

SBCERS

Speakers

| Name | Firm | Title | Background |
|---------------------------------|----------------------------|---|---|
| Jonathan Kowolik | RVK, Inc | Senior Consultant, Principal | Mr. Kowolik is the Practice Leader for providing project consulting and research including search and evaluation projects for trust/custody providers, recordkeepers, Securities Lending programs, transition management, and other operational consulting projects. |
| Gene Meshechek | BlackRock | Global Head of Clients, BlackRock's Securities Lending Business | Prior to moving to current role, Mr. Meshechek held various leadership positions in Securities Lending, including as the Head of the North American Institutional Product Strategy team and the Global Head of Fixed Income Securities Lending Trading, based in New York. |
| Micheal McInnes | Bank of New York Mellon | Vice President, Securities Finance | Mr. McInnes is a Relationship Manager in BNY Mellon's Securities Finance group supporting the strategic goals of a diverse mix of asset managers and beneficial owners. In this role, he partners with institutional investors to tailor solutions that that will generate additional portfolio yield, finance trading activity, and efficiently manage collateral. |
| Special Support: Andrew Minc | BNY Investments, Mellon | Vice President, Relationship Manager | Mr. Minc is responsible for managing client relationships, specifically corporate and government pension plans, foundations, endowments, BNY Mellon channel sales relationships, and sovereign wealth clients. |



Investment Vehicles – Key Considerations for Institutional Portfolios

• Investment Vehicle type is an important consideration within institutional investment portfolio implementation.

Common Investment Vehicle options include:

- Mutual Funds (MF)
- Exchange Trade Funds (ETF)
- Commingled Fund (CF) / Collective Investment Trusts (CITs)
- Limited Partnerships (LP)
- Domestic (US) Separate Accounts (SA) holding individual securities
- Global (US and Non-US) Separate Accounts (SA) holding individual securities

Common Considerations:

- Asset Owner Type and Investment Asset Class
- Investment Mandate Size
- Asset Owner Staffing, Operational Resources and Related Factors
- Asset Owner Customization and Investment Policy Restrictions
- Total Cost and Investment Management Fee Objectives
- Investment Operations Factors such as Liquidity, Reporting, Trading and Investment Considerations like Securities Lending



Investment Vehicles – Type Considerations

Mutual Funds (MF)

Retail or institutional investment vehicle regulated by the SEC – Daily Trading at Market Close with Fund Company by prospectus; Units of Ownership Held in Custody. MF may lend securities pursuant to prospectus.

Exchange Trade Funds (ETF)

Retail or institutional investment vehicle regulated by the SEC – Intraday / Daily Trading through Brokerage Counterparty; Shares Held in Custody. ETF may lend underlying securities pursuant to prospectus and the ETF security itself may be lent by the Asset Owner.

Commingled Fund (CF) / Collective Investment Trusts (CITs)

Public or Private pooled investment vehicle (potentially with limited access by type of investor) which may offer daily or monthly liquidity and trading with Fund Company or Administrator by Participation Agreement; Units of Ownership Reflected in Custody as a line-item. CF or CIT may lend underlying securities pursuant to offering materials.

Limited Partnerships (LP)

Private pooled investment vehicle (potentially with limited access by number and type of investor) which generally offers limited liquidity (or none) with draw-down and distribution features. Capital Account Statement Values Reflected in Custody as a line-item. LP may lend underlying securities pursuant to offering materials.

Domestic (US) Separate Accounts (SA) holding individual securities

An invested portfolio of Domestic (US) securities overseen by an investment manager, held in domestic (US) custody for the asset owner client with a custodian at the US Depository Trust Company (DTC) or Federal Reserve (Fed) under a streamlined framework of legal and tax documentation. Assets managed pursuant to an investment management agreement, which may include customized investment guidelines. Asset owner may elect to lend securities held in custody through a lending agent.

Global (US and Non-US) Separate Accounts (SA) holding individual securities

An invested portfolio of global securities overseen by an investment manager, held in both domestic (US) custody and global (non-US) custody for the asset owner client with US and non-US Depositories and Sub-Custodians under a diverse (and potentially very complex) framework of legal and tax documentation. Assets managed pursuant to an investment management agreement, which may include customized investment guidelines. Asset owner may elect to lend securities held in custody through a lending agent.



Investment Vehicles – Asset Owner Type Factors

| Consideration | Large Defined Benefit (DB) Plans | Smaller Defined Benefit (DB) Plans | Defined Contribution (DC) Plans | Endowments / Foundations | Insurance | Taxable Clients |
|--------------------------------------|--|---|--|--|---|--|
| Common Implementation Vehicles | MF / ETF / CIT / LP / Domestic SA / Global SA | MF / ETF / CIT / LP / Domestic SA / Global SA less frequent | MF / CIT / Domestic SA / Global SA (at large size/scale) | MF / ETF / CF / LP / Domestic SA / Global SA (at large size/scale) | MF / ETF / CF / LP / Domestic SA / Global SA (at large size/scale) | MF / ETF / CF / LP / Domestic SA / Global SA (at size/scale) |
| Operational Considerations | More likely to have additional staffing and operational platform support for SA (particularly global). Pooled structures such as CIT also efficiently used in lieu of MF due to large placement buying power. ETFs and CITs may represent exposure vehicles. LPs common in private markets and may include custom vehicles. | Internal operational resources may be limited; mandate size may make SA (particularly global) less attractive. Pooled structures such as CIT and MF common. ETFs and CITs may represent exposure vehicle. LPs common in private markets. | Daily liquidity required – within vehicle or investment option structure. Many recordkeeping platforms support CITs. SA of varying sizes and sophistication requirements may be implemented with unitization, based on scale. ETFs discussed, but infrequently implemented. | Depending on size, scale and resources, may use a wide range of vehicles. Non-traditional market asset allocations lead to frequent deployment with LPs. ETFs and CFs may represent exposure vehicles. SA may offer additional flexibility with investment guidelines and objectives. | Taxable and non-taxable portfolios may present diverse vehicle needs. Insurance regulations, reporting requirements, impairments, and other factors may drive vehicle decisions. | Taxable portfolios may benefit from tax-aware / tax-sensitive direct ownership through customized separate accounts. Use of various investment vehicles with tax sensitive distribution considerations common and varies by size. |



Investment Vehicles – Vehicle Type Considerations

Mutual Funds (MF) vs. Commingled Funds (CF) / Collective Investment Trusts (CIT)

