

The Currency Exchange Fund N.V.

Primary Credit Analyst:

Clement Collard, Paris; clement.collard@spglobal.com

Secondary Contacts:

Anastasia Turdyeva, Dublin + (353)1 568 0622; anastasia.turdyeva@spglobal.com

Philippe Raposo, Paris + 33 14 420 7377; philippe.raposo@spglobal.com

Table Of Contents

Credit Highlights

Outlook

Fund Overview And Investment Strategy

Risk-Adjusted Leverage

Funding And Liquidity

Jurisdictional Risk

Other Key Credit Considerations

Assessment As A Government-Related Entity (GRE)

Ratings Score Snapshot

Related Criteria

The Currency Exchange Fund N.V.

Credit Highlights

Issuer Credit Rating

A/Stable/A-1

Overview

Key strengths	Key risks
High likelihood of extraordinary support from 'AAA' rated main shareholders.	Very high exposure to market risk on frontier currencies.
Strong funding and liquidity.	Volatile earnings.
Robust capitalization.	Complex products, pricing, and risk management.

The macroeconomic environment is tough for The Currency Exchange Fund N.V. (TCX), given its exposure to frontier currencies. TCX offers currency hedging for its clients, most of which are its shareholders. This means that it carries significant currency risk. The Russia-Ukraine military conflict has already created significant currency volatility across the Commonwealth of Independent States (CIS). It may seem that TCX's \$32 million loss in February 2022 is limited, compared with its \$128 million loss in March 2020, when COVID-19 started to spread. However, TCX was able to fully recover its COVID-19 losses in 2020. By contrast, S&P Global Ratings expects exposure to CIS currencies to cause further (mark-to-market) losses to TCX due to the expected depreciation in these currencies.

In 2015, during Russia's ruble crisis, TCX incurred a \$93 million loss. We view as positive that TCX currently has no exposure to the Russian ruble or Belarusian ruble. Its net exposure to the Ukrainian hryvnia was limited to \$58 million (3% of TCX's portfolio) in February 2022.

We anticipate that TCX will weather the current turmoil because of its robust capitalization and strong funding and liquidity profile. It has survived previous market downturns. The strength of the fund's capitalization is demonstrated by our quantitative measure of stressed leverage--value at risk (VaR) to net asset value (NAV)--which we estimate was 40% at year-end 2021. It was improved by TCX's large gains in 2016-2021, which totaled \$359 million. As a result, TCX had a \$570 million buffer in February 2022, before triggering its 14% minimum capital ratio. TCX also has a strong funding and liquidity profile; its balance sheet is very liquid and its investor base is stable.

We expect the fund's shareholders to support it, if necessary. TCX offers its shareholders centralization and diversification of their currency risk associated with frontier markets. Although TCX's shareholders expect positive returns in the long term, the fund is not driven by profit maximization. Instead, it aims to grant hedges to its shareholders. As such, even if TCX were to suffer from valuation losses, we anticipate that the fund would ultimately be supported by its shareholders and possibly by the European Commission. TCX has adjusted its pricing in light of fluctuations in CIS currencies and will continue to offer hedging services for those currencies to its shareholder-clients.

Outlook

The stable outlook indicates that we expect TCX to maintain leverage at about its current level over the next two years, despite increased recourse to hybrid financing. The stable outlook also signifies that the fund will likely retain the support of its main shareholders and government investors. Maintaining this symbiosis with shareholders is essential to TCX's activity.

Downside scenario

We could downgrade TCX should through-the-cycle investment performance fall short of its mandate, or its leverage increase significantly, as demonstrated by the VaR/NAV ratio significantly and sustainably exceeding 55%. We could also downgrade TCX should governments' stance toward its mission become less supportive, or if the dilution in ownership increased the risk that support to the fund would not be timely.

Upside scenario

We could upgrade TCX should it display resilient performance amid difficult conditions for frontier and emerging market currencies, given the Russia-Ukraine military conflict, and if its financial profile, especially leverage, durably improves.

Fund Overview And Investment Strategy

TCX is a fund incorporated in the Netherlands under an Alternative Investment Fund Managers license. It started operating in January 2008 to assist its shareholders--mostly development banks of highly rated sovereigns or multilateral financial institutions--with their public policy roles. Via its hedging activity, TCX promotes long-term local currency financing in frontier and emerging markets.

Most of the currency hedging TCX provides is in the form of nondeliverable cross-currency swaps, and most of it goes to its shareholders. The fund had \$3.3 billion of notional derivatives with long positions on local currencies as of February 2022, and \$1.9 billion on a net basis (after taking into account short local currency positions). TCX has 19 shareholders, the largest of which are KfW, the European Bank for Reconstruction and Development (EBRD), Nederlandse Financierings-Maatschappij voor Ontwikkelingslanden N.V. (FMO), and the European Investment Bank, all of which we rate 'AAA' (see table 1). In 2021, Japan Bank for International Cooperation (JBIC) and the African Development Bank exited TCX's equity, reducing its equity by \$75 million. This was partly offset by equity inflow from International Finance Corp. for \$20 million.

