

What's good to know for your personal financial & retirement planning

Information events for Novartis associates

30 March / 1 June 2023

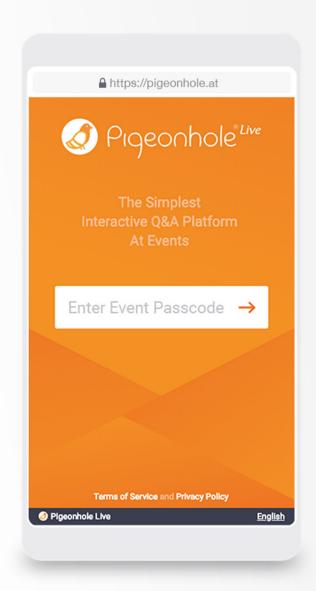


Agenda

- Flexibility is key: The Novartis pension plans in Switzerland
 - The Novartis defined contributions concept at a glance
 - Retirement credits: 3 contribution scales to choose from
 - Investment allocation: 4 basic strategies for your selection
 - New: «Sustainable» investment strategy as a 5th option
 - The LifeCycle model as a 6th strategy: The way it works



- Presentation Vermögenszentrum (VZ)
 - Key factors of the risk structure
 - Impact of the risk structure
 - Payout of retirement benefits



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Flexibility is Key: The Swiss Pension Plans

- The retirement credits are age-related, with members being able to choose between three contribution scales ("Standard", "Standard Minus" and "Standard Plus").
- The funding arrangements are based on a 2:1 ratio of employer and employee contributions (if the "Standard" contribution scale is chosen).
- Early retirement (also partially) is possible from age 60 onwards.
- An additional savings plan has been set up for all insured members aged 40 or older, based on equal contributions from associates/employer.
- At retirement, insured members may select a **lifelong survivor's pension** for their partner in the same amount as the retirement pension ("joint life" annuity).

Flexibility is Key: The Swiss Pension Plans (2)

- **Investment strategy:** If your insured salary is partly covered in Pension Fund 2, then for your Pension Fund 2 retirement account you can choose from a variety of investment options.
- To make this possible, the Novartis Pension Fund had to be split into two separate legal entities, i.e., the **Pension Fund 1** and **Pension Fund 2**.
- As from January 2016, the Management Pension Fund also offers a choice of contribution scales and investment strategies.

150,000

The Novartis defined contributions concept at a glance

Novartis Pension Fund 2 (PF 2)

- Standard contributions of employer and insured members in ratio 2: 1
- Savings process in defined contributions plan (interest = investment performance)
- · Retirement benefits: lump sum
- Risk benefits (death/disability): accrued capital, at least 400% of insured salary
- Individual choice of investment strategy

Novartis Pension Fund 1 (PF 1)

- Standard contributions of employer and insured members in ratio 2: 1
- Savings process in defined contributions plan (minimum interest 0%)
- Retirement benefits: pension with sustainable conversion ratio / higher lump sum option (max. 50%)
- Risk benefits (death/disability) in the form of a pension
- Additional savings plan from age 40

3 contribution scales to choose from

e.g., Pension Fund Novartis 1

Age	Retirement credits ("Standard") % of insured salary			Standard plus	Standard minus
	Member	Novartis	Total	Member	Member
25 – 29	4.25	8.50	12.75	6.25	2.25
30 – 34	4.90	9.80	14.70	6.90	2.90
35 – 39	5.55	11.10	16.65	7.55	3.55
40 – 44	6.20	12.40	18.60	8.20	4.20
45 – 49	7.50	15.00	22.50	9.50	5.50
50 – 54	8.15	16.30	24.45	10.15	6.15
55 – 59	8.80	17.60	26.40	10.80	6.80
60 – 65	9.45	18.90	28.35	11.45	7.45

A further credit of **3.50%** applies to all members aged 40 and over. This is paid into an **additional savings plan** within Pension Fund 1. Half of this amount (i.e., 1.75%) is contributed by Novartis and half by members. Further contributions are paid by members and by Novartis towards **risk benefits** (disability & death)



