RBC WEALTH MANAGEMENT

Global Insight



Following the money

Kelly Bogdanov – San Francisco

With money draining out of equity funds, some think the market could sour as well. But we see resiliency and think the outflows don't spell doom and gloom for the global equity market.

The resiliency of equities continues to be on display.

Most markets marched higher during the week, extending the rally that began soon after the Brexit vote. The earlierthan-expected U.K. leadership transition, reports of forthcoming fiscal stimulus in Japan, and respectable U.S. Q2 earnings reports boosted stocks worldwide. The muted market reaction to yet another horrific terrorist attack in France underscores markets' sturdy postures.

The resiliency is also noteworthy because markets have withstood diminishing resources recently and all year.

Equity fund flows, which measure the money moving in and out of mutual funds and exchange-traded funds (ETFs) globally, are in the midst of the second downturn since the Great Recession ended and the third since 2007. Almost \$125 billion has exited equity funds year to date (see chart).

History lesson

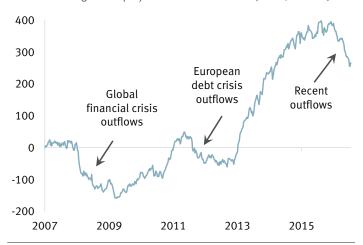
Are outflows signaling trouble ahead?

There's a perception that market performance tends to have a tight relationship to fund flows—that they usually run in tandem or one leads the other within a short period of time.

In reality, there is not a strong historical relationship between fund flows and market performance—except during periods of extreme outflows or inflows.

For example, as the U.S. technology bubble burst from late 2000 through mid-2003, global equity fund flows declined by almost 17% of assets under management—a massive hit. At that time, the MSCI World and S&P 500 each plunged 34%.

Recent outflows have not occurred amid a full-blown crisis Cumulative net global equity fund flows since 2007 (in US\$ billions)



Source - RBC Wealth Management, EPFR Global; weekly data through 7/13/16

Market pulse

- **3** Why U.S. stocks look poised to jump even higher
- **3** Canadian corporate bond issuance surprisingly muted
- 4 Italian banking giant reinvigorates its balance sheet
- 4 Big moves in Japanese markets





Before fund flows had fully recovered from that episode, another one occurred. As the financial crisis gripped markets and caused the Great Recession, 6.1% of funds moved out of global equities, a meaningful amount. The MSCI World dropped 48% back then, and country/regional markets cascaded lower along with it.

In both instances, as the outflows troughed and money started coming back into equities again, markets began to rebound.

A matter of perspective

Recent outflows have not approached those extreme levels.

The nearly \$125 billion that has moved out of stocks is equivalent to 1.7% of global equity funds under management. That's large enough to catch our attention given the short time frame, and we will continue to monitor the data, but at this time it is nowhere close to what we would consider extreme.

Another reason why we are not overly concerned is because the outflows have not occurred amid a crisis or rare, serious event (like the tech bubble bursting)—usually crises fuel extreme outflows. Money often moves out of equity markets in size and at a rapid pace when a crisis is unfolding, and can be accompanied by steep selloffs.

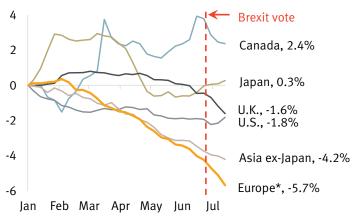
Numerous headwinds have contributed to recent outflows: Chinese policy missteps and uncertainties, and slowing growth; subpar and uneven U.S. economic trends; poor or inconsistent communication by the Fed about interest rate hikes; negative interest rates in Japan and Europe; the continued flight into bonds or cash; concerns about select European banks; and now Brexit risks for the U.K. and Europe. But even with all of these headwinds, financial markets are not currently engulfed in a crisis. To us, this lessens the likelihood that outflows are signaling that a sharp selloff in the global equity market is on the horizon.

On a country and regional basis, trends differ meaningfully. Western Europe has experienced the most sizeable outflows by far with 5.7% of fund assets moving out of equities year to date, followed by Asia ex-Japan at 4.2%. Japan has net inflows in dollar terms, while flows in the U.K. and U.S. have moved in opposite directions following the Brexit vote. The positive outlier is Canada—it has recorded an impressive 2.4% inflow year to date. Money began moving into Canada in late February, shortly after crude oil bounced off the bottom. (See data for these markets in top chart.)

We recently downgraded Continental Europe to Underweight. Should the outflows persist, that market will likely have a tough time keeping up with global benchmarks, in our view. We believe the other equity markets are less at risk at getting sideswiped by outflows.

