impact on outstanding debt assets of pension funds. On the other hand, the capacity to provide good remuneration through new bond issuances is hereby reduced.

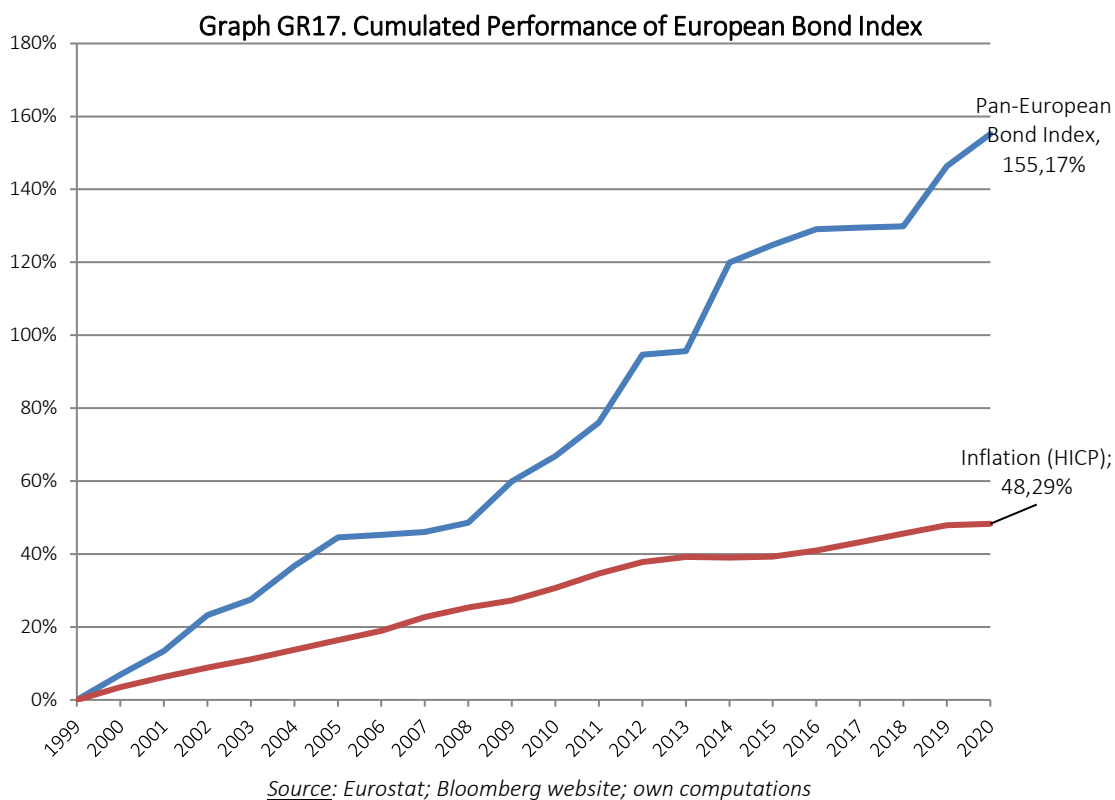
The following table indicates the returns of thirteen major European bond markets for the period 2000-2019.

Table GR16. Historical Returns on Bond Markets, yearly average			
Country	Year	Nominal Return	Real Return
Belgium	(2008-2019)	5.15%	3.35%
Croatia	(2009-2019)	6.03%	4.76%
Denmark	(2008-2019)	4.70%	3.54%
Germany	(2008-2019)	4.15%	2.82%
Spain	(2008-2019)	5.47%	4.24%
France	(2008-2019)	4.70%	3.43%
Italy	(2008-2019)	5.33%	3.99%
Lithuania	(2008-2019)	-	-
Netherlands	(2008-2019)	4.47%	2.92%
Romania	(2008-2019)	-	-
Slovakia	(2008-2019)	-	-
Sweden	(2008-2019)	2.98%	1.54%
UK	(2008-2019)	4.52%	2.23%
EMU	(2008-2019)	4.65%	3.31%

*Sources: Morningstar Direct, Eurostat HICP annual average*

The European government bond markets all showed steady nominal average returns over the past 10 years, ranging between 6.03% (Croatia) and 2.98% (Sweden). Real average returns ranged even closer together, with the highest in Croatia at 4.76% and Sweden and UK at the lower margin.

The following graph shows the long-term cumulated returns of European bonds as a whole - that is both government and corporate bonds - as measured by the Barclays Pan-European TR index:



Over the last 20 years, European bonds as a whole enjoyed a very positive nominal return which was significantly higher than the return of European equities. It is difficult to foresee a continuation of this past trend given the negative interest rates reached today. However, in 2019 this index grew from 129.86% to 146% in nominal terms. Overall, the real cumulative growth of the broad bond index was of 166.2%.



### What are “**equities**”?

Equities, also referred to as *shares* or *stocks*, represent a certificate of ownership over a certain part of a company or undertaking.

Equity gives the *shareholder* the right to benefit of profits (through dividends) and the obligation to support losses, proportionally to his “ownership share” over the company. At the same time, it allows the *shareholder* to take part in the decision-making process of the company.

The value of a share is primarily determined by its growth potential, coupled with the amount and frequency of *dividend* payments: see here the BETTER FINANCE video about *Investing in Shares*.<sup>45</sup>

If the company is going well, the **share price goes up**.

### What are “**bonds**”?

Bonds, commonly referred to as *debt* or *fixed income securities*, represent a very liquid, easily fungible, and transferable **loan**.

The borrower issues the *bond*, which has a *principal* amount (sum to be repaid), a maturity (repayment date) and *coupon* (interest rate).

Bonds are used because they facilitate a very fast financing channel for borrowers (instead of making a loan contract with each lender) and a less risky source of investment return for lenders.

The price of a bond is primarily determined by the *credit rating* of the issuer, the *principal amount* and the *maturity*.

If the issuer is doing good, then the **bond price goes down**.

Graph GR15 shows that this period has indeed been particularly favourable to bonds as an asset class as illustrated by the considerable outperformance of European inflation over time.

## Portfolio Manager / Advisor Competence

The initial BETTER FINANCE study highlighted that, in almost all categories of investment funds, a majority of funds under-performed their benchmarks. Investment funds play an important role in today’s asset allocation of pension vehicles, thus it is interesting to compare investment fund performances to benchmarks.

The Standard & Poor’s annual “SPIVA” report measures the proportion of active funds that have beaten their benchmark. The results from the latest SPIVA Europe Scorecard for year-end 2016 are shown in the following table:

<sup>45</sup> Link also here: <https://www.youtube.com/watch?v=bhYW-YnbEmc>.



**Table GR18. Percentage of European Equity Funds Beating their Benchmarks**

Fund Category	Comparison Index	1-year (2020)	3-year (2018- 2020)	5-year (2016- 2020)	10-year (2011- 2020)
<b>Funds denominated in Euro (€)</b>					
Europe Equity	S&P Europe 350	63	30	25	14
Eurozone Equity	S&P Eurozone BMI	42	21	13	8
France Equity	S&P France BMI	66	9	14	8
Germany Equity	S&P Germany BMI	54	35	26	20
Italy Equity	S&P Italy BMI	45	12	18	20
Spain Equity	S&P Spain BMI	38	22	26	17
Netherlands Equity	S&P Netherlands BMI	17	0	0	0
<b>Funds denominated in local currencies</b>					
U.K. Equity	S&P United Kingdom BMI	80	66	44	35
Denmark Equity	S&P Denmark BMI	32	11	47	15
Poland Equity	S&P Poland BMI	94	68	39	37
Sweden Equity	S&P Sweden BMI	52	35	31	19

*Source:* BETTER FINANCE own computation based on S&P SPIVA Scorecard Year-End 2020 (<https://www.spglobal.com/spdij/en/documents/spiva/spiva-europe-year-end-2020.pdf>); Outperformance is based on equal-weighted fund counts. Index performance based on total return.

The latest findings for 2020 once again reveal that the large majority of funds do not outperform their respective benchmarks over the past 10 years. For funds investing in European equities, only 14% were able to outperform their benchmark, the S&P Europe 350. The worst results on a country basis were recorded for funds investing in the Netherlands equity where already since 2016 funds haven't overperformed the Dutch broad market index (S&P Netherlands BMI), as well Eurozone and France where only 9% and 10% of the equity funds delivered a cumulative profit over the past 10 years above that of their benchmark.

For retirement savings products, consistent positive long-term returns are of particular importance. However definitive conclusions cannot be drawn from these calculations because they relate to a period that is too short, including no more than two cyclical periods: equity markets fell sharply in 2008 and 2009, then they recovered progressively until the end of 2019, with short sub-periods of decline in most countries, as was the case again in 2020. Prior research found that investment funds tend to outperform their benchmarks in a bearish market while they underperform in a bullish market.<sup>46</sup>

For a longer time-horizon and especially in the case of retirement savings, a study<sup>47</sup> provides relevant results for UK personal pension funds operated by 35 providers over a 30-year period (1980-2009). Big personal pension fund providers performed better than their prospectus benchmarks, but underperformed treasury bills over the period of a fund's lifespan. Similarly, specialisation of portfolio managers in the investment universe is shown to deliver superior average

<sup>46</sup> IODS (2014): Study on the Performance and Efficiency of the EU Asset Management Industry, a study for the European Commission (Internal Market and Services DG) and the Financial Services User Group (FSUG), August 2014

<sup>47</sup> Anastasia Petraki and Anna Zalewska (April 2014), "With whom and in what is it better to save? Personal pensions in the UK", working paper of the Centre for Market and Public Organisation, University of Bristol.



annual returns but does not show superior long-term performances. More generally, they found that short-term performances based on arithmetic annual averages are not relevant indicators of the long-term performance calculated as geometric compounded returns similar to the methodology used in the present study. The authors also showed that younger funds perform better than older ones, which are under lower competitive pressure given the cost of leaving a fund to join a better performing one.

A research report published by BETTER FINANCE in 2019 analysed the drivers of over- or underperformance of the comparison or benchmark index of EU Equity Retail Investment funds domiciled in France, Belgium and Luxembourg. While only 2 funds out of 2,086 managed to consistently deliver overperformance over 10 years between 2008-2017, the rest that managed to beat their respective markets seem to have done so by coincidence or luck.<sup>48</sup>

In attempting to give an explanation for the latter, the analysis deployed showed that fees are the most negative factor for fund (over)performance or – in other words – *“the more you pay, the less you get”*.<sup>49</sup> More information on fees and charges is given in the following section.

## IV. INVESTMENT CHARGES

Fees and commissions substantially reduce the performances of pension products, especially for personal “packaged” pension products, and for unit-linked life-insurance. Charges are often complex, opaque, and far from being harmonised between different pension providers and products. Some countries have started to impose overall caps on fees for some pension products (UK, Romania, Latvia).

Findings of the initial study by BETTER FINANCE on the opacity and weight of charges did not change dramatically over the successive research reports. Generally speaking, charges are heavier on personal pension products than on occupational pension funds, as employers are in better position to negotiate with competing providers than individuals are.

To tackle this complexity, some pension providers – for example, some auto-enrolment schemes in the United Kingdom – set up fixed costs per member, but this penalises low paid workers.

Following the OFT study, the Department for Work and Pensions issued a regulation which took effect on 6 April 2015<sup>50</sup>. The default schemes used by employers to meet their automatic enrolment duties are subject to a 0.75% cap on AMCs. The cap applies to most charges, excluding transaction costs. Moreover, an audit was conducted on schemes being “at risk of being poor value for money”. It found that about one third of surveyed schemes had AMCs superior to 1% and that a significant

<sup>48</sup> BETTER FINANCE, *Study on the Correlation between Cost and Performance of EU Equity Retail Funds* (June 2019) <https://betterfinance.eu/wp-content/uploads/BETTER1.pdf>.