Asset allocation: 4 basic strategies for selection

	Money Market	Bonds Plus	Equity 25 Plus	Equity 40 Plus
Cash	100.0%			
	100.0%			
Fixed income		80.0%	60.0%	45.0%
Bonds CHF Foreign		10.0%	10.0%	5.0%
Bonds Global (hCHF)		50.0%	30.0%	30.0%
Corporate Bonds Global (hCHF)		20.0%	20.0%	10.0%
Equity			25.0%	40.0%
Equity Switzerland			5.0%	10.0%
Equity World			17.0%	20.0%
Equity World (hCHF)				5.0%
Equity Emerging Markets			3.0%	5.0%
Real Estate		20.0%	15.0%	15.0%
Real Estate Switzerland		20.0%	15.0%	10.0%
Real Estate World (hCHF)				5.0%
Total	100.0%	100.0%	100.0%	100.0%
FX Exposure	0.0%	0.0%	20.0%	25.0%



New: Sustainable investment strategy Background

- The Pension Fund Novartis (PF1) was among the early adopters of the idea to introduce Environmental, Social & Governance (ESG) criteria to its investment strategy almost 20 years ago.
 - The current ESG guidelines are available on the Pension Funds' website:
 https://www.pensionskassen-novartis.ch/fileadmin/pkn/Diverses/E_Anlagerichtlinien.pdf
- With regard to Pension Fund Novartis 2 (PF2), all of the current strategies (Money Market, Bonds Plus, Equity 25 Plus, Equity 40 Plus and LifeCycle Plus) are in conformity with the exclusion list of the Swiss Association for Responsible Investments (SVVK-ASIR).
- In May 2020, we complemented the existing selection with an additional, specifically designed «ESG Strategy», sporting similar risk-return characteristics as the Equity 25 Plus investment option.

Sustainable investment strategy

«Equity 25 ESG» as a 5th investment option

- The **UBS AST 2 BVG Equity 25** ESG investment option joins the existing range of strategies (Money Market, Bonds Plus, Equity 25 Plus, Equity 40 Plus and LifeCycle Plus) as an additional, particularly sustainable variant.
 - The underlying asset classes of the new strategy follow a multiple research **screening process** in order to make a meaningful contribution to a more sustainable world.
 - The applied **sustainability policies** exclude certain companies and prefer companies with a high ESG score and with a strong climate awareness
 - ... and seek to vote consistently in line with recognized ESG-principles.
- The new Equity 25 ESG investment option has a very similar risk/return profile as the existing Equity 25 Plus strategy,
 - ... with only slightly higher Total expense ratio (TER) and switching costs (dilution levies).

Sustainable investment strategy «Equity 25 ESG»: Comprehensive policy / approach

	ESG - Approach							
Index	Exclusions	Climate focus	Sustainability	ESG voting	GRESB			
MSCI Switzerland IMI Socially Responsible	✓		✓	√				
Equities Global Climate Aware	✓	✓	✓	√				
MSCI Emerging Markets Socially Responsible	✓		√	√				
Global Bonds Climate Aware	✓	✓						
Global Corporate Bonds Climate Aware	✓	✓	✓					
Swiss Real Estate Securities Selection Passive					✓			

Climate Focus: Meaningful carbon reduction and aligned to forward-looking carbon reduction targets

Sustainability: Strategies with sustainability/SI policies playing a significant role in the investment process

ESG-Voting: Seek to vote consistently and in line with UBS governance principles across all portfolios

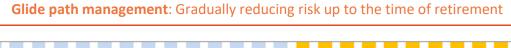
GRESB: Independent organization committed to assessing the environmental, social and governance performance of real estate portfolios across the world. GRESB is now recognized as the leading global sustainability benchmark.