Money has largely moved out of equities so far in 2016

Cumulative YTD net change in equity fund flows (% of AUM in US\$)

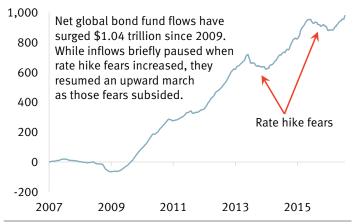


* Europe represents Western Europe including the U.K.

Source - RBC Wealth Management, EPFR Global; weekly data through 7/13/16

Since the financial crisis money has surged into bonds

Cumulative net global bond fund flows since 2007 (in US\$ billions)



Source - RBC Wealth Management, EPFR Global; weekly data through 7/13/16



Inited States

Kelly Bogdanov – San Francisco; Sean Gray – Minneapolis

- After almost 14 months, the S&P 500 reached a new all-time high on Monday and the Dow Jones Industrial Average ascended to that pinnacle on Tuesday. The S&P 500 finished Friday's session 1.5% above the prior high reached in May 2015.
- RBC Capital Markets, LLC's Technical Analyst Bob Dickey believes more upside is in store. Based on technical indicators, he projects the S&P 500 can climb to around 2,400 over the next 6–12 months (11% upside) and the Dow can reach roughly 20,500 (10.7% upside) during the same period. Dickey wrote, "Of course, the market won't go straight to the target, and there will be periods where it may look like a bad call, but we believe that the overall outlook has been greatly improved as of the recent breakout to new highs." He does, however, strike a note of caution about the near term. Because of the recent rally, the market has reached an overbought condition and is vulnerable to pulling back moderately, potentially providing more attractive entry points in coming weeks.
- Dickey's expectation of **additional gains is supported by historical return data**. On the 12 previous occasions that it took the S&P 500 one year or longer to reach a new peak—like it did this time—once the new peak was finally achieved, the market typically traded higher in subsequent months. **On average, the S&P 500 rose 7% six months after the new peak and 12% one year later**. While there was wide variation in returns around those averages, the **market rose in most instances**. Regarding the recent alltime high on Monday, the trip to get there was less bumpy and less time consuming than previous occasions. It took only 417 days—a little more than a year—compared to an average of almost three years. Furthermore, the decline between the peaks was only 14% this go-around versus an average drop of 29%. (See table for details.)



Canada

Patrick McAllister & Diana Di Luca – Toronto

- The S&P/TSX Composite marked its **third consecutive weekly gain** since the June 24–27 selloff. Performance of high dividend-paying and traditionally defensive sectors stalled while the Consumer Staples, Consumer Discretionary, and Industrials sectors outperformed.
- **RBC Capital Markets raised its outlook for gold** with a forecast price of **\$1,500 per ounce** in both 2017 and 2018.

U.S. market tends to rise following a pivotal new all-time high

Instances where it took the S&P 500 one year or more to take out the previous all-time high since $1954\,$

Prior peak	New peak	Calendar days peak to peak	Max decline between peaks	Return 6 mos	n after ne 12 mos	w peak 18 mos
08/02/56	09/24/58	783	-22%	12%	14%	12%
08/03/59	01/27/61	543	-14%	9%	11%	-7%
12/12/61	09/03/63	630	-28%	8%	14%	20%
02/09/66	05/04/67	449	-22%	-3%	4%	9%
11/29/68	03/06/72	1,193	-36%	2%	5%	-3%
01/11/73	07/17/80	2,744	-48%	11%	8%	-5%
11/28/80	11/03/82	705	-27%	14%	14%	13%
10/10/83	01/21/85	469	-14%	11%	17%	35%
08/25/87	07/26/89	701	-34%	-4%	5%	-1%
02/02/94	02/14/95	377	-9%	16%	36%	37%
03/24/00	05/30/07	2,623	-49%	-3%	-8%	-47%
10/09/07	03/28/13	1,997	-57%	7%	18%	26%
05/21/15	07/11/16	417	-14%	TBD	TBD	TBD
	High	2,744	-9%	16%	36%	37%
	Average	1,049	-29%	7%	12%	8%
	Low	377	-57%	-4%	-8%	-47%

Source - RBC Wealth Management, Bloomberg

While accommodative monetary policy and low interest rates have been supportive for some time, RBC Capital Markets cited **heightened geopolitical uncertainty as key to its more bullish stance** on precious metals.

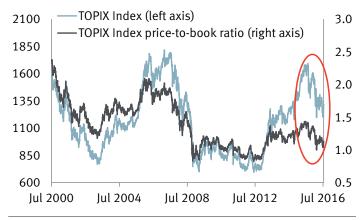
- The past two months of **relative stability in crude oil prices** has helped **retail fuel margins expand** in both the U.S. and Canada. This trend was reflected in **Alimentation Couche-Tard's quarterly results** and has provided some **relief to share prices across the fuel and convenience store industry**.
- In its first rate decision since the U.K. referendum, the **Bank** of **Canada** left its overnight rate unchanged at 0.50%. The accompanying statement highlighted "a weaker outlook for business investment and a lower profile for exports, reflecting a downward adjustment to U.S. investment spending." As such, the central bank lowered its **Canadian GDP growth forecast** to 1.3% in 2016 and 2.2% in 2017 from 1.7% and 2.3%, respectively.
- Lower corporate issuance has been supportive of credit spreads in Canada. After a period of declining yields and credit spread tightening, we would generally expect to see a number of issuers taking advantage of attractive conditions. But this has not been the case recently as issuance has remained quite light despite credit spreads at some of the tightest levels of the year and rates near the lows.

