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**PUBLIC CHOICE ALTERNATIVES** 

# Making Money Makes Money A VALUATION OF THE ROYAL CANADIAN MINT

**BY IAN MADSEN** 



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### **Making Money Makes Money**

# A VALUATION OF THE ROYAL CANADIAN MINT

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#### **EXECUTIVE SUMMARY**

The Royal Canadian Mint, or 'RCM', is the federal Crown corporation which produces the coin currency, one and two dollar and smaller coins, used in circulation for consumer financial transactions in Canada. Using an intrinsic value method, and discounting to the present RCM's projected future free cash flows, as the company is today, taxed as it presently is at full statutory rates, the range of estimates is \$490M to \$3.43B, with a tighter range of a median (midpoint of the array of values) of \$857M to a mean (simple average) of \$1.1B.

Under the market-based valuation system, i.e., evaluating RCM's financial metrics against those of companies deemed to be comparable, the 'as is' current value of the company ranges from \$197M to \$9.09B, with a median (midpoint of the array of values) of \$1.24B and a mean (simple average) of \$3.47B. Five of eight possible valuation metrics (Trailing and Forward Price to Earnings, 'P/E'; Price to Sales, 'P/S'; Price to Book Value, 'P/BV'; and Price to Operating Cash Flow, 'P/CF') were usable.

#### INTRODUCTION

#### The Royal Canadian Mint, A History

The Royal Canadian Mint, or RCM, is the federal Crown corporation which produces the coin currency, one and two dollar and smaller coins, used in circulation for consumer financial transactions in Canada. It also makes commemorative and collector coins and medallions marking special occasions and anniversaries, such as those marking the centenary of the end of World War I last year, and Canada's sesquicentennial, the year before. Other products include Maple Leaf pure gold bullion coins, wafers and bars, along with silver and platinum ones.¹ It also makes coins for other countries, which is an important source of revenue.²

Although Canada became a self-governing Dominion in 1867, the mint did not begin operations until 1908. In 1931, the Mint ceased being a subsidiary of the United Kingdom's Royal Mint. By 1937, the first "all-Canadian" coin designs, like the penny maple leaf, the nickel beaver, and the dime Bluenose began circulating. It also makes the loonie, Canada's one dollar coin, and the polar bear, the two dollar coin.<sup>3</sup>

<sup>1.</sup> See https://www.mint.ca/store/mint/about-the-mint/our-products-1200028#.XCEfDVxKhPY.

<sup>2.</sup> See https://www.mint.ca/store/mint/about-the-mint/international-minting-services-6100004#.XCEfgFxKhPY.

<sup>3.</sup> See https://imaginaire.com/en/for-collectors/100-years-of-history-royal-canadian-mint-2008-canadian-coin.html.

# INTRINSIC VALUE: VALUATION OF THE ROYAL CANADIAN MINT AS A BUSINESS, USING DISCOUNTED FREE CASH FLOW

The intrinsic value model uses a perpetuity with a constant growth rate and constant cost of capital. This is crudely but generally appropriate for a stable company in a slow-growth, mature sector. For the intrinsic value of RCM, projecting future cash flow growth, and bringing it to a net present value, a relatively conservative approach was taken which could undervalue the company (see Table 1).

Each constituent (eg., revenue, cost of goods sold, interest expense, depreciation and amortization, administrative and sales expense) determining the final free cash flow was projected independently. The company's free cash flow growth rate range was held to a restrained 2 to 4 percent, and the required rate of return or cost of capital range was from 5 to 9 percent. RCM's cost of capital, given

low expectations and high current valuations in the stock market, could well be lower than the range used (and thus raise its estimated value), although there is also a chance that interest rates and the rate of return investors demand on equity (share) investment could increase. The statutory tax rate used in calculations may be lower in the future, as there is continued global pressure to lower corporate tax rates, exemplified by the 2017 drop in US corporation income tax rates.

Using an **intrinsic value method**, and discounting to the present RCM's projected future free cash flows, as the company is today, taxed as it presently is at statutory rates, the range of estimates is \$490M to \$3.43B, with a tighter range of a median (midpoint of the array of values) of \$857M to a mean (simple average) of \$1.1B.

