T. ROWE PRICE INSIGHTS

FROM OUR GLOBAL FIXED INCOME TEAM



Five U.S. Dollar Themes to Watch

The currency has remained resilient despite the slowing U.S. economy.

September 2019

KEY INSIGHTS

- Interest rate cuts are usually associated with currency depreciation, but this is not always the case with the U.S. dollar.
- A key factor in determining the value of the dollar is how U.S. growth compares with that of other countries.
- The U.S. dollar's status as a safe-haven asset remains intact.

he U.S. dollar has proved resilient so far this year despite the U.S. economy slowing. During our latest policy meetings, the investment team discussed the dynamics driving the currency. Below, Quentin Fitzsimmons, a portfolio manager and member of the global fixed income investment team, outlines the five key themes that we believe investors should monitor.

1. Interest Rate Cuts Do Not Always Trigger U.S. Dollar Weakness

The Federal Reserve (Fed) cut interest rates in July for the first time since the global financial crisis and followed it up with a second cut in September; some market participants expect a further cut in December. Interest rate cuts are usually associated with currency depreciation, but that has not always been the case for the U.S. dollar. In fact, during the last four U.S. rate-cutting cycles, the dollar has only weakened on one occasion (see Fig. 1). With that in mind, going underweight the dollar because the Fed is expected to cut

could be a dangerous game. There are many other factors that need to be taken into consideration.

2. Growth Differentials Influence the U.S. Dollar More Than U.S. Growth Itself

The dollar has remained strong this year despite the slowing U.S. economy. This is because the way the U.S. economy performs relative to other countries influences the currency more than U.S. growth per se—and in 2019 so far, European growth has disappointed more than U.S. growth. Italy's economy, for example, stagnated in the second quarter, while the UK experienced a contraction in the three months to June. Perhaps more importantly, in Germany-Europe's largest economy-the manufacturing sector is suffering a recession as trade tensions weigh on export demand. Unless the differential between the two major economies reverses, it is difficult to see how the dollar can significantly weaken against the euro.

Global Fixed Income Team



Arif Husain



Andrev Keirle



Kenneth Orchard



Quentin Fitzsimmons



Ju Yen Tan

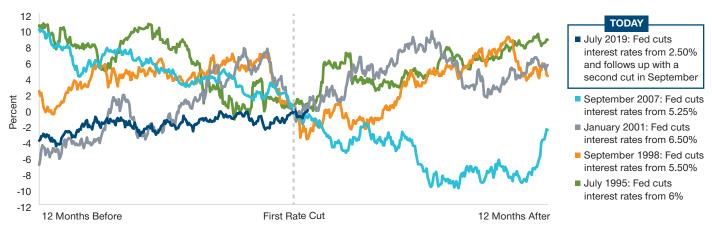


Saurabh Sud

Each month, our portfolio managers, analysts, and traders conduct an in-depth review of the full fixed income opportunity set. This article highlights a key theme discussed.

(Fig. 1) U.S. Dollar Behavior Around Rate Cut Cycles

% Move in the U.S. Dollar Before and After First Rate Cut by the Fed As of September 13, 2019



Source: U.S. Dollar Spot Index, analysis by T. Rowe Price.

3. The U.S. Dollar Remains Attractive From a Carry Perspective

In the developed market space, investors can earn one of the highest carry rates by the U.S. dollar. Even if the Fed's cuts in July and September are followed by others, the dollar is likely to remain attractive for some time from a carry perspective as U.S. interest rates are so much higher than places such as Japan and Switzerland, where rates are negative. That said, when hedging costs are taken into account, U.S. dollar-based assets can be less appealing for foreign investors. On the surface, for example, U.S. 10-year Treasuries appear much more attractive than 10-year German bunds, but that yield advantage effectively disappears if the cost of hedging dollars back to euros is taken into consideration.

4. Tariffs and Trade Wars Create Currency Volatility, not Direction

The impact of tariffs on currencies is difficult to assess. While protectionism should be supportive of the local economy, an efficient market will simply undo the impact to the terms of trade caused by a tariff, sometimes encouraging the protected country's currency to actually appreciate. Indeed, this may have been an unintended

consequence of President Trump's strategy. Following a particularly difficult round of tariff negotiations, Chinese authorities recently let the renminbi fall to its weakest level against the dollar in more than a decade but kept its value versus a broad basket of other currencies relatively unchanged. Currencies are increasingly being used as political tools, and as the trade negotiations between the two sides go on, we may not have seen the last of the measures. Against this backdrop, volatility is expected, and perhaps the best way to benefit from this is through the use of currency options.