<sup>49</sup> Press Release, “New research by BETTER FINANCE on the Correlation between Costs and Performance of EU Retail Equity Funds without a doubt establishes a negative correlation between returns and fees” <https://betterfinance.eu/publication/the-more-you-pay-the-less-you-are-likely-to-get/>.

<sup>50</sup> <https://www.legislation.gov.uk/ukpga/2015/8/contents/enacted>



number of savers would have to pay exit fees superior to 10% in case they wanted to switch to a better performing fund. Moreover, starting from October 2017, existing early exit charges in occupational pension schemes cannot exceed 1% of the member's benefits and no new early exit charges can be imposed on members who joined that scheme after 10 October 2017.

## V. Taxation

Finally, taxes also reduce the performance of investments. The general model applied to pension products is deferred taxation, with contributions being deducted from taxable income and pension pay-outs being taxed then. The accumulated capital can be withdrawn at least partially at retirement as a lump-sum, which is often not taxable. Our calculations of net returns are based on the most favourable case, i.e., assuming that the saver withdraws the maximum lump-sum possible.

One of the key elements of a pension system, as designed by the World Bank's conceptual framework of 1994,<sup>51</sup> is to incentivise savings and private investments by giving fiscal advantages, either as deferred taxation, exemptions, or tax reductions.

Pension taxation concerns three stages: contributions, investment returns and payments (benefit drawdowns).

The general model applied to pension products is usually deferred taxation: contributions are deducted from the taxable income and pensions (pay-outs) are taxed within the framework of income tax or, usually, at a more favourable rate. Some countries are currently in the middle of a transitional phase comprising proportionate deferred taxation which will lead to entire deferred taxation in the future.

The so-called EET regime, "*a form of taxation of pension plans, whereby contributions are exempt, investment income and capital gains of the pension fund are also exempt, and benefits are taxed from personal income taxation*"<sup>52</sup>, is predominant in the countries covered by this research report. There are only a few exceptions, like in Poland, where the reverse rule is applied: contributions are paid from the taxable income while pensions are tax-free (the only exception from the TEE regime are IKZEs – individual pension savings accounts). Pensions in Denmark are taxed at all three stages with contributions to occupational pensions being partially deductible as the only exception. Furthermore, in Bulgaria and for the funded pensions in Slovakia, one can even observe EEE regimes with no pension taxation at all within defined tax exemption limits. In other countries, such as France or Poland, specific conditions apply in order to be tax-exempt or not.

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<sup>51</sup> World Bank, 'Averting the Old Age Crisis: Policies to Protect the Old and Promote Growth' (1994) 10, <http://documents.worldbank.org/curated/en/973571468174557899/pdf/multi-page.pdf>.

<sup>52</sup> OECD definition: <https://stats.oecd.org/glossary/detail.asp?ID=5225>



Usually, the accumulated capital can be withdrawn by the saver as a lump sum at retirement age, at least partially. Our calculations of returns net of taxation (where available) are based on the most favourable taxation case and assume that the saver withdraws the maximum lump sum possible.

Savings products used as retirement provision, but which are not strictly pension products, might benefit from a favourable tax treatment. This is the case of life insurance in France but successive increases of the rate of “social contributions” on the nominal income tend to diminish the returns of the investment.

An overview of the main taxation rules applied on a country basis can be found in the following table:

**Table GR19. Overview of Main Taxation Rules Applied in the Country Reports**

Austria	<ul style="list-style-type: none"> <li>● <b>EET regime</b> – generally, only payments are taxed;             <ul style="list-style-type: none"> <li>o direct commitments, occupational pension funds and group insurance have tax-exempt contributions, tax-exempt capital accumulation, and (income) taxed benefits;</li> <li>o life insurance contributions are subject to insurance tax (4%), investment returns are exempt, and payments are taxed (“TET” regime);</li> <li>o premium subsidised products carry a premium based on the contribution, the capital accumulation phase is tax-exempt, and benefits are also tax free if they are converted into an annuity (“TEE” regime).</li> </ul> </li> </ul>
Belgium	<ul style="list-style-type: none"> <li>● <b>EET regime</b> - only withdrawals/payments are taxed;             <ul style="list-style-type: none"> <li>o Contributions are tax deductible up to prescribed limits;</li> <li>o Employees pay generally 2% solidarity tax and 3.55% INAMI tax on benefits;</li> <li>o Pillar II: Taxation in pay-out phase depending on origin of contribution, local taxes to be added;</li> <li>o Pillar III: Taxation in pay-out phase at the age of 60, local taxes to be added.</li> </ul> </li> </ul>
Bulgaria	<ul style="list-style-type: none"> <li>● <b>EEE regime</b>;             <ul style="list-style-type: none"> <li>o Annual contributions of up to 10% of annual taxable income is tax free;</li> </ul> </li> </ul>
Croatia	<ul style="list-style-type: none"> <li>● <b>EET regime</b></li> </ul> <p>Contributions and investment income are tax-exempt, whereas benefits are taxed. The tax allowance for pensioners is 1.7 times higher than for employees, meaning that pensions are only modestly taxed.</p>
Denmark	<ul style="list-style-type: none"> <li>● <b>TTT regime</b> (combination of ETT and TTE);             <ul style="list-style-type: none"> <li>o Annuities, periodic instalments, and lump-sum pensions under the form of <i>kapitalpension</i> are income tax deferred and follow an ETT regime;</li> <li>o Lump-sum pensions under the form of <i>alderopsparing</i> are taxed TTE;</li> </ul> </li> </ul>
Estonia	<ul style="list-style-type: none"> <li>● <b>EET regime for taxation</b>:             <ul style="list-style-type: none"> <li>o Contributions paid towards the pension schemes are tax-exempt.</li> <li>o Returns achieved by respective pension funds are tax-exempt.</li> <li>o Benefits paid out during the retirement are subject to the income tax taxation.</li> </ul> </li> </ul>



## France

- **ETT regime;**
  - o PERP, Prefon, Corem, CRH contributions are income tax deductible;
  - o Contributions to some DC pension plans (PERCO and PERP) are income tax deductible but no deductibility from social levies. No tax deductibility for life insurance contracts;
  - o taxation of employers' contributions to corporate savings plans (PEE and PERCO) and defined contribution plans ("Article 83") increased from 8% to 20%.
  - o the minimum tax rate on life insurance income is now 23%
  - o pay-outs are taxed in the retirement phase (sometimes with tax reductions).

## Germany

- **EET regime**, taxation divides retirement savings into three groups:
  - o Statutory pension insurance and the Rürup pension: deferred taxation; contributions up to a deduction cap are exempted from taxation and generally subject to tax in its entirety during the pay-out phase.
  - o Standard pension insurance or life insurance products: contributions to the products come from taxed income; benefits are taxed at the personal income tax rate on the corresponding earnings in the retirement phase
  - o Occupational pensions and the Riester pension: deferred taxation; contributions up to a deduction cap are exempted from taxation and generally subject to tax in its entirety during the pay-out phase.

## Italy

- **ETT regime**, contributions are tax deductible up to prescribed limits;
  - o Accruals are taxed at 20% (12.5% on income derived from public bonds) in the capital accumulation phase;
  - o Taxation in the pay-out phase varies from 9-15%.

## Latvia

- **EET regime;**
  - o Pillar II – Contributions are personal income tax deductible item and therefore the contributions are not subject to additional personal taxation; Income or profits of the fund are not subject to Latvian corporate income tax at the fund level; a general principle for all investment and savings-based schemes to levy the income taxation on the final beneficiary.
  - o Pillar III – Voluntary private pensions are generally taxed as Pillar II, however there are deduction limits in the contribution phase: payments (contributions) made to funds shall be deducted from the sum amount of annual taxable income, provided that such payments do not exceed 10 % of the person's annual taxable income.

## Lithuania

- **EEE regime;**
  - o Employee contributions are tax-deductible even if they are higher than required; for pillar III, there is a tax-refund policy during the contribution phase, which means that the contributions of up to 25% of gross earnings, the income tax (15%) is returned;

## Poland

- **TEE regime** for Employees Pension Programs (PPE) and Individual Retirement Accounts (IKE); **EET** for Individual Retirement Savings Accounts (IKZE);
  - o benefits are taxed with a reduced flat-rate income tax (10%)



Romania	<ul style="list-style-type: none"> <li>● <b>EET regime</b> applies for both mandatory and voluntary pensions;               <ul style="list-style-type: none"> <li>o for funded pensions (Pillar II), pension benefits paid out during retirement will be subject to a personal income tax (10% tax rate) above a certain level (€460 in 2018); the social security contributions have been removed as of 2018 and are supported completely from the consolidated state budget.</li> <li>o for voluntary private pensions (Pillar III), contributions are tax deductible up to a deduction limit, investment income is tax exempted, and benefits are subject to the personal income tax.</li> </ul> </li> </ul>
Slovakia	<ul style="list-style-type: none"> <li>● Funded pensions are usually not taxed (EEE regime);</li> <li>● Supplementary pensions follow the EET regime with several exceptions and specifications.</li> </ul>
Spain	<ul style="list-style-type: none"> <li>● EET regime, contributions are tax deductible up to prescribed limits;</li> <li>● No taxation in the capital accumulation phase;</li> <li>● Pay-outs are taxed differently depending on whether they take the form of an annuity or the form of a lump sum payment.</li> </ul>
Sweden	<ul style="list-style-type: none"> <li>● <b>EET regime</b> for public pensions; <b>ETT regime</b> for private pensions;               <ul style="list-style-type: none"> <li>o Employers can partially deduct contributions to the second pillar; returns are subject to an annual standard rate tax based on the value of the account and the government-borrowing rate</li> <li>o Investment return is subject to tax rate on standard earnings at 15%;</li> <li>o in Pillar III, until 2016 there was a tax deduction of SEK 1,800 per year available; returns are subject to an annual standard rate tax based on the value of the account and the government-borrowing rate</li> </ul> </li> </ul>
Netherlands	<ul style="list-style-type: none"> <li>● EET regime;</li> <li>● Contributions paid into pension funds are tax deductible;</li> <li>● Taxation is applied in the pay-out phase at the personal income tax rate.</li> </ul>
UK	<ul style="list-style-type: none"> <li>● EET regime;</li> <li>● Allowances and tax relief on contributions with test against lifetime allowance</li> <li>● Pay-outs are taxed as income, there are three marginal rates in the UK at the moment.</li> </ul>

*Source: BETTER FINANCE own composition*

## VI. RETURNS OVERVIEW

The BETTER FINANCE report now reaches 21 years (or maximum available) of performance disclosure for some retirement provision products. Unfortunately, in the long run, real returns were on average quite low and below those of capital markets (equities and bonds). In the context of negative interest rates and decreasing yields on capital markets, the pensions outlook looks grim.

One has to keep in mind that the diversity of the European pension landscape and the lack of available data complicate the drawing of straightforward conclusions. Although the aim of



comparability would be to present all results in a harmonised manner (either Pillar II vs Pillar III or on product categories - investment funds vs insurance products), complete data for all is not reported, neither the maximum periods available, nor are the concepts (Pillars, occupational vs supplementary plans) so common in all EU Member States. Therefore, for ease of reference, the names of the pension vehicles have been used in Graphs 18 (A, B and C) and Table 19 as presented in each individual country case.

Out of the 15 pension vehicles on which we report performances over at least 18 years (Graph 18(A)):

- only one so far remains on the negative side (-0.66%, French unit-linked life insurances);
- the majority (8) reported less than 1.5% real net return per year, equalling less than 35% pre-tax profits over the past 20 years.

Considering that an EU capital markets-representative benchmark (50% European Equities – 50% European bonds) recorded 72% real profits before taxes (2.69% p.a.), the 2020 data update shows few product categories overperforming this broad market benchmark.

On shorter reporting time frames (Graphs 18(B) and (C)) performances were much higher, but this may be due to the fact that some products did not pass through the same crises as the long-term ones (Graph 18(A)) did.