🕴 Europe

Frédérique Carrier & Thomas McGarrity - London

- European equity markets were strong during the week with the STOXX Europe 600 increasing over 3% helped by the expectation of increased stimulus from the European Central Bank (ECB) in the coming months, and continued loose monetary policy.
- The U.K.'s blue-chip FTSE 100 Index hit an 11-month high before retracting after the Bank of England (BoE) surprised markets by holding the U.K. Base Rate at 0.5%. Financial markets had priced in a 0.25% cut. The BoE's reticence to reduce rates at this month's meeting appears to be driven by a desire to take its time to assess and collect more evidence on the impacts of Brexit before deciding the best course of policy action. RBC Capital Markets forecasts a 0.25% cut in the U.K. Base Rate in August.
- Theresa May was appointed as the U.K.'s prime minister following the sudden withdrawal of Andrea Leadsom from the leadership race and swiftly made **sweeping changes** to the cabinet. While new leadership removes one layer of political uncertainty, the question of how May and her cabinet will handle Brexit remains unanswered, which we think will weigh on economic activity, at least in the near term.
- Italy's biggest bank, UniCredit, the country's only financial institution of global systemic importance, raised over €1B in asset sales to help bolster its balance sheet. The cash generated increased UniCredit's common equity Tier 1 ratio (CET1 ratio), a key gauge of a bank's ability to withstand shock losses, by 0.20%. At the end of March the bank's transitional CET1 ratio was at 10.5%, uncomfortably

We've seen low valuations before, but the large discount to the price index is fairly new



Source - RBC Wealth Management, Bloomberg; daily data series through 7/15/16

close to the ECB's minimum guidance level of 10%. UniCredit's efforts to strengthen its financial position come amid increasing concerns over the stability of the Italian banking system ahead of the EU bank stress test results to be released at the end of July.

• German pharmaceuticals and chemicals group **Bayer** sweetened its takeover offer for U.S. rival Monsanto to \$65B. The combination would create the world's biggest supplier of agricultural chemicals and seeds. Monsanto's board of directors is in the process of considering the new bid after rejecting Bayer's original \$62B approach in May.

Asia Pacific

Jay Roberts - Hong Kong

- Asian equities were strong during the week. The MSCI AC Asia Pacific Index closed just below its high for the year and is now slightly positive in 2016.
- The standout performer was Japan. The TOPIX rose by 8.9%, the biggest weekly gain since 2009. Even after the rally, the valuation of the index remains low at 1.13x book value. The sizeable fall in the yen, reversing months of strength, contributed. The yen declined by over 5% against the dollar to USDJPY105.8, the biggest weekly decline since 1999. A key driver of these moves is an expectation of fiscal stimulus via a supplementary budget after an impressive election victory by Prime Minister Shinzo Abe's Liberal Democratic Party for the Upper House of the Japanese Diet.
- Chinese economic data for Q2 2016 was broadly as expected. The official growth figure of 6.7% was a touch higher than expected. Retail sales showed strength. Growth in fixed asset investment (FAI), still a large part of the economy, was lower than forecast at 9.0% (forecast: 9.4%). However, FAI has been very much supported by a large increase in government spending. Both private and manufacturing FAI actually declined slightly in June year over year, an unusual development that shows the Chinese economy is still not firing on all cylinders.
- However, the **most important takeaway** is that the **Chinese economy has steadied**. The pace of deceleration is slowing. Additionally, **capital outflows** from China, which were a concern at the start of the year, have **largely abated**. See page 4 in last week's *Global Insight Weekly*.
- Line Corp (LN), the Japanese social networking company that is owned by a South Korean company, Naver, became the **largest U.S. IPO of 2016**. Line, which also operates in several other Asian markets, **raised over \$1B** in the U.S. and also listed in Japan. The stock rallied strongly on its first day of trading in both markets.