5. The Dollar's Safe-Haven Status Remains Intact

During times of stress, investors flock to the U.S. dollar—a trend that looks unlikely to change anytime soon. The U.S. dollar is where liquidity ends up being trapped in this low-yield environment. This trend is amplified by the inversion of the U.S. Treasury curve as parking cash in money market funds has become much more attractive now. Although the Swiss franc and the Japanese yen have been well bid this year as uncertainty has increased, the U.S. dollar remains king for investors looking for safety. This is unlikely to change.

INVEST WITH CONFIDENCESM

T. Rowe Price focuses on delivering investment management excellence that investors can rely on—now and over the long term.

T.RowePrice®

Important Information

This material is being furnished for general informational purposes only. The material does not constitute or undertake to give advice of any nature, including fiduciary investment advice, and prospective investors are recommended to seek independent legal, financial and tax advice before making any investment decision. T. Rowe Price group of companies including T. Rowe Price Associates, Inc. and/or its affiliates receive revenue from T. Rowe Price investment products and services. **Past performance is not a reliable indicator of future performance.** The value of an investment and any income from it can go down as well as up. Investors may get back less than the amount invested.

The material does not constitute a distribution, an offer, an invitation, a personal or general recommendation or solicitation to sell or buy any securities in any jurisdiction or to conduct any particular investment activity. The material has not been reviewed by any regulatory authority in any jurisdiction.

Information and opinions presented have been obtained or derived from sources believed to be reliable and current; however, we cannot guarantee the sources' accuracy or completeness. There is no guarantee that any forecasts made will come to pass. The views contained herein are as of the date written and are subject to change without notice; these views may differ from those of other T. Rowe Price group companies and/or associates. Under no circumstances should the material, in whole or in part, be copied or redistributed without consent from T. Rowe Price.

The material is not intended for use by persons in jurisdictions which prohibit or restrict the distribution of the material and in certain countries the material is provided upon specific request. It is not intended for distribution to retail investors in any jurisdiction.

Australia—Issued in Australia by T. Rowe Price Australia Limited (ABN: 13 620 668 895 and AFSL: 503741), Level 50, Governor Phillip Tower, 1 Farrer Place, Suite 50B, Sydney, NSW 2000, Australia. For Wholesale Clients only.

Brunei—This material can only be delivered to certain specific institutional investors for informational purpose upon request only. The strategy and/or any products associated with the strategy has not been authorised for distribution in Brunei. No distribution of this material to any member of the public in Brunei is permitted.

Canada—Issued in Canada by T. Rowe Price (Canada), Inc. T. Rowe Price (Canada), Inc.'s investment management services are only available to Accredited Investors as defined under National Instrument 45-106. T. Rowe Price (Canada), Inc. enters into written delegation agreements with affiliates to provide investment management services.

China—This material is provided to specific qualified domestic institutional investor or sovereign wealth fund on a one-on-one basis. No invitation to offer, or offer for, or sale of, the shares will be made in the People's Republic of China ("PRC") (which, for such purpose, does not include the Hong Kong or Macau Special Administrative Regions or Taiwan) or by any means that would be deemed public under the laws of the PRC. The information relating to the strategy contained in this material has not been submitted to or approved by the China Securities Regulatory Commission or any other relevant governmental authority in the PRC. The strategy and/or any product associated with the strategy may only be offered or sold to investors in the PRC that are expressly authorized under the laws and regulations of the PRC to buy and sell securities denominated in a currency other than the Renminbi (or RMB), which is the official currency of the PRC. Potential investors who are resident in the PRC are responsible for obtaining the required approvals from all relevant government authorities in the PRC, including, but not limited to, the State Administration of Foreign Exchange, before purchasing the shares. This document further does not constitute any securities or investment advice to citizens of the PRC, or nationals with permanent residence in the PRC, or to any corporation, partnership, or other entity incorporated or established in the PRC.

DIFC—Issued in the Dubai International Financial Centre by T. Rowe Price International Ltd. This material is communicated on behalf of T. Rowe Price International Ltd. by its representative office which is regulated by the Dubai Financial Services Authority. For Professional Clients only.

EEA ex-UK—Unless indicated otherwise this material is issued and approved by T. Rowe Price (Luxembourg) Management S.à r.I. 35 Boulevard du Prince Henri L-1724 Luxembourg which is authorised and regulated by the Luxembourg Commission de Surveillance du Secteur Financier. For Professional Clients only.

Hong Kong—Issued in Hong Kong by T. Rowe Price Issued by T. Rowe Price Hong Kong Limited, 6/F, Chater House, 8 Connaught Road Central, Hong Kong. T. Rowe Price Hong Kong Limited is licensed and regulated by the Securities & Futures Commission. For Professional Investors only.

