

EQUITY RESEARCH

November 14, 2022

Earnings Update

Cosmos Chiu, CFA +1 416-594-7106 Cosmos.Chiu@cibc.com

Erin Kyle, CPA +1 416-313-9851 Erin.Kyle@cibc.com

MAG SILVER CORP.

Third-quarter Results In Line; Grid Connection Awaits

Our Conclusion

MAG Silver reported net income of \$0.08 per share, relatively in line with our estimate of \$0.07 per share and consensus of \$0.09 per share. Mineralized development and stope material continues to be processed at the nearby Fresnillo and Saucito plants, with third-quarter production of 2.4Moz silver pre-reported.

As reported by the operator, Fresnillo, electrical commissioning of the processing plant continues to be expected in the coming weeks, after which Fresnillo expects the operation to reach 85%-90% of nameplate capacity within months of commissioning.

Overall, a neutral quarter for MAG Silver, with earnings in line with Street expectations and limited updates on progress towards the power connection for Juanicipio, which remains the final step to commissioning. MAG reported that the joint venture held \$18M in cash at the end of the quarter, and it expects cash flow from ongoing campaign processing along with working capital held at Juanicipio to substantially fund remaining capital requirements. We maintain our Neutral rating and C\$27.00 price target.

Key Points

Juanicipio Production: Third-quarter production results were pre-released. A total of ~181kt of mineralized development and stope material was processed through the Fresnillo and Saucito plants at an average head grade of 513g/t silver, for a total of 2.4Moz silver, 4.9koz gold, 1.3kt lead and 2.0kt zinc (on a 100% basis).

Financial Position: At the end of the quarter, there was a cash balance of \$18M at the Juanicipio JV, and MAG Silver held ~\$40M in cash and cash equivalents.

Capital Expenditures: Total Juanicipio expenditures incurred in Q3 on a 100% basis totaled \$36M, consisting primarily of \$27M in development expenditures, \$2M in exploration expenditures, and \$6M in sustaining capital.

Grid Connection: According to the operator, Fresnillo, the power connection delay is not expected to have any negative impacts on Juanicipio's planned 2023 production, and the plant is expected to ramp up to 85%-90% of nameplate capacity within months of commissioning. However, connection to the national power grid remains delayed. Fresnillo continues to make available excess processing plant capacity at its nearby Saucito and Fresnillo operations.

Exploration: A total of \$5.7M has been expended to date on the Juanicipio exploration program of the \$7M budgeted (100% basis), with five drill rigs on surface running concurrently with continued underground definition and geotechnical drilling.

Neutral

MAG-TSX, Sector: Materials

Current Price (11/14/22): C\$21.08 Price Target (12-18 mos.): C\$27.00

CIBC Estimates and Valuation

(Dec. 31)	2020	2021	2022	2023
Adj. EPS	A(80.0)	0.06A	0.46E	0.91E
Prior			0.42E	
CFPS	(0.06)A	(0.07)A	(0.10)E	(0.33)E
Prior			(0.13)E	
Adj. EPS	Q1	Q2	Q3	Q4
2022	0.13A	0.08E	0.08A	0.16E
Prior			0.07E	0.14E
2021	(0.04)A	0.03A	(0.02)A	0.08A
CFPS	Q1	Q2	Q3	Q4
2022	(0.02)A	(0.03)E	(0.02)A	(0.04)E
Prior			(0.04)E	(0.05)E
2021	(0.02)A	(0.00)A	(0.01)A	(0.04)A
Valuation	2020	2021	2022	2023
P/E	NM	NM	34.6x	17.5x
P/CFPS	NM	NM	NM	NM

Stock Performance and Key Indicators

Avg. Dly. Vol.:	179K	Shares O/S:	98.5M
Market Cap.:	C\$2,077M	Float:	81.1M
52-wk Range:	C\$14.02 - C\$26.08	Div. / Yield:	C\$0.00/0.00%

TSX Composite Index vs. MAG-TSX



(Source: FactSet)