In general, we could observe significant performance differences in each country case, either between pillars or between types of pension vehicles:

- in Romania, Pillar II mandatory pension funds massively overperformed Pillar III pensions;
- in Austria, pension insurances overperformed pension funds by almost 17 percentage points;
- in Italy, both PIP-products have turned positive: PIP with profits had positive returns over the past 13 years (1.36%) unit-linked PIP recorded an average gain of 2.23%; and
- in France, where capital guaranteed insurance products gained 1.6% p.a. and unit-linked insurance lost -0.7% p.a.

These poor or even negative real returns have led public authorities in some Member States to take measures in order to ensure transparency and cap the fees charged by certain pension providers (in countries such as the UK, Romania and Latvia). The issue is crucial, especially in countries like the United Kingdom where the standard of living of retirees is heavily dependent on pre-funded pension schemes. The following tables detail the long-term real returns of the main long-term and pension saving product categories in the 17 European countries analysed. The categorisation in Graphs GR18(A), (B), (C) AND (D) is by the starting reporting year available in this report.

In Italy, an ambitious reform was implemented (as of 2011) by Minister Elsa Fornero under the Monti government in order to secure the public PAYG system, despite very unfavourable demographic trends. As such, the poor returns of the personal pension plans will have a limited

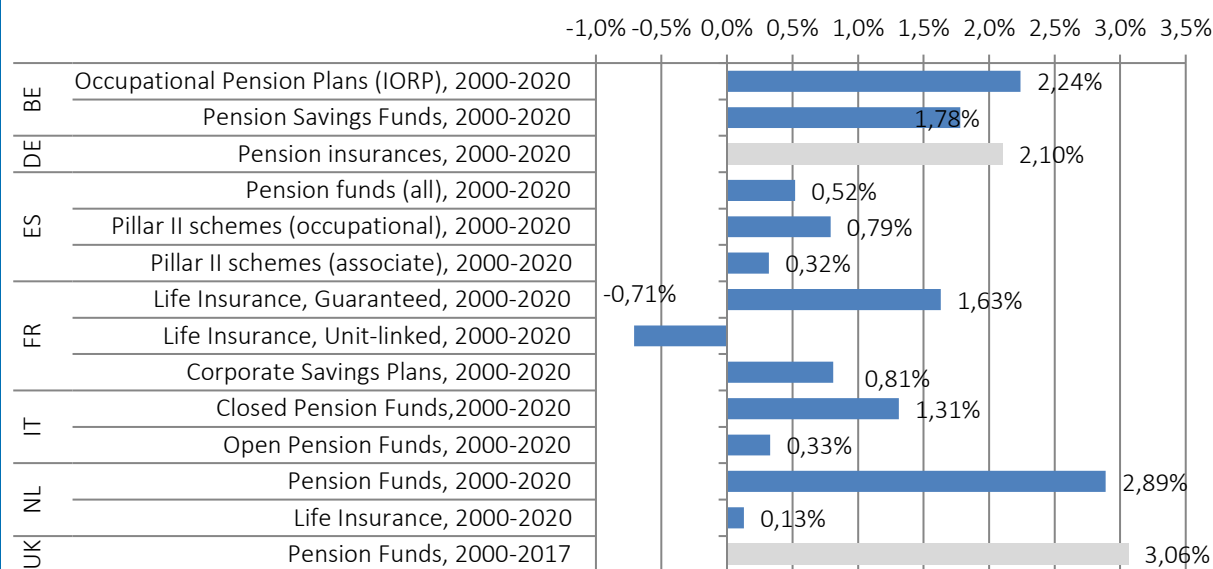


impact on the replacement rates of retirees' income, the downside being the heavier reliance on the public pension scheme.

By contrast, pensions in the UK are more heavily dependent on pre-funded schemes. As such, the total value of pension assets as % of the 2018 GDP reached 105%, which is modest compared to the Netherlands or Denmark, but four times higher than the average (pension fund assets 25% of GDP) in the 17 countries in scope of this Report. The Government has implemented "auto-enrolment" to extend the benefits of pension funds to most employees. There, the excessive charges borne by pension fund members have led public authorities to take measures in order to improve transparency and to limit the fees charged by pension providers.

**Note:** In Bulgaria, data on professional pension funds (occupational and voluntary) was no longer available for the 2018 update. The data reported in these graphs and tables is time-weighted returns.

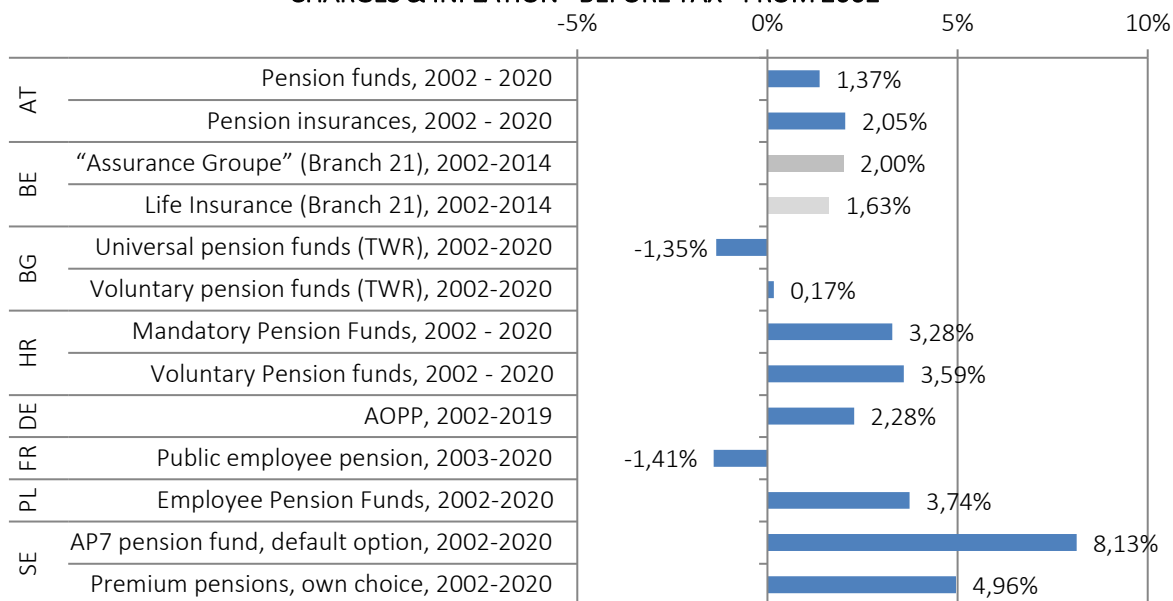
**Graph GR19(A). ANNUALISED REAL RETURNS OF PENSION SAVINGS- AFTER CHARGES & INFLATION - BEFORE TAX - FROM 2000/01**



Source: BETTER FINANCE Research (Table 20); \* Net of taxes, charges and inflation

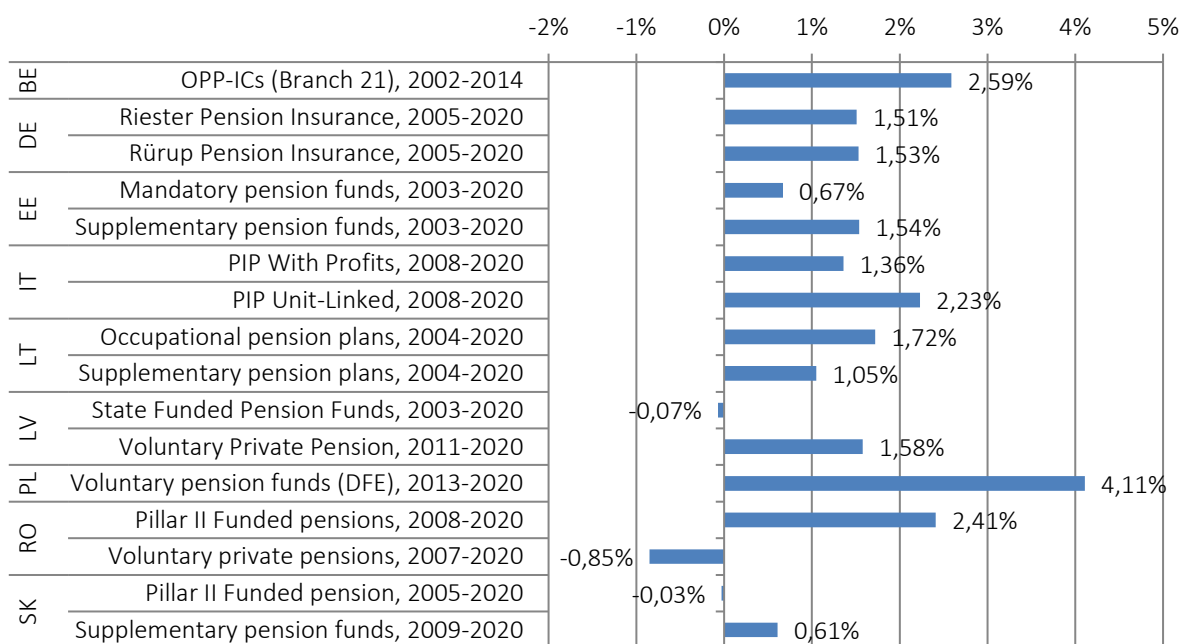


**Graph GR19(B). ANNUALISED REAL RETURNS OF PENSION SAVINGS - AFTER CHARGES & INFLATION - BEFORE TAX - FROM 2002**



Source: BETTER FINANCE Research (Table 20); \* Gross of fees

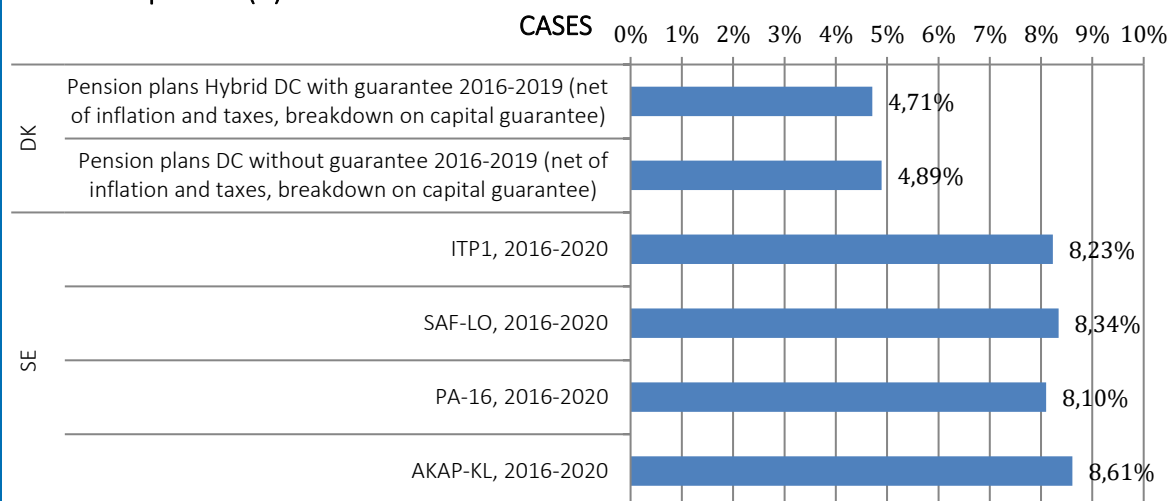
**Graph GR19(C). ANNUALISED REAL RETURNS OF PENSION SAVINGS - AFTER CHARGES & INFLATION - BEFORE TAX - LATER STARTING DATES**



Source: BETTER FINANCE Research, Table 20



Graph GR19(D). ANNUALISED REAL RETURNS OF PENSION SAVINGS - SPECIFIC



*Source: Graph 20*

The following table groups the pension vehicles available and reported on by country, and presents the average returns on the entire available reporting period.