Indonesia—This material is intended to be used only by the designated recipient to whom T. Rowe Price delivered; it is for institutional use only. Under no circumstances should the material, in whole or in part, be copied, redistributed or shared, in any medium, without prior written consent from T. Rowe Price. No distribution of this material to members of the public in any jurisdiction is permitted.

Korea—This material is intended only to Qualified Professional Investors upon specific and unsolicited request and may not be reproduced in whole or in part nor can they be transmitted to any other person in the Republic of Korea.

Malaysia—This material can only be delivered to specific institutional investor upon specific and unsolicited request. The strategy and/or any products associated with the strategy has not been authorised for distribution in Malaysia. This material is solely for institutional use and for informational purposes only. This material does not provide investment advice or an offering to make, or an inducement or attempted inducement of any person to enter into or to offer to enter into, an agreement for or with a view to acquiring, disposing of, subscribing for or underwriting securities. Nothing in this material shall be considered a making available of, solicitation to buy, an offering for subscription or purchase or an invitation to subscribe for or purchase any securities, or any other product or service, to any person in any jurisdiction where such offer, solicitation, purchase or sale would be unlawful under the laws of Malaysia.

New Zealand—Issued in New Zealand by T. Rowe Price Australia Limited (ABN: 13 620 668 895 and AFSL: 503741), Level 50, Governor Phillip Tower, 1 Farrer Place, Suite 50B, Sydney, NSW 2000, Australia. No Interests are offered to the public. Accordingly, the Interests may not, directly or indirectly, be offered, sold or delivered in New Zealand, nor may any offering document or advertisement in relation to any offer of the Interests be distributed in New Zealand, other than in circumstances where there is no contravention of the Financial Markets Conduct Act 2013.

Philippines—THE STRATEGY AND/ OR ANY SECURITIES ASSOCIATED WITH THE STRATEGY BEING OFFERED OR SOLD HEREIN HAVE NOT BEEN REGISTERED WITH THE SECURITIES AND EXCHANGE COMMISSION UNDER THE SECURITIES REGULATION CODE. ANY FUTURE OFFER OR SALE OF THE STRATEGY AND/ OR ANY SECURITIES IS SUBJECT TO REGISTRATION REQUIREMENTS UNDER THE CODE, UNLESS SUCH OFFER OR SALE QUALIFIES AS AN EXEMPT TRANSACTION.

Singapore—Issued in Singapore by T. Rowe Price Singapore Private Ltd., No. 501 Orchard Rd, #10-02 Wheelock Place, Singapore 238880. T. Rowe Price Singapore Private Ltd. is licensed and regulated by the Monetary Authority of Singapore. For Institutional and Accredited Investors only.

South Africa—T. Rowe Price International Ltd ("TRPIL") is an authorised financial services provider under the Financial Advisory and Intermediary Services Act, 2002 (FSP Licence Number 31935), authorised to provide "intermediary services" to South African investors.

Switzerland-Issued in Switzerland by T. Rowe Price (Switzerland) GmbH, Talstrasse 65, 6th Floor, 8001 Zurich, Switzerland. For Qualified Investors only.

Taiwan—This does not provide investment advice or recommendations. Nothing in this material shall be considered a solicitation to buy, or an offer to sell, a security, or any other product or service, to any person in the Republic of China.

Thailand—This material has not been and will not be filed with or approved by the Securities Exchange Commission of Thailand or any other regulatory authority in Thailand. The material is provided solely to "institutional investors" as defined under relevant Thai laws and regulations. No distribution of this material to any member of the public in Thailand is permitted. Nothing in this material shall be considered a provision of service, or a solicitation to buy, or an offer to sell, a security, or any other product or service, to any person where such provision, offer, solicitation, purchase or sale would be unlawful under relevant Thai laws and regulations.

UK—This material is issued and approved by T. Rowe Price International Ltd, 60 Queen Victoria Street, London, EC4N 4TZ which is authorised and regulated by the UK Financial Conduct Authority. For Professional Clients only.

USA—Issued in the USA by T. Rowe Price Associates, Inc., 100 East Pratt Street, Baltimore, MD, 21202, which is regulated by the U.S. Securities and Exchange Commission. For Institutional Investors only.

© 2019 T. Rowe Price. All rights reserved. T. ROWE PRICE, INVEST WITH CONFIDENCE, and the Bighorn Sheep design are, collectively and/or apart, trademarks of T. Rowe Price Group, Inc..