Table 1

TCX's Main Shareholders As Of End 2021

Shareholders	Ratings	% of shares	Number of shares
KfW	AAA/Stable/A-1+	17.9%	188.0
European Bank for Reconstruction and Development	AAA/Stable/A-1+	17.9%	188.0
Nederlandse Financierings-Maatschappij voor Ontwikkelingslanden N.V. (FMO)	AAA/Stable/A-1+	17.9%	188.0
European Investment Bank	AAA/Stable/A-1+	11.4%	120.0
International Finance Corp.	AAA/Stable/A-1+	9.6%	101.0
Agence Francaise de Developpement	AA/Stable/A-1+	7.6%	80.0
Other shareholders	-	17.9%	188.0

Source: S&P Global Ratings, TCX.

Through the fund, shareholders diversify and mutualize currency risk on frontier and emerging market currencies, which are relatively illiquid and volatile against the dollar and benefit from scale effects in terms of knowledge, analytics, and operations. TCX provides its shareholders with hedges on currencies or tenors not provided, or not adequately priced, by banks. Should banks start offering similar products, the fund would cease to quote derivatives in

the corresponding currency (by virtue of its additionality principle). TCX's shareholders still support some foreign-exchange-related risk and costs via their participation in the fund, but, on average, less than they would individually were their exposures unhedged, due to risk diversification across a large number of currencies (55 as of Dec. 31, 2021). Because of TCX's nonspeculation principle, it offers only pure hedges, which are priced in relation to their risk. TCX only supports currency risk arising from its clients' lending operations and does not itself offer funding.

Risk-Adjusted Leverage

TCX benefits from a stable stressed-leverage profile

Market risk from derivatives is by far the main risk the fund is exposed to (currency risk, followed by interest-rate risk). This risk accounted for 93% of risk-weighted assets reported by the fund in February 2022. We assess this risk, including concentration risks (by region and currency), in our calculation of VaR. Our VaR is on a one-year horizon at a 99.7% level. We derive it from the observed volatility of the fund's performance since inception, assuming a normal distribution of returns but with fatter tails.

We calculated VaR-to-NAV at 40% as of year-end 2021, an improvement over the past two years thanks to increasing NAV, despite the historically high market volatility in early 2020. Although market movements are by nature difficult to predict, we nonetheless expect TCX's stressed leverage to worsen due to expected losses on CIS currencies, which comprised 30% of the fund's net exposure in February 2022. That said, we consider that TCX has a robust stressed leverage profile.

The denominator of our stressed leverage metric, NAV, excludes a number of debt instruments, typically from governments, which rank junior to senior (derivative) counterparties in a liquidation scenario (see chart 1). We acknowledge their benefit for senior (derivatives) counterparties and reflect it qualitatively in our analysis. Therefore, should the fund's capital structure be more skewed toward those subordinated debt instruments, and less toward equity, our VaR-to-NAV ratio could deteriorate beyond 50%. However, based on our qualitative analysis of these instruments, it is unlikely that such a shift in the capital structure will have a rating impact, as long as VaR-to-NAV remains well below 75%. Nevertheless, our assessment of the risk-adjusted leverage, on its own, might change in such a scenario.

Chart 1

TCX's Senior Counterparties Are Protected In Liquidation By Equity And Various Types Of Debt Instruments

TCX's simplified capital structure as of end-December 2021

Seniority in liquidation ↑	Senior counterparties	Derivative counterparties (TCX's shareholders primarily)
	Net asset value \$829 million 'A' shares only currently Exit option with 20% annual cap of total 'A' shares, right to request on or before Dec. 2040, and full redemption by 2045 Redemptions are subject to risk limit and other restrictions	TCX's shareholders (see table 1)
	Convertible subordinated debt \$269.5million* Convertible at all times into 'B' shares by investors Redeemable in full in 2025 (Dutch government) or 2045 (all others)	German, Dutch, British and Swiss governments
	First loss loan \$11 million Principal resets to zero in a liquidation scenario Redeemable in full in 2025	Dutch government

*Furthermore, TCX's creditors might benefit from €145 million unfunded CSLs, maturing in 2035, granted by the European Commission (of which €80 million activated irrevocably at year-end 2021).

Source: S&P Global Ratings.

Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

VaR-to-NAV adequately captures TCX's exposure to market risk

The risk position assessment refines our purely quantitative stressed leverage assessment. We believe our stressed leverage metric adequately captures the fund's exposure to market risk, hence our neutral assessment of the risk position.

In particular, we see no significant incremental risk from TCX's strategy. In our view, the fund has stuck to its mission, which is to support market creation by providing hedging on currencies and maturities not provided by banks; market deepening, by providing support to bond issuances in local currency by some of its shareholders; and knowledge sharing.