Table GR20. Yearly Real Returns of Private Pension Products

Austria	Pension funds, 2002- 2020: +1.37%
	Life-insurances, 2002-2020: +2.05%
Belgium	Pension Funds (IORP [1]), 2000-2020: +2.24%
	“Assurance Groupe” (Branch 21), 2002-2014: + 2.00%
	Pension Savings Funds, 2000-2020: +1.78%
	Life Insurance, Guaranteed, 2002-2014: +1.63%
	OPP-ICs (Branch 21), 2002-2014: + 2.59%
	Universal Pension Funds (TWR), 2002-2020: -1.35%
Bulgaria	Voluntary Pension Funds (TWR), 2004-2020: 0.17%
Croatia	Mandatory Pension Funds, 2002–2020: +3.28%
	Voluntary Pension funds, 2002-2020: +3.59%
Denmark (after tax)	Pension plans Hybrid DC with guarantee 2016-2019: +4.71%
	Pension plans DC without guarantee 2016-2019: +4.89%
Estonia	Mandatory Pension Funds, 2003-2020: 0.67%
	Supplementary Pension Funds, 2003-2020: +1.54%
	Life Insurance, Capital guaranteed, 2000-2020: 1.6%
France	Life Insurance, Unit-linked, 2000-2020: -0.71%
	Corporate savings plans, 2000-2020: +0.81%



Germany	A.O.P.P.[1], 2002-2019: +2.28%
	Riester Pension Insurance, 2005-2020: +1.51%
Italy	Rürup Pension Insurance, 2005-2020: +1.53%
	Pension Insurances, 2000-2020: +2.10%
Latvia	Closed Pension Funds, 2000-2020: +1.31%
	Open Pension Funds, 2000-2020: +0.33%
Lithuania	PIP with Profits, 2008-2020: +1.36%
	PIP Unit-Linked, 2008-2020: +2.23%
Poland	State Funded Pension Funds, 2003-2020: -0.07%
	Voluntary Private Pension, 2011-2020: +1.58%
Romania	Occupational pensions 2004-2020: +1.72%
	Supplementary pensions 2004-2020: +1.05%
Slovakia	Employee Pension Funds, 2002-2020: +3.74%
	Voluntary Pension Funds, 2013-2020: +4.11%
Spain	Pillar II Funded Pensions, 2008-2020: +2.41%
	Voluntary Pension Funds, 2007-2020: -0.85%
Sweden	Pillar II Pension Funds, 2005-2020: -0.03%
	Supplementary Pension Funds, 2008-2020: +0.60%
The Netherlands	Pension Funds (all), 2000-2020: +0.52%
	Individual plans (agg.), 2000-2020: +0.32%
UK	Pillar II schemes (occupational), 2000-2020: +0.89%
	Pillar II schemes (associate). 2000-2020: +1.07%
	AP7 fund, default option: 2000-2020: +6.95%
	Premium pension, other funds: 2000-2020: +4.18%
	ITP1, 2016-2020: +8.23%
	SAF-LO, 2016-2020: +8.34%
	PA-16, 2016-2020: +8.10%
	AKAP-KL, 2016-2020: +8.61%
	Pension Funds, 2000 - 2020: +2.89%
	Life Insurance, 2000 - 2020: +0.13%
	Pension Funds, 2000-2017: +3.06%

\*After tax

Source: Own Research, Better Finance Research

Occupational pension funds as per the definition and scope of the EU "Institutions for Occupational Retirement Provision Directive" (IORP); [1] A.O.P.P. stands for Autonomous Occupational Pension Funds.

[1] The returns on private pension products in Denmark cannot be calculated on average since the Danish Supervisory Authority started to report the returns for two categories: hybrid defined-contribution (DC) with guarantee and defined-contribution (DC) with no guarantee. Therefore, averages as of 2016 cannot be calculated.



# Pension Savings: The Real Return

2021 Edition

## *Country Case: Sweden*

### Swedish summary

Det svenska pensionssystemet består till stor del av avgiftsbestämda/fonderade pensioner. Totalt förvaltas över 6900 miljarder SEK (€688 miljarder) i pensionskapital. I det allmänna pensionssystemet sätts 2.5% av lönen av till den så kallade premiepensionen. I premiepensionen har förvalsalternativet, AP7 Såfa, haft en genomsnittlig realavkastning på 6.95% sedan 2001, jämfört med 4.18% för alla andra valbara fonder. Tjänstepensionssystemet domineras av fyra stora avtal som täcker över 90% av alla arbetstagare. Tjänstepensionerna har till största del gått från att vara PAYG till fonderade pensionssystem.

### Summary

The Swedish pension system contains a great variety of different retirement savings products with over SEK 6,900 trillion (€688 billion) in assets under management (AuM). There are funded components in each of the three pillars. In the public pension system, 2.5% of earnings are allocated to the *premium pension*, whereas the default fund, AP7 Såfa, has had an average real rate of return of 6.95% compared to the 4.18% of all other funds over the last 19 years. The second pillar is dominated by four large agreement-based pension plans, covering more than 90% of the workforce. These have largely transitioned from a pay-as-you-go (PAYG) system to a funded system.

### Introduction

The Swedish pension system is divided into three pillars:

- Pillar 1 - The national pension
- Pillar 2 - Occupational pension plans
- Pillar 3 - Private pension

The Swedish pension system is a combination of mandatory and voluntary components. Table 1 shows how the pension capital is distributed between the different types of providers in the pension system. In 2019, the total pension capital was estimated at SEK 6,900 billion (€688 billion), which corresponds to fourteen times the size of outgoing pension payments. A share of 46% of the capital is accounted for by the occupational pension system. The fully funded component in the public pension system, the *premium pension*, accounts for 49% of the pension capital in the first pillar. The remaining 51% is managed by the buffer funds (see next section).



## Introductory table: Pension system in Sweden

Pillar I	Pillar II	Pillar III
State pension	Occupational pension	Voluntary pension
Mandatory	Mandatory*	Voluntary
PAYG/funded	Funded	Funded
DC/NDC	DC/DB**	DC
Flexible retirement age 62-68	ERA of 55 or 61, paid out at 65 or 67	Tax rebate abolished in 2016***
No earnings test	Normally a restriction on working hours	
Quick facts		
Number of old-age pensioners: 2,3 million	Coverage: >90%	Share contributing (2015): 24,2%
Coverage (active population): Universal	Pension plans: 4 major (agreement-based)	Funds: >30
Average monthly pension: 1797 EUR	Average monthly pension: 487 EUR	Average monthly pension: 95 EUR
Average monthly salary (gross, age 60-64): 3,100 EUR	AuM: 688 billions EUR (see Table SE 1)	

Average replacement rate: 58%\*\*\*\*

\* Occupational pension coverage is organized by the employer

\*\* The defined benefit components are being phased out

\*\*\* Self-employed and employees without occupational pension still eligible

\*\*\*\* OECD estimate 54%

## Summary returns table. Sweden nominal returns in 1st and 2nd pillar

	Public pension		Occupational pension*			
	AP7 Såfa	Other funds	ITP1	SAF-LO	PA-16	AKAP-KL
2020	4.4	8	7.28	7.833	5.5375	7.729
2019	32.2	27.6	22.1	24.6	25.3	25.0
2018	-2.7	-3.8	-0.2	-1.97	-3.2	-2.12

\* For each occupational pension plan, the return is an unweighted average among the available funds.

Source: Tables SE11 and SE14



The average pension in Sweden was €1,797 EUR (SEK 18,033) per month before taxes in 2019; whereof €1,215 (SEK 12,195) came from the national pension, €487 (SEK 4,887) from occupational pensions and €95 (SEK 950) derived from private pension savings. The outcome furthermore differed quite significantly between genders. For women, the average total pension was €1,490 (SEK 14,956) per month before taxes and for men €2,144 (SEK 21,519) per month before taxes<sup>255</sup>. Although a lot of money is locked in the pension system in Sweden, the Swedish household's savings rate is quite high.

Table SE 1. - Capital Managed (billions of sek)											
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Income-based pension	895	873	958	1058	1185	1230	1322	1412	1383	1596	1696
<i>In € (billions)</i>	89	87	95	105	118	123	132	141	138	159	169
Premium pension	443	434	515	648	812	896	1024	1182	1180	1549	1678
<i>In € (billions)</i>	44	43	51	65	81	89	102	118	118	154	167
Occupational pension	1509	1705	1795	1948	2227	2369	2567	2787	2900	3392	
<i>In € (billions)</i>	150	170	179	194	222	236	256	278	289	338	
Private pension	423	406	412	433	465	478	478	484	476	367	
<i>In € (billions)</i>	42	40	41	43	46	48	48	48	47	37	

*Source:* Sveriges Pensioner 2006-2019 and Orange Report 2020

In Sweden there is no set age at which people must retire, but the national pension can be drawn from the age of 62 onwards (the earliest eligibility age was raised from 61 in 2020). Nor is there an upper age limit on how long a person may work, and everyone is entitled to work until the age of 68 (the mandatory retirement age was raised from 67 to 68 in 2020). The Swedish Pensions Agency administers the national pension and related pension benefits and provides information about them. The Swedish Social Insurance Inspectorate ensures that the Swedish Pensions Agency conducts its administration with due process and efficiency. The occupational and the private pension can be drawn from the age of 55 onwards.

The new national pension system in Sweden was introduced in 1999. The most important change in the reform was going from a defined benefit system to a defined contribution system. Before the reform, pensions were considered a social right and people were guaranteed a certain percentage of the wage before retirement. Following the reform, the outcome of the pension now consists of

<sup>255</sup> Based on information retrieved from: <https://www.pensionsmyndigheten.se/statistik/pensionsstatistik/>. Note that the average pension must be weighted with the number of people receiving a pension from a particular pillar.



the pension savings accumulated during active employment before retirement. In this system, pensions depend on economic and financial development, which means that it is not possible to know in advance how much a retiree's pension will be. With the new pension system, the need for information about pensions is even more important. The occupational pension system has developed in the same direction; most of the occupational pension plans are now defined contribution systems or hybrids with both defined contribution and defined benefit components.<sup>256</sup>

## Pillar I: The national pension

The national pension consists of an *income-based pension*, a *premium pension* and a *guarantee pension*. A share of 18.5% of the salary and other taxable benefits up to a maximum level of 7.5 income-base amount<sup>257</sup> per year is set aside for the national retirement pension. A share of 16% is set-aside for the income pension, where the value of the pension follows earnings trends in Sweden. The income-based pension is financed on a pay-as-you-go (PAYG) basis, which means that pension contributions paid in are used to pay retirees the same year. The remaining 2.5% of the salary and other taxable benefits are set-aside for the premium pension, for which the capital is placed in funds. The individual can either choose what fund or funds to place their savings with or, if no choice is made, contributions will be made in the default alternative fund. This system is unique to Sweden and the first individual choices (allocations) were made in 2000. The aim was to achieve a spread of risk in the pension system by placing a part of the national pension on the capital market, enhance the return on capital and enable individual choices in the national pension system.<sup>258</sup> The Swedish pensions Agency calculates that by 2030 the premium pension will constitute 20% of the total pension.

The capital for the income-based system is deposited in five buffer funds: the first, second, third, fourth and sixth national pension funds. The result of the income-based pension system is affected by several key economic and demographic factors. In the short-term, the development of employment is the most important factor, but the effect of the stock and bond markets is also of significance, particularly in case of major changes. In the long-term, demographic factors are most relevant.

Accumulated pension rights and current benefits in the income-based system grow with the increase in the level of earnings per capita. If the rate of growth of one salary would be slower than that of the average salary, for instance as a result of a fall in the size of the work force, total benefits would grow faster than the contributions financing them, which could induce financial instability. If the ratio of assets to liabilities in the income-based system falls below a certain threshold, the automatic balancing mechanism is activated and abandons the indexation by the level of average salaries. In 2020, the parliament approved a new pension supplement in the national pension. The supplement will be paid out to pensioners with an income-based national pension of SEK 9,000 –

<sup>256</sup> See Hagen (2017) for a more detailed description of the Swedish Pension System

<sup>257</sup> 49,000 EUR (519,400 SEK) for 2019.