MAG Silver Corp. (MAG-TSX) — Neutral

Price (11/14/22) C\$21.08 12-18 mo. Price Target C\$27.00

Sector: Materials

Cosmos Chiu, CFA +1 416-594-7106 Cosmos.Chiu@cibc.com

Key Financial Metrics	2020	2021	2022E	2023E
Working Capital	95	58	51	153
Net Debt	(94)	(57)	(50)	(152)
Per Share Data	2020	2021	2022E	2023E
CFPS	(0.06)	(0.07)	(0.10)	(0.33)
Adj. EPS Dil.	(0.08)	0.06	0.46	0.91
Income Statement	2020	2021	2022E	2023E
Sales	0	0	0	0
Cost of Goods Sold	0	0	0	0
Gross Profit	0	0	0	0
SG&A	(9)	(11)	(12)	(12)
EBITDA	(9)	(3)	49	106
Adj. EBITDA	(6)	(15)	51	182
D&A	0	0	0	0
EBIT	(9)	(2)	49	106
Net Interest Income	15	0	0	2
Associates & JVs	-	16	62	119
Exceptionals	0	0	(11)	0
Tax Expense	(2)	2	(4)	(22)
Net Income	(7)	6	35	87
Adjusted Net Income	(7)	6	45	87
Cash Flow Statement	2020	2021	2022E	2023E
Operating Activities				
CFO before WC	(6)	(7)	(10)	(31)
Change in WC	(0)	0	(2)	0
CFO	(6)	(7)	(11)	(31)
Investing Activities				
Capex	(0)	(74)	(6)	0
Acquisit & Invest	(5)	(7)	(1)	0
Net CFI	(65)	(75)	2	134
Financing Activities				
Change in Debt	93	0	0	0
Equity Raised	93	44	0	0
Other Financial Act	(0)	(0)	(0)	(0)
Net CFF	92	44	(0)	(0)
Net Cash Flow	22	(37)	(10)	102
	(6)	(85)	(7)	101
Free Cash Flow	(0)			
Free Cash Flow Cash at Begin of Yr	72	94	57	47

NPV (\$M)			NPV5%	\$/sh
Juanicipio (44%)			806	8.18
Deer Trail			15.0	0.15
Total Mining Assets			821	8.34
Cash & Short-Term Investments			40	0.40
Corporate Costs/G&A			(31)	(0.31)
Other Corporate Adjustments			16	0.16
Total NPV			846	8.59
Price Assumptions	2020	2021	2022E	2023E
CAD:USD	0.74	0.80	0.77	0.76
Gold (\$/oz)	1,771	1,798	1,825	1,750
Silver (\$/oz)	20.51	25.13	22.97	23.00
Lead (US\$/lb)	0.83	1.00	1.02	1.32
Zinc (US\$/lb)	1.03	1.36	1.72	1.65
Operating Summary	2020	2021	2022E	2023E

0.3

N/A

N/A

\$0

\$51

Source: Company reports, FactSet, and CIBC World Markets Inc.

N/A

N/A

\$107

\$0

\$5.38

\$9.53

\$8

\$54

8.7

\$50

\$3.42

\$11.04

Company Profile

MAG Silver is an emerging silver producer, with a 44% interest in the high-grade Juanicipio mine in the historic Fresnillo district in Mexico.

Investment Thesis

MAG Silver is an emerging silver producer in a position to benefit from the rising tide in silver prices. A key catalyst is the upcoming completion and commissioning of the 4000tpd Juanicipio mill, which MAG Silver is constructing with its joint venture partner Fresnillo (as operator), bringing MAG Silver to producer status. Longer term, we see robust upside potential for the asset, which includes both the possibility of a plant expansion and additional resources.

Price Target (Base Case): C\$27.00

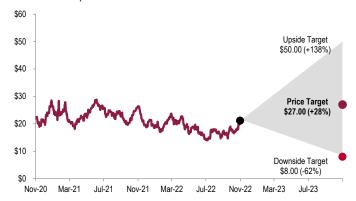
Our price target is based on the CIBC price deck, which features a \$26.50/oz silver price in 2022, \$23/oz in 2023, and \$20/oz longer-term.

Upside Scenario: C\$50.00

Our upside scenario is based on a \$50/oz silver price.

