

CERN PENSION FUND ANNUAL INFORMATION MEETING

20 October 2022

A welcome and purpose of the Annual Information Meeting

The AIM is an important part of our communication strategy. It provides members and beneficiaries with important updates and the opportunity to ask questions of the Chair and CEO.

Our presentation today will be in English. A simultaneous interpretation to French is available for this webcast

A recording of today's meeting will be available should you need to watch again later

We are unable to provide financial advice. Please contact <u>pensions.benefits@cern.ch</u> for individual questions or if you have any feedback on today's presentation



Agenda for today

- PFGB Chair's Welcome
- CEO Introduction
- Membership and Benefit Services
- Periodic Actuarial Review (2022)
- 2021 Annual Report & Financial Statements
- 6 Investment Report
- Opportunity for Questions
- Closing Remarks



PFGB Chair's Welcome

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Ossi Malmberg

Chair
Pension Fund Governing Board



The purpose of the CERN Pension Fund

Our purpose is to insure our members and beneficiaries, together with their families, against the financial consequences of disability, old age and death.

(Article 1 1.01)

The CERN Pension Fund

 As an international organisation, CERN and ESO operate their own social security system, including a pension scheme, the CERN Pension Fund.

Defined benefits

 Benefits paid are not affected by market value of investments.

A solidarity scheme

 No member has an individual balance and all benefits are paid from a common fund.



PFGB Chair's Welcome

The Governing Board represents all stakeholders of the Pension Fund and works to ensure the purpose is achieved.

Despite many significant challenges the Pension Fund continues to support its beneficiaries and in 2021 paid a total of 320 MCHF in benefits.

A Periodic Actuarial Review was completed in January 2022 and determined that the funding level has increased since 2019, however the effect of the events in 2022 has since had an impact.

The Governing Board continues to hold a dialogue with the Council and the Finance Committee concerning matters relating to Pension Fund risk, investment strategy, funding levels and operational performance.

A similar, constructive dialogue is in place with the Audit Committee and during the year the Governing Board responded to a number of thoughtful questions from AC members in areas such as ESG, controls, internal audit and investment risk limits.



Pension Fund Governing Board (at 30 September 2022)





Council (ESO / CERN)
Pensioners Association
Professional
Staff Association (E/C)



Governing Board – rotation in mandates

The Governing Board expresses its appreciation to Mr Marcus Klug and Dr Peter Hristov for their PFGB service and welcomes their appointed successors.



Mandate ended 30 April 2022 After serving two 3-year terms

Representative for ESO Council

Succeeded by Dr Thomas Groffman



Mandate ended 30 April 2022 After serving two 3-year terms

Representative for Staff Association

Succeeded by Ms Ofelia Capatina (for Staff Association) and Ms Isabelle Mardirossian (as Vice-Chair)

The Governing Board notes that Dr Andreas Glindemann (ESO Staff Association) will end his mandate on 31 October 2022 and welcomes the appointed of his successor, Mr Alain Delorme.



CEO Introduction

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Doug Heron

Chief Executive Officer CERN Pension Fund



A reminder of how your membership works

Membership is automatic with eligible contracts of employment The PFMU creates / administers your file and is the point of contact for queries Becoming a Member Benefits accumulate according to service period *x* reference salary Become a beneficiary (if older than minimum retirement age) At the end of your Become a deferred beneficiary (and take benefits later) employment Accept a transfer value (non-optional below 5 years of service) Monthly pension benefits are payable until your death When you become a Benefits reviewed each year for indexation Beneficiary Survivor benefits payable according to eligibility Insurance against death or Benefits payable to you or your survivors for eligible family scenarios disability Provisions apply for cases of early retirement; purchase of additional benefits Special transactions You can acquire rights to survivor benefits for partnerships after employment



Governance Arrangements for the Pension Fund

CERN Council

The Supreme Authority: defines the Pension Fund and its arrangements; acts as ultimate oversight body and approves significant policies or changes.

For contributions and benefits, the Council acts on recommendations from the Director-General.