<sup>258</sup> Vägval för premiepensionen, Ds 2013:35



17,000 (€896 – €1695) and amounts to maximum SEK 600 per month. The purpose of the supplement is to increase the living standard for low-income workers during retirement. The supplement has been criticized for deviating from the so-called life-income principle and the fact that it is financed from the state budget (as opposed to the income pension which is financed from pension fees).

The third element of the national pension is the guarantee pension. It is a pension for those who have had little or no income from employment in their life. It is linked to the price base amount calculated annually by Statistics Sweden. The size of the guarantee pension depends on how long a person has lived in Sweden. Residents of Sweden qualify for a guaranteed pension from the age of 65. To receive a full guaranteed pension, an individual must in principle have resided in Sweden for 40 years after the age of 25. Residence in another EU/EEA country is also credited toward a guaranteed pension. In addition to the national pension, pensioners with low pensions may be entitled to a housing supplement and maintenance support.

There is agreement in the Swedish Parliament to raise the different statutory retirement ages in the public pension system (Pillar I). First, the earliest eligibility age was raised from 61 to 62 in 2020, to 63 in 2023 and to 64 in 2026. Second, the eligibility age for the minimum guarantee will be raised from 65 to 66 in 2023 and is then expected to increase to 67 in 2026. Those who have worked for 44 years or longer will be exempt from these changes. Third, the mandatory retirement age was raised from 67 to 68 in 2020, and then to 69 in 2023. There is also a plan to index these retirement ages to a so-called “target age”. The target age will be based on remaining life expectancy, although the details are yet to be laid out.

For administering the income-based pension system, a fee is deducted annually from pension balances by multiplying these balances by an administrative cost factor. In 2020, the fee amounted to 0.03%<sup>259</sup>. The deduction is made only until the insured begins to withdraw a pension. At the current level of cost, the deduction will decrease the income-based pension by approximately 1% compared to what it would have been without the deduction.

The premium pension system is a funded system for which the pension savers themselves choose the funds in which to invest their premium pension savings. The premium pension can be withdrawn, in whole or in part, from the age of 62. The pension is paid out from selling off the accumulated capital. The individual choice in the premium pension system furthermore results in a spread on return on the pension capital depending on the choice of fund or funds. Table SE2 shows the allocation of assets in the premium pension.

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<sup>259</sup> The Swedish Pensions Agency, *Orange report 2020*



**Table SE2. Funds in the Premium Pension System and Capital Managed 2010–2020, December 31, billions of SEK**

	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Equity fund	214	159	193	240	295	347	388	441	407	517	582
Mixed funds	17	41	51	63	77	67	69	70	66	69	65
Generation funds	43	60	71	90	114	128	147	166	167	209	221
Interest funds	24	28	24	27	27	25	127	26	30	31	31
AP7 Såfa (default)	110	105	132	182	246	272	328	407	433	632	680
<b>Total:</b>	<b>408</b>	<b>393</b>	<b>471</b>	<b>602</b>	<b>759</b>	<b>839</b>	<b>959</b>	<b>1110</b>	<b>1103</b>	<b>1458</b>	<b>1579</b>
<b>Total € (billions):</b>	<b>41</b>	<b>39</b>	<b>47</b>	<b>60</b>	<b>76</b>	<b>84</b>	<b>96</b>	<b>111</b>	<b>110</b>	<b>145</b>	<b>157</b>

The premium pension has been criticized for having too many selectable funds and for generating large variation in pension outcomes. In December 2017, the government announced that it will implement the changes that have been proposed by the Pensions Agency to enhance the quality and regulation of the participating companies.<sup>260</sup> The new rules were implemented on 1 November 2018, and include, among other things, that the participating fund companies manage at least SEK 500 million outside the Premium Pension, have three years of operating history, act in the best interest of the retirement savers, fulfil minimum sustainability requirements, and establish one contract per fund (rather than one contract per company) with the Pensions Agency.<sup>261</sup>

The new rules also meant that companies that wished to be part of the Premium Pension had to (re)submit an application to the Pensions Agency. In early 2019, 70 companies had submitted an application covering 553 funds (there were more than 800 funds at the end of 2018). The primary purpose of the new rules is to prevent dishonest and fraudulent companies. The alleged fraud of the fund companies Falcon Funds in 2016, Allra in January 2017, and Solidar in 2018<sup>262</sup> sparked discussions on the issue. As of June 2021, there were 471 eligible funds registered in the Premium Pension, managed by 62 different UCITS.

A government report on the future development of the Premium Pension was published in November 2019. The report highlights that it should be easier for retirement savers to get an overview of and select funds, and for the authorities to exercise control and transparency. The report recommends that the existing, open fund platform should be replaced with a new platform where the participating funds have been procured. The procurement and administration of this

<sup>260</sup> The Swedish Pensions Agency, Stärkt konsumentskydd inom premiepensionen

<sup>261</sup> <https://www.pensionsmyndigheten.se/nyheter-och-press/pressrum/nytt-avtal-klart-for-premiepensionens-fondtorg>

<sup>262</sup> See Cronqvist et al. (2018) for a discussion of the Allra case.



platform should be administrated by a new government agency, which also should be responsible for managing the state-run default fund option, AP7 Såfa. The number of funds is expected to fall considerably as a result of these changes and the new structure should be in place at the end of 2023.<sup>263</sup> Some actors, including the Swedish Investment Fund Association, argue that the proposed changes may lead to lower pensions, decrease competition among fund providers and limit the freedom of choice for individual investors.<sup>264</sup>

## Pillar II: Occupational pensions

The occupational pension system in Sweden is mainly driven by collective agreements. A Swedish company is not required by law to pay a pension to its employees, but an occupational pension plan is mandatory if there is a collective agreement at the workplace. The occupational pension system covers over 90% of the workforce. The self-employed are excluded from occupational pension plans and it is mostly smaller companies in new sectors of business that do not have collective agreements.<sup>265</sup> There are four main collective agreements for the different sectors and each agreement has its own pension plan. The four collective agreements are: the SAF-LO Collective Pension (blue-collar workers) with 2.8 million members, the Supplementary Pension Scheme for Salaried Employees in Industry and Commerce ITP (white collar employees) with 2 million members, the Collectively Negotiated Local Government Pension Scheme (KAP-KL) with 1 million members and the Government Sector Collective Agreement on Pensions PA-03/PA-16 with 500,000 members<sup>266</sup>.

In all four collectively negotiated pension schemes, the employees are allowed to choose a fund manager for at least part of the pension amount. To ensure that the employees receive an occupational pension that is as high as possible there is a 'choice centre' for each collective pension plan. The 'choice centre's' task is to contract good managers for the employee's occupational pension. The employees can choose between different types of traditional insurance and/or unit-linked insurance. The size of this individual portion depends on the size of the premiums paid by the employer in the form of an annual pension provision, the length of the period during which they are paid, and how the funds are managed. For two of the collective pension schemes, KAP-KL and SAF-LO, the employees can choose a fund manager for the whole amount. If the individual does not choose a fund manager, the pension capital will be placed in the default alternative, which in all four agreements is a traditional insurance procured by the choice centre of the occupational pension plan.

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<sup>263</sup> Socialdepartementet, Ett förbättrat premiepensionssystem, SOU 2019:44

<sup>264</sup> <https://www.fondbolagen.se/aktuellt/pressrum/pressmeddelanden/forslagen-i-utredningen-ett-battre-premiepensionssystem-gar-emot-malen-med-premiepensionen/>

<sup>265</sup> AMF, "Tjänstepensionerna i framtiden – betydelse, omfattning och trender", p. 17.  
ISF Rapport 2018:15, "Vem får avsättningar till tjänstepension".

<sup>266</sup> [www.pensionsmyndigheten.se/tjanstepensionen-thml](http://www.pensionsmyndigheten.se/tjanstepensionen-thml)



If there is no collective agreement at the workplace, the company can choose to have an individual occupational pension plan for their employees. Among the companies that do not have a collective agreement, some have chosen to have an occupational pension plan, and some do not pay out any pensions at all to their employees. These individual pension plans can vary in shape and level but common to them all is that they often have worse provisions and higher costs compared to the collectively negotiated pension schemes.

In 2017, the Ministry of Finance published a report with several proposals on how to make it easier and cheaper to move occupational pension capital across pension companies and pension plans.<sup>267</sup> Today, the right to move occupational pension is, with some exceptions, limited to pension capital that has been accumulated after 2007 and that has not started to be paid out. There is typically also a fee associated with moving the pension capital to another company, especially in the individual occupational pension plans. Critics argue that this leads to lower competition, lower returns for retirement savers and lock-in effects. In April 2019, the government published a report that highlighted the need for lower moving fees in general and a stipulated maximum moving fee (in SEK).<sup>268</sup> The parliament approved the proposals of the government in November 2019 and recommended the government to pursue the subject further. In March 2020, the Ministry of Finance proposed that the maximum fee should amount to 0.0127 price base amounts (600 SEK/€59.8 for 2020).<sup>269</sup> The new rules were implemented in April 2021.

In December 2016, Sweden transposed the IORP II Directive. The purpose of the new Directive is to ensure the soundness of occupational pensions and better protect pension scheme members by means of stricter capital solvency requirements. The new directive also clarifies the legal framework for actors in the occupational pension business. The new rules have been subject to much discussion. Critics argue that they distort competition in the occupational pension arena because not all companies would be affected. The new rules only apply to pension companies that only provide occupational pension insurance, as opposed to pension companies that also provide other insurance services. The government supplemented the EU Directive with new national legislation in November 2019.<sup>270</sup>

<sup>267</sup> Konkurrensverket, Flyttavgifter på livförsäkringsmarknaden – potentiella inlåsnings effekter bland pensionsförsäkringar, Rapport 2016:12.

<sup>268</sup> Ministry of Finance, "En effektivare flytträtt av försäkringssparande"

<sup>269</sup> Ministry of Finance, "Avgifter vid återköp och flytt av fond- och depåförsäkringar."

<sup>270</sup> Finansutskottets betänkande, "En ny reglering för tjänstepensionsföretag". See <https://www.fi.se/sv/forsakring/iorp2/> for more information on IORP II.



### Pillar III: Private pensions

Private pension saving is voluntary, but it is subsidized via tax deductions. In 2014, 34.5% of those aged 20 to 64 made contributions to a private pension account.<sup>271</sup> The tax deduction for private pension savings is only profitable for high-income earners.

Private pension savings can be placed in an individual pension savings account (IPS) or in private pension insurance. Money placed in an IPS and in private pension insurance is locked until the age of 55. After that the individual can choose over how many years the pension should be paid out. The minimum pay-out is 5 years in both IPS and private pension insurance. However, only money in private pension insurance can be paid out for life (annuity).

Unlike the national pension plan and the occupational pension plans, private pension plans are individual. This results in less transparency both when it comes to offered products within the private pension plans and the charges on these products.

The deduction for private pension savings has been reduced over the years. From 1 January 2015 it was reduced from €1,195 to €179 (SEK12,000 to SEK 1,800) per year, equivalent to €15 (SEK 150) in monthly savings. On 1 January 2016 the deduction was abolished. The motive for this is that the deduction favours high-income earners. In 2015, the share of private pension savers dropped to 24.2 %. Those who still contribute to private pension accounts are thus subject to double taxation.

Several actors in the pension industry advocate the need for new incentives for people to save privately for retirement. One suggestion is that the government match private contributions, similar to what is already in place in Germany,<sup>272</sup> matching benefits, in particular, for low- and medium-income earners as opposed to tax subsidies which tend to favour the rich. The problem is of course that the government has to bear the costs of matching in the future when the contributors retire. In addition, the redistributive outcome of government-subsidized savings may be different than the intended if low- and medium-income earners are less likely to contribute. The effect on total savings may also be limited if there are substitution effects across different saving forms.

