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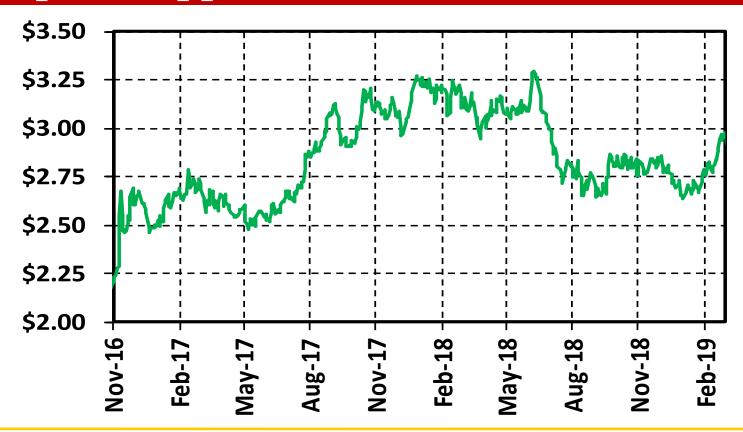
#### The Bull Market Fundamentals of Copper

O - M Partners Webinar

March 13, 2019



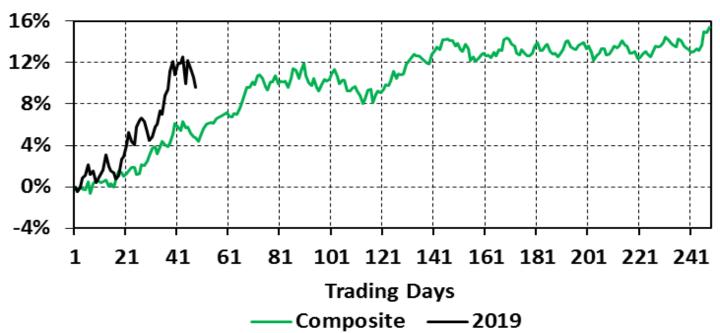
#### Spot Copper Price Nov 2016 - Present





## Yearly Seasonality of Copper

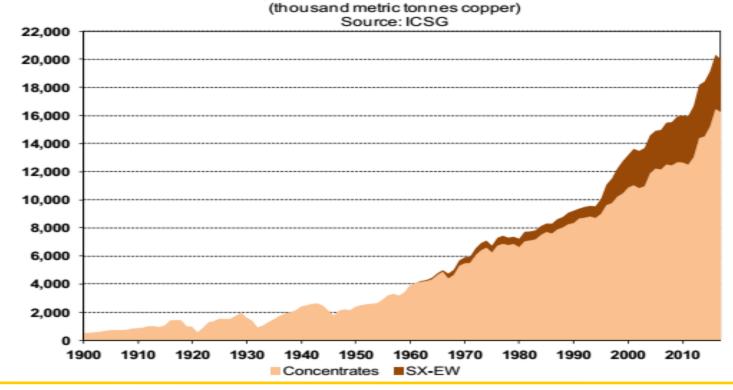
# Copper Price 2003-2018 Composite





#### World Copper Mine Production 1900 - 2017

#### World Copper Mine Production, 1900-2017





#### World Population & Cu Consumption (ICSG)





#### Why I am a Copper Perma - Bull

- 85 Million More Humans / Year
- 25 % Without Electricity
- Most in E Asia & Sub Sahara Africa
- 3.4 % Annual Demand Growth since 1900
- Discovery << Demand</li>



#### Where Will The Copper Come From?

- North & South America Mature Provinces
- DRC, E Asia, SW Pacific Geopolitically Untenable
- Australia Mature & Covered Terrain
- 2<sup>nd</sup> & 3<sup>rd</sup> World Resource Nationalism



#### Where Will The Copper Come From?

- Copper Oxides ?
- Lower Mine Grades
- Exploration: Buried & Deeper
- Solution: Technology & Innovation



### New Copper Required Per Year





## Monday Morning Musings from Mickey the Mercenary Geologist





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