We also take into consideration TCX's own market risks stress tests, which assess, using 24 years of monthly data and the current portfolio mix, the worst one, three, six and 12-month performance TCX would have experienced historically (diversified stress test) or would experience if all the currencies in the portfolio simultaneously recorded their worst historical performance (undiversified stress test).

In our view, TCX has successfully delivered on its mission. Despite shareholder equity reducing by 9% in 2021, TCX's NAV rose by 4%, thanks to its \$107 million net income. This represents its second-largest profit and boosted the fund's retained earnings.

Table 2

TCX's Financial Statements														
(Mil. \$)														
--Year ended Dec. 31--														
Statement of financial position	2021	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Assets	1,414.1	1,458.3	1,319.9	988.5	909.6	861.9	803.2	765.9	781.8	756.3	711.1	670.4	565.1	451.8
Cash and cash equivalents	128.1	92.7	79.0	40.8	73.3	36.2	57.7	33.9	31.0	40.9	29.6	24.3	51.5	25.7
Securities	1,014.9	1,052.6	956.0	767.9	717.7	687.6	599.0	663.1	714.0	669.5	639.7	614.7	500.9	391.9
Cash collateral posted by TCX	116.0	139.6	129.6	99.2	43.6	67.2	86.7	39.3	15.6	20.7	24.2	12.1	0.0	31.9
Swap portfolio and other assets	155.2	173.4	155.2	80.7	75.0	70.8	59.8	29.6	21.2	25.2	17.6	19.3	12.7	2.3
Liabilities	1,414.1	1,458.3	1,319.9	988.5	909.6	861.9	803.2	765.9	781.8	756.3	711.1	670.4	565.1	451.8
Cash collateral received	34.7	41.7	25.0	18.2	18.5	20.0	21.5	5.4	7.7	6.5	0.0	2.9	7.5	0.0
Swap portfolio	248.6	323.9	250.2	209.5	102.2	145.8	202.7	123.8	47.8	37.7	48.7	27.6	16.8	68.8
Other liabilities	21.1	21.1	13.0	7.8	11.2	7.2	12.3	10.0	9.4	9.9	8.9	4.4	3.5	1.2
Capital	1,109.7	1,071.7	1,031.6	753.0	777.7	688.8	566.6	626.8	717.0	702.4	653.5	635.6	537.3	381.8
Redeemable capital	829.2	795.5	751.3	508.6	558.4	496.3	385.1	478.0	568.2	553.6	524.7	506.8	426.2	345.6
Subordinated convertible debt	269.5	259.9	257.7	216.6	188.3	161.5	161.5	128.8	128.8	128.8	128.8	128.8	111.1	36.2
First loss loan	10.9	10.9	10.9	10.9	10.9	10.9								
Subordinated loan	0.0	5.3	11.7	17.0	20.2	20.1	20.0	20.0	20.0	20.0	0.0	0.0	0.0	0.0
Statement of comprehensive income	2021*	2020	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008
Investment result	128.4	37.8	134.1	(14.0)	91.4	79.9	(75.9)	(43.6)	38.4	67.4	11.2	33.1	82.6	(55.3)
Other result	(6.3)	(4.6)	(7.8)	(7.2)	1.8	(5.0)	(6.9)	(6.9)	0.5	0.6	(3.3)	(2.6)	(1.1)	(2.5)
Operational expenses	(14.7)	(12.9)	(12.0)	(10.9)	(9.5)	(9.2)	(10.2)	(10.7)	(10.6)	(10.7)	(9.0)	(7.7)	(8.4)	(7.2)
Net operating income	107.4	20.2	114.3	(32.0)	83.7	65.7	(92.9)	(61.2)	28.3	57.3	(1.1)	22.8	73.0	(65.0)

*Exchange-rate translation results subject to final allocation. Source: S&P Global Ratings, TCX.

Funding And Liquidity

Strong funding profile due to stable equity and debt investors

TCX has a strong funding profile, in our view. Equity funding comes through fund users, whose incentive to withdraw funds is therefore extremely low. JBIC left the fund's equity without ever using TCX services. Withdrawals are also subject to a 20% annual cap and possible only if they do not push TCX's capital ratio below its minimum internal requirement (18% of risk-weighted assets, as computed by the fund). TCX has 19 equity investors, which are mostly highly rated multilateral lending institutions (MLI) and development banks. None of the largest investors has left the fund since its inception. The three largest investors (KfW, EBRD, and FMO) hold 54% of TCX's shares. Debt funding is mainly provided by the Dutch, German, and U.K. governments, predominantly in the form of convertible subordinated loans, which we view as very stable. Of the debt, \$82 million matures in 2025 and \$199 million in 2045.

Strong liquidity due to a very liquid balance sheet

TCX's liquidity is strong, in our view. Our liquidity ratio (liquidity reserve/[NAV + long-term debt]) amounted to 88% at end-2021, which is very strong by our standards. By our calculation, the fund has maintained this ratio above 82% through its life. Liquidity is one of the fund's structural strengths and we don't expect this to change. TCX's balance sheet essentially comprises highly rated securities (almost all in the 'AA' or 'AAA' categories) and cash.