Downside Scenario: C\$8.00

Our downside scenario is based on a \$12.50/oz silver price and reduced multiples.





Total Silver Production (koz)

Sustaining Capex (\$M)

Development Capex (\$M)

Total Cash Costs (US\$/oz)
All-In-Sustaining Costs (US\$/oz)

Environmental, Social and Governance (ESG) Metrics for MAG-TSX

Governance Metrics	2017	2018	2019	2020	2021
Insider Ownership	13.5%	16.4%	12.9%	11.5%	11%
Board Gender Diversity	13%	13%	13%	29%	38%
Separation of Chair & CEO	YES	YES	YES	YES	YES
Dual-class Ownership?	NO	NO	NO	NO	NO
Disclose ESG Data?	NO	NO	NO	NO	NO
Social Metrics	2017	2018	2019	2020	2021
CEO Comp./Mkt Cap*	\$1.6	\$2.7	\$2.1	\$1.0	\$0.8
Diversity Targets	NO	NO	YES	YES	YES
Women Managers	NA	NA	12%	20%	20%
Environmental Metrics	2017	2018	2019	2020	2021
Emissions Intensity**	NA	NA	NA	NA	NA
Net-zero Targets?	NO	NO	NO	NO	NO

Su	stainalytics	ESG Risk R	ating	
33.5 Updated on Oct 30, 2022	-12 . Momen		gh Risk ▼	
NEGL	LOW	MED	HIGH	SEVERE
0-10	10-20	20-30	30-40	40+
Sus	stainalytics	FSG Risk Ra	iting Rankir	ισ

UNIVERSE	RANK (1st = lowest risk)	PERCENTILE (1st = lowest risk)
Global Universe	11059 /14707	75th
Precious Metals INDUSTRY	43 /118	37th
Precious Metals Mining SUBINDUSTRY	12 /29	40th

Sustainalytics Material ESG Issues These are the Material ESG Issues driving the ESG Risk Report

Issue Name	ESG Risk Exposure	ESG Risk Management	ESG Risk Rating	Contribution to ESG Risk Rating
	Score Category	Score Category	Score Category	
Corporate Governance	9.0 High	59.6 Strong	3.6 Low	10.8%
Human Capital	5.0 Medium	38.9 Average	3.2 Low	9.4%
Land Use and Biodiversity	2.8 Low	45.9 Average	1.5 Negligible	4.6%
Occupational Health and Safety	8.6 High	59.2 Strong	4.0 Low	11.9%
Resource Use	9.2 High	43.7 Average	6.0 Medium	17.9%
Bribery and Corruption	7.2 Medium	83.8 Strong	1.5 Negligible	4.4%
Business Ethics	3.0 Low	95.0 Strong	0.3 Negligible	0.9%
Community Relations	9.0 High	83.9 Strong	2.2 Low	6.6%
Emissions, Effluents and Waste	8.6 High	28.4 Average	6.4 High	19.0%
Carbon -Own Operations	6.0 Medium	23.8 Weak	4.9 Medium	14.5%
Overall	68.4 High	56.3 Strong	33.5 High	100%

CIBC Quantitative Scorecard

Within Sector			Within S&P/TSX Comp.		
Style	Rank	Delta	Style	Rank	Delta
Value	75	-4	Value	208	+200
Momentum	28	+10	Momentum	85	+175
Quality	71	0	Quality	201	+195
Market	56	-1	Market	141	+145
Low Volatility	73	-2	Low Volatility	205	+201
Growth	10	+4	Growth	31	+35
Note: Ranking out of 10	01 stocks		Note: Ranking out of 23	34 stocks	

General Notes Behind the Quantitative Scorecard

Delta refers to the change in the ranking over the past month. Number of stocks "Within Sector" is defined by the number within the GICS. In the "Within S&P/TSX" category, we use all stocks in the S&P/TSX Composite. For detail on the Quant Factors included in each style above, please contact the CIBC Portfolio Strategy Team.

The table above is based upon quantitative, statistical, and mathematical analysis and is not intended to serve as a fundamental recommendation.

