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# The Future of American Mining

MM Steel Club March 26, 2021

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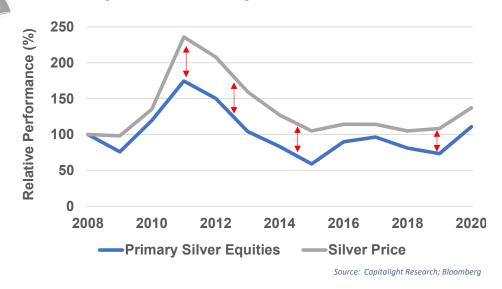




## Precious Metal Miners: Equity Underperformance Capitalight



### **Primary Silver Equity Underperformance**<sup>1</sup>



### Gold Senior Equity Underperformance<sup>2</sup>



#### Since 2008:

- Silver prices are up ~240% vs. a primary silver equity index (up ~140%)
- Gold prices are up ~200% vs. gold senior equity index (up ~100%)

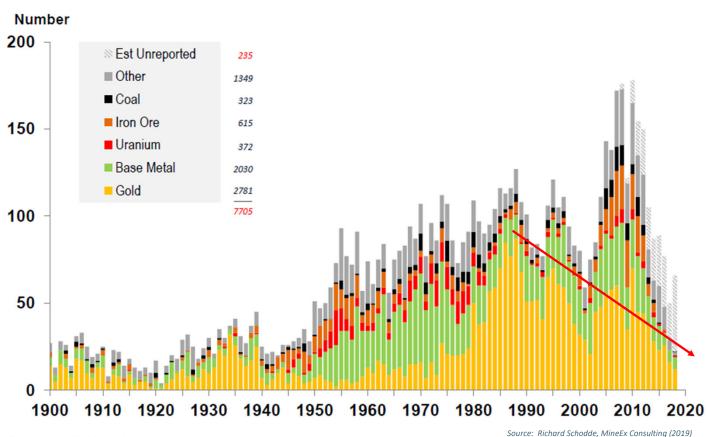


<sup>&</sup>lt;sup>1</sup> The Capitalight Primary Silver index includes companies that generate > 50% of total revenues from silver production sales

# **Precious Miners: Lack of Exploration Success**



## # of Global Discoveries by Commodity Type



- Gold ounces discovered has declined since 2000
- In late 1990s, >100M ounces/year in new discoveries announced
- In 2017, <13M ounces announced

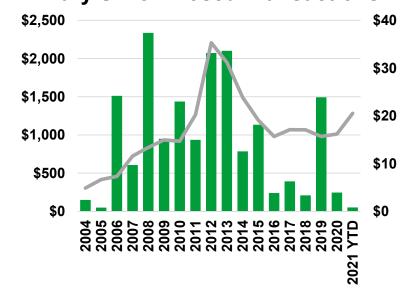


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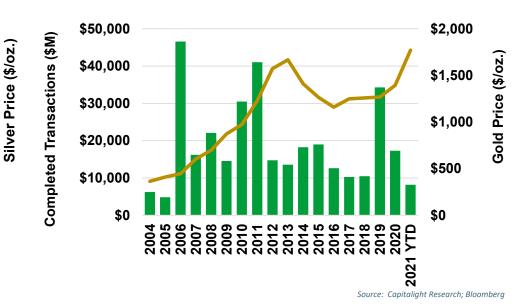
## **Precious Metal Miners: M&A Transactions**







#### **Gold Seniors Closed Transactions**



 2006 – 2012 gold and silver miners focus on top-line (or ounce production) growth led to significant M&A transactions

Source: Capitalight Research; Bloomberg

Silver Primaries: ~\$9B; Gold Seniors: ~\$186B



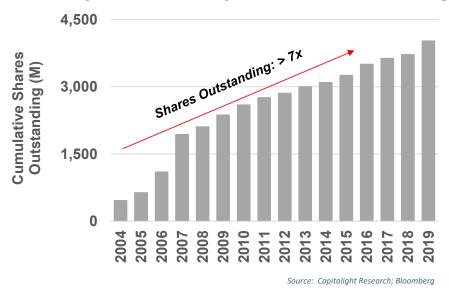
Completed Transactions (\$M)



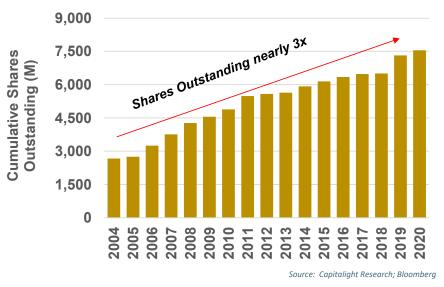
### **Precious Metal Miners: Shareholder Dilution**