MARKET SCORECARI

Data as of July 15, 2016

Equities (local currency)	Level	1 week	MTD	YTD	12 mos	Govt bonds (bps chg)	Govt bonds (bps chg) Yield	Govt bonds (bps chg) Yield 1 week	Govt bonds (bps chg) Yield 1 week MTD	Govt bonds (bps chg) Yield 1 week MTD YTD
S&P 500	2,161.74	1.5%	3.0%	5.8%	2.6%	U.S. 2-Yr Tsy	U.S. 2-Yr Tsy 0.678%	U.S. 2-Yr Tsy 0.678% 7.3	U.S. 2-Yr Tsy 0.678% 7.3 9.6	U.S. 2-Yr Tsy 0.678% 7.3 9.6 -37.0
Dow Industrials (DJIA)	18,516.55	2.0%	3.3%	6.3%	2.6%	U.S. 10-Yr Tsy	U.S. 10-Yr Tsy 1.556%	U.S. 10-Yr Tsy 1.556% 19.8	U.S. 10-Yr Tsy 1.556% 19.8 8.6	U.S. 10-Yr Tsy 1.556% 19.8 8.6 -71.3
NASDAQ	5,029.59	1.5%	3.9%	0.4%	-1.4%	Canada 2-Yr	Canada 2-Yr 0.572%	Canada 2-Yr 0.572% 10.6	Canada 2-Yr 0.572% 10.6 5.4	Canada 2-Yr 0.572% 10.6 5.4 9.1
Russell 2000	1,205.31	2.4%	4.6%	6.1%	-4.7%	Canada 10-Yr	Canada 10-Yr 1.085%	Canada 10-Yr 1.085% 12.4	Canada 10-Yr 1.085% 12.4 2.4	Canada 10-Yr 1.085% 12.4 2.4 -30.9
S&P/TSX Comp	14,482.42	1.6%	3.0%	11.3%	-1.2%	U.K. 2-Yr	U.K. 2-Yr 0.166%	U.K. 2-Yr 0.166% 4.3	U.K. 2-Yr 0.166% 4.3 6.7	U.K. 2-Yr 0.166% 4.3 6.7 -48.5
FTSE All-Share	3,606.72	1.6%	2.6%	4.7%	-1.9%	U.K. 10-Yr	U.K. 10-Yr 0.834%	U.K. 10-Yr 0.834% 9.9	U.K. 10-Yr 0.834% 9.9 -3.3	U.K. 10-Yr 0.834% 9.9 -3.3 -112.6
STOXX Europe 600	337.92	3.2%	2.4%	-7.6%	-15.5%	Germany 2-Yr	Germany 2-Yr -0.652%	Germany 2-Yr -0.652% 4.2	Germany 2-Yr -0.652% 4.2 0.9	Germany 2-Yr -0.652% 4.2 0.9 -30.7
German DAX	10,066.90	4.5%	4.0%	-6.3%	-12.8%	Germany 10-Yr	Germany 10-Yr 0.006%	Germany 10-Yr 0.006% 19.5	Germany 10-Yr 0.006% 19.5 13.6	Germany 10-Yr 0.006% 19.5 13.6 -62.3
Hang Seng	21,659.25	5.3%	4.2%	-1.2%	-13.6%	Currencies	Currencies Rate	Currencies Rate 1 week	Currencies Rate 1 week MTD	Currencies Rate 1 week MTD YTD
Shanghai Comp	3,054.30	2.2%	4.3%	-13.7%	-19.7%					
Nikkei 225	16,497.85	9.2%	5.9%	-13.3%	-17.8%	U.S. Dollar Index				
India Sensex	27,836.50	2.6%	3.1%	6.6%	-1.3%	CAD/USD			,	
Singapore Straits Times	2,925.35	2.8%	3.0%	1.5%	-12.4%	USD/CAD	USD/CAD 1.30	USD/CAD 1.30 -0.6%	USD/CAD 1.30 -0.6% 0.3%	USD/CAD 1.30 -0.6% 0.3% -6.3%
Brazil Ibovespa	55,578.24	4.6%	7.9%	28.2%	5.1%	EUR/USD	EUR/USD 1.10	EUR/USD 1.10 -0.1%	EUR/USD 1.10 -0.1% -0.6%	EUR/USD 1.10 -0.1% -0.6% 1.7%
Mexican Bolsa IPC	46,713.43	2.1%	1.6%	8.7%	3.6%	GBP/USD	GBP/USD 1.32	GBP/USD 1.32 1.8%	GBP/USD 1.32 1.8% -0.9%	GBP/USD 1.32 1.8% -0.9% -10.5%
Commodities (USD)	Price	1 week	MTD	VTD	12 mos	AUD/USD	AUD/USD 0.76	AUD/USD 0.76 0.1%	AUD/USD 0.76 0.1% 1.7%	AUD/USD 0.76 0.1% 1.7% 4.0%
						USD/CHF	USD/CHF 0.98	USD/CHF 0.98 -0.2%	USD/CHF 0.98 -0.2% 0.6%	USD/CHF 0.98 -0.2% 0.6% -2.0%
Gold (spot \$/oz)	1,336.03	-2.2%	1.0%	25.9%	16.2%	USD/JPY	USD/JPY 104.79	USD/JPY 104.79 4.2%	USD/JPY 104.79 4.2% 1.5%	USD/JPY 104.79 4.2% 1.5% -12.8%
Silver (spot \$/oz)	20.16	-0.6%	7.7%	45.4%	33.5%	EUR/JPY	EUR/JPY 115.74	EUR/JPY 115.74 4.2%	EUR/JPY 115.74 4.2% 1.0%	EUR/JPY 115.74 4.2% 1.0% -11.4%
Copper (\$/metric ton)	4,922.00	4.8%	1.7%	4.6%	-10.6%	EUR/GBP	EUR/GBP 0.84	EUR/GBP 0.84 -1.8%	EUR/GBP 0.84 -1.8% 0.3%	EUR/GBP 0.84 -1.8% 0.3% 13.6%
Oil (WTI spot/bbl)	45.95	1.2%	-4.9%	24.1%	-10.6%	EUR/CHF	EUR/CHF 1.08	EUR/CHF 1.08 -0.2%	EUR/CHF 1.08 -0.2% 0.0%	EUR/CHF 1.08 -0.2% 0.0% -0.4%
Oil (Brent spot/bbl)	47.59	1.8%	-4.2%	27.7%	-16.6%	USD/SGD	USD/SGD 1.35	USD/SGD 1.35 0.3%	USD/SGD 1.35 0.3% 0.2%	USD/SGD 1.35 0.3% 0.2% -4.9%
Natural Gas (\$/mmBtu)	2.75	-1.7%	-5.9%	17.8%	-5.7%	USD/CNY	USD/CNY 6.69	USD/CNY 6.69 0.0%	USD/CNY 6.69 0.0% 0.7%	USD/CNY 6.69 0.0% 0.7% 3.1%
Agriculture Index	305.76	1.8%	-1.5%	7.8%	-3.8%	USD/BRL	USD/BRL 3.28	USD/BRL 3.28 -0.6%	USD/BRL 3.28 -0.6% 2.1%	USD/BRL 3.28 -0.6% 2.1% -17.2%