CIBC Technical Scorecard

	TSM		TSM
Factor	Score	Factor	Score
TSM	6	Momentum	В
Beta	1.19	MACD	А
Volatility	\leftrightarrow	Alpha (Sector)	А
Trend	7	Alpha (Index)	В
RSI	Neutral		

General Notes Behind the Technical Scorecard

TSM: The Trendspotting Matrix uses technical factors to score uptrend durability. Momentum and alpha metrics compare performance over one-month, one-quarter and one-year timeframes, outputting a rating from A to D.

Trend/Volatility metrics measure price deviations relative to underlying moving averages. RSI is an oscillator that provides mean-reversion estimations.

MACD is a momentum indicator rated from A to D based off the strength of its signal.

The table above is based upon a technical methodology that examines the past trading patterns and trades and is not intended to serve as a fundamental recommendation.

Source: Sustainalytics, Compustat, FactSet, Bloomberg and CIBC World Markets Inc.



Price Target Calculation

Our C\$27.00 price target is derived from a 1.4x multiple on the company's net asset value (NAV) and a 23x multiple on the average of our H2/22-2023E JV CFPS estimate, at CIBC's price deck and a 5% discount rate. The P/NAV multiple of 1.4x is above the peer group average, but consistent with where MAG Silver shares have traded over the last year. The CFPS multiple of 23x is also above the peer group.

Key Risks To Price Target

Our price target is based on mine operations continuing without interruptions.

Mining is an inherently risky business, where technical, political and human issues can influence operations.

We consider the following as risks to our derived price target:

Commodity Prices: All mining companies are affected to varying degrees by changes in commodity prices. Rising or falling commodity prices have a direct impact on earnings, cash flow, and NAV. Commodity prices also impact operating, capital spending, and exploration decisions, which may have longer-term impacts.

Operational Risk: Operating issues are inherent to all mining activities. Inclement weather conditions, as an example, can impact operations, leading to production shortfalls, cost increases, and/or resource reductions (temporary or permanent). The impact on our estimates would depend on the nature, as well as the severity, of the operating issue.

Development Risk: During a project's development phase, certain events can lead to unforeseen delays or cost overruns, which could drastically change the economics of a project.

Permitting Risk: Permits are essential for all development projects and mining operations. Delays in obtaining or refusal of critical permits can have significant ramifications on the valuation of a project or operation.

Political/Country Risk: Every country poses unique risks. Governments can change mining and/or environmental laws and can implement tax or royalty changes, which could potentially hurt company earnings, cash flow, and NAV. There is also the risk of asset expropriation or nationalization without compensation, and changing political regimes that can alter the attitude towards mining activities. Most recently, there has been some investment community concern over a specific mining taxation dispute between another Canadian mining company and the Mexican government. The dispute is highly company-specific, stemming from the tax treatment of a streaming agreement at the San Dimas mine. We see no risk to other companies, including MAG Silver, at this time. In fact, Mexican President AMLO (Andrés Manuel López Obrador) has made recent public statements ruling out mining tax hikes.



Important Disclosures

Analyst Certification: Each CIBC World Markets Inc. research analyst named on the front page of this research report, or at the beginning of any subsection hereof, hereby certifies that (i) the recommendations and opinions expressed herein accurately reflect such research analyst's personal views about the company and securities that are the subject of this report and all other companies and securities mentioned in this report that are covered by such research analyst and (ii) no part of the research analyst's compensation was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed by such research analyst in this report.

Potential Conflicts of Interest: Equity research analysts employed by CIBC World Markets Inc. are compensated from revenues generated by various CIBC World Markets Inc. businesses, including the CIBC World Markets Investment Banking Department. Research analysts do not receive compensation based upon revenues from specific investment banking transactions. CIBC World Markets Inc. generally prohibits any research analyst and any member of his or her household from executing trades in the securities of a company that such research analyst covers. Additionally, CIBC World Markets Inc. generally prohibits any research analyst from serving as an officer, director or advisory board member of a company that such analyst covers.

In addition to 1% ownership positions in covered companies that are required to be specifically disclosed in this report, CIBC World Markets Inc. may have a long position of less than 1% or a short position or deal as principal in the securities discussed herein, related securities or in options, futures or other derivative instruments based thereon.