- MFs are available in various share classes and may generally be used by all retail and institutional investors. Institutional MF share classes may exist with higher minimum investments and lower investment and operating expenses.
- MFs offer standard investor disclosures, daily valuation, and reporting in alignment with Investment Company Act.
- CFs and CITs may limit investor eligibility and have higher minimum investment thresholds.
- Depending on fund documentation a CF or CIT may be open to investment from employer-sponsored qualified retirement plans only or permit investment by a wider range of potential investor entities
- CFs and CITs are often not registered with the SEC (although the Investment Adviser typically is a Registered Investment Adviser). These vehicles are commonly regulated by the Office of the Comptroller of the Currency (OCC), State Regulators, and typically not subject to the Investment Company Act of 1940.
- CFs and CITs may have valuation; purchase / redemption frequency less frequently than daily.
- CFs and CITs offer investor disclosures, valuation and reporting in alignment with offering and operating documents which may be (and often is) more limited than that required by the Investment Company Act. Such reporting may be appropriate given presumption of increased investor sophistication and acknowledgments.
- CFs and CITs may offer lower fees and operating expenses, in part due to less frequent valuation, lower distribution costs, lower regulatory reporting burden, and competitively negotiated fees and expenses (which may be more flexible to individual agreements on fee classes and terms).
- Both MFs and CFs/CITs invest according to stated investment guidelines which are not subject to customization. Customization of investment guidelines generally requires identification and retention of a MF/CF/CIT with a perfectly matching investment guidelines or the use of a separately managed account.



Investment Vehicles – Vehicle Type Considerations, continued

Limited Partnerships:

- Although most familiar within the context of non-traditional market / alternative investments such as Private Equity, LP vehicle structure is common structure for both traditional market investments and non-traditional market investments.
- Non-affiliated investor entities are typically "limited partners" within a private partnership structured to pool and invest pooled assets under the terms of a limited partnership agreement and as described within offering documents.
- Investment manager and/or general partner of these private partnerships may be a registered investment adviser. The investment fund / limited partnership vehicle is commonly excluded from the definition of an Investment Company and thus not registered under the US Investment Company Act of 1940 under one of several exemptions.
- Investor eligibility may be limited by vehicle type, structure, and offering generally available to "Accredited Investors" and "Qualified Purchasers" under regulatory definition.
- Capital call and distribution activity and timing is controlled by the general partner under the terms of the limited partnership agreement.
- Limited partnership capital account statement (commonly issued quarterly, with a delay) represents the LP's valuation per the limited partnership agreement. Depending on valuation policies, procedures, and internal management by investor entities, this capital account statement may be subject to invested entity fair value considerations.



Investment Vehicles – Vehicle Type Considerations, continued

Separate Accounts:

- Separate accounts offer the ability for an asset owner to retain an investment manager to oversee a directly owned / segregated portfolio of individual securities held in custody with a custodian, commonly retained by the asset owner directly at an additional cost.
- Asset owner client is the owner of account assets (which are typically held in the custodian's name for the benefit of the asset owner domestically and globally) and may direct specific restrictions and preferences which are documented in the Investment Management Agreement (IMA).
- Separate accounts generally carry a higher minimum investment size due to portfolio diversification requirements with individual securities, infrastructure costs for investment managers, and pragmatic considerations associated with the cost of an asset owner's retention of a qualified custodian to hold, service, and value the assets of a separate account.
- Separate accounts may have a lower investment management fee than a similarly sized deployment within a mutual fund, commingled fund, or LP, due to the fact that vehicle costs for items such as custody and valuation are borne by the asset owner separately. Total all-in costs, which may also reflect custody, valuation, audit, segregated/complete ownership of servicing and trading costs may vary depending on asset size and complexity.
- Global market access, market documentation, global tax documentation, and other factors are significant and can vary widely by market of investment and asset type. These responsibilities can be significant particularly in emerging markets and have been exhibiting trends towards greater complexity.
- Additional responsibilities may accrue directly to an asset owner investing and holding securities directly in a separate account Although some may
 present opportunities, others are complications to address and may include trading/transaction cost and foreign exchange execution considerations;
 direct proxy voting rights; securities litigation opportunities and fiduciary responsibilities; and global tax withholding/exemption/relief at source/reclaim
 filing.
- Although smaller mandates may be possible, RVK observes a direct correlation between client asset size and the prevalence of separate account usage
 with it being common for portfolios in the \$1-5 Billion asset size level to limit or avoid globally deployed separate accounts.



Background on Securities Lending

- Securities Lending is a commonly-used investment strategy in which institutional investors make short-term loans of their otherwise idle securities to earn incremental revenue from their portfolios.
- Securities Lending, while frequently viewed as an operational matter, can involve significant amounts of investment risk.
- Material amounts of income can be generated, but associated risk-factors (from program administration to cash collateral reinvestment) must be monitored closely.

Securities Lending Exposures can be found in two areas:

Direct Lending Exposure

Generated via the retention of an agent (frequently the custodian) to perform
 Securities Lending activities on behalf of certain portfolios

Indirect Lending Exposure

- Generated via the investment in the commingled product or vehicle of a designated investment manager which has the contractual ability to enter into Securities Lending agreements on behalf of the pooled investment vehicle.
- Non-lending commingled products may be available, but fees may be higher and performance may be less attractive over the long-term.

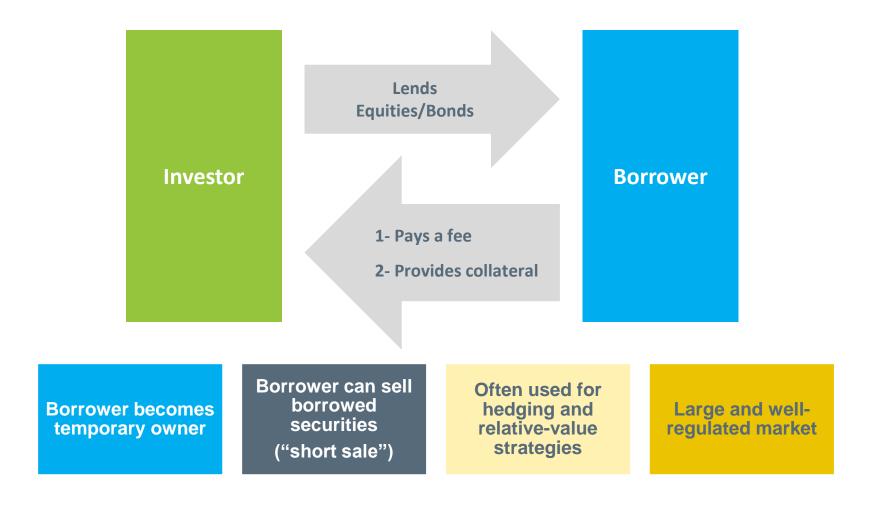
Gene Meshechek, CFA
Managing Director
August 2024

BlackRock

Understanding Securities Lending



What is Securities Lending?





What is Securities Lending?