Jurisdictional Risk

Our assessment of jurisdictional risk is neutral for the rating, reflecting our view of payment culture, rule of law, governance, and transparency in the Netherlands.

Other Key Credit Considerations

TCX's investment performance is in line with its mandate

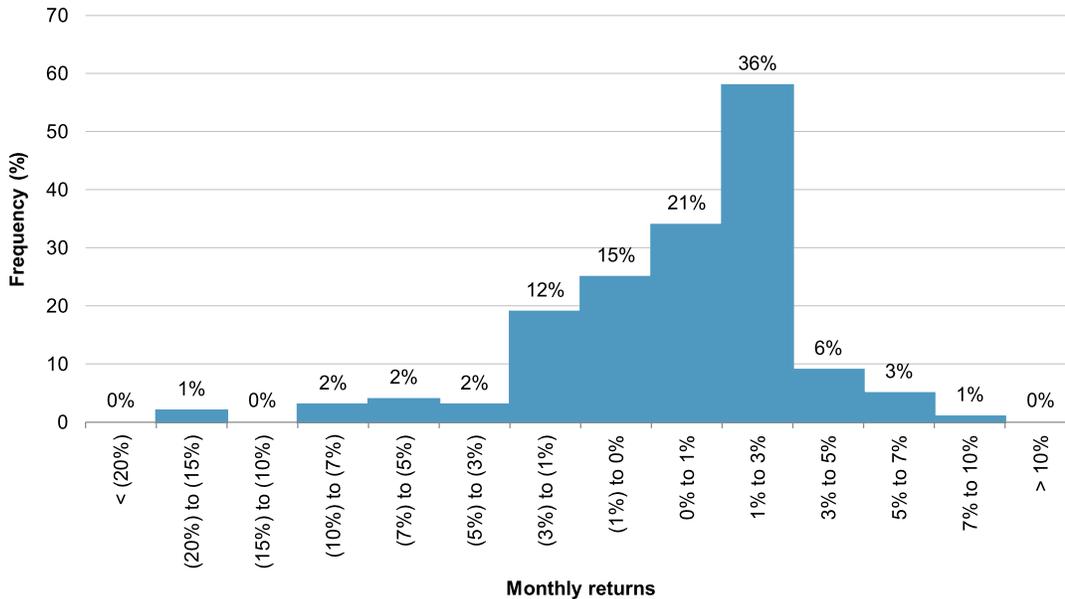
Earnings are structurally highly volatile. They are driven by changes in the mark-to-market of the derivatives portfolio, which depend on the exchange rate between the U.S. dollar and the relevant frontier and emerging market currencies, as well as interest rates in these markets.

The distribution of monthly returns since inception (see chart 2) is positively oriented, demonstrating TCX's ability to generate positive returns more often than not, to compensate for occasional negative performance. Although the frequency of significant negative return (nine months in which profit on NAV was below -5%) is higher than the frequency of large positive return (six months in which profit on NAV was above 5%), 67% of the monthly returns have been positive and the fund has had a 32 basis point average monthly return since June 2008. Accordingly, we consider that TCX's profitability is adequate, given its long-term target.

Chart 2

Good Times Prepare For Bad Times

Distribution of monthly returns is positively oriented



Source: S&P Global Ratings.

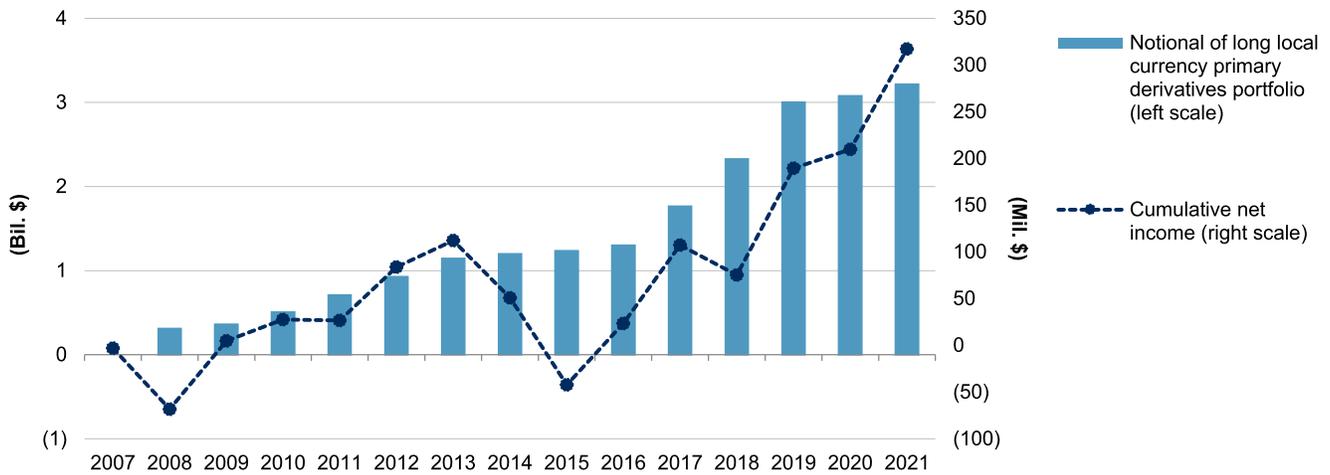
Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

We would not consider negative NAV performance for several consecutive months to be an issue from a credit perspective, so long as the fund's business model remains sustainable, in terms of through-the-cycle profit and loss, risk management, and links with shareholders. In particular, we do not view the confidence of TCX's shareholders as sensitive to short-term negative performance.