Governance principles

Set out how the Fund is governed

Governing Board

Primary oversight body. Includes professional (independent) members and representatives from all key stakeholder groups. Meets quarterly to review performance of the Pension Fund.

Investment Committee / Actuarial and Technical Committee

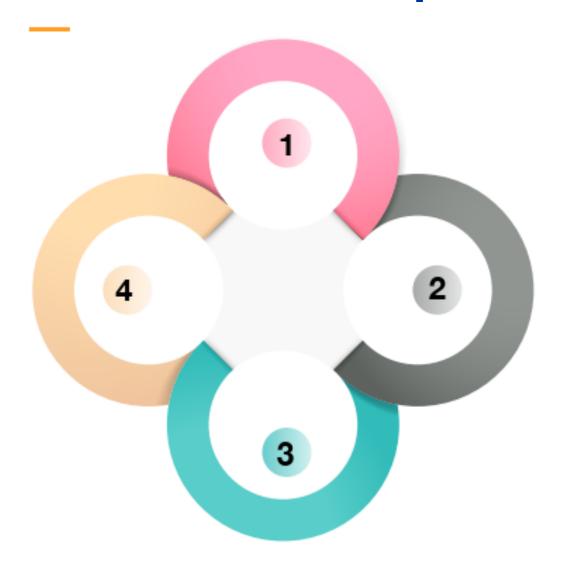
Sub-committees to the PFGB. Include experts to provide advice and guidance in technical areas.

Chief Executive Officer

Legal representative of the Fund. Analogous to CERN Department Head. Responsible for the Management Unit and all delegated activities of the Fund.



Governance Principles



- 1 The Fund is an integral part of CERN, has no separate legal personality and is under the supreme authority of the Council. The activities of the Fund are part of the official activities of CERN and benefit from privileges and immunities.
- 2 The Fund has operational autonomy within CERN and shall be managed in accordance with its Rules and Regulations. The Director-General shall have no responsibilities with respect to the management of the Fund.
- 3 The assets of the Fund shall be held separately from those of CERN and shall be used solely for the purpose of the Fund. Neither CERN nor ESO shall reclaim, borrow or impose a lien upon the assets of the Fund.
- 4 The oversight of the Fund shall be entrusted to the Governing Board, assisted and advised by the Investment Committee and Actuarial and Technical Committee. The management of the Fund shall be entrusted to the Chief Executive Officer.



The activities of managing the Pension Fund

Administering benefits

Maintaining records of eligibility

Liaising with members, beneficiaries or their survivors

Providing information and assisting with enquiries

Collecting contributions

Accounting for and collecting the contributions from members and CERN / ESO

Managing assets of the Fund

Establishing investment strategy and risk appetite

Making investments in asset classes

Monitoring performance and making interventions to achieve stable returns

Monitoring funding level

Working with the Actuary to ensure benefit promises (liabilities) are fully valued Reviewing ~100 different factors of liability risk to ensure a balanced view

Governance / leadership

Following the rules of the Pension Fund

Working with all stakeholders to ensure the Pension Fund is well managed Leading the PFMU team to ensure plans are set and goals achieved

Completing Periodic Actuarial Reviews to establish funding level



Strategic Partners

















Membership and Benefit Services

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Delivering our purpose in 2021

Our purpose is to insure our members and beneficiaries, together with their families, against the financial consequences of disability, old age and death.



Welcoming new members

498 new members. 3'961 total members.