Investor

Passes on dividends, coupons and other entitlements to Lender

Little to no impact on portfolio management

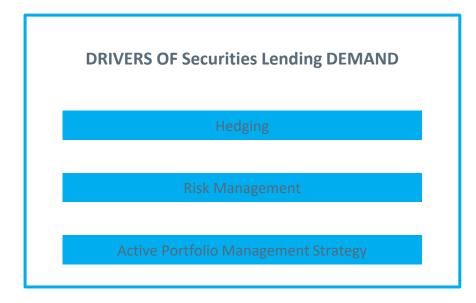
Portfolio Managers can sell securities at any point and participate in corporate actions freely

Increasingly automated market, mitigating operational risk



Securities Lending: Benefits & Drivers

- Securities Lending is an Over-the-Counter market and estimates suggest there is approximately \$34.6 trillion available for lending globally and approximately \$2.3 trillion on loan on a daily basis.¹
- Securities Lending provides liquidity in financial markets, accelerates price discovery and can reduce the cost of investing.





With Securities Lending there is a risk of loss should the borrower default before the securities are returned, and due to market movements, the value of collateral held has fallen and/or the value of the securities on loan has risen.

¹Source: S&P Global Market Intelligence, 03/31/2024. All figures in USD.

² Source: Dreff, N, 2010. The Role of Securities Lending in Market Liquidity. Bank of Canada: Financial System Review, June 2010, pp 41-45.



Risks in Securities Lending

Borrower Default Risk

The main risk of the Securities Lending transaction is the **borrower defaulting** on obligation to return securities. To mitigate this risk, the investor can typically rely on **three lines of defence**:

- 1. Lending to diversified set of highly creditworthy borrowers.
- **2. Terminating loans** when the borrower's credit quality deteriorates significantly.
- **3. Taking collateral** from the borrower, which can be sold in the market (during a default) to buy back lost securities.

Collateral and Reinvestment Risk

Market movements after a borrower default could make **collateral insufficient** to buy back lost securities, or, cash collateral could have **a reduction in principal value**. Investors can mitigate this risk by:

- 1. Taking collateral in excess of the loan value
- 2. Marking loans and collateral to market daily
- 3. In some cases a borrower default indemnity could be provided by a lending agent but becoming less frequent
- 4. Investing in conservative cash collateral pools with ample liquidity

The level of risk in a lending program highly depends on how well these risks are managed.

Risk management cannot fully eliminate the risk of investment loss. With Securities Lending there is a risk of loss should the borrower default before the securities are returned, and due to market movements, the value of collateral held has fallen and/or the value of the securities on loan has risen.

Source: BlackRock, 6/30/2024 For illustrative purposes only FOR USE WITH SBCERS ONLY - NOT FOR PUBLIC DISTRIBUTION



Regulatory Change

Regulators' focus on Securities Lending following the Global Financial Crisis has primarily sought to **enhance transparency** and disclosure, **while mitigating risk**

Increased Transparency & Disclosures

- The requirements of the Securities Financing
 Transaction Reporting (SFTR) to the European
 Securities and Markets Authority (ESMA) went live
 in January 2016.
- The Securities and Exchange Commission's (SEC)
 Investment Company Reporting Modernization rule
 was adopted in October 2016 and requires new rules,
 forms, and amendments that will modernize
 reporting and disclosure of information for registered
 investment companies.
- In October 2023, The SEC adopted the final Exchange Rule 10C-1. The goal of this rule is to increase Securities Lending reporting transparency, by requiring the reporting of certain material terms of lending transactions, including security name/ticker, loan quantity, rate/fee and collateral type. Implementation for the final rule is expected in 2026.

nvestor Risk

Counterparty Ris

Basel III and **Dodd Frank** generally require borrowers to hold more capital, maintain greater liquidity and reduce leverage.

These changes are intended to reduce borrower default risk, but we also anticipate these changes will impact the balance sheets of our borrowers, leading to further evolution of the Securities Lending market

Cash Collateral

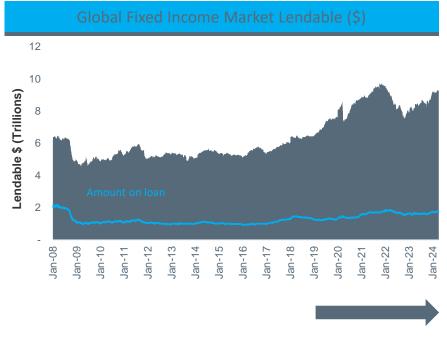
As part of their recommendations released in August 2013, the **FSB** endorsed conservative guidelines for cash collateral from Securities Lending

OCC implemented more conservative limits for STIF fund management in 2013

SEC implemented more conservative limits in 2010 and adopted further changes for 2a-7 Money Market Funds (MMF) which occurred in October 2016 and July 2023.

BlackRock. Global market update:

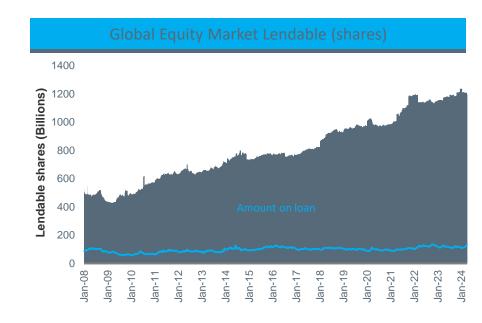
Trends in equity and fixed income supply



- Equity supply trends:
 - Equity lenders exited the market in Q4 2008, but lendable assets returned to precrisis levels shortly thereafter
 - Lendable shares have continued to see consistent growth in recent years as demand for lending has increased



- Fixed Income supply trends:
 - Significant increase in lendable assets in recent years
 - Opportunities to lend fixed income securities has increased with higher interest rates and increased demand for high quality liquid assets



BlackRock

Securities Lending Considerations

Within Securities Lending, there are many different type of things to consider. The first is what type of program the lender offers. BlackRock participates in a **standard lending program** where we lend across most asset classes and have conservative cash collateral parameters and specific risk adjusted return requirements. Others include **limited lending programs**, that lend limited asset classes due to insufficient lending capabilities, and **aggressive lending programs** which take increased risk within the collateral reinvestment to ensure sufficient spreads. Other considerations to think of when comparing different programs include:



Type of Agent

Custodian Bank, Asset Manager - Integrated Model, Third Party



Counterparties

Who are the approved counterparties? Does lending agent conduct credit reviews of the borrowers in the program?