In our view, governance partially explains TCX's overall good performance (see chart 3). Valuation levels are set independently by a pricing committee, which consists of five voting members who have expertise in derivatives pricing in emerging markets, and none of whom is employed by the fund. TCX has two representatives on this committee, but no voting rights. This governance favors the fair valuation of derivative contracts.

Chart 3

TCX Has A Track Record Of Sustainable Growth
Cumulative profit supports TCX growth and solvency



Source: S&P Global Ratings, TCX.
Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

TCX uses a Basel-inspired capital framework

The fund has defined, under its own statutes, a Basel-inspired capital framework. Risk-weighted assets, as calculated by TCX, arise in credit, operational, and market risks, the latter of which are by far the main risk drivers.

The fund defines its capital requirement as the sum of the capital required to cover the liquidation trigger event (14% capital ratio) and a Pillar II requirement. The method by which the Pillar II requirement is determined was amended in 2019, such that the total capital ratio covers the higher of a "two times Lehman" scenario and a "99.9% market stress scenario," floored at 18%, which is currently the binding constraint. The fund's capital ratio amounted to 27% as of February 2022, which provides a \$339 million buffer against the 18% threshold.

Should total capital fall below the own minimum capital requirement (18%), TCX would be required to take action to reduce the chances of sliding toward the 14% liquidation trigger event. This trigger provides some protection against the fund reaching the liquidation trigger event, although it might not cushion against the effect of abrupt and lasting market movements.

Shareholders have also agreed to additional restrictions to redemption, including a clause preventing capital redemption if it would lead to the total capital ratio dropping to less than 18%. This provides an additional protection against reaching the liquidation trigger event.

Should the capital ratio fall below the liquidation trigger event, we understand that, as per the fund's statutes, all shareholders would have to discuss a resolution at short notice, agree to provide additional capital, wait for a recovery, or liquidate the fund within 18 months by unwinding its positions. Swaps with all counterparties contain clauses that

allow TCX and the swap counterparties to unwind existing swap positions after the liquidation event in an orderly manner.

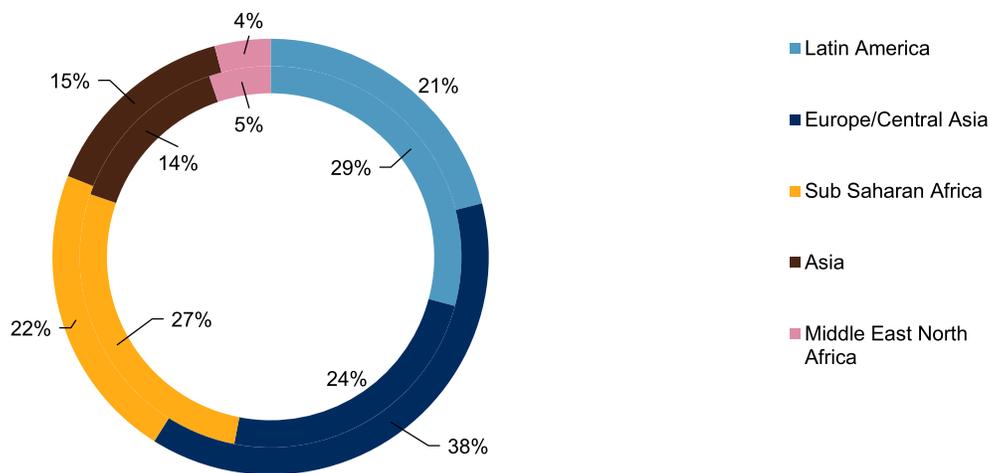
TCX manages market risk via concentration limits (by currency and regions) and the use of offsetting hedges to remain within those limits.

The fund has set concentration limits by currency (the net notional exposure cannot exceed 25% of total capital or 10% of the maximum potential net portfolio, assuming a constant mix and a capital ratio of 18%) and region (limit of 30%-50% of the maximum potential net portfolio). Over the past five years, most of TCX's growth has been based on currencies in Europe/Central Asia (see chart 4), particularly on the Georgia, Uzbekistan, and Kazakhstan currencies.