#### ISK

With the abolishment of tax-deductible pension accounts, retirement savers need to find new ways to save for retirement that are not directly related to the pension. The most popular savings vehicle today is called “*Investeringsparkontot*” (Investment and savings account - ISK) and was introduced in January 2012. The purpose of the new account is to make it easier to trade in financial instruments. Unlike an ordinary securities account, there is no capital gains tax on the transactions.

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<sup>271</sup> <http://www.statistikdatabasen.scb.se/>

<sup>272</sup> OECD Pension Outlook 2018.



Capital gains tax has been replaced by an annual standardised tax (more on this in the Taxation section).

After the lowering of the deduction for private pension savings, ISK is now regarded as a low tax alternative to private pension savings. ISK has enjoyed widespread popularity and the number of ISK accounts has increased dramatically. In 2019, the number of unique account holders exceeded 2.6 million (see Table 3). In 2020 ISK funds accounted for 9% of the households' total fund assets as compared to 23% for private pension insurance. The relative importance of ISK is however likely to increase in the future; 37% of net savings in funds in 2020 was allocated to ISK accounts. The Premium Pension (1<sup>st</sup> pillar) is the most important saving vehicle in funds accounting for 55% of net savings and 30% of total fund assets (see Table 4).

Cash, securities traded on a regulated market or an MTF, and fund shares are the permitted holdings for this type of account. The cash holdings are covered by the deposit guarantee. The securities and the fund shares are covered by the investor protection guarantee. The account is not an insurance product. It is not possible to name a beneficiary, and standard inheritance laws apply.

**Table SE3. ISK accounts**

Year	Number of accounts	Number of account holders
2012	222 664	210 895
2013	493 221	453 911
2014	891 550	788 201
2015	1 840 152	1 528 939
2016	2 305 137	1 853 227
2017	2 818 490	2 163 762
2018	3 267 512	2 420 819
2019	3 768 666	2 671 091

*Source:* Swedish Tax Agency

**Table SE4. Household fund assets 2020**

Fund type	Fund assets	Net saving (%)	Share of assets (%)
Direct fund investments	495 469	-51	9
ISK	468 419	37	9
IPS	125 705	-8	2
Private pension insurance	1 235 134	43	23
Premium Pension (1st pillar)	1 579 041	55	30
Trustee-registered funds	596 789	10	11
NGOs	113 523	1	2
Swedish companies	580 703	11	11
Others	151 651	2	3
<b>Total:</b>	<b>5 346 433</b>	<b>100</b>	<b>100</b>
<b>Total € (millions):</b>	<b>532 816</b>		

*Source:* Swedish Investment Fund Association



## Pension vehicles

### Occupational pension plans

#### ITP

The ITP agreement consists of two parts: defined contribution pension ITP 1 and defined benefit pension ITP 2. Employees born in 1979 or later are covered by the defined contribution pension ITP 1. In ITP 1 the employer makes contributions of 4.5 percent of the salary per year, up to a maximum of 7.5 income base amounts. If the salary exceeds this level, the amount of the contribution is also 30% of the salary above 7.5-income base amount. There is also an additional contribution that the employer organizations can choose to include, the so-called partial pension contribution. This contribution currently varies between 0.2%-1.5%.

Half of the ITP 1 pension must be invested in traditional pension insurance, but the individual can choose how to invest the remaining half. It can be placed in traditional insurance and/or unit-linked insurance. The premiums of those who do not specify a choice are invested in traditional pension insurance with Alecia. The eligible insurance companies for traditional insurance are Alecia, AMF, Folksam, Skandia and SEB and for unit-linked insurance they are Futur Pension (previously Danica pension), SPP, Handelsbanken, Movestic and Swedbank.

#### SAF-LO

The SAF-LO occupational pension plan is a defined contribution plan by definition. The terms of the plan were improved in 2007, mostly in response to perceived unfairness in the terms of the pension provisions for blue-collar and white-collar workers. Like for ITP 1 the employer now makes contributions of 4.5 percent of the salary, up to a maximum of 7,5 income base amounts. If the salary exceeds this level, the amount of the contribution is also 30 percent. SAF-LO also contains a partial pension contribution that the employer can choose to add. The additional contribution is currently ranging between 0.7. and 1.7 percent.

The individual can choose how to invest the pension capital and it can be placed in traditional insurance and/or unit-linked insurance. The eligible insurance companies for traditional insurance are Alecia, AMF, Folksam and SEB and for unit-linked insurance they are AMF, Futur Pension, Folksam, Handelsbanken, Länsförsäkringar, Movestic, Nordea, SEB, SPP and Swedbank.

#### PA 03

The pension plan for central government employees, PA 16 – Avd II (formerly PA 03), is a hybrid of defined contribution and defined benefit. The defined contribution component in PA 03 consists of two parts: individual old age pension and supplementary old age pension. The total premium amounts to 4.5% of the pensionable income up to a ceiling of 30 income base amounts. Of the total premium, 2.5% and 2% is allocated to the individual pension and the supplementary pension



respectively. The individual can choose how the contribution of the individual retirement pension should be placed and managed. Contributions to the supplementary pension cannot be invested by the employee and are instead automatically invested in a traditional low-risk pension insurance fund.

The defined-benefit pension applies to those who earn more than 7.5 income base amounts. If the individual earns between 7.5 and 20 income-base amounts, the defined-benefit pension comprises 60% of the pensionable salary on the component of pay that exceeds 7.5 income base amounts. If the individual earns between 20 and 30 income-base amounts, the defined-benefit pension comprises 30% of the pensionable salary on the component of pay that exceeds 20 income base amounts. There is also a defined benefit pension on income less than 7.5 income base amounts in accordance with transitional provisions due to the implementation of PA 16 – Avd I (below).

In 2016, a new pension plan, PA 16 – Avd I, for central government employees was implemented. PA 16 covers those born in 1988 or later. Just like PA 16 – Avd II, PA 16 – Avd I has two defined contribution components. The individual pension (2.5 % of income up to 7.5 income base amounts) can be invested by the employee, whereas the supplementary pension (2% of income up to 7.5 income base amounts) is invested in a low-risk pension insurance fund. The contribution for earnings above the ceiling amounts to 20% and 10%, respectively. PA 16 also contains a mandatory partial pension contribution amounting to 1.5%. These contributions are invested in a low-risk pension insurance fund.

The eligible insurance companies providing individual retirement pension in the shape of traditional insurance are Alecta, AMF, Kåpan, and as unit-linked insurance they are AMF, Futur Pension, Handelsbanken, Länsförsäkringar, SEB and Swedbank.

### **KAP-KL**

The KAP-KL agreement consists of two parts: the defined contribution pension AKAP-KL and defined benefit pension KAP-KL. Employees born in 1986 or later are covered by the defined contribution pension AKAP-KL. In AKAP-KL, the employer pays in an amount of 4.5% of the salary towards the occupational pension. If the salary exceeds 7.5 income base amounts, the amount is increasing with 30% of the salary that exceeds 7.5 income base amounts up to a maximum of 30 income base amounts. Employees covered by KAP-KL get 4.5% of the salary contributed to their occupational pension. For a salary over 30 income base amounts, no premium is paid. Instead, there is a defined benefit old age pension that guarantees a pension equivalent to a certain percentage of the final salary at the age of retirement.

The individual can choose how to invest the pension capital and it can be placed in traditional insurance and/or unit-linked insurance. The eligible insurance companies for traditional insurance in AKAP-KL are Alecta, AMF, KPA and Skandia and for the unit-linked insurance in AKAP-KL they are



AMF, Futur Pension, Folksam, Handelsbanken, KPA, Länsförsäkringar, Lärarfonder, Nordea, SEB and Swedbank.

## Charges

### Pillar I

The costs associated with the administration and management of the funds affect the size of outgoing pension payments.

To reduce the costs in the premium pension system, the capital managers associated with the premium pension system are obliged to grant a rebate on the ordinary management fee of the funds. In 2020, the rebates to pension savers were equivalent to a discount in fund management fees of about 0.35 percentage points. The rebates on the ordinary management fees in the premium pension system are of great importance; without them pensions would be approximately 12 % lower. Furthermore, the pension savers are in a position to influence the costs of their premium pensions by choosing funds with lower management fees.

The net charges (after rebates) in the premium pension system are reported in the upper part of Table 5. The total cost deduction in the premium pension capital is about 0.23% per year. At this level of cost the deduction will decrease the premium pension by an average of about 8% from what it would have been without any cost deduction. The deduction is expected to decrease in the future.<sup>273</sup>

The costs in the income pension are shown in the lower part of Table SE5. Management fees in the income pension cover the costs of the buffer funds. The capital managed by the buffer funds marginally exceed the capital managed in the premium pension (SEK 1,696 billion in 2019). However, returns to scale in the buffer funds imply lower costs than in the premium pension.

	Table SE 5. Net charges 1st pillar								
	2013	2014	2015	2016	2017	2018	2018	2019	2020
Premium pension	0.36%	0.33%	0.30%	0.28%	0.27%	0.25%	0.23%	0.23%	0.23%
- Administrative fee	0.10%	0.09%	0.07%	0.07%	0.06%	0.07%	0.04%	0.04%	0.04%
Income pension	0.20%	0.20%	0.21%	0.19%	0.18%	0.16%	0.16%	0.16%	0.15%
- Administrative fee	0.031%	0.033%	0.028%	0.03%	0.03%	0.03%	0.03%	0.03%	0.03%

*Source: Orange report 2020, p58*

To meet the new need of information in the new pension system, the orange envelope was introduced in 1999. It contains information about contributions paid, an account statement, a fund report for the funded part and a forecast of the future pension. The purpose of the orange envelope is to get more people interested in their pension and get more attention with the help of the special

<sup>273</sup> The Swedish Pensions Agency, Orange report 2020, page 29



design, the orange colour and a concentrated distribution once a year. The orange envelope has now become a brand, a trademark for pensions. Banks and insurance companies use it in their sales campaign and in media the orange envelope is used to illustrate pensions.

## Pillar II

Legislation from 2007 implies that individuals can choose which company should manage their occupational pension capital. The so-called portability right accrues to capital earned after July 1, 2007. Capital earned before this date can be moved if the default managing company itself has agreed to give their investors this right. It is estimated that around 44 percent of the occupational pension capital today is covered by the portability right.<sup>274</sup> Thus, the share of pension capital that can be moved will increase over time, which will further strengthen the competition and keep the fees low. As discussed in the background section, there are also policy proposals to extend the portability rights and reducing the associated moving costs.

The selectable companies within each pension plan are included through a procurement procedure which, especially in the last years, have kept the fees down. The companies and the corresponding charges within each pension plan are listed in Table SE6.

The disclosure of charges in the occupational pension system is quite good, although it can be difficult for the average citizen to understand the information that is available. In the occupational pension system, there is typically a yearly fixed fee and a percentage fee on the capital (i.e., management fee). The fixed fee is usually low and covers administrative costs of the pension company. Table SE6 shows the current fee structure in each of the four major occupational pension plans. The charges are relatively low and range between 0.1% and 0.5%.