Return Expectations

Different asset classes generally have different return profiles, where emerging market equities and small cap names have more demand than domestic equities and large cap names



Reporting

Due diligence updates with lending agent to understand performance and any changes in the market



Collateral/Cash Collateral Management

Appropriate reinvestment guidelines where collateral should be marked-to-market daily with appropriate over-collateralization



SBCERS

Agency Securities Lending Experience

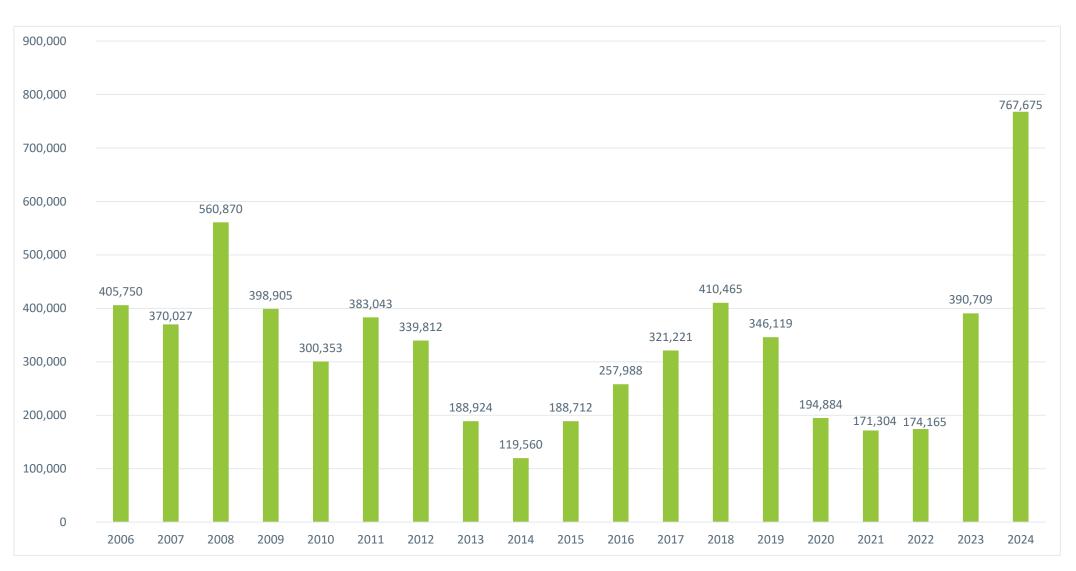
August 28, 2024

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Information Classification: CONFIDENTIAL



SBCERS Annual Securities Lending Revenue The Securities Lending program has generated SBCERS a total of \$6,590,497 from July 2005 to June 2024





Revenue by Manager

| | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | Total | Average |
|------------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|-------|--------|-------|--------|---------|
| ALL BERNST | 14.8 | 15.27 | 57.71 | | 19.46 | | | | | | | | | | | | | | | 107.23 | 26.81 |
| ALL CAPIT | 27.7 | 49.15 | 116.69 | 150.11 | 59.84 | 60.13 | 41.17 | | | | | | | | | • | | | | 504.78 | 72.11 |
| ANALYTIC | | | | | | | | | | .61 | 55.31 | | | | • | | | | | 55.92 | 27.96 |
| ARTISANMCG | | | | | | | | 34.2 | 23.06 | 13.74 | 9.7 | 5.96 | | | | | | | | 86.66 | 17.33 |
| ARTSN INTL | | | | • | • | | | • | 3.77 | 11.73 | 39.92 | 24.36 | 18.29 | 23.89 | 33.69 | 12.54 | 13.35 | 28. | 8.58 | 218.12 | 19.83 |
| EAGLASSMAN | | | | • | | 63.4 | 64. | 22.77 | 14.35 | 1. | | - | - | • | | | | | | 165.52 | 33.1 |
| FIRSTEAGLE | | | · | Ī | | • | ē | | 3.85 | 23.78 | 20.56 | 17.46 | 37.73 | 27.41 | 13.46 | 20.38 | 24.22 | 16.8 | | 205.65 | 20.56 |
| GARCIA HAM | | | · | Ē | | • | ē | | | | | | 4.94 | 6.52 | 8.94 | 9.27 | 9.28 | 6.48 | 11.36 | 56.8 | 8.11 |
| HARRISREIT | | | | | | | .62 | 1.86 | 1.12 | 3.62 | 4.37 | | | | | | | | | 17.34 | 2.48 |
| HTCKS&WLY | | | | | | | - | | 22.6 | 29.51 | 20.45 | 59.06 | 84.29 | 56.77 | 21.56 | 3.56 | - | | | 297.82 | 37.23 |
| INVESCO | 4.74 | 9.88 | 23.76 | 42.07 | 20.92 | 20.73 | 24.43 | | | | | | | | | | | | | 146.55 | 20.94 |
| LINCOLN | 61.7 | 13.26 | | | | | | - | | | | | | | - | | | | | 74.96 | 37.48 |
| LONDON CO | | | | | | | | | | .09 | 4.3 | 12.63 | | | | | | | | 17.01 | 5.67 |
| LOOM SAYLE | | | | | | 23.54 | 17.28 | 1.48 | | | | | | | | | | | | 42.3 | 14.1 |
| LRD ABBETT | | | | 8.5 | 61. | | 45.28 | | 03 | | | | | | | | | | | 215.42 | 35.9 |
| NEUBERBRMN | | | | | | 35.51 | 23.36 | .87 | | | | | | | | | | | | 59.74 | 19.91 |
| NEW STAR | 66.65 | 86.59 | 139.6 | 33.92 | | | | | | | | | | | | | | | | 326.76 | 81.69 |
| NICHOLSSCG | | | | | | | | | | 31.43 | | | | | | | | | | 48.74 | 24.37 |
| PANAGORA | | | | 9.23 | 45.78 | 56.84 | 46.32 | 41.16 | 34.11 | 33.61 | 22.06 | 26.9 | | 28.66 | 15.58 | 18.18 | 38.52 | 29.31 | 44.65 | 516.01 | 32.25 |
| QSB GUGGEN | | | | | | | | | | | | | 2.79 | | | | | | | 2.79 | 2.79 |
| R H JAMES | | | | | | | | | | | 4.41 | 30.6 | | 15.33 | 14.16 | 11.97 | 3.06 | 3.61 | 2. | 114.27 | 12.7 |
| REAMS | 108.99 | 58.39 | 72.09 | 20.32 | 57.94 | 55.64 | 29.76 | 15.33 | 16.04 | 28.4 | | 59.71 | 1.61 | | | | | | | 564.87 | 43.45 |
| RHUMBLINE | | | | | | | | | | .01 | 3.87 | 11.07 | 18.77 | 58.43 | | | | | | 92.14 | 18.43 |
| RREEF | .14 | | | | | | | | | | | | | | | | | | | .14 | .14 |
| SBCERS HED | | | | | | | | | | | | | | | | | | 216.66 | | 937.95 | 156.32 |
| SBCERS NUV | | | | | | | | | | | | | 185.4 | 124.09 | 60.15 | 76.64 | 58.11 | 89.85 | 58.57 | 652.79 | 93.26 |
| STAR TISDL | 7.21 | 29.04 | 82.88 | | 27.26 | | | | | | | | | - | | | | | | 207.73 | 41.55 |
| STW | 113.83 | 108.43 | 68.15 | 11.43 | 8.16 | 16.21 | 10.45 | 4.32 | .68 | 11.2 | 15.06 | 22.39 | 1.31 | - | | | | | | 391.62 | 30.12 |
| WELL TIPS | | | | | | | 37.15 | 17.31 | | | | | | | | | | | | 54.47 | 27.23 |