Source - Bloomberg. Note: Equity returns do not include dividends, except for the German DAX. Bond yields in local currencies. Copper and Agriculture Index data as of Thursday's close. Dollar Index measures USD vs. six major currencies. Currency rates reflect market convention (CAD/USD is the exception). Currency returns quoted in terms of the first currency in each pairing. Data as of 8:35 pm GMT 7/15/16.

Examples of how to interpret currency data: CAD/USD 0.77 means 1 Canadian dollar will buy 0.77 U.S. dollar. CAD/USD 6.7% return means the Canadian dollar rose 6.7% vs. the U.S. dollar year to date. USD/JPY 104.79 means 1 U.S. dollar will buy 104.79 yen. USD/JPY -12.8% return means the U.S. dollar fell 12.8% vs the yen year to date.

JPCOMING EVENTS

100 S&P 500 companies are scheduled to report earnings during the week of July 17.

Sun, Jul 17	Wed, Jul 20	Thu, Jul 21, cont.	Fri, Jul 22, cont.
China Property Prices	China Swift Global Payments	U.S. Chicago Fed Nat'l Activity	Canada CPI
Mon, Jul 18	Eurozone Consumer Confidence	U.S. Existing-Home Sales (5.47M)	Sun, Jul 24
U.S. NAHB Housing Market Index	U.K. Unemployment (5.0%)	U.S. Leading Index (0.2% m/m)	Japan Trade Balance
Tue, Jul 19	U.K. Employment Change (75K)	Fri, Jul 22	Japan Exports
Eurozone ECB Bank Lending Survey	Thu, Jul 21	Eurozone Markit Manuf. PMI	Japan Imports
Eurozone ZEW Surveys	Japan Nikkei Manuf. PMI	Eurozone Markit Services PMI	Wed, Jul 27
U.K. CPI (0.4% y/y, 1.3% core)	ECB Meeting	Eurozone Markit Composite PMI	Fed Meeting
U.K. RPI (0.2% m/m, 1.4% y/y)	U.K. Public Sector Net Borrowing	Germany Markit Manuf. PMI	Fri, Jul 29
U.S. Housing Starts (1.17M)	U.K. Retail Sales ex-Fuel (4.9% y/y)	U.S. Markit Manuf. PMI (51.5)	BoJ Meeting
The dates reflect North American time	zanas All data reflect Pleamharg conso	ncus foresasts whore available	

The dates reflect North American time zones. All data reflect Bloomberg consensus forecasts where available.

Authors

Kelly Bogdanov – San Francisco, United States kelly.bogdanov@rbc.com; RBC Capital Markets, LLC.