Chart 4

TCX's Growth In Recent Years Was Driven By Currencies In Europe/Central Asia

Evolution of the geographical breakdown of TCX's net currency exposures between 2016 (inner circle) and 2021 (outer circle)



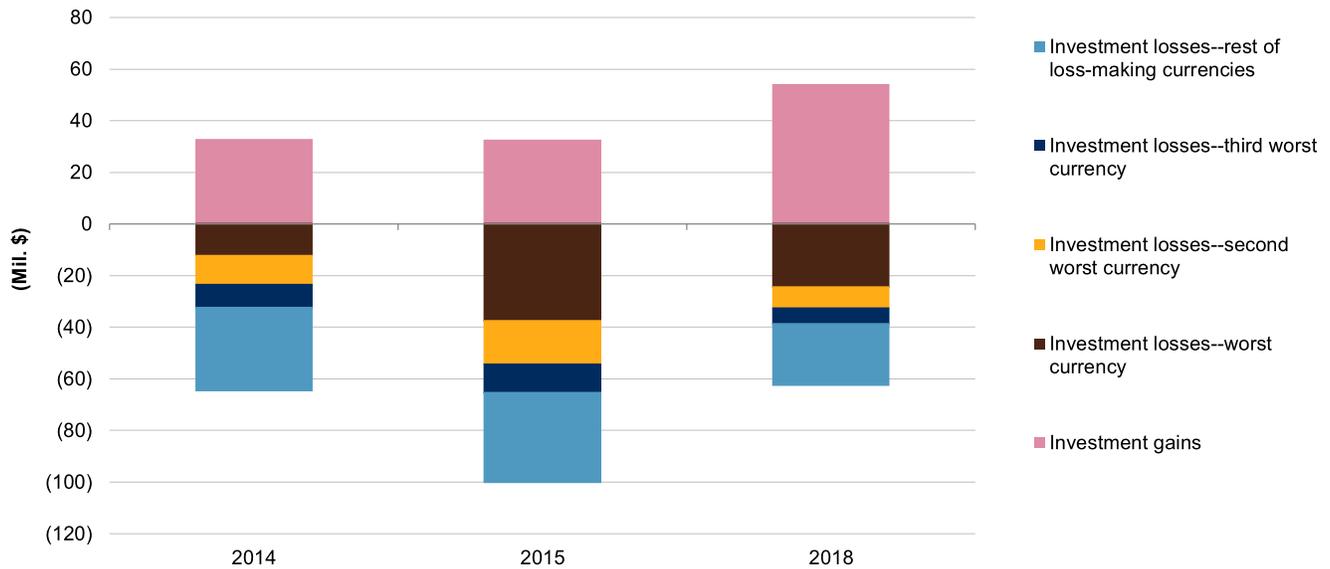
Source: S&P Global Ratings.
 Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

Despite these limits and the fund's relative granularity, with 55 currencies covered end-2021, just a few currencies can create negative performance. For instance, in the past three loss-making years (2014, 2015, and 2018), three currencies accounted for more than half of TCX's investment losses (see chart 5). Although we cannot predict how CIS currencies will evolve in 2022, the potential for heavy losses on those currencies could be mitigated by the diversification effect. Indeed, the fund's negative performance in 2014, 2015, and 2018 was partially mitigated by gains on certain currencies, highlighting the diversification benefit even in times of stress.

Chart 5

Diversification Usually Mitigates Total Losses When Emerging Markets Are Under Stress

Breakdown of investment performance during recent loss-making years



Source: S&P Global Ratings, TCX.

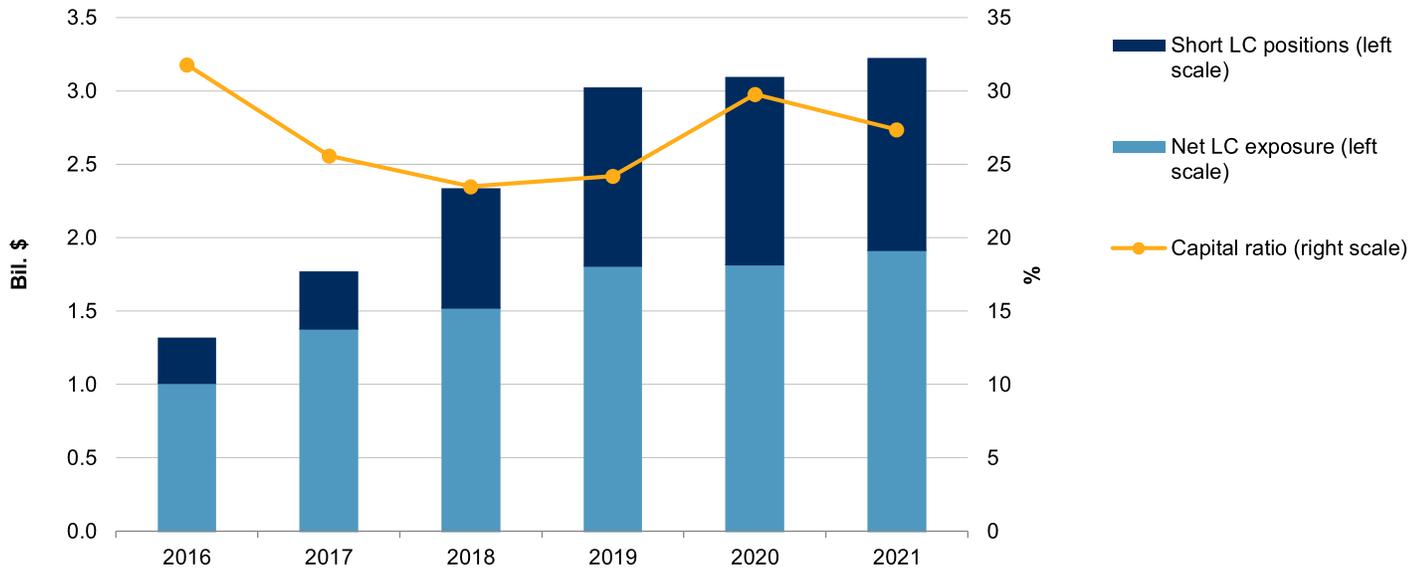
Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