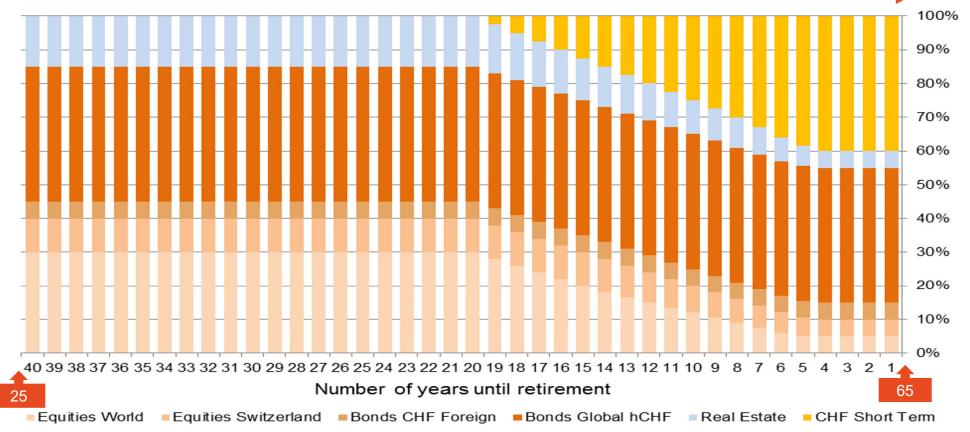


"LifeCycle"-Model as a 6th strategy

- The **LifeCycle** solution works like a kind of "autopilot" that automatically factors in the investment horizon and risk.
- The fundamental concept is based on the assumption that the capacity to cope with investment volatility generally decreases the closer one gets to retirement.
- For this reason, the portion of Equities in the portfolio is gradually reduced.
- In view of a smooth implementation, focus was on simplicity:
 - Build-up based on the same indexed funds as already used by PF2 and MPF
 - Favorable pricing conditions
 - Reasonably staggered age-brackets so as not to unnecessarily complicate the setup (5-year "vintages" rather than 1 or 10-year spreads)

"LifeCycle"-Model: The way it works







VZ VermögensZentrum

Speaker



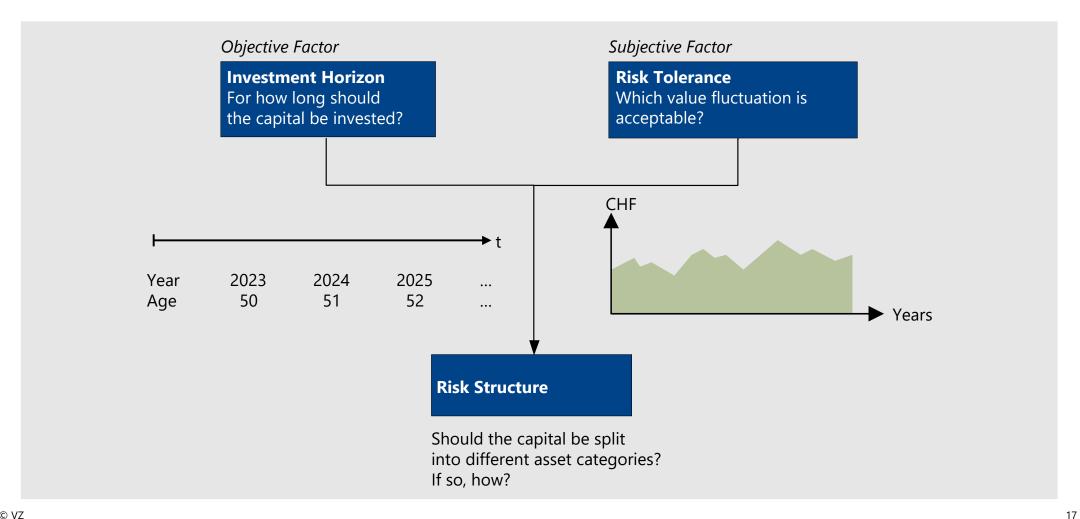


Karl Flubacher, Executive Board Member

Karl Flubacher, MA in Economics and Business Administration, is Associate Partner at VZ VermögensZentrum. He regularly gives public and company-internal seminars. He specializes in sophisticated retirement and inheritance planning strategies.