Sean Gray – Minneapolis, United States

sean.c.gray@rbc.com; RBC Capital Markets, LLC. Patrick McAllister – Toronto. Canada

patrick.mcallister@rbc.com; RBC Dominion Securities Inc.

Diana Di Luca – Toronto, Canada

diana.diluca@rbc.com; RBC Dominion Securities Inc.

Frédérique Carrier – London, United Kingdom

frederique.carrier@rbc.com; Royal Bank of Canada Investment Management (UK) Ltd.

Thomas McGarrity, CFA – London, United Kingdom

thomas.mcgarrity@rbc.com; Royal Bank of Canada Investment Management (UK) Ltd.

Jay Roberts – Hong Kong, China

jay.roberts@rbc.com; RBC Dominion Securities Inc.

Disclosures and Disclaime

Analyst Certification

All of the views expressed in this report accurately reflect the personal views of the responsible analyst(s) about any and all of the subject securities or issuers. No part of the compensation of the responsible analyst(s) named herein is, or will be, directly or indirectly, related to the specific recommendations or views expressed by the responsible analyst(s) in this report.

Important Disclosures

In the U.S., RBC Wealth Management operates as a division of RBC Capital Markets, LLC. In Canada, RBC Wealth Management includes, without limitation, RBC Dominion Securities Inc., which is a foreign affiliate of RBC Capital Markets, LLC. This report has been prepared by RBC Capital Markets, LLC. which is an indirect wholly-owned subsidiary of the Royal Bank of Canada and, as such, is a related issuer of Royal Bank of Canada.

Non-U.S. Analyst Disclosure: Diana Di Luca, Patrick McAllister, and Jay Roberts, employees of RBC Wealth Management USA's foreign affiliate RBC Dominion Securities Inc.; and Frédérique Carrier and Thomas McGarrity, employees of RBC Wealth Management USA's foreign affiliate Royal Bank of Canada Investment Management (UK) Limited; contributed to the preparation of this publication. These individuals are not registered with or qualified as research analysts with the U.S. Financial Industry Regulatory Authority ("FINRA") and, since they are not associated persons of RBC Wealth Management, they may not be subject to FINRA Rule 2241 governing communications with subject companies, the making of public appearances, and the trading of securities in accounts held by research analysts.

In the event that this is a compendium report (covers six or more companies), RBC Wealth Management may choose to provide important disclosure information by reference. To access current disclosures, clients should refer to http://www. rbccm.com/GLDisclosure/PublicWeb/DisclosureLookup.aspx?EntityID=2 to view disclosures regarding RBC Wealth Management and its affiliated firms. Such information is also available upon request to RBC Wealth Management Publishing, 60 South Sixth St, Minneapolis, MN 55402.

References to a Recommended List in the recommendation history chart may include one or more recommended lists or model portfolios maintained by RBC Wealth Management or one of its affiliates. RBC Wealth Management recommended lists include the Guided Portfolio: Prime Income (RL 6), the Guided Portfolio: Dividend Growth (RL 8), and the Guided Portfolio: ADR (RL 10), and former lists called the Guided Portfolio: Large Cap (RL 7), the Guided Portfolio: Midcap 111 (RL 9), and the Guided Portfolio: Global Equity (U.S.) (RL 11). RBC Capital Markets recommended lists include the Strategy Focus List and the Fundamental Equity Weightings (FEW) portfolios. The abbreviation 'RL On' means the date a security was placed on a Recommended List.

Distribution of Ratings

For the purpose of ratings distributions, regulatory rules require member firms to assign ratings to one of three rating categories - Buy, Hold/Neutral, or Sell - regardless of a firm's own rating categories. Although RBC Capital Markets, LLC ratings of Top Pick (TP)/Outperform (O), Sector Perform (SP) and Underperform (U) most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because our ratings are determined on a relative basis (as described below).

Distribution of Ratings - RBC Capital Markets, LLC Equity Research As of June 30, 2016							
Investment Banking Servic							
			Provided During Past 12 Months				
Rating	Count	Percent	Count	Percent			
Buy [Top Pick & Outperform]	878	50.51	246	28.02			
Hold [Sector Perform]	741	42.64	129	17.41			
Sell [Underperform]	119	6.85	10	8.40			

Explanation of RBC Capital Markets, LLC Equity Rating System

An analyst's "sector" is the universe of companies for which the analyst provides research coverage. Accordingly, the rating assigned to a particular stock represents solely the analyst's view of how that stock will perform over the next 12 months relative to the analyst's sector average. Although RBC Capital Markets, LLC ratings of Top Pick (TP)/Outperform (O), Sector Perform (SP), and Underperform (U) most closely correspond to Buy, Hold/Neutral and Sell, respectively, the meanings are not the same because our ratings are determined on a relative basis (as described below).