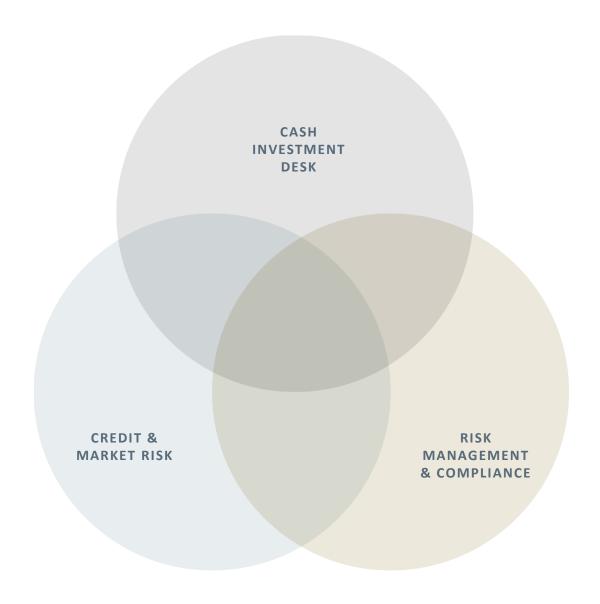
Comprehensive Cash Collateral Investment Management Capabilities

All data as of June 30, 2024, and includes both BNY Agency Lending and Agency Investment Product (AIP) programs.

- 1 Includes assets invested in funds directed by clients or released to clients to manage themselves.
- 2 Includes tenure at all BNY affiliates.

INVESTMENT MANAGEMENT

- Total of US\$203 billion (USD equivalent) in total assets under management¹
- Managed in the following four different currencies:
 - ➤ US\$179 billion
 - > CAD\$10 billion
 - > EUR€12 billion
 - ➤ GBP£2 billion
- 12 investment professionals dedicated to cash collateral investment strategies
- Investment professionals average 16 years at BNY and 21 years in the industry²
- Cash collateral investment professionals are specialized by currency with cross-regional trading backup



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Comprehensive Cash Collateral Investment Management Capabilities

SEPARATELY MANAGED ACCOUNTS¹

- Investments governed by the client's own, specific investment guidelines
- All strategies may be tailored to match the client's own, individual risk parameters
- Modifications to a client's investment guidelines may be made only by the client and can be changed at any time²
- Client collateral investment guidelines can have a material impact on revenue potential. The table below provides summary details on BNY's standard strategies:

EXTERNAL ASSET MANAGER / CLIENT MANAGED CASH⁵

- · Client manages their own cash collateral
- Increases client's assets under management
- Client executes investment decisions
- Client may direct investment into an external registered money market mutual fund

| USD STRATEGIES | WEIGHTED AVERAGE MATURITY | MAXIMUM SECURITY MATURITY | APPROXIMATE YIELD ³ (VERSUS OBFR) |
|---------------------------------------|------------------------------|------------------------------|---|
| Overnight - Government - Credit | next day | next day | -4 to 0 (flat) bps +1 to +6 bps |
| Ultra Short | 45 days | 190 days ⁴ | +10 to +20 bps |
| Core | 60 days | 397 days ⁴ | +15 to +25 bps |
| Term | 90 days | 3 years ⁴ | +25 to +40 bps |

1 - Subject to BNY input and approval. 2 - A change in guidelines by a client that required selling of assets could result in a loss, which would be the client's responsibility. 3 - Yield information is for illustrative purposes only and not a performance guarantee. Yield information will vary depending on a number of variables, including investment guidelines and market conditions. OBFR is the Federal Reserve Bank of New York's Overnight Bank Funding Rate 4 - This is only one example. A client can increase or decrease the number of days. 5 - Subject to BNY credit, risk and other necessary approvals.





Risk Controls for Cash Collateral Investment Management

01.

Liquidity Risk

Insufficient cash available within investment portfolio to repay borrower

RISK CONTROLS

- Managed by client's investment guidelines
- Target 10% overnight liquidity
- Laddered maturities
- Raise liquidity through lending

02.

Credit Risk

Principal or interest payments not received as expected

RISK CONTROLS

- Managed by client's investment guidelines
- Minimum credit ratings
- Issuer concentration limits
- Maximum final maturities

03.

Interest Rate Risk

Yield on asset (investment) is lower than yield on liability (rebate)

RISK CONTROLS

- Managed by client's investment guidelines
- Asset/liability management
- Automated rate threshold (set maximum rebate)
- Short weighted average days to reset
- Limits on fixed rate maturities

04.

Market Risk

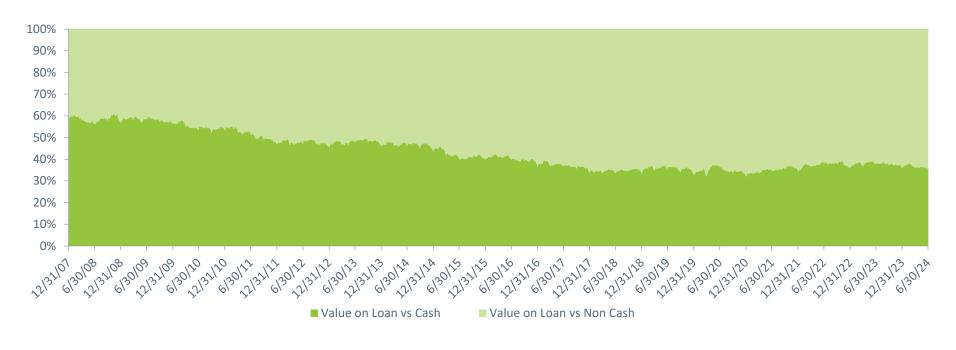
Cash collateral investments sold below par

RISK CONTROLS

- Measure daily unrealized gains/losses
- Indicative market value NAV
- Typically, buy-and-hold strategy



Cash vs. Non-cash - Loan Volume







YOUR NON-CASH OPTIONS

Client flexibility to accept numerous forms of non-cash collateral allows clients to take advantage of evolving borrower demand and premium returns.

Reduces risk via diversification benefits from adding more asset classes from a portfolio perspective given low correlation between equities and traditional non-cash collateral.

Concentration limits, securities limited to certain indices, certain minimum average trading volumes and higher margins apply.