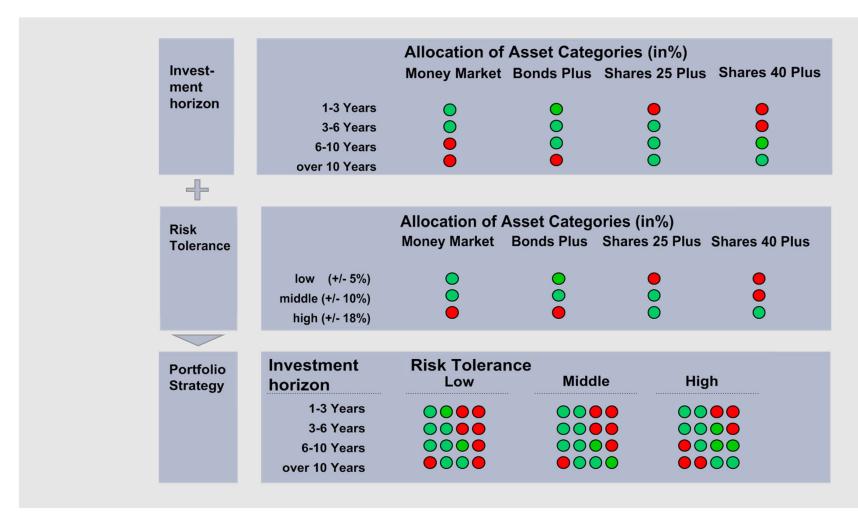
Definition of Risk Structure





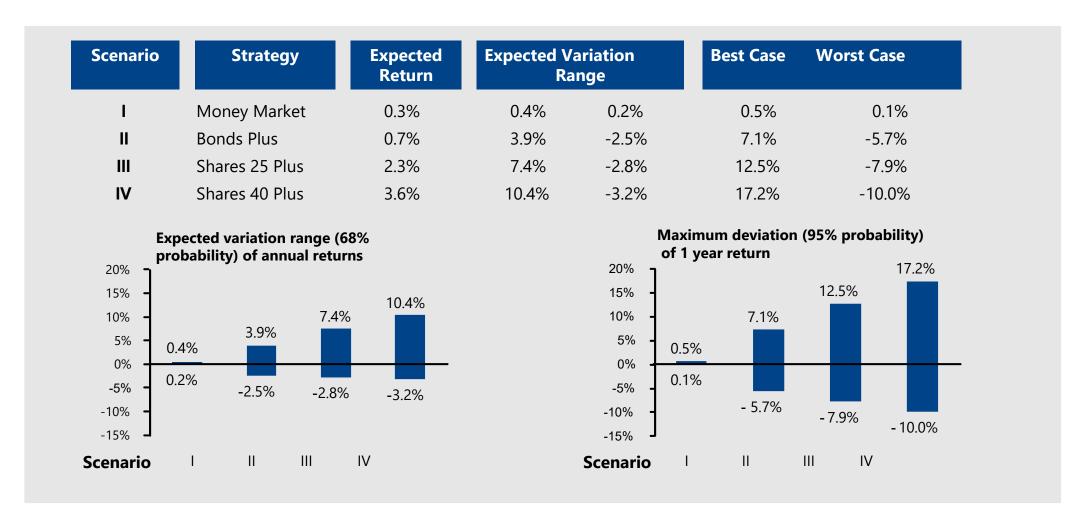












Impact on Expected Return and Risk



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in CHF

	nario Asset ucture	Expected ¹⁾ Return	Risk	Expecta Positive	itions ³⁾ Negative	Maximum De Best Case	eviation ⁴⁾ Worst Case
		Ketarri	Expectancy ²	1 OSITIVE	rregutive	Best ease	Worst case
ı	Money Market	+ 0.3%	+/- 0.1%	+ 0.4%	+ 0.2%	+ 0.5%	+ 0.1%
		+ 300 CHF	+/- 100 CHF	+ 400 CHF	+ 200 CHF	+ 500 CHF	+ 100 CHF
Ш	Bonds Plus	+ 0.7%	+/- 3.2%	+ 3.9%	- 2.5%	+ 7.1%	- 5.7%
		+ 700 CHF	+/- 3.200 CHF	+ 3.900 CHF	- 2.500 CHF	+ 7.100 CHF	- 5.700 CHF
III	Shares 25 Plus	+ 2.3%	+/- 5.1%	+ 7.4%	- 2.8%	+ 12.5%	- 7.9%
		+ 2.300 CHF	+/- 5.100 CHF	+ 7.400 CHF	- 2.800 CHF	+ 12.500 CHF	- 7.900 CHF
IV	Shares 40 Plus	+ 3.6%	+/- 6.8%	+ 10.4%	- 3.2%	+ 17.2%	- 10.0%
		+ 3.600 CHF	+/- 6.800 CHF	+ 10.400 CHF	- 3.200 CHF	+ 17.200 CHF	- 10.000 CHF
Inves	tment Capital	100.000 CHF					

¹⁾ Expected long-term mean return per year

²⁾ Expected fluctuation margin per year, based on standard deviation, viz. in 68% of all cases observed

³⁾ Expected return after one year with standard deviation (68% of all values observed)

⁴⁾ Expected return after one year with 2 standard deviation (95% of all cases observed)