Recipients of this report are advised that any or all of the foregoing arrangements, as well as more specific disclosures set forth below, may at times give rise to potential conflicts of interest.

CIBC World Markets Inc. does and seeks to do business with companies covered in its research reports. As a result, investors should be aware that CIBC World Markets Inc. may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Analysts employed outside the U.S. are not registered as research analysts with FINRA. These analysts may not be associated persons of CIBC World Markets Corp. and therefore may not be subject to FINRA Rule 2241 restrictions on communications with a subject company, public appearances and trading securities held by a research analyst account.

CIBC World Markets Inc. Stock Rating System

Stock Ratings	Abbreviation	Description
Outperformer	OP	Stock is expected to outperform similar stocks in the coverage universe during the next 12-18 months.
Neutral	NT	Stock is expected to perform in line with similar stocks in the coverage universe during the next 12-18 months.
Underperformer	UN	Stock is expected to underperform similar stocks in the coverage universe during the next 12-18 months.
Tender	TR	Shareholders are advised to tender shares to a specific offer as we do not believe a superior offer will materialize.
Not Rated	NR	CIBC World Markets does not maintain an investment recommendation on the stock.
Restricted	R	CIBC World Markets is restricted (due to potential conflict of interest) from rating the stock.
Sector Ratings	Abbreviation	Description
Sector Ratings	Appleviation	•
Overweight	0	Sector is expected to outperform the broader market averages.
Marketweight	M	Sector is expected to equal the performance of the broader market averages.
Underweight	U	Sector is expected to underperform the broader market averages.
None	NA	Sector rating is not applicable.

Note: Broader market averages refer to S&P 500 in the U.S. and S&P/TSX Composite in Canada.



CIBC World Markets Inc. Price Chart

For price and performance charts, please visit CIBC on the web at https://researchcentral.cibccm.com/#/disclaimer-central-new or write to CIBC World Markets Inc., 161 Bay Street, 4th Floor, Toronto, ON M5H 2S8, Attn: Research Disclosure Chart Request.

Important Disclosure Footnotes for MAG Silver Corp. (MAG.TO)

• 2g CIBC World Markets Inc. expects to receive or intends to seek compensation for investment banking services from these companies in the next 3 months: MAG Silver Corp.

For important disclosure footnotes for companies mentioned in this report that are covered by CIBC World Markets Inc., click here: CIBC Disclaimers & Disclosures

Ratings Distribution*: CIBC World Markets Inc. Coverage Universe

(as of 14 Nov 2022)	Count	Percent	Inv. Banking Relationships	Count	Percent
Outperformer	149	50%	Outperformer	149	100%
Neutral	133	44%	Neutral	133	100%
Underperformer	6	2%	Underperformer	6	100%
Tender	3	1%	Tender	3	100%
Restricted	10	3%	Restricted	10	100%

Important disclosures for each issuer can be found by visiting the Research Central website at https://researchcentral.cibccm.com/#/disclaimer-central-new and then entering the issuer name. Access to our research dissemination policy can be found on the same website at https://researchcentral.cibccm.com/#/dissemination-policy. These important disclosures can also be obtained by writing to CIBC World Markets Inc., 161 Bay Street, 4th Floor, Toronto, ON M5H 2S8, Attention: Research Disclosures Request.

Access to CIBC Equity Research

Clients may access CIBC Equity Research online at Research Central at https://researchcentral.cibccm.com/, or at the following research aggregators: Bloomberg, Refinitiv, Capital IQ, and FactSet.



Legal Disclaimer

This report is issued by CIBC Capital Markets.

CIBC Capital Markets is a trademark brand name under which Canadian Imperial Bank of Commerce ("CIBC"), its subsidiaries and affiliates (including, without limitation, CIBC World Markets Inc., CIBC World Markets Corp. and CIBC Capital Markets (Europe) S.A.) provide different products and services to our customers around the world. Products and/or services offered by CIBC include corporate lending services, foreign exchange, money market instruments, structured notes, interest rate products and OTC derivatives. CIBC's Foreign Exchange Disclosure Statement relating to guidelines contained in the FX Global Code can be found at https://cibccm.com/en/disclosures/fx-disclosure-statement/. Other products and services, such as exchange-traded equity and equity options, fixed income securities and futures execution of Canadian securities, are offered through directly or indirectly held subsidiaries of CIBC as indicated below.