A sentiment dashboard

Introduced monitoring of how members and beneficiaries feel about their pension



Leaving the Fund

346 leavers (323 transfer values; 23 to deferred status)



Payment of monthly benefits

Paid 320 MCHF to 3'334 beneficiaries (100% accuracy)



New beneficiaries

Established 59 new beneficiaries



Performance against SLAs

11 / 13 services rated green. 2 amber (cause: high demand and external delays)



Caring for families

Supported the families of 127 beneficiaries who sadly passed away



Membership Overview

2 Beneficiaries aged over 100

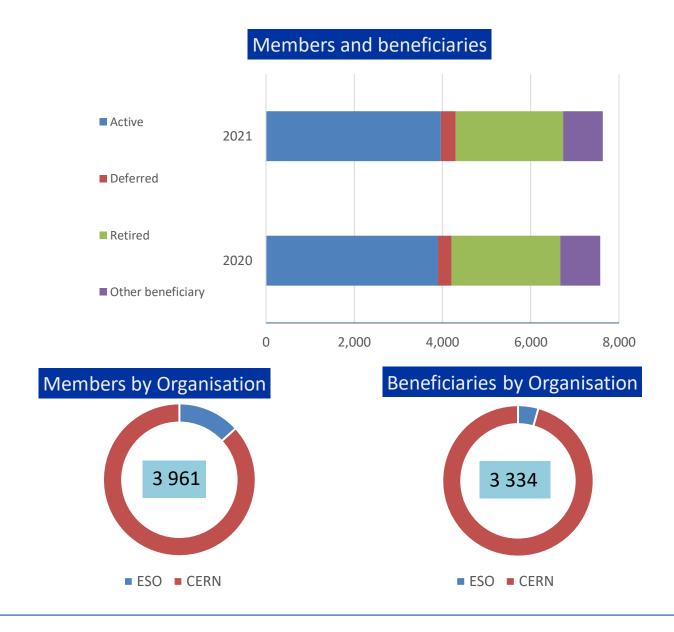
14 Beneficiaries aged under 21



Countries with beneficiaries

Million CHF paid each month

Beneficiaries in payment > 50 years





We focus on what our members need from us

Member and beneficiary feedback directly influences our priorities. We engage with GAC and Staff Association constructively and often. We maintain a Sentiment Dashboard.

The positive themes are: benefits are valued and recognised to be valuable; the service from PFMU is efficient and easy to access.

The less positive themes are: the transfer values paid on leaving < 5 years of service seem too low; the mechanism for annual indexation is a concern; payment arrangements aren't flexible enough.

We launched our Digitalisation Project in 2021 and in 2023 will be implementing a range of improvements to workflow management and document handling. The Pension Fund is committed to ensuring we anticipate member and beneficiary expectations in our service capability.

In 2022 we began a periodic review of the Factors and Parameters within the Pension Fund to ensure they remain suitable. This includes Transfer Values.



Benefits Service







pension-benefits@cern.ch

+41 22 767 8811

http://pensionfund.cern.ch

Building 5/5 (CERN)



Periodic Actuarial Review

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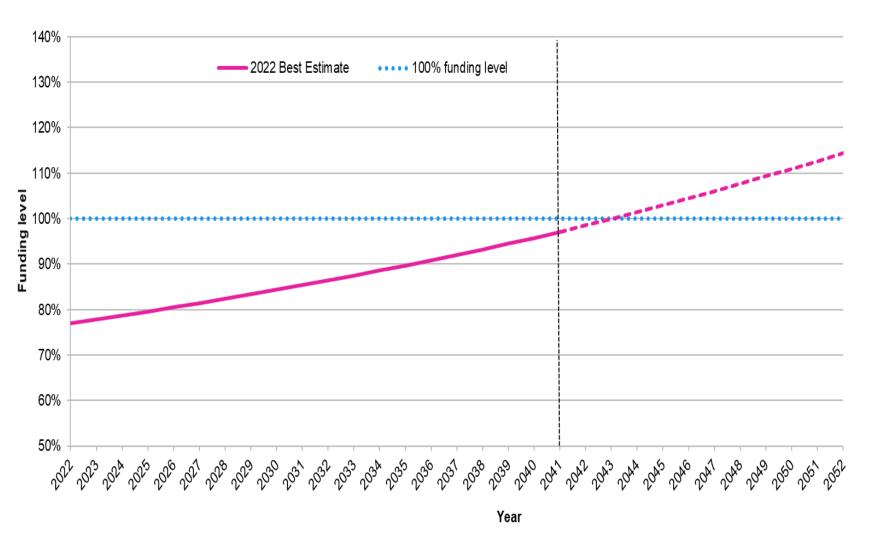