DEBT SECURITIES

- U.S. Government
- Sovereigns
- G10
- Superannuation
- IG Corporates
- Convertibles

EQUITY SECURITIES

- U.S.
- EMEA
- APAC
- ETFs



Agency Securities Lending Overview

Strong, Tenured Industry Leader Committed to the Business

FOOTPRINT

- Industry's largest program, with \$5.1 trillion in lendable assets and \$550 billion on loan^{1,2}
- With 20.7% of the industry on loan volume and 11.3% of the industry lendable, BNY captures more than its share of the market^{1,2}
- **374** global client relationships²
- Active lending in 34 local markets³
- **6** global trading desks (New York, Pittsburgh, Toronto, London, Hong Kong and Singapore)
- Providing Securities Lending services **since 1977**

| | VALUE PROPOSITION | | | | | | | | | |
|----------------------|---|--|--|--|--|--|--|--|--|--|
| DEPTH OF RESOURCES | Unique industry position as the largest agent lender leads to ongoing capital investment in technology and resiliency | | | | | | | | | |
| SAFETY AND STABILITY | The Federal Reserve's 2024 bank stress tests once again show the resiliency of our business model and strength of our balance sheet | | | | | | | | | |
| CLIENT RETURNS | We focus on generating strong performance for our clients through the combination of spread, utilization and duration of loans | | | | | | | | | |
| TRANSPARENCY | Detailed client reporting accessible 24/7 | | | | | | | | | |

^{1 -} Largest program as measured by on-loan assets according to S&P Global Market Intelligence as of 2Q 2024.

^{2 -} June 30, 2024.

^{3 -} Lendable securities include all DTC eligible securities, American Depositary Receipts (ADR), Global Depositary Receipts (GDR) and fixed income securities held in Euroclear and Clearstream.



Securities Lending Program Monitoring

Prudent monitoring should include periodic review of the Securities Lending program with the lending agent:

- Documented Presence of Lending Exposures / Program Size
- Cash & Non-Cash Collateral Usage
- Collateralization Policies and Sufficiency
- Counterparty (Borrower) Exposures and Indemnifications
- Cash Reinvestment Portfolio Investment Guidelines
 - Liquidity, Duration and Credit Spread, and Issuer Concentration
- Earnings, Earnings Attribution, Fees, and Revenue Split
- Operational Considerations (income posting and trade settlement results)
- Tax Considerations (the tax treatment of substitute income for some lent securities may generate undesirable taxation implications)
- Market/Regulatory/Program Changes



SBCERS Investment Considerations

SBCERS Separate Account (including Global) Experience and General Comments

- Current investments in Separate Accounts are associated with higher costs associated with custody and asset servicing from BNY, including the additional costs associated with direct security custody and settlement in global markets.
- Additional complexity has been observed with account and market documentation including documentation of the tax status and KYC/AML matters associated with the Trust Funds direct investments
- Additional complexity associated with the prudent coverage of security-related matters such as domestic and global securities litigation on individual security holdings; sanctioned markets; direct ownership of sanctioned or trading-restricted securities (such as Russia) and other tax and valuation matters associated with securities valuation are notable.
- The Securities Lending opportunity with directly held securities in separate account format has been associated with incremental earnings to the Trust, but also introduces additional complexity.



SBCERS Investment Considerations, continued

- RVK observes limited investment and investment operations staffing at SBCERS.
- While staffing levels are not uncommon related to similarly sized funds, they may limit the ability to effectively and comprehensively address the increasingly complex matters that accompany investment implementation particularly in global separate accounts.
- The opportunity to make a focused shift in investment vehicle deployment from Separate Accounts (particularly global) to emphasize or prioritize the efficient usage of commingled vehicles such as CITs is notable.
- Additional modifications to Securities Lending program parameters are possible current program guidelines and participating accounts are conservative and could be revisited in conjunction with overall portfolio considerations.

• <u>Due consideration of total net cost and value trade-offs are appropriate:</u>

- Although Securities Lending opportunity from direct holding of lendable securities in global separate accounts participating in the custodial Securities Lending program may be impacted by a vehicle shift, operating cost efficiency, investment program complexity, and other factors are notable.
- Shifts to add Securities Lending to non-participating separate account assets and to consider the use of commingled funds offering a vehicle option that participates indirectly in lending activity is a viable and reasonable alternative.
- A shift to consider some expansion of guidelines for eligible collateral type and investment to increase utilization and return on invested cash collateral assets is reasonable and can also be a prudent method to limit the impact on total net lending income.



SBCERS Recommendations – Artisan

RVK recommends that the SBCERS Board approve the change of Artisan global equity separate accounts to commingled vehicle format with corresponding adjustment to custody cost drivers with BNY and prospective impact to Securities Lending earnings.

- The reduction in custodial cost complexity to BNYM, and to the operational complexity for SBCERS, is not estimated to directly lead to lower contractual custody cost, although it is expected to provide additional latitude for other complexity drivers to change over time during the custody contract with BNY
- The reduction is Fiscal 2024 lending earnings would be approximately \$8,580 or -1.1% based on data provided by BNYM



SBCERS Recommendations - OPEB

RVK recommends that the SBCERS Board consider the presentation and approach outlined by BlackRock related to their investment vehicles and Securities Lending program and to approve the transition of current OPEB and other BlackRock vehicles to corresponding investment vehicles that participate in Securities Lending. RVK notes that additional Securities Lending utilization and earnings are expected to be generated and that incremental associated risk factors are reasonable.



BlackRock - Funds Lending and Non-Lending Comparison

BlackRock Russell 3000® Index Fund Performance

| | 2Q2024 | YTD* | 1 year | 3 year | 5 year | 10 year |
|---------------------------|--------|-------|--------|--------|--------|---------|
| Fund (lending) | 3.23 | 13.58 | 23.19 | 8.1 | 14.19 | 12.22 |
| Fund (non- lending)*** | 3.21 | 13.56 | 23.18 | 8.08 | 14.16 | 12.17 |
| Benchmark | 3.22 | 13.56 | 23.13 | 8.05 | 14.14 | 12.15 |
| Lending Outperformance | 0.02 | 0.02 | 0.01 | 0.02 | 0.03 | 0.05 |

BlackRock US Debt Index Fund Performance

| | 2Q2024 | YTD* | 1 year | 3 year | 5 year | 10 year |
|---------------------------|--------|-------|--------|--------|--------|---------|
| Fund (lending) | 0.14 | -0.59 | 2.69 | -2.94 | -0.15 | 1.44 |
| Fund (non- lending)*** | 0.13 | -0.61 | 2.66 | -2.97 | -0.20 | 1.39 |
| Benchmark | 0.07 | -0.71 | 2.63 | -3.02 | -0.23 | 1.35 |
| Lending outperformance | 0.01 | 0.02 | 0.03 | 0.03 | 0.05 | 0.05 |

Period returns for less than a year are cumulative As of June 30, 2024.