CIBC World Markets Inc. is a member of the Canadian Investor Protection Fund and the Investment Industry Regulatory Organization of Canada. In the United States, CIBC World Markets Corp. is a member of the Financial Industry Regulatory Authority and the Securities Investor Protection Fund. In Luxembourg. CIBC Capital Markets (Europe) S.A. (RCS Luxembourg: B236326) is authorised by the European Central Bank (the "ECB") and supervised by the Luxembourg Financial Supervisory Authority (Commission de Surveillance du Secteur Financier) under the oversight of the ECB. CIBC Australia Ltd (AFSL No: 240603) is regulated by the Australian Securities and Investment Commission ("ASIC"). CIBC World Markets (Japan) Inc. is a member of the Japanese Securities Dealer Association, CIBC (TSX/NYSE; CM) is a bank chartered under the Bank Act (Canada) having its registered office in Toronto, Ontario, Canada, and regulated by the Office of the Superintendent of Financial Institutions. CIBC New York Branch is licensed and supervised by the New York State Department of Financial Services. In the United Kingdom, CIBC London Branch is authorised by the Prudential Regulation Authority and subject to regulation by the Financial Conduct Authority and limited regulation by the Prudential Regulation Authority. Canadian Imperial Bank of Commerce, Sydney Branch (ABN: 33 608 235 847) is an authorised foreign bank branch regulated by the Australian Prudential Regulation Authority (APRA). Canadian Imperial Bank of Commerce, Hong Kong Branch is a registered institution under the Securities and Futures Ordinance, Cap 571, and a limited liability foreign company registered with the Hong Kong Companies Registry. Canadian Imperial Bank of Commerce, Singapore Branch is a wholesale bank licensed and regulated by the Monetary Authority of Singapore.

This report is issued and approved for distribution by (a) in Canada, CIBC World Markets Inc., a member of the Investment Industry Regulatory Organization of Canada ("IIROC"), the Toronto Stock Exchange, the TSX Venture Exchange and a Member of the Canadian Investor Protection Fund and (b) in the United States either by (i) CIBC World Markets Inc. for distribution only to U.S. Major Institutional Investors ("MII") (as such term is defined in SEC Rule 15a-6) or (ii) CIBC World Markets Corp., a member of the Financial Industry Regulatory Authority ("FINRA"). U.S. MIIs receiving this report from CIBC World Markets Inc. (the Canadian broker-dealer) are required to effect transactions (other than negotiating their terms) in securities discussed in the report through CIBC World Markets Corp. (the U.S. broker-dealer). CIBC World Markets Corp. accepts responsibility for the content of this research report.

Distribution to Institutional Customers Only

<u>Canada</u>

This report is provided, for informational purposes only, to institutional investor and retail clients of CIBC World Markets Inc. in Canada, and does not constitute an offer or solicitation to buy or sell any securities discussed herein in any jurisdiction where such offer or solicitation would be prohibited.



Legal Disclaimer (Continued)

United States

This report is provided, for informational purposes only, to Major US Institutional Investor clients of CIBC World Markets Corp. in the United States, and does not constitute an offer or solicitation to buy or sell any securities discussed herein in any jurisdiction where such offer or solicitation would be prohibited.

United Kingdom

The distribution of this report in the United Kingdom is being made only to, or directed only at, persons falling within one or more of the exemptions from the financial promotion regime in section 21 of the UK Financial Services and Markets Act 2000 (as amended) ("FSMA") including, without limitation, to the following:

- authorised firms under FSMA and certain other investment professionals falling within article 19 of the FSMA (Financial Promotion) Order 2005 ("FPO") and directors, officers and employees acting for such entities in relation to investment;
- high value entities falling within article 49 FPO and directors, officers and employees acting for such entities in relation to investment; and
- persons who receive this presentation outside the United Kingdom.