Ratings:

Top Pick (TP): Represents analyst's best idea in the sector; expected to provide significant absolute total return over 12 months with a favorable risk-reward ratio. Outperform (O): Expected to materially outperform sector average over 12 months. Sector Perform (SP): Returns expected to be in line with sector average over 12 months. Underperform (U): Returns expected to be materially below sector average over 12 months.

Risk Rating:

As of March 31, 2013, RBC Capital Markets, LLC suspends its Average and Above Average risk ratings. The Speculative risk rating reflects a security's lower level of financial or operating predictability, illiquid share trading volumes, high balance sheet leverage, or limited operating history that result in a higher expectation of financial and/or stock price volatility.

Valuation and Price Target Impediments

When RBC Wealth Management assigns a value to a company in a research report, FINRA Rules and NYSE Rules (as incorporated into the FINRA Rulebook) require that the basis for the valuation and the impediments to obtaining that valuation be described. Where applicable, this information is included in the text of our research in the sections entitled "Valuation" and "Price Target Impediment", respectively.

The analyst(s) responsible for preparing this research report received compensation that is based upon various factors, including total revenues of RBC Capital Markets, LLC, and its affiliates, a portion of which are or have been generated by investment banking activities of the member companies of RBC Capital Markets, LLC and its affiliates.

Other Disclosures

Prepared with the assistance of our national research sources. RBC Wealth Management prepared this report and takes sole responsibility for its content and distribution. The content may have been based, at least in part, on material provided by our third-party correspondent research services. Our third-party correspondent has given RBC Wealth Management general permission to use its research reports as source materials, but has not reviewed or approved this report, nor has it been informed of its publication. Our third-party correspondent may from time to time have long or short positions in, effect transactions in, and make markets in securities referred to herein. Our third-party correspondent may from time to time perform investment banking or other services for, or solicit investment banking or other business from, any company mentioned in this report.

RBC Wealth Management endeavors to make all reasonable efforts to provide research simultaneously to all eligible clients, having regard to local time

zones in overseas jurisdictions. In certain investment advisory accounts, RBC Wealth Management will act as overlay manager for our clients and will initiate transactions in the securities referenced herein for those accounts upon receipt of this report. These transactions may occur before or after your receipt of this report and may have a short-term impact on the market price of the securities in which transactions occur. RBC Wealth Management research is posted to our proprietary Web sites to ensure eligible clients receive coverage initiations and changes in rating, targets, and opinions in a timely manner. Additional distribution may be done by sales personnel via e-mail, fax, or regular mail. Clients may also receive our research via third-party vendors. Please contact your RBC Wealth Management Financial Advisor for more information regarding RBC Wealth Management research.

Conflicts Disclosure: RBC Wealth Management is registered with the Securities and Exchange Commission as a broker/dealer and an investment adviser, offering both brokerage and investment advisory services. RBC Wealth Management's Policy for Managing Conflicts of Interest in Relation to Investment Research is available from us on our Web site at http://www.rbccm.com/GLDisclosure/PublicWeb/ DisclosureLookup.aspx?EntityID=2. Conflicts of interests related to our investment advisory business can be found in Part II of the Firm's Form ADV or the Investment Advisor Group Disclosure Document. Copies of any of these documents are available upon request through your Financial Advisor. We reserve the right to amend or supplement this policy, Part II of the ADV, or Disclosure Document at any time.

The authors are employed by one of the following entities: RBC Wealth Management USA, a division of RBC Capital Markets, LLC, a securities broker-dealer with principal offices located in Minnesota and New York, USA; by RBC Dominion Securities Inc., a securities broker-dealer with principal offices located in Toronto, Canada; by RBC Investment Services (Asia) Limited, a subsidiary of RBC Dominion Securities Inc., a securities broker-dealer with principal offices located in Hong Kong, China; and by Royal Bank of Canada Investment Management (U.K.) Limited, an investment management company with principal offices located in London, United Kingdom.

Research Resources

This document is produced by the Global Portfolio Advisory Committee within RBC Wealth Management's Portfolio Advisory Group. The RBC WM Portfolio Advisory Group provides support related to asset allocation and portfolio construction for the firm's Investment Advisors / Financial Advisors who are engaged in assembling portfolios incorporating individual marketable securities. The Committee leverages the broad market outlook as developed by the RBC Investment Strategy Committee, providing additional tactical and thematic support utilizing research from the RBC Investment Strategy Committee, RBC Capital Markets, and third-party resources.