Table SE6. Charges 2nd pillar		
ITP 1		
Traditional insurance	Fixed cost, SEK	Management fee, %
Alecta (default)	0	0.09
AMF	50	0.17
Folksam	0	0.20
SEB	51	0.08
Skandia	65	0.16
Unit-linked insurance		
Futur Pension	0	0.11-0.19
Handelsbanken	0	0.07-0.13
Movestic	0	0.13-0.24
SPP	0	0.08-0.14
Swedbank	0	0.17-0.18
SAF LO		
Traditional insurance	Fixed fee, SEK	Management fee, %
Alecta	65	0.17

<sup>274</sup> SOU 2012:64, page 466



AMF	40	0.15
Folksam	65	0.12
AMF (default)	40	0.15
SEB	65	0.09
<b>Unit-linked insurance</b>		
AMF	60	0.13-0.20
Folksam LO	50	0.21-0.34
Futur Pension	65	0.19-0.43
Handelsbanken	65	0.36-0.45
Länsförsäkringar	65	0.12-0.20
Movestic	65	0.14-0.45
Nordea	65	0.29-0.38
SEB	45	0.13-0.35
SPP	65	0.14-0.28
Swedbank	65	0.26-0.30
<b>PA 03 &amp; PA 16</b>		
<b>Traditional insurance</b>	<b>Fixed fee, SEK</b>	<b>Management fee, %</b>
Alecta	75	0.17
AMF	75	0.15
Kåpan Pensioner (default)	6	0.06
<b>Unit-linked insurance</b>		
AMF	75	0.13-0.20
Futur Pension	65	0,44
Handelsbanken	75	0.35
Länsförsäkringar	75	0,41
SEB	75	0.14-0.4
Swedbank	75	0.33-0.4
<b>AKAP-KL</b>		
<b>Traditional insurance</b>	<b>Fixed fee, SEK</b>	<b>Management fee, %</b>
Alecta	65	0.17
AMF	65	0.15
KPA (default)	48	0.06
Skandia	65	0.16
<b>Unit-linked insurance</b>		
AMF	65	0.13-0.20
Folksam LO	65	0.22-0.33
Futur Pension	65	0,42
Handelsbanken	65	0.30
KPA Pension	65	0.13-0.30
Länsförsäkringar	65	0,31
Lärfonder	65	0.35
Nordea	65	0.34-0.38
SEB	65	0.31-0.34
Swedbank	65	0.26-0.30

Source: The Swedish Consumers' Association Bureau 2020



### Pillar III

For the private pension system, however, it is difficult to get a good overview of the available pension products and hence the charges on these products. There are two tax-favoured (pre-2016) private pension vehicles: IPS and private pension insurance. The majority of pension providers of IPS and private pension insurance charge a fixed fee (see Tables 7 and 8). These typically range between €10 and €40 per year and are hence higher than in the occupational pension system. In IPS, only two out of eleven providers charge a management fee. Instead, the individual is subject to fund fees which vary substantially by fund type and pension provider. It is also relatively expensive to move the IPS capital to another company. This fee typically amounts to €50, which in relation to the invested capital can be sizable.

In private pension insurance accounts, the fee structure depends on whether the capital is unit-linked or traditional. Traditional insurance only imposes a management fee whereas unit-linked insurance both contains management and fund fees. In some cases, investors also pay a deposit fee of 1% - 2%. The savings invested in these products will decrease since the deduction for private pension savings was abolished in January 2016.

In many private pension products (including individual occupational pension plans), there is a cost to move the capital to another company (not reported here). These fees typically range between 0%-3%, reaching 0% after a specific number of years of investment. These fees have been criticized for causing serious lock-in effects. For many it is simply not worth moving the capital, despite high management fees.

Table SE 7. Individual Pension Savings Account (IPS)– Fees			
	Fixed fee. SEK	Management fee. %	Fund fee (mixed funds). %
Aktieinvest	0	0,00	0.10-1.90
Avanza Bank	0	0,00	0.00-2.00
Danske Bank	150	0,00	0.83-1.25
Handelsbanken	0	2 (max SEK 125)	0.45-1.45
Indecap	125	2 (max SEK 125)	1.34-1.66
Länsförsäkringar Bank	125	0,00	0.20-2.00
Nordea	140	0,00	0.40-1.83
Nordnet Bank	0	0,00	0.26-5.26
SEB	N/A	N/A	N/A
Skandiabanken	0	0,00	0.90-1.81
Swedbank	0	2 (max SEK 125)	0.20-1.40

*Source:* The Swedish Consumers' Insurance Bureau 2020



**Table SE 8. Pension Savings Insurance – Fees**

<b>Traditional insurance</b>	<b>Fixed fee. SEK</b>	<b>Management fee. %</b>	<b>Deposit fee. %</b>
Folksam Pensionsförsäkring	288	0.06	1,00
Nordea Ålderspension	149	0.16	0,00
SEB Traditionell Försäkring	192	0.14	0,00
Skandia Framtid Internet	0	0.034	2,00
Skandia Framtid Rådgivning	0	0.034	2,00
SPP PLUSpension Traditionell	0	0.21	0,00
<b>Unit-linked</b>			<b>Fund fee. %</b>
Avanza Pension PrivatPension Depå	0	0	0.1
Folksam Pensionsförsäkring Fond	295	0.7	0.33
Futur Pension PrivatPension Fond	120	0.5	0.54
Futur Pension PrivatPension Netto Fond	0	0	0.54
Handelsbanken Privatpension	60	0.75	0.28
Länsförsäkringar Privatpension Fond	240	0.5	0.29
Movestic Pension Privat Fond	286	0.44-0.5	0,50
Nordea Ålderspension Fond	149	0.4	0.42
Nordnet Privatpension Depå	0	0	0,13
SEB Privat Pensionsförsäkring Fond	311	0.65	0.48
SEB Svensk Depåförsäkring	311	0.65	0.48
Skandia Privatpension Depå	0	<b>0.75</b>	0.37
Skandia Privatpension Internet Fond	0	0	0,42
Skandia Privatpension Rådgivning Fond	360	0.65	0,42
SPP PLUSpension Fond	0	0.35	0.26
Swedbank Pensionsförsäkring Depå	240	0.65	0,18
Swedbank Pensionsförsäkring Fond	240	0.65	0,18

*Source:* The Swedish Consumers' Insurance Bureau (2019)

## ISK

On ISK there is an annual standard rate tax, based on the value of the account as well as the government-borrowing rate. The financial institutions report the standard rate earnings to the tax authorities and there is no need to declare any profit or loss made within the account.

The calculation of the standard rate earnings is based on the average value of the account as well as the government-borrowing rate. The average value of the account is calculated by the account value of the first day of each quarter added together, divided by four, and the sum of all deposits during the year divided by four. The average value of the account multiplied with the government borrowing rate as of 30 November the previous year, plus 1 percentage point (0.75 percentage points before Jan 1, 2018), gives the standard earnings. The standard earnings cannot fall below 1.25%, however. The standard earnings are reported to the tax authority by the financial institutions. The standard earnings are taxed at 30%.



In 2019, the government borrowing rate was -0.09%, which means that the calculated average value of an account is taxed with 0.375% ( $0.3 \times 0.0125 = 0.00375$ ). The table below reports the total and average standard earnings for years 2012-2019.

Table SE9. ISK standard earnings				
Year	Standard earnings (msek)	In € (millions)	Average standard earning per account holder	In €
2012	714	71	3 388	338
2013	2 024	202	4 458	444
2014	5 467	545	6 937	691
2015	3 952	394	2 585	258
2016	7 646	762	4 126	411
2017	8 852	882	4 091	408
2018	12 384	1 234	5 116	510
2019	13 854	1 381	5 187	517

*Source:* The Swedish Tax Agency

In contrast to individual pension savings accounts, the investment and savings accounts are free from management fees. The taxation of the accounts is very favourable, and the Swedish Pensions Agency considers the investment and savings account a great alternative to the individual pension savings account. There is no binding period, and withdrawals can be made free of charge at any given time. The taxation of the account is more favourable during periods with low borrowing rates, as the standard rate earnings are based partially on the government-borrowing rate.

Since ISK was introduced in 2012, the economy has been characterized by low interest rates and a positive stock market development. This, in combination with the abolishment of the deduction for private pension savings, has contributed to the rapid spread of ISK accounts. Some argue that ISK will replace the old tax-favoured private pension savings accounts. However, critics argue that ISK is more of a regular savings vehicle; ISK capital cannot be withdrawn as a life annuity, and it does not mandate the account holder to save long-term.

## Taxation

Taxation during the accumulation phase looks different in the different pillars. In the public pension, individual contributions are deductible from the tax base and there is no tax on returns. Employers can partially deduct contributions to the second pillar.<sup>275</sup> When it comes to private pension savings, there was a tax deduction of 1,800 SEK (€179) per year available, but it was abolished in January 2016. There is no tax on returns in the first pillar. In contrast, returns in the occupational pension system and in the private pension vehicles are subject to an annual standard rate tax based on the

<sup>275</sup> Deductible contributions amount to maximum 35% of the wage of the employee. However, the deduction cannot exceed 10 prize base amounts.



value of the account and the government-borrowing rate. Specifically, the value of the account on January 1st multiplied by the government borrowing rate gives the standard earnings which are then subject to a 15% tax rate.

During the decumulation phase, all pension income in Sweden is taxed as earned income. The rate varies depending on the size of the pension payment due to the progressive income taxation in Sweden. The Swedish income tax is even higher for pensioners than workers because of the earned income tax credit.<sup>276</sup> The Swedish tax system works as follows. A proportional local tax rate applies to all earned income, including pension income. Furthermore, for income above a certain threshold, the taxpayer also has to pay central government income tax. The marginal tax rate is 20% for incomes above €50,756 (509,300 SEK) and 25% for incomes there above.<sup>277</sup>

Table SE10. Taxation on pension schemes			
	National pension	Occupational pension	Private pension
<b>Contributions</b>	Individual contribution deductible, not employer's part	Partially deductible	Non-deductible from January 1 2016.
<b>Tax on investments</b>	Not subject to tax, instead the capital is taxed with income tax when paid out.	Subject to tax rate on standard earnings (15 % in 2020)	Subject to tax rate on standard earnings (15 % in 2020)
<b>Pay-out</b>	Income tax	Income tax	Income tax

*Source:* Pensionsmyndigheten, Konsumenternas, Alecta, Swedbank, MinPension

From a phase taxation point of view, Pillar I can be described as EET (contributions exempt- capital gains exempt- pay-outs taxed) and Pillars II and III ETT (contributions exempt – capital gains taxed – pay-outs taxed).

## Pension Returns

This section reports on returns on pension capital in the first and second pillars. There are no readily available data on returns in the private pension system (Pillar III) – one would have to turn to the homepage of each pension provider for this information.

### Pillar I

Table SE11 shows average annual returns for default investors and those who opted out of the default. The average fee for the default fund and for “active” investors in 2020 is 0.08% and 0.26%, respectively.

<sup>276</sup> The Swedish earned income tax credit is a refundable tax credit for all individuals aged below 65.

<sup>277</sup> Financial year 2020:

<https://www.skatteverket.se/privat/skatter/beloppochprocent/2020.4.7eada0316ed67d728238ec.html#h-Skiktgrans>



Since the start of the premium pension in 2000, the default fund has on average performed better than the average “active” investor. The average annual real return for the default fund and “active” investors amounts to 6.95% and 4.18% respectively. It is important to remember that the “active” investors also include inert investors, i.e., investors that at some point made active contributions but then remained passive. The average returns for the “truly” active investors are therefore underestimated. In fact, Dahlquist et al. (2016) find that investors who are actively involved in managing their pension accounts earn significantly higher returns than passive (inert) investors.

The level of activity has changed significantly since the launch of the Premium Pension in year 2000. A total of 67% of those who entered the system in year 2000 chose their own portfolio of funds. Among those, as many as 32% have not made any subsequent choice. This can be compared with individuals that joined the system in 2010, for example. Of those only 1.6% opted out of the default in the first year. Five years later only 10% had made an active choice. The fact that the default fund on average has outperformed the active investors in most years is probably one explanation why an increasingly larger share chooses to stick with this option.