Table 1														
Intrinsic Value, Us	ing F	Present	Valu	e of Di	scou	nted Fu	ture	Cash F	lows					
Present Value of Discounted Fr						low (Require	d Rate o	of Return ['r'	] = Grov	vth Rate [`g'	1)			
Projected Fully Taxed Free Cash  Matrix Values (\$M) g==v; r==>	II FIOW E	4.00%	F12016	(\$M): \$ 34. 5.00%	30	6.00%		7.00%		8.00%		9.00%		10.00%
0.00%	\$	857	\$	686	\$	572	\$	490	\$	429	\$	381	\$	343
1.00%	\$	1,143	\$	857	\$	686	\$	572	\$	490	\$	429	\$	381
2.00%	\$	1,715	\$ \$	1,143	\$ \$	857	\$	686	\$	572	\$	490	\$	429
3.00%	\$	3,430	\$	1,715	\$	1,143	\$	857	\$	686	\$	572	\$	490
4.00%	Ψ		\$	3,430	s s	1,715	\$	1,143	\$	857	\$	686	\$	572
5.00%	-\$	3,430			\$	3,430	\$	1,715	\$	1,143	\$	857	\$	686
6.00%	-\$	1,715	-\$	3,430	\$		\$	3,430	\$	1,715	\$	1,143	\$	857
7.00%	-\$	1,143	-\$	1,715	-\$	3,430	\$		\$	3,430	\$	1,715	\$	1,143
				Minimum			Maximum			edian		Mean (Average)		
Total Market Value (\$M)				\$	-	\$ 3,430			857		\$ 1,104			

Source: Author's calculations based on valuation model formulae using summary versions in annual reports from the company.

### MARKET-BASED VALUE: VALUATION OF THE ROYAL CANADIAN MINT USING STOCK MARKET AND FINANCIAL METRICS

The unusual nature of RCM meant that some unusual companies were used for financial comparison purposes. There is only one publicly listed 'money-maker', a banknote and lottery ticket and other secure document manufacturer. As the main products of RCM are collectable metal medallions, generally precious metal, five gold and silver royalty streaming companies were also used, as their cash flows are fairly non-volatile and investors look to them as proxies for precious metal values. Since RCM is a precision metal products manufacturer, several companies engaged in similar activities were also chosen.

As noted in the Executive Summary, the 'as is' current value of the company ranges from \$197M to \$9.09B, with a median (midpoint of the array of values) of \$1.24B and a mean (simple average) of \$3.47B. Five of eight possible valuation metrics (Trailing and Forward Price to Earnings, 'P/E'; Price to Sales, 'P/S'; Price to Book Value, 'P/BV'; and Price to Operating Cash Flow, 'P/CF') were usable. Please see the details of the models' results in Table 2.

able 2											
larket Value, Using Financial Me	trics	fro	m Com	parab	le Comp	anies	5				
Valuation Metrics Applied to Royal Canadian Mint; i.e., Market Value of Common Equity (Figures \$M)		Pric Sale		(Mark	ard P/E set Value to let Income)	(Mar	ng P/E ket Value to Net Income)	Price Bool	e to < Value	Price to Operating Cash Flow	
One Canadian-Listed Secure Document Manufacturer			89	\$	631	\$	574	\$	1,138	\$	622
Average Five Precious Metal Streaming Companies			21,800	\$	1,168	\$	4,728	\$	277	\$	1,303
Average Nine Canadian-Listed Precision Manufacturers		\$	9,091	\$	678	\$	1,789	\$	197	\$	257
Average of All the Above, Evenly Weighted by Company			9,091	\$	678	\$	1,789	\$	197	\$	688
Market Value Using Comparable Companies, and Sever	ı Viable V	/aluatio	on Ratios	<u>'</u>						<u>'</u>	
	Minim	num		Maximum			Median		М	Mean (Average)	
Total Market Value (\$M) \$		197		\$ 9,091		\$		1,238	\$		3,466

Source: Capital IQ via Yahoo!Finance; company annual reports; calculations from consultant.

#### CONCLUSION

This study used detailed historical financial statements, but the trends in net income, costs and capital expenditures may not be fully and reliably extrapolated. A more thorough appraisal prior to a proposed floating of RCM shares on a stock market or before the company would be sold to private investors could and should determine a very different value for the company.

Given its unique institutional, legal, monetary and financial role and position, RCM would likely have to be re-oriented and re-missioned to continue to keep its current role and functions. This may not be very difficult, as it is already fairly autonomous. As far as is known, the proceeds of such a sale would go to the federal government of Canada, unless Ottawa decides otherwise.