Periodic Actuarial Review

A full calculation of all of the Pension Fund's assets and liabilities What is it? Uses current information, forecasts and assumptions about the future We prepare a rolling re-forecast every 6 months in a dashboard How often do we do it? The full review is performed once every 3 years (or more often if required) Must be independent – calculations performed by Buck (our Actuary) Who does it? Asset return forecasts are determined by a Long Term Asset Study (from Ortec) Current funding level improved (2022: 77%; 2019: 68%). Deficit > halved. What was the result? The projection is slightly lower and >100% will be achieved ~2.5 years later Our beneficiaries are expected to live longer than other IGOs (0.94 factor) Any interesting points? The Fund expects to be paying 424 MCH in annual benefits by 2052 (+33%)



Actuarial review – projection of funding level



Uses a best estimate: even chance of better or worse outcome

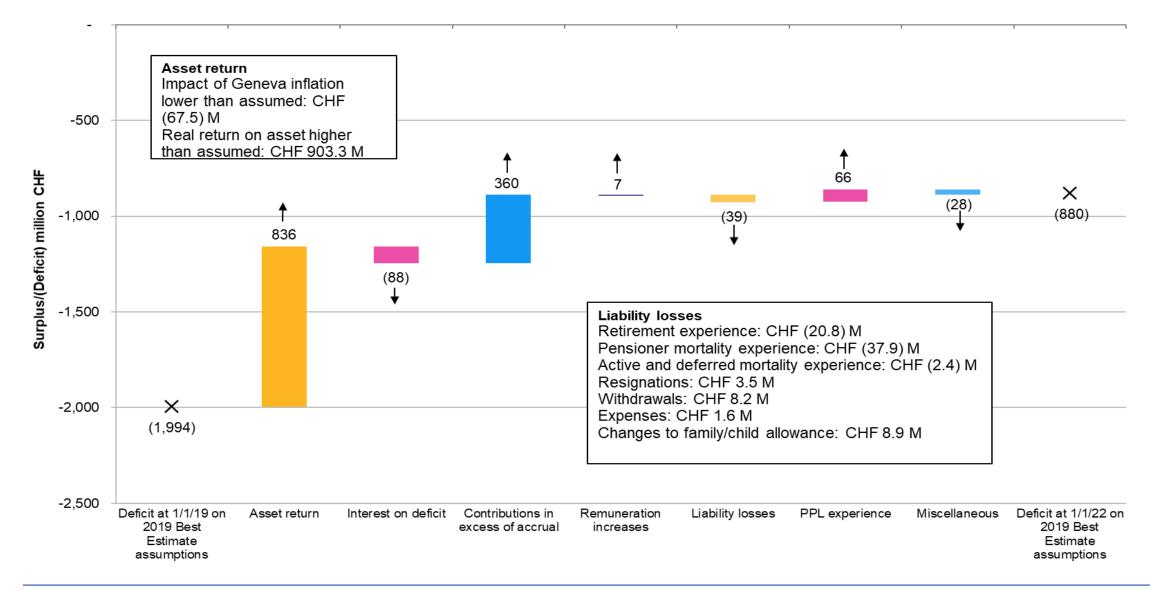
100% forecast to be achieved in 2043

Current funding level 77% (Jan 22)

2022 funding level tracking below plan



Actuarial review – movement in balance since 2019





2021 Annual Report & Financial Statements

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2021 Annual Report & Financial Statements