Russell 1000 Index Fund (lending) inception date as of 30 June 1999; non-lending Fund inception date 28 February 2009, Benchmark is the Russell 1000.

U.S. Debt Fund inception Fund inception date 30 June 1986, non-lending Fund inception date 18 September 2009. Benchmark is the Bloomberg U.S. Aggregate Bond Index.

This information is unaudited, subject to change and intended for analytical purposes only. The Fund's net asset value does not include an accrual for the investment management fee but does include an accrual for fund level administrative costs and, if applicable, certain third party acquired fund fees and expenses. If the Fund's net asset value did include an accrual for the investment management fee, the Fund's returns would be lower. **Past performance is not necessarily an indicator of future performance.** Indexes are unmanaged. It is not possible to invest directly in an index.

Sources: BlackRock, FTSE Russell

^{***} What SBCERS is currently invested in through their OPEB.



SBCERS Recommendations – Russell 1000

RVK recommends that the Board approves the additional eligible collateral types and program guidelines associated with the custodial Securities Lending program and to transition to the lending vehicle offered by BNY tracking the Russell 1000 Index. RVK notes that additional Securities Lending utilization and earnings are expected to be generated and that incremental associated risk factors are reasonable.



As of July 31, 2024

BNYM Mellon DB SL Large Cap Stock Index Fund vs. Russell 1000 Index

Inception: 12/16/1986

| | 1 Year | 2 Year | 3 Year | 4 Year | 5 Year | 6 Year | 7 Year | 8 Year | 9 Year | 10 Year | Since Inception | Std. Dev. Since Inception | Tracking Error Since Inception |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------------------|------------------------------|--------------------------------|
| Fund | 21.55 | 17.18 | 8.56 | 15.26 | 14.61 | 13.49 | 13.88 | 14.14 | 13.07 | 12.89 | 10.98 | 15.38 | 0.13 |
| Benchmark | 21.50 | 17.15 | 8.52 | 15.23 | 14.59 | 13.46 | 13.85 | 14.11 | 13.04 | 12.86 | 10.94 | 15.43 | |
| Difference | 0.05 | 0.03 | 0.04 | 0.03 | 0.02 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.04 | | |

BNYM Mellon DB NSL Large Cap Stock Index Fund vs. Russell 1000 Index

Inception: 3/13/2009

| | 1 Year | 2 Year | 3 Year | 4 Year | 5 Year | 6 Year | 7 Year | 8 Year | 9 Year | 10 Year | Since Inception | Std. Dev. Since Inception | Tracking Error Since Inception |
|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------------------|------------------------------|--------------------------------|
| Fund | 21.54 | 17.16 | 8.53 | 15.24 | 14.58 | 13.46 | 13.84 | 14.10 | 13.03 | 12.85 | 15.98 | 14.99 | 0.02 |
| Benchmark | 21.50 | 17.15 | 8.52 | 15.23 | 14.59 | 13.46 | 13.85 | 14.11 | 13.04 | 12.86 | 15.98 | 15.00 | |
| Difference | 0.04 | 0.01 | 0.01 | 0.01 | -0.01 | 0.00 | -0.01 | -0.01 | -0.01 | -0.01 | 0.00 | | |



SBCERS Recommendations – Expanded Securities Lending Collateral

RVK recommends that the SBCERS Board consider the presentation and approach outlined by BNY, RVK notes that additional Securities Lending utilization and earnings are expected to be generated and that incremental associated risk factors are reasonable.

- Noncash collateral has a balance sheet benefit to borrowers and is generally their preferred form of collateral to post. Expanding the acceptable forms of collateral will allow SBCERS to participate in these additional trades that are being allocated to other beneficial owners.
- Expanding the cash collateral reinvestment guidelines has two benefits. The greater yield generated from the new guidelines could potentially increase performance to all the existing activity. The higher yields will also support a broader range of trading activity, allowing SBCERS to participate in trades that are being allocated to other beneficial owners today.



SBCERS Recommendations – Commingled Fund Preference for Non-U.S.

RVK notes a net decrease in portfolio complexity that will accrue over time due to the reduction in global separate account complexity (which we expect to be increasingly observable over time), and that such decrease is expected to be material.

In connection with the changes to Securities Lending participation and program configuration, RVK recommends and will support continued and ongoing monitoring of such additional investment risk components.

The tangible and intangible benefits of the reduced separate account complexity are significant and that while some incremental lending income may be foregone with a shift to non-lending CF vehicles. However, the moderate and reasonable increase to lending participation (BlackRock OPEB funds, Mellon R1000, and incremental utilization and earnings in BNY custodial lending program due to prudent guideline expansion) is expected to more than offset such global separate account lending income reduction. Ongoing consideration of lending program parameters by the Board is reasonable and continues to be merited and will be supported by RVK.

Appendix







Securities Lending Q&A Why Do Beneficial Owners* Lend?

- Securities Lending is used to increase the total return or yield of the portfolio.
 - It can be used to generate incremental revenue or yield to the investment program. Although not required to be used for such payments, some programs use Securities Lending income to pay operational expenses such as custodial banking fees.
- Securities Lending can increase overall performance.
 - Our client experience has been generally three-five basis points annually, depending on portfolio composition.

^{* &}quot;Beneficial Owner" is a technical term for the entity that is lending securities within a Securities Lending program (i.e. typically the client organization). The term references the fact that many of the attributes of ownership continue to be retained (i.e. they are "beneficially" retained) such as the receipt of dividend or interest payments and the ability to sell the security (which produces a request to the borrower to return the security that has been lent).



Why Are Securities Borrowed?

- Borrowers borrow securities to facilitate settlement, create short positions, or obtain title and temporary ownership for market purposes, including to vote proxies.
- Common borrowers (and borrowing rationale) include:
 - Market makers needing inventory of securities for settlement and to facilitate short sales or shortened settlement.

Examples:

- Fixed Income Securities: Short settlement windows may require borrowing to facilitate timely settlement and avoid regulatory penalty fees as well as to create Treasury Strips and Zero Coupon Bonds.
- Fixed Income and Equity Securities: "Selling short" mechanically requires the borrow of a security which is sold with a forward obligation to repurchase/return the borrowed security.
- Prime brokers that need to provide inventory to arbitrageurs seeking to exploit differential tax treatment on dividends and some interest payments on global securities.

Examples:

- French National would receive full Dividend from French company with no withholding (100% received)
- **US Government Entity** receives Dividend net of 30% withholding from French company and must file tax reclaim to receive treaty rate of 15% dividend expense (i.e., 15% is reclaimable).
- Process may allow for quicker payment & higher net rate to be received by the US entity:
 - Lend to French National (who receives 100% and passes back 85% net entitlement)
 - Lending rates / spread is competitively set to split the 15% net expense between the lender (who owns the shares) and the borrower (who doesn't own the shares but has title and thus economic benefits over record date).