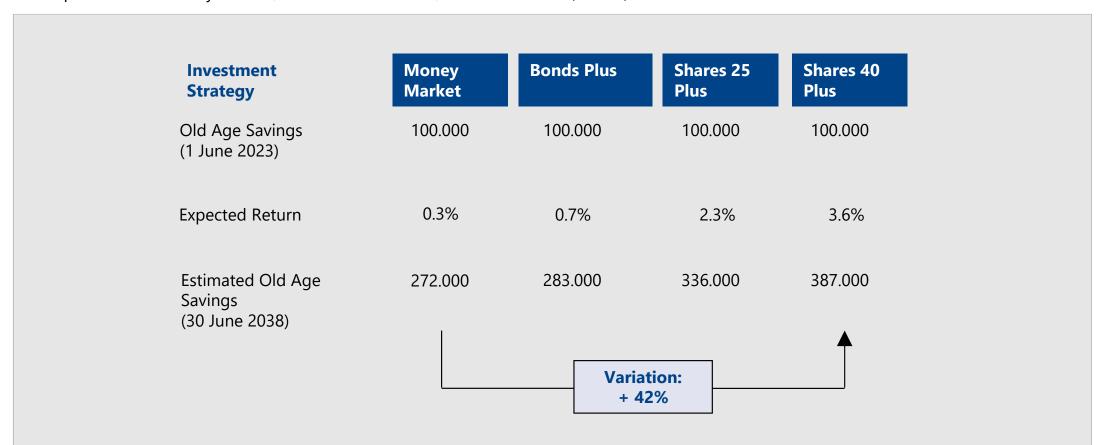
Source: MSCI World Total Return Index (in CHF) for all 1-, 3-, 5-, 8-, 10-, 12- and 15-year time series, from 31 Dec. 1972 until 31 Dec. 2022

Return p.a.	1 Year	3 Years	5 Years	8 Years	10 Years	12 Years	15 Years	
> 16%	42.0%	22.9%	13.0%	7.0%	4.9%	0.0%	0.0%	
12-16%	2.0%	18.8%	19.6%	11.6%	14.6%	15.4%	16.7%	
8-12%	10.0%	0 10.4% 54.2	21.7%	3 0.2%	81.3 34.1% 82.9	35.9%	92.3 25.0%	97.3
4-8%	8.0%			% 18.6%	% 22.0% %	25.6%	% 30.6%	
0-4%	6.0%	8.3% J	8.7%	20.9%	ا 12.2%	15.4%	25.0%	J
< 0%	32.0%	22.9%	21.7%	11.6%	12.2%	7.7%	2.8%	
				10- negati	1972, there have been year-periods, in which ive performance appearant one was 2002-201			





Assumption: Person is 50 years old, income 200.000 CHF; retirement at 65 (in CHF)

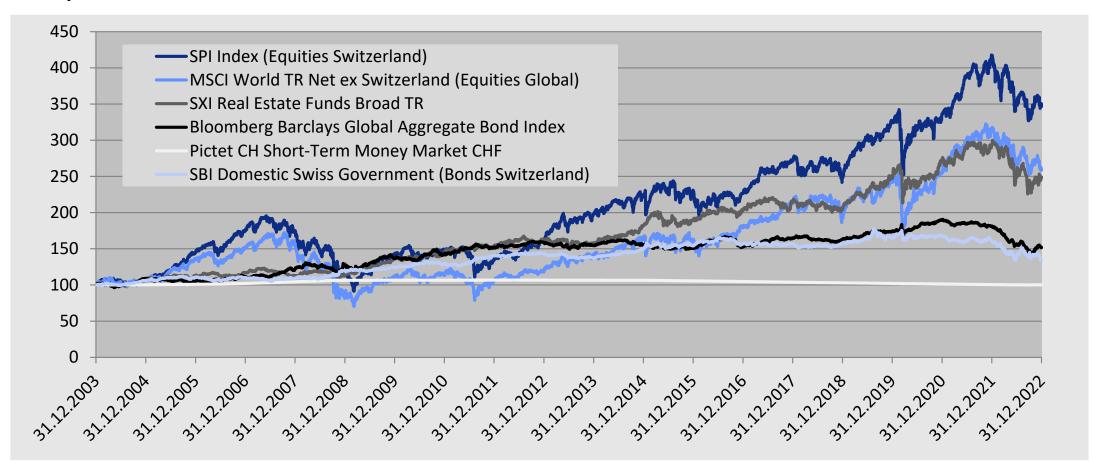


Benchmarking



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Development of selected indices (from 31 December 2003 to 31 December 2022; in CHF)



Source: Bloomberg

Pension or Lump Sum: Comparison of Criteria



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Pension

Security High security

Flexibility No flexibility

Pension Pay-out according to pension

scheme regulations

According to pension scheme

Taxes

• Pay-out Not applicable, no pay-out

Pension 100% taxable

Pensio

Inflationary Compensation

Coverage widow 60% of old age pension¹⁾

Surviving depend No entitlement

Lump Sum

Security depends on asset allocation

High flexibility

3-6% return / remuneration, according to income-concept

Non-recurring taxation 3-11% (BS) Non-recurring taxation 3-10% (BL) Remuneration (from 0%) up to 100% taxable, according to income-concept