**Table SE11. Average return (%) on Capital in the Premium Pension System**

Year	AP7 Sâfa (default)			Other funds		
	Nominal	After charges	Net return	Nominal	After charges	Net return
2001	-27,3	-27,41	-29,65	-33,3	-33,9	-35,9
2002	18,4	18,25	16,31	17,3	16,7	14,8
2003	10,1	10,00	8,05	8,1	7,6	5,7
2004	24,9	24,78	23,66	33,0	32,4	31,2
2005	10,5	10,38	9,02	12,9	12,3	11,0
2006	4,6	4,49	2,99	6,0	5,6	4,1
2007	-36,1	-36,26	-37,84	-33,4	-33,8	-35,4
2008	35,0	34,84	32,03	34,5	34,1	31,3
2009	14,6	14,43	11,32	11,3	10,9	7,9
2010	-10,7	-10,85	-12,70	-10,8	-11,1	-13,0
2011	17,6	17,41	16,90	10,2	9,8	9,3
2012	31,8	31,72	30,36	16,8	16,4	15,2
2013	28,9	28,79	28,32	17,0	16,6	16,2
2014	6,3	6,16	5,87	6,5	6,2	5,9
2015	15,2	15,06	14,21	8,6	8,3	7,5
2016	15,2	15,09	13,13	8,6	8,3	6,4
2017	16,4	16,30	14,32	10,5	10,2	8,3
2018	-2,7	-2,79	-4,84	-3,8	-4,1	-6,1
2019	32,2	32,11	29,85	27,6	27,3	25,2
2020	4,4	4,3	3,7	8,0	7,7	7,1
<b>AVG</b>	<b>9,0</b>	<b>8,8</b>	<b>7,13</b>	<b>6,1</b>	<b>5,7</b>	<b>4,03</b>

*Source:* The Swedish Pensions Agency; Note: methodology to calculate net returns and annualized averages changed slightly compared to previous editions

The two tables below summarise the annualized averages in the Swedish Premium Pension System based on standardised holding periods (1 year, 3 years, 7 years, 10 years and since inception or the latest data available for this report).



**Table SE12. Standardised returns for the Premium Pension System (AP7 default)**

Holding Period	Gross returns	Net Nominal Annualized Performance	Real Net Annualized Performance
1-year	4,40%	4,32%	3,70%
3-years	10,33%	10,24%	8,62%
5-years	12,48%	12,39%	10,63%
7-years	11,95%	11,85%	10,44%
10-years	15,98%	15,87%	14,63%
Since inception	8,72%	8,59%	6,95%

*Source:* Table SE11

**Table SE13. Standardised returns for the Premium Pension System (other funds)**

Holding Period	Gross returns	Net Nominal Annualized Performance	Real Net Annualized Performance
1-year	8,00%	7,70%	7,10%
3-years	9,85%	9,57%	7,97%
5-years	9,73%	9,44%	7,73%
7-year	9,10%	8,80%	7,43%
10-years	10,72%	10,40%	9,23%
Since inception	6,18%	5,77%	4,18%

*Source:* Table SE11

These two tables (which reiterate data from the summary returns table at the beginning) are meant to provide better comparability with other pension vehicles in the countries analysed in this report.

## Pillar II

Table SE12 shows returns for the occupational pension system. The first column shows the average return over the last 3 years. The next three columns display the nominal return, the nominal return net of charges, and the real return (net of charges and inflation) for year 2018, respectively. The inflation (measured by CPI) in 2020 was 0.6 percent.<sup>278</sup> In 2020, a year characterized by the Corona pandemic (initial stock market downturn and subsequent recovery), the unit-linked insurance funds have yielded better returns than the traditional insurance funds. The 3-year average of unit-linked insurance is also higher than the 3-year average of traditional insurance.

<sup>278</sup> <https://ec.europa.eu/eurostat/web/products-datasets/product?code=tec00118>



Table SE14. Return on capital, 2nd pillar, %

ITP1				
Traditional insurance	Av. return 3 yrs	Return 2020	Net of charges	Net return
Alecta (default)	7,8%	6,9%	6,8%	6,2%
Folksam	9,5%	6,9%	6,7%	6,1%
AMF	9,4%	8,9%	8,7%	8,1%
SEB	3,7%	3,2%	3,1%	2,5%
Skandia	5,9%	3,2%	3,0%	2,4%
<b>Unit-linked insurance</b>				
Futur Pension	11,7%	2,8%	2,6%	2,0%
Handelsbanken	14,8%	13,5%	13,4%	12,8%
Movestic	13,6%	10,7%	10,5%	9,9%
SPP	11,8%	5,0%	4,9%	4,3%
Swedbank	15,4%	11,7%	11,5%	10,9%
SAF-LO				
Traditional insurance	Av return 3yrs	Return 2020	Net of charges	Net return
Alecta	7,8%	6,9%	6,7%	6,1%
AMF	9,7%	7,1%	7,0%	6,3%
Folksam	9,8%	12,0%	11,9%	11,3%
AMF (default)	9,7%	8,9%	8,8%	8,1%
SEB	3,2%	3,2%	3,1%	2,5%
<b>Unit-linked insurance</b>				
AMF	10,3%	7,1%	6,9%	6,3%
Folksam LO	13,6%	12,0%	11,6%	11,0%
Futur Pension	11,4%	2,5%	2,2%	1,6%
Handelsbanken	13,1%	11,1%	10,7%	10,0%
Länsförsäkringar	11,3%	5,9%	5,7%	5,1%
Movestic	12,6%	11,8%	11,4%	10,7%
Nordea	10,6%	5,0%	4,6%	4,0%
SEB	10,6%	6,7%	6,4%	5,7%
SPP	11,6%	5,0%	4,7%	4,1%
Swedbank	15,6%	12,3%	12,0%	11,4%
PA-16 - Avd I				
Traditional insurance	Av return 3yrs	Return 2020	Net of charges	Net return
Alecta	7,8%	6,9%	6,7%	6,1%
AMF	10,3%	8,9%	8,8%	8,1%
Kåpan (default)	8,0%	6,6%	6,5%	5,9%



### Unit-linked insurance

AMF	10,3%	7,1%	6,9%	6,3%
Futur Pension	10,4%	2,2%	1,8%	1,2%
Handelsbanken	12,0%	7,0%	6,7%	6,0%
Länsförsäkringar	10,5%	3,1%	2,7%	2,1%
SEB	9,3%	2,5%	2,1%	1,5%
Swedbank	13,3%	0,0%	-0,4%	-1,0%

### AKAP-KL

Traditional insurance	Av return 3yrs	Return 2020	Net of charges	Net return
Alecta	7,8%	6,9%	6,8%	6,1%
AMF	10,3%	8,9%	8,8%	8,2%
KPA (default)	5,6%	5,1%	4,9%	4,3%
Skandia	5,9%	3,2%	3,2%	2,6%
<b>Unit-linked insurance</b>				
AMF	10,3%	7,1%	6,9%	6,3%
Folksam LO	13,5%	12,3%	12,0%	11,4%
Futur Pension	10,4%	2,2%	1,8%	1,2%
Handelsbanken	12,0%	7,1%	6,8%	6,2%
KPA Pension	13,2%	9,5%	9,2%	8,6%
Länsförsäkringar	10,4%	3,1%	2,8%	2,2%
Lärfarfonder	12,7%	11,5%	11,2%	10,5%
Nordea	10,6%	4,9%	4,5%	3,9%
SEB	11,3%	4,1%	3,8%	3,2%
Swedbank	17,8%	22,3%	22,0%	21,4%

Source: The Swedish Consumers' Insurance Bureau 2020

Based on the data published by the Swedish Consumers' Insurance Bureau and collected by BETTER FINANCE through this report since the 2017 edition (end of 2016), the authors were able to start aggregating annual return information (based on unweighted averages) for the Swedish second pillar:



Table SE15. Return on capital, 2nd pillar, % (annual)					
AVG	2020	2019	2018	2017	2016
<b>ITP1</b>					
10%	7%	24%	0%	11%	9%
<b>SAF-LO</b>					
10%	8%	27%	-2%	10%	10%
<b>PA-16 - Avd I</b>					
10%	6%	27%	-3%	11%	11%
<b>AKAP-KL</b>					
11%	8%	27%	-2%	11%	10%

*Source:* Table SE14

What we can observe is that, although the different categories of vehicles under the Swedish occupational pensions pillar have different pension products (in sizes and numbers), the returns are very similar from one year to another, as such the average on the last five years (2016 – 2015) are almost the same.

## Conclusion

The Swedish pension system is considered robust and sustainable. The balancing of the income-based system contributes to preserving the system's debt balance and secures the long-term nature of the system. The premium pension, which is a system unique to Sweden, also contributes towards spreading the risk in the system and enhancing the return on capital by enabling people to place part of their national pension capital on the stock market. As a result of the change in the Swedish pension system, individual responsibility will increase, and the occupational pension will constitute a bigger part of the total pension in the future.

The occupational pension system in Sweden covers more than 90 percent of the working population. The collectively negotiated pension schemes are procured for a large number of workers, which leads to lower costs, and more transparent pension plans. Individual occupational pension plans and third-pillar pension accounts are, however, often characterized by higher management fees, deposit fees and less transparency.

The statistics on net returns in the second and third pillar pension plans are quite cumbersome to collect. The Swedish Consumers' Insurance Bureau reports fees and returns in most pension plans, but there is no immediately available information on net returns. It is also difficult to calculate historical returns in the second pillar because the set of funds that the retirement savers can choose from might change, for example due to procurement.

A source of concern is that the pension system is becoming increasingly complex. The number of occupational pension plans per individual is increasing both because job switches across sectors become more common and because pension capital can be moved between companies. The ongoing transitions between old and new occupational pension plans also contribute to the increased complexity of the second pillar. All three pillars also contain many elements of individual



choice both during accumulation and decumulation phase. Pension systems that are too complex risk leading to inertia and distrust, which in turn could lead to worse saving and retirement outcomes. Well-designed default fund options with low fees and appropriate risk exposure as well as comprehensive, user-friendly information/choice centres are necessary features in a complex pension system.

Although the Swedish pension system is considered robust and sustainable there is reason to be concerned. As life expectancy increases, the gap between wages and pensions will increase. The total pension amount for people born between 1938 and 1946 shrank from 86 % to 77 % of the final salary. And the public pension, which every Swedish citizen with a salary or another taxable benefit is entitled to, shrank from 61 % to 49 % of the final salary for the same age groups. The average exit age from the labour force has been increasing ever since the new public pension system was implemented in the late 1990s and is currently 64. However, the average claiming age has been fairly constant.<sup>279</sup> The combination of constant claiming age, later labour force entry among youths, and indexation of pension benefits to life expectancy unavoidably means lower pension benefits. The occupational pension makes up an important component of old-age income. Occupational pensions constitute 28% of outgoing pension payments and play a relatively more important role for high-income earners. The occupational pension coverage is high in Sweden (>90% of employees), but certain groups on the labour market that are already at risk of receiving a low pension (such as gig workers, self-employed and immigrants) are often not eligible.

To encourage later retirement, policy makers have agreed to raise various retirement ages in a stepwise manner. By 2026, the minimum claiming age, the eligibility age for the minimum guarantee, and the mandatory retirement are expected to have increased to 64, 67 and 69, respectively (currently at 62, 65 and 68, respectively). The 65-norm is still strong in the second pillar, however. Pensions are usually paid out automatically at this age, and pension rights are in most cases not earned after this age. As replacement rates fall, individuals also need to take more responsibility for their private pension savings. This makes accessible good pension savings products with low fees even more important.

## Policy recommendations:

- Expand the portability right of second pillar pension capital.
- Improve information on historical net returns and other fund characteristics in second and third pillar pension plans.
- The digital pension tool [www.minpension.se](http://www.minpension.se) makes it possible for individual retirement savers to collect information on their total pension savings. A useful extension would be to allow users to execute their pension fund choices from this site.

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<sup>279</sup> This is mainly due to reduced disability pension rates (through stricter eligibility rules), which affects the exit age but not necessarily the claiming age if people claim their pension instead. Another explanation is that individuals who work past the age of 65 do not postpone the withdrawal of their pension.



- Replace automatic payment of occupational pensions at a certain age (usually 65) with a claiming requirement (as in the public pension system). Alternatively, raise the automatic payment age to 68 or higher.

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