#### APPENDIX I:

### RATIONALE FOR DIVESTITURE OR PRIVATIZATION

While it is up to the people through their elected representatives to decide if a Crown corporation or other government agency or entity should be sold or otherwise privatized and the proceeds used for the benefit of all citizens and taxpayers, there are some established reasons to embark on such a path, some or all of which are cited for divestiture of such enterprises but may not be applicable in any single case.

- The government has no mandate to own or run a commercial enterprise. Libertarians, 'Classical Liberals' and free-market conservatives believe that the provision of citizens' safety, security and justice is the government's primary role, and its involvement in the economy should generally not extend beyond this.
- Regulation can usually accomplish any public policy reason for direct involvement in an industry. If regulation is not easily feasible, then a direct contract or subsidy to any affected individuals, entity or entities may be more efficient or effective and less economically disruptive or costly.
- 3. If a government-controlled or sponsored enterprise has a monopoly position, nearmonopoly, or effective monopoly in a line or lines of business or businesses, then opportunities are lost in one or more commercial or potentially commercial sectors for entrepreneurs and investors to try to create and grow businesses to enrich and sustain themselves, employees, suppliers, and others.
- 4. A monopoly, near-monopoly, or effective monopoly market position by a governmentowned or sponsored entity could result in far higher prices for customers, the general

- public, or a section of the public, than would be the case in a fully competitive marketplace for the industry involved.
- 5. A government-owned or -sponsored enterprise may compete directly against private sector firms, which are owned by or employ citizens, or against individual citizens, all of whom the government is supposed to serve, not disadvantage.
- 6. The government-owned or -sponsored enterprise may compete unfairly against its private sector rivals in that it had or has access to lower-cost government-sourced and -guaranteed capital (debt). It may have a much larger debt component in its capital versus that which would be tolerated in the private sector. Thus, it may not have to meet high standards for profit and cost control, allowing it to offer lower than true free market-based competitive pricing.
- 7. Government-owned firms may not need to pay provincial or federal income taxes. This can allow such firms to supply goods or services more cheaply than the private sector companies they are competing with.
- 8. Government-owned or -sponsored enterprises may not have any kind of profit orientation or target, may be used as public policy vehicles and may be given preference in their activities or even in their transgressions, such as labour or environmental abuses.
- Government-owned or -sponsored enterprises, by virtue of being public sector vehicles overseen by bureaucrats and politicians, may be places where favoured individuals find employment, particularly at management levels.

- 10. Since profit is a secondary goal of a government-owned or -sponsored enterprise, it is difficult to evaluate the effectiveness, efficiency or productivity of the enterprise or its employees. Consequently, these employees and assets may not be very productive or effective.
- 11. In some cases, government-owned entities are monopolies or effective monopolies, and use their market-dominating power to charge higher prices than would be the case in a fully competitive sector with several viable companies in intense rivalry to offer customers the best product or service at the best price.
- 12. Government-owned or -sponsored enterprises are often creations of certain time-fixed circumstances and outlive whatever use or public policy role their creators may have conceived. Often, advances in technology; the modernization of transport, telecommunication or information technology; the evolution of the economy and available products and services and the increasing standard of living make these enterprises potentially obsolete. In the private sector, firms and individuals must adapt and evolve, or decline.
- 13. Government-owned or -sponsored enterprises perpetuate their possibly obsolete existences by virtue of the constituencies that build up around them: employees, managers, directors and bureaucrats, customers, suppliers and associated advocates or consultants. They can lobby to keep the enterprise going, despite dysfunction or losses. They are far more motivated to do so than are the taxpayers, whose average cost is much less per person and may be indirect, hidden or difficult to calculate.
- 14. Because they are not profit-oriented, government-owned or -sponsored enterprises are usually less efficient, and thus they lower the overall efficiency of the entire economy. This can make a whole nation less competitive than its global rivals are, whether nations or individual companies.

- The effects are worse the greater the government involvement in the economy. When taken to its most extreme, as happened in 20th-century communist nations, the countries were unable to compete against capitalist companies, despite their immense direct and indirect subsidies, government support and the lack of profit requirement.
- 15. Funds tied up in the capital of government-owned or -sponsored enterprises could be used to reduce government debt or lower taxes on individuals or corporations, which they could then spend or invest as they freely choose, and thus they could inject money back into the economy in more-lucrative ways.
- 16. The greater the number and size of government owned or government sponsored enterprises in an economy, the greater the size and power of the government, which is usually the largest single entity in society, increasing the dangers of abuse of power, including injuring individual citizens, companies, or groups. Effective capacity of opposition or recourse against this power diminishes as the proportion of the economy the government occupies increases.