Who Provides Securities Lending Services?

| Custodial Bank Agent Lenders | Division of custodial banks that provide security lending services to custody clients. Examples: BNY Mellon, J.P. Morgan, Northern Trust, State Street |
|---|--|
| Third Party Lending Agents | Firms (including divisions of some custodial agent lenders) not generally holding custody of assets who arrange loan of securities and coordinate securities movements with custodian to client. Examples: Citi, eSeclending |
| Principal Borrowers, including Auctions | Brokerage firms and other market participants who "buy the rights" to borrow a portfolio of one or more securities in exchange for a negotiated fee, frequently (but not required to be) via an auction process (coordinated by an agent offering indemnification). Examples: Goldman Sachs, Morgan Stanley |

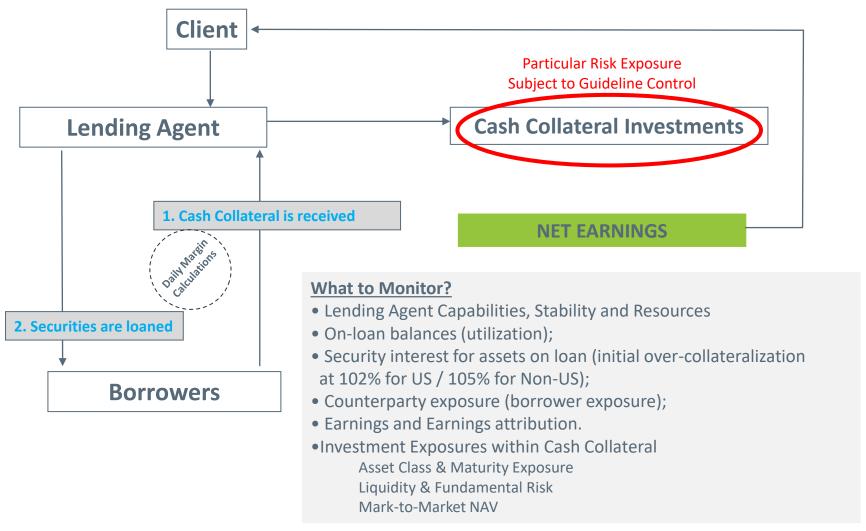


How Does Lending Work?

- Participants in Securities Lending programs temporarily lend their securities to borrowers such as market-makers, hedge funds, and other financial institutions through a lending agent.
- Borrowers deliver temporary collateral to lender (or agent) for securities borrowed in exchange for a negotiated rebate generally a rate equal to a negative spread to a risk-free rate, such as Fed Funds. Positions are over-collateralized (typically 102% for US & 105% for Non-US).
- Lenders invest the cash proceeds according to investment guidelines to earn a yield that will exceed both the risk-free and the negotiated rebate paid to the borrower.
- The total return to Securities Lending programs is based on achieving a positive differential on a daily basis between the rate earned on collateral investments and the required payment of the negotiated rebate.



How a Cash* Loan Works and What to Monitor



^{*}Non-cash loans are made as permitted by lending agents who take a non-cash security interest and a negotiated fee from the borrower of securities. It is important to note and be aware of the types of non-cash collateral accepted.



What are the Components of Earnings?

- Cash Loans (most common):
 - The <u>Yield</u> received on the investment of cash collateral
 - Minus
 - The <u>Negotiated Rebate</u> paid out of the borrower
 - Multiplied by
 - The **Dollar Amount of the Loan**
 - Equals
 - Gross Revenue (split with lending agent)
- Non-Cash Loans (less common):
 - A **Fee** is received from the borrower in the form of a flat basis point payment
 - Multiplied by
 - The <u>Dollar Value of the Securities Borrowed</u>
 - Equals
 - Gross Revenue (split with lending agent)



What are the Risks of Securities Lending and How Can Such Risks be Mitigated?

| Borrower Default |
|-------------------------|
| through |
| Insolvency |

Borrower fails to return securities due to bankruptcy/insolvency.

Mitigation Strategies:

- Strict borrower eligibility, client limitations possible, daily marks-to-market.
- The client is generally indemnified by the lending agent for borrower default.

Financial Transaction Errors

Interest/Dividends are not posted accurately, delivery fails, failure to adequately mark to market occurs.

Mitigation Strategies:

- Automated processes and risk management processes are in place.
- The client is generally made whole by responsible party.

Collateral Investment Losses

Cash investment yield underperforms current rebate yield or principal loss occurs. The client is generally **NOT** indemnified against losses on cash collateral investments.

Mitigation Strategies:

Such investments should be governed by policies designed to ensure that they are conservatively managed and monitored.





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Securities Lending Returns

• BlackRock retains a portion of Securities Lending returns in exchange for managing the program. This fee reflects risk management, as well as the technology and personnel costs of maintaining the lending platform. In addition, BlackRock receives a fee for the management of cash collateral. Actual lending yields and fees for strategies represented may vary. Please note, other administrative costs, including but not limited to, accounting, custody and audit fees, may vary. Investors may receive 50% of Securities Lending returns and BlackRock retains 50%, except in cases where a client may negotiate a different compensation arrangement. BlackRock may negotiate different Securities Lending compensation arrangements with our clients depending on a variety of factors, including, but not limited to, the nature and size of the investment and the overall relationship with, and services delivered to, a particular client. Asset spread income is defined as the interest income earned in cash reinvestment funds on collateral balances less the Federal Funds Open Rate until September 14, 2016 and the Overnight Bank Funding Rate beginning September 15, 2016. Liability spread income is defined as the difference between the Federal Funds Open Rate until September 14, 2016 and the Overnight Bank Funding Rate beginning September 15, 2016, versus the rebate rate negotiated with the borrower.

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Important notes (cont.)

- Risk
- Securities Lending involves exposure to certain risks, including cash collateral investment risk (i.e., risk that cash collateral investments, whether in Cash Collateral Funds or otherwise, may not achieve their investment objective, including suffering realized or unrealized loss due to investment performance), "gap" risk (i.e., risk that the return on cash collateral investments is insufficient to pay the rebate fees the Lending Fund or Lending Account has committed to pay to borrowers), liquidity risk (i.e., risk that the cash collateral is invested, directly or through the Cash Collateral Funds, in securities and other instruments that are less liquid than the Lending Fund or Lending Account, which could limit the liquidity available to the Lending Fund or Lending Account for ordinary course transactions), operational risk (i.e., risk of losses resulting from problems in the settlement and accounting process), foreign exchange risk (i.e., risk of a shortfall at default when a cash collateral investment is denominated in a currency other than the currency of the assets being loaned due to movements in foreign exchange rates), and credit, legal, counterparty and market risks. At any particular point in time, investments in the Cash Collateral Funds could comprise a material portion of a Lending Fund's assets.
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