According to individual planning

Up to 100% of income²⁾

According to inheritance law, testament

¹⁾ Statutory regulation; deviations possible depending on pension scheme

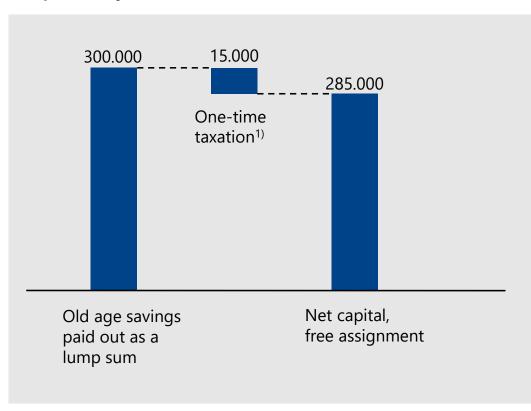
²⁾ On condition of most-favoured treatment for widow / widower

Tax Treatment of Old Age Savings (in CHF)

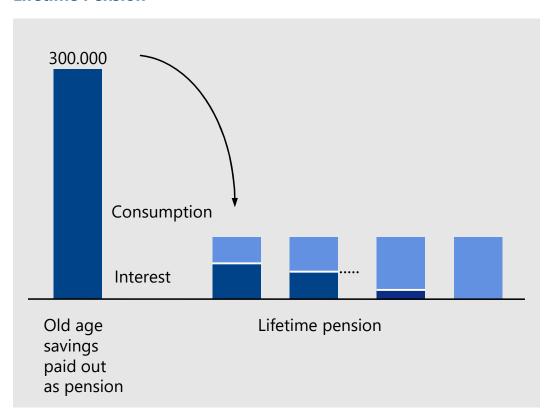


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Lump sum Payment



Lifetime Pension²⁾



¹⁾ Taxation separated from residual income with reduced rate of taxation (cantonal differences)

²⁾ Taxation together with residual income (cantonal differences in income tax rate)

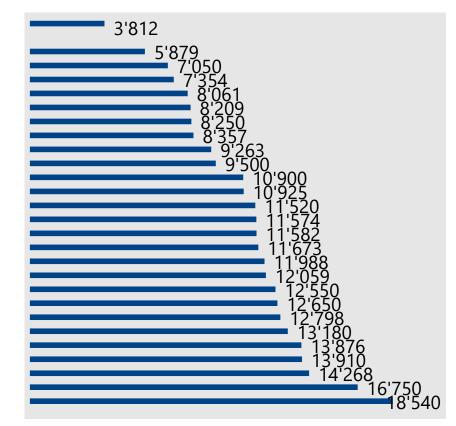




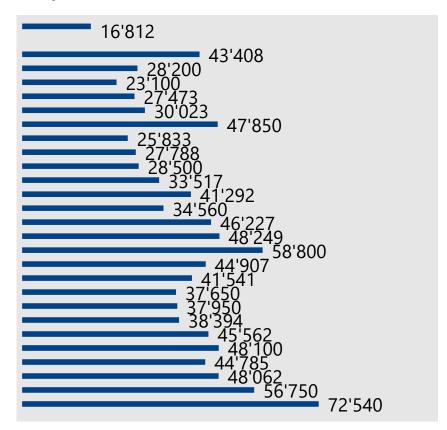
Example: Person is married, 65 years old, domiciled in...

Lump Sum: 250.000 CHF

Federal Tax Canton SZ GR Schwyz Chur Appenzell Schaffhausen SH Zug ZG Liestal BLNW Stans Altdorf UR Bellinzona ΤI ZΗ Zürich Geneva GE GL Glarus Lausanne VD ΒE Berne VS Sion ΑG Aarau SO SG Solothurn St. Gallen TG Frauenfeld OW Sarnen Lucerne LU Herisau ARDelémont NE Neuchâtel BS Basel Fribourg FR

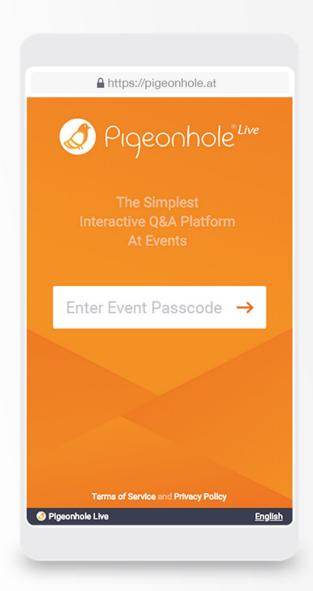


Lump Sum: 750.000 CHF



Your questions!