The Global Industry Classification Standard ("GICS") was developed by and is the exclusive property and a service mark of MSCI Inc. ("MSCI") and Standard & Poor's Financial Services LLC ("S&P") and is licensed for use by RBC. Neither MSCI, S&P, nor any other party involved in making or compiling the GICS or any GICS classifications makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability and fitness for a particular purpose with respect to any of such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of their affiliates or any third party involved in making or compiling the GICS or any GICS classifications have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

Disclaimer

The information contained in this report has been compiled by RBC Wealth Management, a division of RBC Capital Markets, LLC, from sources believed to be reliable, but no representation or warranty, express or implied, is made by Royal Bank of Canada, RBC Wealth Management, its affiliates or any other person as to its accuracy, completeness or correctness. All opinions and estimates contained in this report constitute RBC Wealth Management's judgment as of the date of this report, are subject to change without notice and are provided in good faith but without legal responsibility. Past performance is not a guide to future performance, future returns are not guaranteed, and a loss of original capital may occur. Every province in Canada, state in the U.S., and most countries throughout the world have their own laws regulating the types of securities and other investment products which may be offered to their residents, as well as the process for doing so. As a result, the securities discussed in this report may not be eligible for sale in some jurisdictions. This report is not, and under no circumstances should be construed as, a solicitation to act as securities broker or dealer in any jurisdiction by any person or company that is not legally permitted to carry on the business of a securities broker or dealer in that jurisdiction. Nothing in this report constitutes legal, accounting or tax advice or individually tailored investment advice. This material is prepared for general circulation to clients, including clients who are affiliates of Royal Bank of Canada, and does not have regard to the particular circumstances or needs of any specific person who may read it. The investments or services contained in this report may not be suitable for you and it is recommended that you consult an independent investment advisor if you are in doubt about the suitability of such investments or services. To the full extent permitted by law neither Royal Bank of Canada nor any of its affiliates, nor any other person, accepts any liability whatsoever for any direct or consequential loss arising from any use of this report or the information contained herein. No matter contained in this document may be reproduced or copied by any means without the prior consent of Royal Bank of Canada. Additional information is available upon request.

To U.S. Residents: This publication has been approved by RBC Capital Markets, LLC, Member NYSE/FINRA/SIPC, which is a U.S. registered broker-dealer and which accepts responsibility for this report and its dissemination in the United States. RBC Capital Markets, LLC, is an indirect wholly-owned subsidiary of the Royal Bank of Canada and, as such, is a related issuer of Royal Bank of Canada. Any U.S. recipient of this report that is not a registered broker-dealer or a bank acting in a broker or dealer capacity and that wishes further information regarding, or to effect any transaction in, any of the securities discussed in this report, should contact and place orders with RBC Capital Markets, LLC. International investing involves risks not typically associated with U.S. investing, including currency fluctuation, foreign taxation, political instability and different accounting standards.

To Canadian Residents: This publication has been approved by RBC Dominion Securities Inc. RBC Dominion Securities Inc.* and Royal Bank of Canada are separate corporate entities which are affiliated. *Member-Canadian Investor Protection Fund. @Registered trademark of Royal Bank of Canada. Used under license. RBC Wealth Management is a registered trademark of Royal Bank of Canada. Used under license. **To European Residents:** Clients of United Kingdom subsidiaries may be entitled to compensation from the UK Financial Services Compensation Scheme if any of these entities cannot meet its obligations. This depends on the type of business and the circumstances of the claim. Most types of investment business are covered for up to a total of £50,000. The Channel Islands subsidiaries are not covered by the UK Financial Services Compensation Scheme; the offices of Royal Bank of Canada (Channel Islands) Limited in Guernsey and Jersey are covered by the respective compensation schemes in these jurisdictions for deposit taking business only.

To Hong Kong Residents: This publication is distributed in Hong Kong by RBC Investment Services (Asia) Limited and RBC Investment Management (Asia) Limited, licensed corporations under the Securities and Futures Ordinance or, by Royal Bank of Canada, Hong Kong Branch, a registered institution under the Securities and Futures Ordinance. This material has been prepared for general circulation and does not take into account the objectives, financial situation, or needs of any recipient. Hong Kong persons wishing to obtain further information on any of the securities mentioned in this publication should contact RBC Investment Services (Asia) Limited, RBC Investment Management (Asia) Limited or Royal Bank of Canada, Hong Kong Branch at 17/Floor, Cheung Kong Center, 2 Queen's Road Central, Hong Kong (telephone number is 2848-1388).

To Singapore Residents: This publication is distributed in Singapore by RBC (Singapore Branch), the registered entity granted offshore bank status by the Monetary Authority of Singapore. This material has been prepared for general circulation and does not take into account the objectives, financial situation, or needs of any recipient. You are advised to seek independent advice from a financial adviser before purchasing any product. If you do not obtain independent advice, you should consider whether the product is suitable for you. Past performance is not indicative of future performance. © RBC Capital Markets, LLC 2016 - Member NYSE/FINRA/SIPC © RBC Dominion Securities Inc. 2016 - Member CIPF © RBC Europe Limited 2016 @ Royal Bank of Canada 2016 All rights reserved