Offsetting hedges play an important role in maintaining the composition of the portfolio within set limits, by currency and by region. TCX supports the issuance of local currency-linked bonds and notes by some of its shareholders, which the fund then swaps to U.S. dollars. This provides it with short positions on some of the local currencies on which it has a long position via its primary derivatives portfolio, reducing its net exposure to some of the local currencies and regions, while contributing to the development of local currency bond markets. This risk management technique has become more important since 2018, and is used to support TCX's strong growth and optimize its capital usage. Growth was later slowed by the pandemic (see chart 6). At the end of 2021, short positions on currencies accounted for 41% of TCX's long positions.

Chart 6

TCX Growth Was Reduced By The Pandemic

Capital remained resilient thanks to short local currency positions



LC--Local currency. Source: S&P Global Ratings.
 Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

Level 3 assets expose TCX to model risk

The derivatives the fund provides qualify as level 3 assets whose valuation technique uses inputs not observable in the market. This exposes TCX to model risk.

We note the fund's very good transparency, with frequent (monthly) and comprehensive reporting.

The nonprofit maximization profile weighs on the rating

TCX's reward-to-risk profile is lower than for a typical fund. This is not surprising because profit maximization is not in the fund's mandate, and its owners are typically not-for-profit entities focused on maximizing their development impact. Since 2008, TCX has nonetheless generated 44% of its capital growth from retained earnings, 34% from debt issuance (mostly through convertible subordinated loans), and 22% from shareholder equity increase.

Assessment As A Government-Related Entity (GRE)

Our view of a high likelihood of extraordinary support is based on our assessment of TCX's important role for, and its very strong link to, its dominant owners and their related governments. Despite the Russia-Ukraine conflict, we still view the political context for the development of TCX's activities as positive in the long run.

We assess TCX's role as important, because it operates as an independent entity that contributes to the provision of an

important public policy mandate by its shareholders and their related governments. TCX, via its shareholders, supports Official Development Assistance (ODA) and Sustainable Energy for All (SE4ALL) programs. The Netherlands, Germany, France, and U.K. are all members of the OECD Development Assistance Committee, an international forum that promotes development cooperation and other policies to contribute to sustainable development in developing countries.

Our assessment of TCX's important role for its dominant owners indicates that the fund's activities are not focused on the owners' domestic markets, and that these activities do not have systemic relevance. TCX's role for its owners could decrease if governments adopted a less supportive stance toward OECD initiatives. In such a scenario, we expect that owners would have the fund run down its operations in an orderly manner and provide support, if necessary, until it finishes its operations.

We assess TCX's link to its dominant owners as very strong, because they created the fund, provided it with capital as an independent entity, and maintain a strong influence on its strategic and business plans.

Although TCX's shareholders are entitled to start claiming capital redemptions gradually, we expect no major claims for capital redemptions that would threaten the fund's financial strength. Furthermore, if shareholders wish to exercise this option, withdrawal rights are capped to 20% of total capital per year.

S&P Global Ratings acknowledges a high degree of uncertainty about the extent, outcome, and consequences of the military conflict between Russia and Ukraine. Irrespective of the duration of military hostilities, sanctions and related political risks are likely to remain in place for some time. Potential effects could include dislocated commodities markets -- notably for oil and gas -- supply chain disruptions, inflationary pressures, weaker growth, and capital market volatility. As the situation evolves, we will update our assumptions and estimates accordingly. See our macroeconomic and credit updates here: [Russia-Ukraine Macro, Market, & Credit Risks](#). Note that the timing of publication for rating decisions on European issuers is subject to European regulatory requirements.