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Thank you



Pension Funds Novartis

Back up



Overview of contributions

Age	Savings Contribution ¹		Risk Con	Risk Contribution ²		Additional Savings Plan Contributions ³		Total Contributions	
	Employee ⁴	Employer	Employee	Employer	Employee	Employer	Employee ⁴	Employer	
up to 25	-	-	0.5%	1.0%	-	-	0.50%	1.00%	
25-29	4.25	8.50	0.6%	1.2%			4.85%	9.70%	
30-34	4.90	9.80	0.6%	1.2%			5.50%	11.00%	
35-39	5.55	11.10	0.6%	1.2%			6.15%	12.30%	
40-44	6.20	12.40	0.6%	1.2%	1.75%	1.75%	8.55%	15.35%	
45-49	7.50	15.00	0.6%	1.2%	1.75%	1.75%	9.85%	17.95%	
50-54	8.15	16.30	0.6%	1.2%	1.75%	1.75%	10.50%	19.25%	
55-59	8.80	17.60	0.6%	1.2%	1.75%	1.75%	11.15%	20.55%	
60-65	9.45	18.90	0.6%	1.2%	1.75%	1.75%	11.80%	21.85%	

¹ on insured salary PK1 (base salary plus incentive minus social security offset) up to CHF 150k

² on insured salary risk (base salary minus social security offset) up to CHF 220k base salary

³ on total insured salary (base salary plus incentive minus social security offset) up to CHF 220k base salary

⁴ indicates standard contribution; employees can chose to contribute 2% more or 2% less

Overview of benefits

Age	Death	Disability
Lifelong retirement pension Conversion rate at age: -65: 5.00% -64: 4.85% -63: 4.72% -62: 4.60% -61: 4.48% -60: 4.36% of the accrued retirement plan assets. Lump-sum pay-out instead of pension, up to max. 50% possible (time limit 3 months before retirement) Retirement child pension - 20% of retirement pension up to age 20/25 Available savings plan assets may be - used to finance a bridging pension until to statutory (AHV) retirement age (temporary retirement pension) or - paid out as a one-off retirement lump sum.	Spouse's or domestic partner's pension for active insured members: • 60% of insured/current disability pension for retirement pension recipients: • 60% of retirement pension or, with the survivor's pension option, 100% of retirement pension Orphan's pension • 20% of insured or current disability or retirement pension up to age 20/25 Lump sum on death Active insured members: • 200% of insured disability pension • plus accrued savings plan assets • plus assets transferred from incentive/bonus and shift insurance on 1.1.2011 • plus voluntary extra contributions since 1.1.2011 paid into retirement and savings account • minus early withdrawals WEF / divorce transfers • minus retirement/disability benefits already paid out	Disability pension 60% of insured salary Risk up to age 65 From age 65 onwards: conversion of accrued retirement assets, based on the current conversion rate (at present 5.00%) Disability child pension 20% of disability pension, up to age 20/25 Disability lump sum (with 100% disability) Accrued savings plan assets



Overview of contributions

Age	Savings Contribution ¹		Risk Con	tribution ²	Total Contributions		
	Employee ³	Employer	Employee	Employer	Employee ³	Employer	
up to 25		_	0.4%	0.8%	0.40%	0.80%	
25-29	3.50%	7.0%	0.4%	0.8%	3.90%	7.80%	
30-34	4.00%	8.0%	0.4%	0.8%	4.40%	8.80%	
35-39	4.50%	9.0%	0.4%	0.8%	4.90%	9.80%	
40-44	5.00%	10.0%	0.4%	0.8%	5.40%	10.80%	
45-49	6.25%	12.5%	0.4%	0.8%	6.65%	13.30%	
50-54	6.75%	13.5%	0.4%	0.8%	7.15%	14.30%	
55-59	7.25%	14.5%	0.4%	0.8%	7.65%	15.30%	
60-65	7.75%	15.5%	0.4%	0.8%	8.15%	16.30%	

¹on insured salary PK2 (base salary plus incentive minus CHF 150k) up to 220k base salary

³indicates standard contribution; employees can chose to contribute 2% more or 2% less