The distribution of this report to any other person in the United Kingdom is unauthorised and may contravene FSMA. No person falling outside such categories should treat this report as constituting a promotion to them or rely or act on it for any purposes whatsoever.

This report is distributed solely to eligible counterparties or professional clients and not retail clients as defined in point (8) of Article 2 of Regulation (EU) No 2017/565 as it forms part of UK domestic law by virtue of the European Union (Withdrawal) Act 2018.

All other jurisdictions

This report is distributed solely to institutional clients and not retail clients as defined by the applicable securities legislation and regulation to which CIBC Capital Markets may be subject in any jurisdiction, and only in compliance with all applicable laws and regulations.

The securities mentioned in this report may not be suitable for all types of investors. This report does not take into account the investment objectives, financial situation or specific needs of any particular client of CIBC World Markets. Recipients should consider this report as only a single factor in making an investment decision and should not rely solely on investment recommendations contained herein, if any, as a substitution for the exercise of independent judgment of the merits and risks of investments. The analyst writing the report is not a person or company with actual, implied or apparent authority to act on behalf of any issuer mentioned in the report. Before making an investment decision with respect to any security recommended in this report, the recipient should consider whether such recommendation is appropriate given the recipient's particular investment needs, objectives and financial circumstances. CIBC World Markets suggests that, prior to acting on any of the recommendations herein, Canadian retail clients of CIBC World Markets contact one of our client advisers in your jurisdiction to discuss your particular circumstances. Non-client recipients of this report who are not institutional investor clients of CIBC World Markets should consult with an independent financial advisor prior to making any investment decision based on this report or for any necessary explanation of its contents. CIBC World Markets will not treat non-client recipients as its clients solely by virtue of their receiving this report.



Legal Disclaimer (Continued)

Past performance is not a guarantee of future results, and no representation or warranty, express or implied, is made regarding future performance of any security mentioned in this report. The price of the securities mentioned in this report and the income they produce may fluctuate and/or be adversely affected by exchange rates, and investors may realize losses on investments in such securities, including the loss of investment principal. CIBC World Markets accepts no liability for any loss arising from the use of information contained in this report, except to the extent that liability may arise under specific statutes or regulations applicable to CIBC World Markets.

Information, opinions and statistical data contained in this report were obtained or derived from sources believed to be reliable, but CIBC World Markets does not represent that any such information, opinion or statistical data is accurate or complete (with the exception of information contained in the Important Disclosures section of this report provided by CIBC World Markets or individual research analysts), and they should not be relied upon as such. All estimates, opinions and recommendations expressed herein constitute judgments as of the date of this report and are subject to change without notice.

Nothing in this report constitutes legal, accounting or tax advice. Since the levels and bases of taxation can change, any reference in this report to the impact of taxation should not be construed as offering tax advice on the tax consequences of investments. As with any investment having potential tax implications, clients should consult with their own independent tax adviser.

This report may provide addresses of, or contain hyperlinks to, Internet web sites. CIBC World Markets has not reviewed the linked Internet web site of any third party and takes no responsibility for the contents thereof. Each such address or hyperlink is provided solely for the recipient's convenience and information, and the content of linked third party web sites is not in any way incorporated into this document. Recipients who choose to access such third-party web sites or follow such hyperlinks do so at their own risk.

Although each company issuing this report is a wholly owned subsidiary of CIBC, each is solely responsible for its contractual obligations and commitments, and any securities products offered or recommended to or purchased or sold in any client accounts (i) will not be insured by the Federal Deposit Insurance Corporation ("FDIC"), the Canada Deposit Insurance Corporation or other similar deposit insurance, (ii) will not be deposits or other obligations of CIBC, (iii) will not be endorsed or guaranteed by CIBC, and (iv) will be subject to investment risks, including possible loss of the principal invested. CIBC Capital Markets and the CIBC Logo Design are trademarks of CIBC, used under license.

© 2022 CIBC World Markets Inc., CIBC World Markets Corp. and CIBC Capital Markets (Europe) S.A. All rights reserved. Unauthorised use, distribution, duplication or disclosure without the prior written permission of CIBC World Markets is prohibited by law and may result in prosecution.