### **Primary Silver Equity Shares Outstanding**



### **Gold Senior Equity Shares Outstanding**



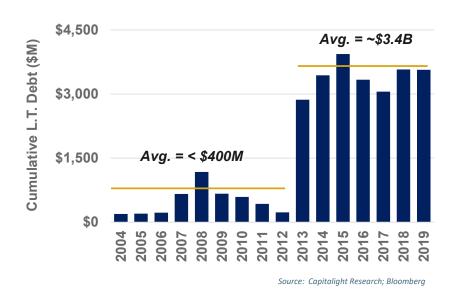
- Cumulative shares outstanding for the primary silver producers has increased from approximately 475M in 2004 to over 4B in 2019 (a 750 percent increase)
- Gold Sr. shares up from 2.7B to over 7.5B



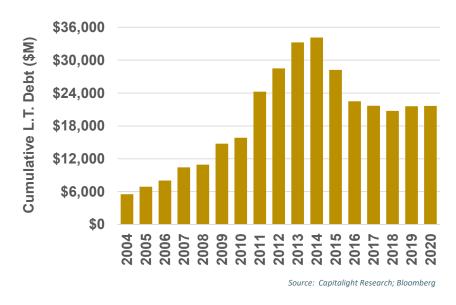
## **Precious Metal Miners: Investor Dilution**



### **Primary Silver L.T. Debt Outstanding**



### **Gold Seniors L.T. Debt Outstanding**



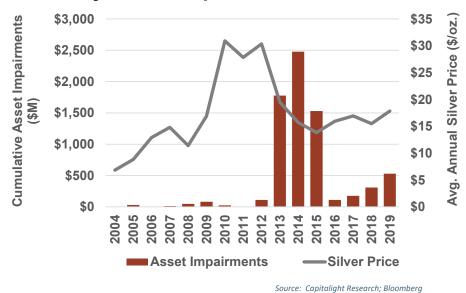
- For primary silver equities cumulative average aggregate debt outstanding was less than \$400M from 2004 through 2012. This has increased 6-fold to average ~\$3.4B since 2013
- Gold seniors cumulative I.t. debt peaked >\$34B in 2014; averaging ~\$22B/year since 2016



# **Precious Metal Miners: Asset Impairments**



### **Primary Silver Impairments**



### **Gold Seniors Impairments**



Source: Capitalight Research; Bloomberg

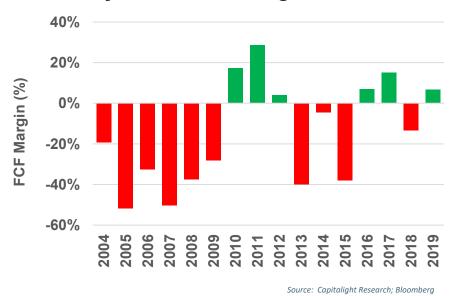
- Silver primaries cumulative write offs over \$6B from 2010 2016
- Gold seniors cumulative write offs nearly \$60B from 2010 2016



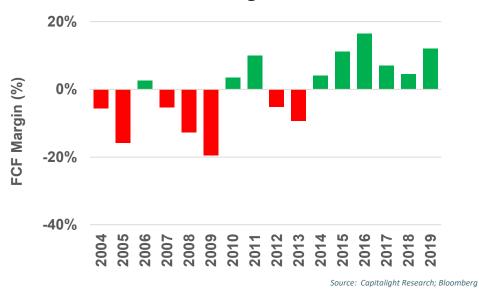
# **Precious Metal Miners: FCF Margin**



### **Primary Silver FCF Margin**



### **Gold Seniors FCF Margins**



- Silver primaries aggregate FCF margin has primarily been negative (in two-thirds of the years since 2004)
- Gold seniors FCF margin has been positive since 2014 due to emphasis on capital discipline and efficiency focus





### **Precious Metal Miners: Outlook**



#### **Review**

- ~2005 2012: "Growth at any cost / fear of missing out" mindset led to massive value destruction
- 2013 2015: Huge write-downs, debt reduction and cost reductions and to repair balance sheets (as well as management turnover)
- 2016 to present: Outside of a few transformational transactions in 2019 (PanAm Silver/Tahoe Resources; Newmont/Goldcorp; Barrick/Randgold), a general reluctance for widespread M&A activity

#### **Outlook**

 Relatively low exploration success to persist, M&A to emphasize bolt-on transactions (with jurisdictional/operation synergies) and/or development assets