²on insured salary PK2 (base salary plus incentive minus CHF 150k) up to 220k base salary

Overview of benefits

Retirement	Death	Disability
Lump sum on retirement	Lump sum on death	Lump sum on disability
 Assets available at the time of retirement 	 Assets available at the time of death, 	 Assets available at the time when the disability pension starts,
	 at least 400% of insured salary 	 at least 400% of insured salary

Management Pension Fund: A top-up plan

> CHF 220 000

CHF 150 - 220 000

Risk CHF 0

220 000

Savings CHF 0 - 150 000

Novartis Management Pension Fund (MPF)

- Standard contributions of employer and insured members in ratio 2 : 1 (choice from 3 different contribution scales for members' contributions)
- Savings process in defined contributions plan (interest according to investment performance)
- Retirement benefits: lump sum
- Risk benefits (death/disability) in the form of a pension
- Individual choice of investment strategy

Novartis Pension Fund 2 (PF 2)

- Standard contributions of employer and members in ratio 2 : 1 (choice from 3 different contribution scales for members' contributions)
- Savings process in defined contributions plan (interest according to investment performance)
- Retirement benefits: lump sum
- Risk benefits (death/disability): accrued capital, at least 400% of insured salary
- Individual choice of investment strategy

Novartis Pension Fund 1 (PF 1):

- Standard contributions of employer and insured members in ratio 2 : 1 (choice from 3 different contribution scales for members' contributions)
- Savings process in defined contributions plan (minimum interest 0%)
- Retirement benefits: pension with sustainable conversion ratio / lump sum option (up to 50% of accrued capital)
- Risk benefits (death/disability) in the form of a pension
- Additional savings plan from age 40

Example

Paula Powell earns CHF 240'000 and received an incentive of 20%, so her total earnings are CHF 288'000.

She is covered in Pension Fund 1 for the maximum (i.e. CHF 150'000 less coordination offset) and in Pension Fund 2 for CHF 70'000.

The Management Pension Fund covers her salary above CHF 220'000, i.e. CHF 68'000 (incl. incentive)

Pension Funds Novartis

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Reimagining Medicine

"Dilution Protection" (Transaction Fee)

as per January 2023

- Changing the strategy means that the portfolio manager has to buy and sell positions accordingly.
- The rebalancing costs are the higher the more often such transactions take place.
- Without an appropriate compensating mechanism, the costs are borne by all investors, affecting their performance.
- The dilution levies shall protect the existing investors by allocating the transaction costs to those who cause them (cost-by-cause principle).

Money Market	0.00 % / 0.00% (in/out)
 Bonds Plus 	0.24 % / 0.09 % (in/out)
 BVG Equity-25 Plus 	0.21 % / 0.08 % (in/out)
BVG Equity- 25 ESG	0.25 % / 0.11 % (in/out)
 BVG Aktien-40 Plus 	0.14 % / 0.06 % (in/out)
LifeCycle Plus 2020 - 2035	0.17 % / 0.06 % (in/out)
 LifeCycle Plus 2040 - 2060 	0.13 % / 0.06 % (in/out)

Performance Overview

Performance / Strategie	FY 2021	Q1 2022	Q2 2022	Q3 2022	FY 2022	YTD Jan 2023	YTD Feb 2023
Money Market	-0.78%	-0.23%	-0.54	-0.68	-0.63%	0.04%	0.07%
Bonds Plus	-0.41%	-5.33%	-11.39	-14.65	-14.03%	1.73%	0.46%
Equities 25 Plus	5.11%	-5.24%	-12.67	-16.02	-14.74%	2.93%	1.68%
Equities 25 ESG *	4.70%	-5.56%	-13.76	-17.79	-16.52%	3.16%	1.65%
Equities 40 Plus	8.60%	-4.62%	-12.17	-15.48	-13.97%	3.30%	2.02%
LifeCycle Plus 2025	1.45%	-3.46%	-7.73	-10.02	-9.17%	1.67%	0.77%
LifeCycle Plus 2060	8.46%	-4.59%	-12.09	-15.51	-13.97%	3.30%	2.01%
Total	3.22%	-4.53%	-10.70%	-13.74%	-12.72%	2.24%	1.11%

^{*} Inception May 2020

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At the end of 2022, DC assets amounted to CHF 570.5m (PF2) and CHF 380.6m (MPF)

[•] By then, 92 participants have selected the new Equities 25 ESG strategy (83 in PF2 / 9 in MPF)