Ratings Score Snapshot

Issuer credit rating: A/Stable/A-1

Risk-adjusted leverage: Adequate

- Stressed leverage: Adequate
- Risk position: Adequate

Funding and liquidity: Strong

- Funding: Strong
- Liquidity: Strong

Preliminary anchor: a-

Jurisdictional risk: Neutral

Anchor: a-

Modifiers

- Track record and investment performance: Neutral
- Risk management: Neutral
- Transparency and complexity: Negative
- Comparable rating analysis: Unfavorable

Stand-alone credit profile: bbb

- Likelihood of extraordinary government support: High (+3 notches)

Related Criteria

- Criteria | Financial Institutions | Other: Alternative Investment Funds Methodology, Dec. 9, 2021
- General Criteria: Environmental, Social, And Governance Principles In Credit Ratings, Oct. 10, 2021
- General Criteria: Hybrid Capital: Methodology And Assumptions, July 1, 2019
- Criteria | Corporates | General: Corporate Methodology: Ratios And Adjustments, April 1, 2019
- General Criteria: Methodology For Linking Long-Term And Short-Term Ratings, April 7, 2017
- General Criteria: Rating Government-Related Entities: Methodology And Assumptions, March 25, 2015
- General Criteria: Principles Of Credit Ratings, Feb. 16, 2011

Ratings Detail (As Of April 25, 2022)*

Currency Exchange Fund N.V. (The)

Issuer Credit Rating A/Stable/A-1

Issuer Credit Ratings History

26-Jul-2018 A/Stable/A-1

16-Jan-2017 A-/Stable/A-2

23-Feb-2015 A-/Negative/A-2

Sovereign Rating

Netherlands AAA/Stable/A-1+

*Unless otherwise noted, all ratings in this report are global scale ratings. S&P Global Ratings' credit ratings on the global scale are comparable across countries. S&P Global Ratings' credit ratings on a national scale are relative to obligors or obligations within that specific country. Issue and debt ratings could include debt guaranteed by another entity, and rated debt that an entity guarantees.

Copyright © 2022 by Standard & Poor's Financial Services LLC. All rights reserved.

No content (including ratings, credit-related analyses and data, valuations, model, software or other application or output therefrom) or any part thereof (Content) may be modified, reverse engineered, reproduced or distributed in any form by any means, or stored in a database or retrieval system, without the prior written permission of Standard & Poor's Financial Services LLC or its affiliates (collectively, S&P). The Content shall not be used for any unlawful or unauthorized purposes. S&P and any third-party providers, as well as their directors, officers, shareholders, employees or agents (collectively S&P Parties) do not guarantee the accuracy, completeness, timeliness or availability of the Content. S&P Parties are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, for the results obtained from the use of the Content, or for the security or maintenance of any data input by the user. The Content is provided on an "as is" basis. S&P PARTIES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE, FREEDOM FROM BUGS, SOFTWARE ERRORS OR DEFECTS, THAT THE CONTENT'S FUNCTIONING WILL BE UNINTERRUPTED OR THAT THE CONTENT WILL OPERATE WITH ANY SOFTWARE OR HARDWARE CONFIGURATION. In no event shall S&P Parties be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs or losses caused by negligence) in connection with any use of the Content even if advised of the possibility of such damages.

Credit-related and other analyses, including ratings, and statements in the Content are statements of opinion as of the date they are expressed and not statements of fact. S&P's opinions, analyses and rating acknowledgment decisions (described below) are not recommendations to purchase, hold, or sell any securities or to make any investment decisions, and do not address the suitability of any security. S&P assumes no obligation to update the Content following publication in any form or format. The Content should not be relied on and is not a substitute for the skill, judgment and experience of the user, its management, employees, advisors and/or clients when making investment and other business decisions. S&P does not act as a fiduciary or an investment advisor except where registered as such. While S&P has obtained information from sources it believes to be reliable, S&P does not perform an audit and undertakes no duty of due diligence or independent verification of any information it receives. Rating-related publications may be published for a variety of reasons that are not necessarily dependent on action by rating committees, including, but not limited to, the publication of a periodic update on a credit rating and related analyses.

To the extent that regulatory authorities allow a rating agency to acknowledge in one jurisdiction a rating issued in another jurisdiction for certain regulatory purposes, S&P reserves the right to assign, withdraw or suspend such acknowledgment at any time and in its sole discretion. S&P Parties disclaim any duty whatsoever arising out of the assignment, withdrawal or suspension of an acknowledgment as well as any liability for any damage alleged to have been suffered on account thereof.

S&P keeps certain activities of its business units separate from each other in order to preserve the independence and objectivity of their respective activities. As a result, certain business units of S&P may have information that is not available to other S&P business units. S&P has established policies and procedures to maintain the confidentiality of certain non-public information received in connection with each analytical process.

S&P may receive compensation for its ratings and certain analyses, normally from issuers or underwriters of securities or from obligors. S&P reserves the right to disseminate its opinions and analyses. S&P's public ratings and analyses are made available on its Web sites, www.standardandpoors.com (free of charge), and www.ratingsdirect.com (subscription), and may be distributed through other means, including via S&P publications and third-party redistributors. Additional information about our ratings fees is available at www.standardandpoors.com/usratingsfees.

STANDARD & POOR'S, S&P and RATINGSDIRECT are registered trademarks of Standard & Poor's Financial Services LLC.