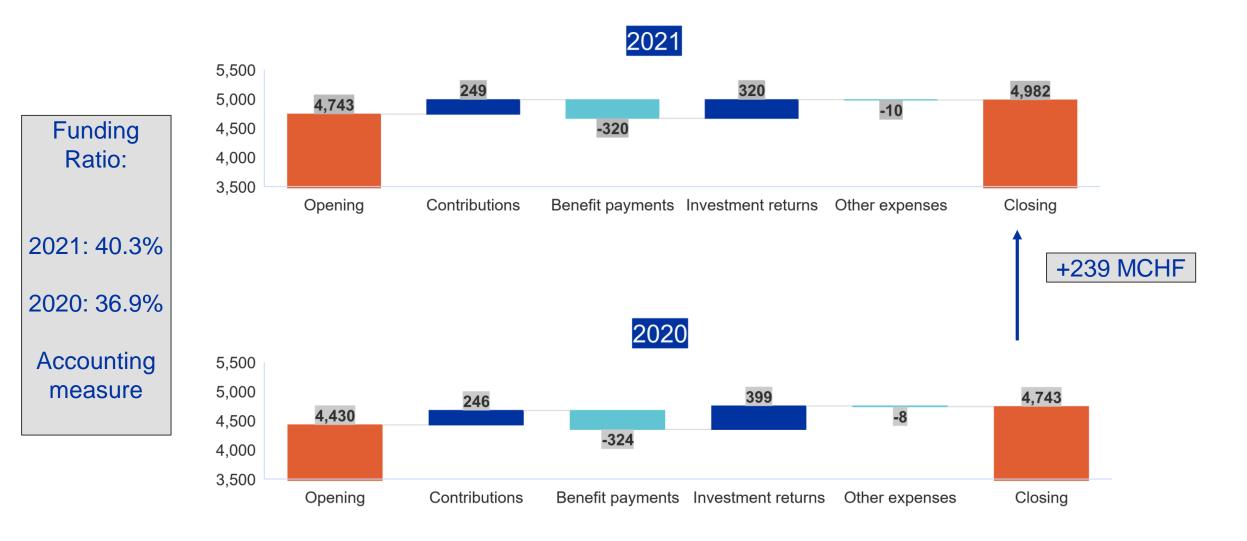
The format follows International Public Sector Accounting Standards (IPSAS) and pension fund best practice. Includes:

- Chair's Report
- Pension Fund Governing Board's Report
- Disclosure of external advisors and service providers
- Membership disclosures
- Financial statements and explanatory notes
- Actuarial Status of the fund
- Investment Report

Available on request or via pensionfund.cern.ch/en/about-fund/annual-report-and-financial-statements



2021 Annual Report & Financial Statements (M CHF)





2022 Annual Report & Financial Statements

Improved format coming for 2022:

- Additional information on governance
- More transparency on our ESG work
- Increased accessibility to key information



introductory measure allowed beneficiaries who were already married on 1 January 2021 to submit a request to procure

an entitlement to all or part of a surviving spouse's pension.







definition of fraud, as well as new articles to describe the Fund's process for the recovery of undue payments or the

refund of overpayments. A number of technical changes were also included to align the Rules with existing practices

Investment Report

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Managing the Pension Fund's assets

What are the assets of The Pension Fund pays benefits from its financial resources: funds it has built up through contributions and investment returns. the Fund? The Pension Fund is only sustainable if we are able to earn returns, over the long-term, in Why do we invest? excess of the rate of inflation. This is known as positive real returns. To achieve or exceed a return in excess of the real discount rate (currently 2.6%) Do we have a target? To manage the portfolio within a Risk Limit of -/+ 8% using 5% Conditional Value at Risk The PFMU and advisers propose a Strategy and Risk Limit, for PFGB to approve. Who manages the The implementation of the strategy is delegated to PFMU, under oversight of PFGB. assets? PFMU takes advice or outsources some strategies, but most assets are internally managed Virtually all major events in the world affect financial markets, positively or negatively. Are there risks? Diversification within the assets is key to managing risk. A long-term view and approach is essential to managing through volatility.



Strategic Asset Allocation



Precious metals

• Store of value, diversification of risk



Private Equity

Access to early stage capital growth with a premium for complexity and risk



Hedge Funds

• Risk management; access to positive returns over benchmark through active management



Equities

Access to capital growth and income from corporate profits



Real Assets

• Apartments, hotels, office buildings: Store of value, stable income and protection from inflation



Fixed Income

• Benefit of liquidity, with premium over cash deposits for limited default risk



Our Real Estate assets held directly

Switzerland



Geneva



Geneva



Geneva

France

Paris

Paris



Paris



Paris



Paris



Geneva Region

Germany



Berlin

United Kingdom



London



London



ESG – Environmental, Social and Governance matters

In 2021 the Fund has approved its first ever ESG policy after extensive consultation of our peers and our stakeholders

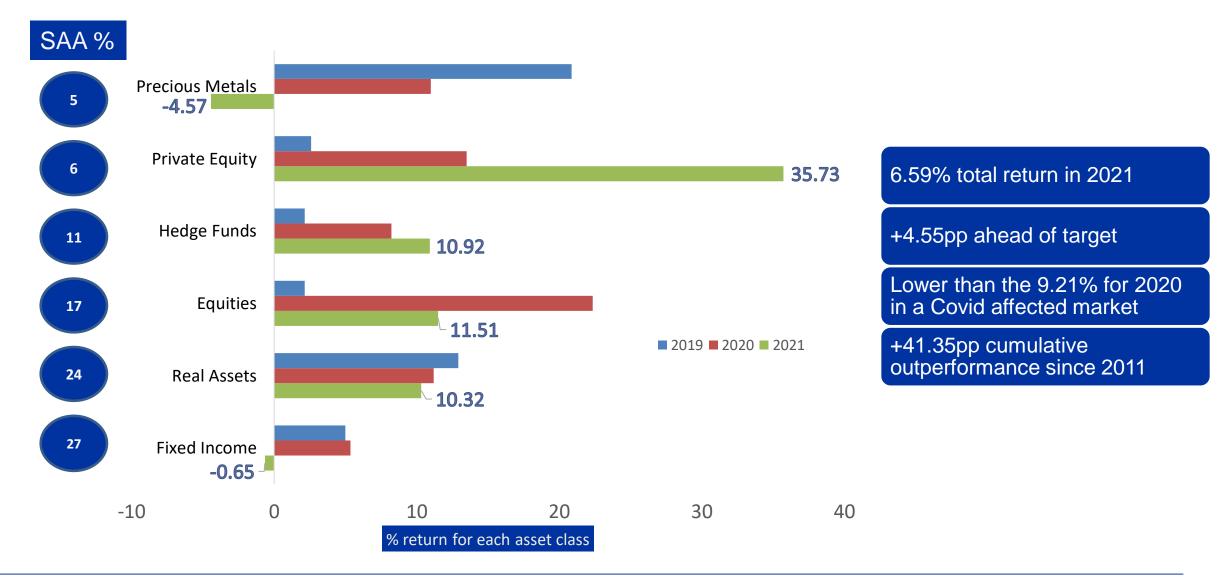
The Fund is focused on a small number of meaningful actions and not seeking to become an activist investor or to indulge in greenwashing

An ambitious ESG work plan is being completed with work on schedule in 2022. This includes a climate change scenario model and carbon foot-printing of the portfolio

We look forward to sharing more on these activities in our 2022 Annual Report & Financial Statements



Returns by asset class – 2021 (excluding cash)





Investment market themes in 2022

High inflation

Caused by Covid response stimulus + trade disruption + energy prices

Recession fears

- Negative outlooks across many sectors
- Cost of living crisis affecting confidence
- Energy saving measures will impact productivity

Trade disruption

Conflict in Ukraine + Covid lockdowns impacting global trade

Overall

- Potential for there to be a high impact to value of assets in short-term
- Patience and caution required to navigate
- PF operates a notional limit of -8% losses in average of worst 5% scenarios



Opportunity for questions

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Closing remarks

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Closing remarks

Thank you for attending our session today - we hope it was informative

The Pension Fund continues to achieve its purpose of paying benefits and welcoming new members

There are challenges ahead but this has always been true and the Pension Fund is well positioned for the conditions of the market

Please contact Benefits Services if you have any feedback or questions



